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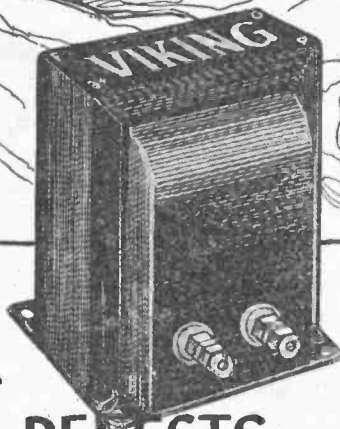
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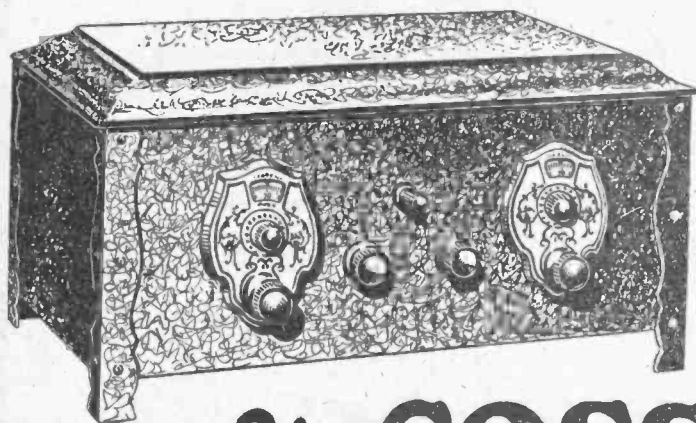
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English as She is Spoken and Broken

By LAURENCE HALBERT

Mr. Halbert, one of the most correct announcers in Australia, indulges in whimsical recreation.

“CHEESE IT! You're kidding me,” said the seah as he took a knock-out by the sucker, who was in the pink of condition, and had been told by the big stiff that the fight was in the bag.”

Can you imagine the size of the Broadcasting Company's mail-bag if one of their announcers gave voice to the above over the ether one peaceful night—caustic comments on Americanising English, the American element in this country, Australia for Australians, etc.? Yet all the aforesaid words and phrases are good old English, which we have been in the habit of calling American slang; in reality, they were taken to America by the early pioneers.

When, in the latest picture featuring Mary Fozzle Fozzle, the successful suitor to the fair Mary's hand calls his rival a “poor ham,” he speaks tolerably good English. “Amateur,” meaning “defective,” was shortened during the early period of last century to “am,” and the aitch added by the “bucks” who used to ride in “Pell Mell,” spelt “Pall Mall,” and who never by any chance missed seeing the “Darby,” spelt “Derby.”

How often we hear that our speech is becoming Americanised; in these days of hustle and bustle, the word “fan” is becoming more and more common; we speak of a football fan, a radio fan, etc.—pure English “faney,” shortened to “fan.” Don't we “back our faney” in this land, where the sport of kings is given full rein?

Australia may be compared with America some hundred years ago, when it was inhabited by representatives of every county in England. To a certain extent, we see the result to-day in their speech (excluding the negro influence); but could you expect otherwise, when there are as many dialects as there are letters in the alphabet in the little island with the wonderful history. Put a Yorkshireman in the same room as a Cornishman, and the chances are even that they would have the greatest difficulty in understanding each other, and yet they have lived within 200 miles of each other all their lives. Of course, you all know the Yorkshireman's motto:—

*“Ear all, say noist.
Sup all, pay noist.
An' if thou does owt for noiv
Do-it for tha sel.*

Some months ago, for weeks on end, a group of eminent men of letters pored over many dictionaries, and the result of their labors was a little booklet entitled “Broadcast English,” compiled mainly for the use of the announcer associated with the B.B.C. as to what they may, and may not, say. In other words, the aforesaid men of letters propose endeavoring to

standardise certain words commonly used by the English broadcasting announcer. The latter is supposed to have a good knowledge of English; but, after all, he is an announcer, not a professor of English; his listeners are not waiting for a lesson in English, but merely for information of what is happening or going to happen. Surely radio is firstly for entertainment, and service; lastly for grammarians. Has not each one of us some little idiosyncrasy; have you never listened to a speaker over the air, and heard at least one word mis-pronounced, members of Parliament, doctors, or even professors not excepted? The announcer is in a very different category from the casual speaker from the studio: the former is speaking for several hours every day; his life is not all a bed of roses; very often he has not had time even to scan a page of news which is to be broadcast. His eye catches sight of a word on the next line to the one he is reading; he has seen this word thousands of times, but, being human, he has his own mental pronunciation, which possibly does not tally with that of some of his listeners, or even the dictionary. The announcer has only one alternative, and that is a quick substitute, as long as it doesn't alter the context—and not, as one announcer has been known to do when in the above quandary, a sharp tap given on the table in front of the microphone with his open hand at the identical moment that he makes a shot at articulating the word.

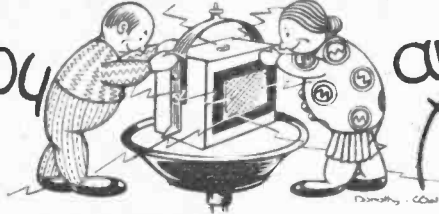
If the announcer does trip—and he often does—over a word, what happens? By the following mail comes a badly punctuated, and, as a rule, ungrammatical, letter from an irate old gentleman, whose ear has been offended by the said mistake. Remember, he may make a mistake himself when making up his cash book, and possibly a very silly one, like a simple addition; but a few minutes' work, a deft rub of the eraser, and no one is any the wiser. But when the announcer makes a mistake the whole world knows it; it has gone, and no power on earth can recall it—it's rather terrifying in its potentialities.

The writer remembers some years ago when broadcasting in England was in its infancy, a now-famous identity, known then as Uncle Caractacus, used to be the Admirable (Crichton of the studio; he was always on duty. Whenever the head-phones were put on there was the same familiar voice. After some months it dawned on the family circle that no one could remember hearing him make a phonetic mistake, fluff, or mis-pronunciation. When this was



Mr. Halbert, announcing at 2FC.

Between You and Me and the Microphone



Life's Inconsistency

MISS GIBSON was finishing a nice, sobby love-story, during her Booklovers' Corner Session. The wedding-bells, or something, were jangling in the distance, and the heroine was raising her tear-stained face towards the hero's stern but softened and somewhat corroded visage. It was a great moment, and Miss Gibson knew it. She murmured the heroine's soft prayers. She stammered the hero's proposals. She became, for that glorious moment, the WONDERFUL FEELING, which united the hearts of Hero and Heroine in one simultaneous beat. No. Only for half that glorious moment. Because, just as everything seemed positively beatific, a heavy hand placed itself on the announcer's table, and a hoarse voice whispered: "Quick! Announce the result of the La Bárba fight!"

The Parting Call

SISTER SMEDLEY, of the Bush Nursing Association, at Greenethorpe, of which district we are pleased to hear for the first time, wanted to listen-in to Mr. Hall's "Menin Gate" phantasy, from 2FC. "I enjoyed the little I was able to listen to," she says, "but, unfortunately, I had a call." Material here for an essay on whether bush nurses should allow their attention to be distracted by radio broadcasting.

Two Bouquets

(CAPTAIN STEVENS in a new role—the sponge which absorbeth the melancholy of others. "Although it is a lovely day, I feel down in the dumps, so I thought I would sit down and write to you, to take it off a bit." The captain thus shows himself to be a man of courage, who is quite prepared to take in as much of sorrow as he gives out of happiness; but it seems physically impossible, so we are waiting for him to break under the strain. His courage is also the subject of a testimonial from another quarter. "I am quite aware that you may get some adverse criticism . . . but, as the writer has always found you to be a man of character and grit, he feels sure you will be firm and act according to the dictates of your conscience." Yea, he is even the knight of all Romantic desire.



IT must be placed on record that, when Mr. G. Vern Barnett takes upon his head the hat of Mr. W. E. Lewis, and when Mr. Lewis dons the Barnett bowler, and when Mr. Ray Allsop puts on the hat of a nondescript young man who occasionally visits 2BL, the effect is not quite so graceful as when these gentlemen condescend to appear in their own headgear, although decidedly humorous. But, when Mr. Barnett puts on the dainty lid of the evening switchboard operatrix, completing the ensemble with her overcoat, and minces airily up and down, one is sorry that the stage has lost so excellent a mimic, and writes a paragraph about it in the "Wireless Weekly."



(ONE of the neatest pieces of wit put on the air lately was noticed only by those who knew. Mr. Chapple, 2FC's accompanist, interviewed Miss Marie Bremner for the station. And, when the interview came to his close in Miss Bremner's dressing-room at Her Majesty's. Mr. Chapple said haltingly, "Thank you very much, Miss—er—Bremner; good-night." And Miss Bremner replied charmingly, "Good-night, Mr. Chapple; SO pleased to have met you!" You see, Miss Bremner is the wife of Mr. Chapple.



MEMBERS of the Westmead Old Boys'

Band came out from No. 2 studio at 2FC the other night, tip-toeing along the heavy carpets. One of them motioned to the others, pointing to a picture on the wall, and was just about to say something, when one of the others held up his hand. "Hush!" he said. "D'you want to go over the air?" But, if everything which has been said quite loudly in the 2FC passage-way had gone over the air . . . well! However, members of the Westmead Old Boys' Band continued to walk on tip-toe throughout the evening. One caught the atmosphere. One stole into the elevator, closing the doors with unwonted care. One passed furtively into the street and wandered softly away.



THE University Undergraduates' Hour at 2BL, several Mondays since, wasn't too bad at all. Those who expected to hear violent condemnations of everything in general were a little disappointed with the wit and quiet humor of the piece. There was certainly too much reference to topics understandable only by University children; and many of the carefully prepared sketches could have been substantially pruned. It was unfortunate that the accompaniment to the first song (to Professor Robert Wallace) should have been so decidedly out of pitch; but the student-pianist afterwards wiped out this blot on his reputation by playing "Abide With Me" and "Onward, Christian Soldiers" to jazz rhythm. Of the several other songs, one admired especially was the job at Canberra's motto—"As I stood on the Federal Territory, singing Rege pro lege et grege"—although this, also, could have been cut down. But the Hour was interesting, because it was unusual. There is a different atmosphere in humor and wit when they come from young men who haven't a care in the world, and who don't give a damn for anyone—even for the professors of Sydney University. It is fresh and ingenious and wholesome. We would like to hear the dose repeated once a month, but with our suggested modifications.

WE Think!
YOU never know. A new idea—a different way of doing things—a new invention—can have the most far-reaching results on all departments of life. If the merchandising method of the radio industry extends to other lines of business we may see advertisements like this:—
Le Page's Tooth Paste . . . 1/- (Less Tubes)
Stuckup's Glue 1/9 (Tubes Extra)
But, on second considerations, we don't think such schemes will hold water. After all, it was just an idea. . . .



THE New South Wales Broadcasting Company's mail contains some strange requests. Only recently a woman wrote in asking them to send her a "quer for bunyans." Another wanted them to send her a free sample of "XXXXXX" baby food, and an, "XXXXX" baby, "as promised." Another explained she wished to adopt a baby, and wanted the company to broadcast inquiries for a baby suitable for adoption. In fact, if letters were any criterion, one might imagine 2FC and 2BL to be Baby Clinics. But, with the suggestion of Mr. Basil Kirke and Mr. A. S. Cochrane as soft-voiced nurses under the supervision of Matron Anderson, and Mr. Williams as Medical Officer—well!



A FEW Saturday nights ago Mr. Jack Barnett announced the next record, "When all the world's asleep." "When's that?" asked Mr. Eric Bessemer, from the control-room. "Between two and four," said Mr. Barnett. No doubt listeners who heard Mr. Barnett say, "When all the world's asleep . . . between two and four," will now know that it was information he wished to convey, and will doubtless be pleased with the interest he has shown in the advancement of their education.

SOLO:

Not on the Programme—Item 2

“The Two Black Crows”

By MISS MARIE BREMNER
(Leading Lady of “The Desert Song”)

In their right places: Mr. Barnett and Mr. Chapple

“‘The Two Black Crows’ is a counter-song to the melodies so carefully, but boldly enunciated last week by Mr. Barnett and Mr. Chapple. It will be noticed that the composer has introduced a kind of irony into this song, which is calculated to try the powers of the accompanists to their uttermost.”

“I really can’t understand what they mean by attacking singers so viciously,” said Miss Bremner. “It only proves what I have thought for a long time: no accompanist has the slightest piece of common decency in his make-up.”

“Oh, I say!” said Mr. Chapple. “Remember our position in Society!” said Mr. Barnett.

“You have already said quite enough, Mr. Chapple,” said Miss Bremner, frowning. “As for your position, Mr. Barnett, please remember that your position is at the piano—not in the pages of the ‘Wireless Weekly,’ where you have only succeeded in creating discords—”

“Madam,” said Mr. Barnett, “my reputation—”

“Your reputation, Mr. Barnett, is a thing I dare not discuss in such a staid publication as the ‘Wireless Weekly.’”

“But my dear girl!” exclaimed the agonised Mr. Chapple. “Surely you’re not going to give us away!”

“I shall tell the truth, the whole truth, and nothing but the truth.”

“Good heavens!” said Mr. Chapple. “All is over,” said Mr. Barnett. “All right—tell it; but don’t ever expect us to accompany you.”

“Enough!” Miss Bremner replied, and rose imperially. “You are tiring the audience with this shocking and unbecoming scene. You will get on with the accompaniment immediately, or—”

Mr. Barnett rushed to his grand organ, and Mr. Chapple made a dash for the piano. They reached their instruments simultaneously, and immediately began to play, in the attitude in which our artist has caught them. What they played is not known; but it is immaterial, as Miss Bremner’s interpretation was perfect, and left nothing—not even an accompaniment—to be desired.

“Accompanists,” said Miss Bremner, with a reminiscent smile, “are foolish adornments to good musical performances.”

There was an agonised discord from the piano, and a whimpering grunt from the harmonium.

“You know the sort of message you occasionally get from your husband—something like this: ‘I shall be home early to-night, unless unforeseen circumstances . . . ?’ Well, accompanists are unforeseen circumstances. Any singer could tell a friend, before going on the stage, I

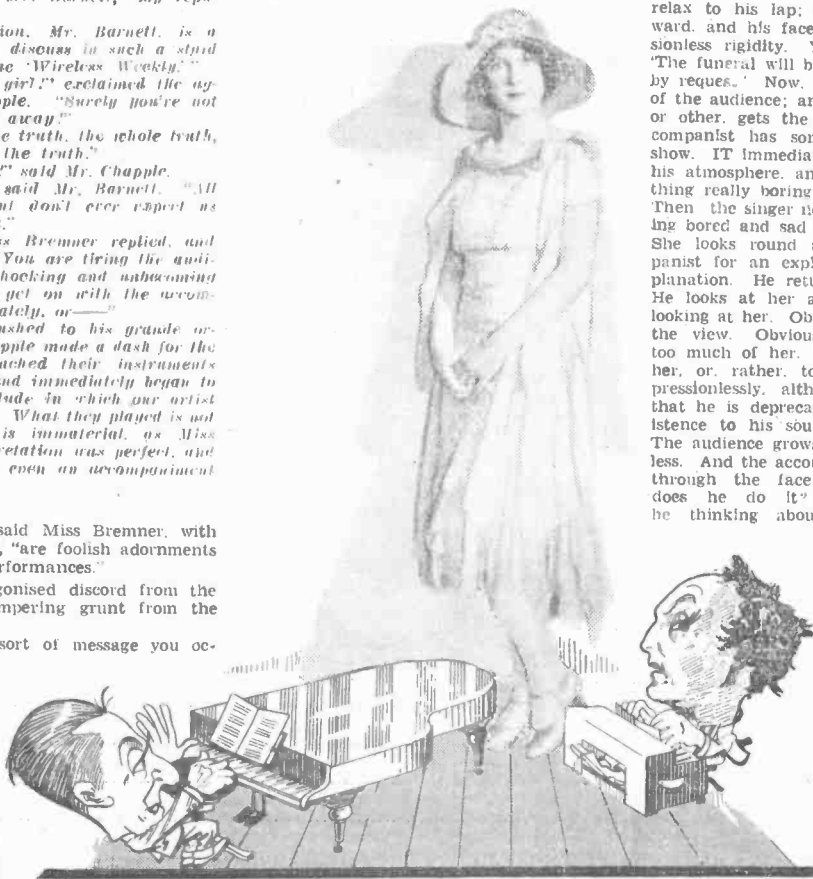
shall sing well to-night, unless unforeseen circumstances . . . !” Whenever I think of accompanists, I think of them like that.

“Of course I suppose accompanists are really intelligent people—in other walks of life; but accompanists, as accompanists, are quite out of place. Does that sound too Irish? No? Well, Mr. Ewart Chapple, for instance, I think he’d make SUCH a wonderful butler—so stiff and stern and melancholy. No. Perhaps Mr. Barnett would make a better butler. He has the air. Besides, when he is in evening dress—oh, he’s WONDERFUL! Mr. Chapple might make a success as a Spring Poet—he has that YEARNING sort of look in his eyes, you know; and in the other seasons of the year he could be an undertaker’s assistant at leading funerals. Please remember, I don’t want to be PERSONAL in what I say; but if I say just what I think about accompanists, they can’t blame me, can they?”

“You see, if concert managers were to go round the streets looking for the most melancholy and dyspeptic men in Sydney, they would be sure to find accompanists. I heard of an Accompanists’ Club in a big European city. It was opened for just one day and night. The next morning every member was found dead in circumstances suggestive of suicide. Anyone who has had any experience of the type will believe this. You are followed on the platform by a man with a face as long as from here to there, and a sad, suffering look in his eyes. With a tired movement he places his music on the rack, and turns over a page or two wearily. He runs his finger down the middle of the page, to flatten it out, frowns at it, glances behind himself, and sniffs twice. Then he takes out a handkerchief, runs it over his forehead, looks at it, shakes his head, and restores it to his pocket. Then his eyes stiffen in their sockets; his hands relax to his lap; his shoulders come forward, and his face stares ahead in expressionless rigidity. You feel inclined to say, ‘The funeral will be next week. No flowers, by request.’ Now, all this happens in front of the audience; and the audience, somehow or other, gets the impression that the accompanist has something to do with the show. IT immediately becomes pervaded by his atmosphere, and settles down to something really boring and sad and impressive. Then the singer notices the audience looking bored and sad and tired and sorrowful. She looks round anxiously to the accompanist for an explanation. HE is the explanation. He returns her glance dolefully. He looks at her as though he is tired of looking at her. Obviously, he doesn’t admire the view. Obviously, he’s seen altogether too much of her. He continues to gaze at her, or rather, to look through her, expressionlessly, although one might gather that he is deprecating the fact of her existence to his soul. The moments go by. The audience grows more and more breathless. And the accompanist continues to gaze through the face of the singer. Why does he do it? What on earth is he thinking about?

Has he forgotten how to play? Or—one thrills at the thought—is he really DEAD? Then one remembers.

“He is waiting for your sign to begin. You make that sign. Slowly, with his eyes still on the singer, he raises his hands to the keyboard. He touches a note. It reverberates through the building, and the brain of the singer like a pistol shot. The accompanist looks surprisedly at the keyboard,



then puts his head on one side and reviews his music. With infinite dignity, he plays another note, wiggles about in his seat, grows calm, and plays some more. His face becomes grave; his expression menacing—he hammers through the opening bars, and then, at last, the singer takes the mournful business out of his hands.

"Such is my impression of accompanists. You wouldn't understand it—you haven't sung with them. You see, it isn't exactly WHAT they do. It's HOW they do it. Imagine what it would be like to sing with a dead prawn as accompanist. Well, to the singer, there is no difference. They DEADEN one; they use some kind of strange mesmerism to prevent a singer remembering her words. If the singer makes a mistake, the accompanist is sure to show her up by THUMPING the correct note; but if an accompanist makes a mistake people just won't believe it. He never looks that kind of man. If a song falls to stir the audience, it isn't the accompanist who's blamed—but the artist. She can't explain to the critics that the accompanist's tie was absolutely impossible; or that it was his general air of dejection which made her so sad when she sang the "Pipes of Pan." She can't tell the public that the man's air of aloofness from the whole proceedings offended her artistic sensibilities.

"But you must remember there are two kinds of accompanist. The one is the Inevitably Correct Accompanist. The other is the Inevitably Incorrect Accompanist. Up to now, I have been speaking only of the Inevitably Correct Accompanist. His correctness never fails. He takes exasperating care with his minims and crotchets. He plays a wrong note once in twenty years, and, when he does, it seems quite the right thing to do, under the circumstances. It isn't praiseworthy—it's inhuman. I have often wished I could walk across the stage and stick pins in such people, just to see what would happen. I have restrained such impulses.

"But the Inevitably Incorrect Accompanist is worse. He plays the right notes when he can, and fills up intervals with chords of his own composition. When he strikes notes that really sound wrong, he blushes and hammers furiously, just to show that his first mistake wasn't nearly as bad as what he CAN do. He is much more exasperating than the Inevitably Correct Accompanist, because he thinks he is entitled to all the aloofness and disinterestedness of the Inevitably Correct Accompanist; and while one doesn't mind being looked down upon by Saint Peter, it is rather annoying to be patronised by Saint Nicholas. This is the type of accompanist which tells you before a performance, 'Oh, yes; I know that—there's no need to rehearse it with me'; and, which afterwards boggles—do you think they will mind me saying 'boggles?'—the whole performance. This type abounds in the suburbs and the country districts. It glares at its music through heavy glasses, as if feels round for the next chord; and, although it may seem very nervous on the stage, it becomes blatantly important in the wings and waiting-rooms.

"So you see what singers have to put up with. Either their accompanists are so good that they unnerve them, or they are so bad that they hammer them down.

"Therefore, I can't understand why Mr. Barnett and Mr. Chapple can have the impertinence to talk so harshly of singers. They say that vanity is the chief ingredient of Artistic Temperament. So I suppose they must be forgiven for such a display for that very reason. It certainly doesn't reflect much credit on two men who should be given credit for passable intelligences. The 'Wireless Weekly' should have known that such men are liable to temperamental outbursts; and it would have been much kinder not to report their ramblings."

The harmonium gave a despairing wheeze, and petered out. Two minor chords, pianissimo, emerged dully from the piano. Then the piano, also, was silent. Miss Bremner

continued in one fine sweeping cadenza—

"However, no one will notice them. They are the black crows of music. They sit at their little pianos and organs, and peck, peck, peck at the melody, until nothing is left to do but to caw, caw, caw after the piece de resistance has been supplied by the singer. If there weren't any singers there wouldn't be any accompanists—you don't think they could live on flautists and violinists, surely! Moreover, if Mr. Barnett managed to frighten a soubrette into singing the wrong song, that's nothing for him to crow about; and if Mr. Chapple sees anything funny in a man playing under the influence of spirituous and fermented liquors, he ought to be ashamed of himself. So there!"

On this prolonged feminine note, Miss Bremner completed her solo. The piano emitted a few faltering notes, and then the tangled arpeggios leapt skywards, shivered, and melted away. The harmonium gave one great burst from the lower register. And that was the end of that.

"So there!" said Miss Bremner, once again.

Mr. Chapple looked at Mr. Barnett. Mr. Barnett looked at Mr. Chapple.

"Madam," said Mr. Barnett bravely, "I fail to see—"

"It was most indiscreet of you, Miss Bremner," said Mr. Chapple. "I don't understand why—"

Miss Bremner remained silent.

Mr. Barnett gained courage. "What I want to know is, what do you mean by—"

"Yes!" exclaimed Mr. Chapple. "What have you to say—"

"Only that I was very pleased with your accompaniments, gentlemen," answered Miss Bremner demurely. "As accompanists, you are remarkably restrained, and show an admirable sense of proportion. Thank you very much."

"Well, I'll be hanged!" said Mr. Chapple and Mr. Barnett in one breath.

"Surely, gentlemen," said Miss Bremner, "you anticipate."

Licenses Increase in South Australia

FIGURES tell, and, indeed, nothing more indicative of the popularity of 5CL's broadcasting could be found than the latest figures to be made available of the total of wireless licenses. In the ratio of licenses per hundred, South Australia has now reached 4.01, which is the second highest in Australia, Victoria leading with 8.17, which is also an increase. For the month of April licenses increased in South Australia by 244, to the total of 23,108, and the "Croweater" State is now steadily overhauling the Queensland total of 24,627.

Unfortunately, broadcasting, like all other entertainments and amusements in South Australia, is suffering severely from the effects of the reigning financial depression. A glance at the official statement of license figures for the past three months, discloses the fact that on an average 498 new licenses were issued each month, but cancellations each month averaged 271, so that the average increase per month was about 224. In nearly every case the reason given for the cancellation of the license was unemployment, or the financial depression, so it can reasonably be stated that, times being normal, the increase in licenses in this State would be doubled.

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 programmes during the week. The following artists are participating:—

- Charles Lawrence—Entertainer—17th June, 2BL
- Sydney Calland—Baritone—17th June, 2BL
- Albert Cazabon—Violinist—17th June, 2FC
- Radio Male Quartet—17th June—2FC
- Dagmar Roberts—Pianist—17th June, 2FC
- Peggy Dunbar—Contralto—17th June, 2FC
- Studio Orchestra—17th June, 2FC
- Ambrose Bourke—Baritone—18th June, 2FC
- Burwood Band—18th June, 2FC
- Theodore Atkinson—Baritone—19th June, 2BL
- Graham and Manning—Entertainers—19th June, 2BL
- Classical programme—Lionel Lawson and Gladstone Bell—19th June, 2FC

- Tom Williams—Violinist—20th June, 2FC
- Alexander Sverjensky—Pianist—20th June, 2FC
- Eileen Boyd—Contralto—20th June, 2FC
- Eleanor Ross—Short Stories—20th June, 2FC
- Vincent Aspey—Violinist—20th June, 2BL
- David Craven—Baritone—20th June, 2BL
- Concord Citizens Band—20th June, 2BL
- Frank Ryan—Entertainer—20th June, 2BL
- Mr. Optimist and Mr. Pessimist—21st June, 2BL
- Phil Smith, comedian—21st June, 2BL
- Wentling and Molloy—22nd 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.

NAME

ADDRESS

I would like

to do

on the evening of

The Modern

DYNAMIC SPEAKER

By RAY ALLSOP

THE idea underlying the principle of the so-called dynamic reproducer is old. It was discovered and demonstrated as far back as 1820, by Ampere, the great experimenter, after whom the unit of electric current has been named.

Simply stated it means that when a current-carrying conductor or wire is placed in a magnetic field, there will be mechanical forces developed between the wire and the magnet. The wire may be a coil of wire and the magnet may be an ordinary bar magnet. This would make a rough motor or unit for a cone speaker and would be a true electro-dynamically operated reproducer.

Of course it would be crude and would not have power enough to give good reproduction.

The modern "dynamic" speaker has an electromagnet because a sufficiently strong field cannot economically be supplied by permanent magnets.

The field magnet has a round core and an iron head with a central circular opening which cleaves the cone, leaving a ring-shaped air gap between these two members, across which there is a strong radial magnetic field.

For the coil a cylindrical coil of wire varying in the number of turns from a few to perhaps a hundred, according to the design, is wound on a paper tube rigidly attached to the apex of the paper cone and which is located in the ring-shaped air gap mentioned above.

For high efficiency, the moving coil must as completely as possible fill the air gap without touching its sides, and this requirement calls for great precision in manufacture.

The moving coil and cone are maintained in position by flexible supports, located near the coil and at the edge of the cone, the latter support usually consisting of an edging of thin leather or soft fabric. This method of suspension permits free to and fro motion of the cone and at the same time maintaining the moving coil clear of the sides of the air gap.

From a consideration of the foregoing it will be seen that, if the field be excited by sending a direct current through its winding, and if current also be sent through the coil attached to the cone, the coil and cone will move. If this second current be an alternating audio frequency signal current, the movements of the coil will correspond in frequency and in amplitude to the variations in the signal current, the cone will be driven accordingly, and will radiate sound.

A rather crude and approximate explanation of baffle action follows. Suppose the cone to be executing, at a given instant, a forward movement. The air pressure immediately in front of the cone is increased, while the pressure immediately in the rear is decreased.

The compressed air in front tends to slip around the edge of the cone into the rarefied region in the rear, and, if it does this, the pressures become immediately equalised. No great sound results, because sound consists of pressure differences propagated through the air as waves; that is, the pressure wave must be driven off by the cone in order to produce sound.

Now suppose we add a baffle around the cone. The path from the front to the rear of the cone is now much longer than before, and, assuming the cone to move forward, the air cannot avoid the forward thrust of the cone by slipping around the edge because it encounters the baffle, and is, therefore, impelled forward as a sound wave.

The principal advantages of the electro-dynamic speaker, as compared with the moving iron type, are as follow:—

1. By proper construction and the use of a large baffle very low frequencies can be reproduced.

2. The impedance does not change greatly with the frequency. This simplifies the problem of getting sufficient power into the speaker over the whole frequency range.

3. It has, when carefully made, a high load capacity without serious distortion.

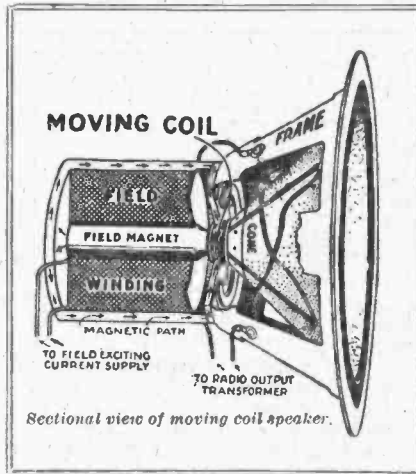
English as She is Spoken and Broken

(CONTINUED FROM PAGE 3.)

realised to its full, Uncle Carac-tacus, although the whole family was very fond of him, became rather a source of annoyance; but the fact remains that not one of us ever heard him make a mistake, although we were always on the "listen-out."

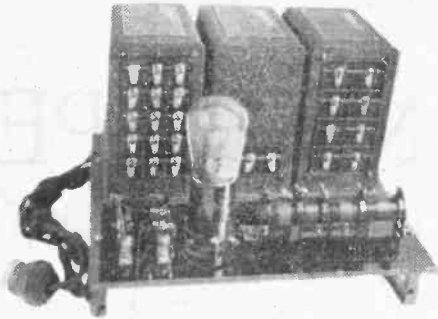
But, coming back to things American; are not the short cuts the average American takes rather attractive? He is not the slave of correct, standardised English—why should he be? Why shouldn't he have a characteristic brogue, dialect, call it what you will? The Australian is a part-owner of the finest country in the world, the only difference being that he does not advertise the fact—more is the pity; he thinks the fact is taken for granted. However, here, again, why shouldn't he have an accent common to himself—call it Cockney or what you will. The craze for standardisation is in the air; where will it end?

Some years ago in the Old Country the prevailing fashion was standard bread; in those days it was proposed to standardise what you put in your mouth; now it is proposed to standardise what comes out.





The "Mayolian" "B" Eliminator.



The Pilot A.B.O. Power Pack.



Marconi Phono "B" Eliminator.

By DON B.

ANALYSING the

With Hints on How to Apply the House

We have on numerous occasions introduced the "B" Eliminator to our readers, who must be well acquainted with this useful unit. In this article, however, we examine its qualities minutely.

IT is only natural that in Australia we should be just a step behind the great continents of Europe and America in actually applying new radio ideas, because of our geographical position. An idea developed in some great laboratory in America or the Continent is rapidly applied to daily use with the public in that part of the world; while, as a rule, we are many months later in putting it into practice.

All of which goes to point out how much later we have been after the rest of the world in applying the house power system to radio reception to entirely supplant all batteries. AC valves have been in our hands for quite a long time, yet the popularity of the "All-Electric" receiver making use of these valves has only just been achieved in Australia.

Their application was well known, technical journals from the other ends of the earth broadcast their virtues and disadvantages, but most radio authorities in Australia lay low. They were not satisfied until they had overcome a few outstanding difficulties, and now, at the recent Radio Exhibition, what did we see? ALL-ELECTRIC receivers everywhere, and every one of them a receiver which works well and does all that is claimed for it.

USES UNREALISED.

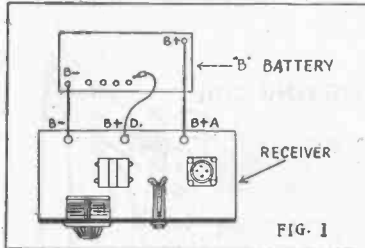
The writer has a feeling that not enough has been said through the pages of this journal on the subject of the B Eliminator, that not enough of them are in use, and that if many who seem afraid of them understood their action, more work would be done among the home constructor class with All Electric sets using AC valves.

Let us consider the main reason why the B Eliminator was evolved and pressed into every day service as a device to supply the plate power for the valves in the receiver. To discuss this reason we must revert for a moment or two to the B battery which was the prime mover in this plate supply business until recently. A distinct contrast has arisen between valves and B batteries during the last three years.

VALVES.

Valves have made their appearance on the market with greatly reduced filament current consumption, but at the same time there has been a tremendous increase on the demands from the B battery as the design of

receivers has progressed in a steady march of advancement. The modern moving coil type of loud-speaker is generally recognised as one of the very best means for high quality reproduction, but it so happens that unfortunately the plate current con-



sumption of the receiver becomes far too high to be taken for long from any but the largest of high capacity dry cells.

REQUISITE POWER.

It does not matter if quite an ordinary type of loud speaker is used, and only a minority are as yet using the dynamic types; better reproduction may always be obtained with a valve of the super-power type in the last socket as any loud-speaker will only do full justice to the lower tones if the requisite amount of power is fed into it. It requires more energy to reproduce these lower tones than the higher, as I have mentioned before, and so we are again faced with the problem of a heavy drain from the B battery, as the valves necessary to give the output need quite a lot of plate current.

From this it may be taken generally, that it seems a waste of time to buy an expensive high class reproducer if one has not the wherewithal to supply it in the form of a high voltage with an adequate reserve of current.

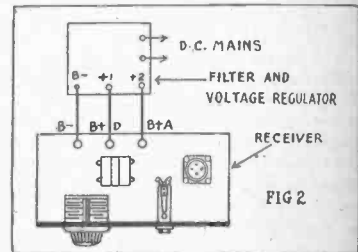
BATTERIES.

It may, of course, be supplied by the heavy duty type of B batteries for a reasonable period, but the radio user who sticks to batteries will be well advised to obtain only the highest capacity types of a reputable make. The modern super-power valve may

be fed with a good reserve by such batteries, but if cheaper and smaller batteries are used, they will want constant replacement, and the user will suffer from a whole host of reception troubles, not the least of which is "battery static." A thoroughly good source of plate supplies lies in the accumulator or "wet" B battery, and is one of the most reliable methods provided that the user has facility for charging, and does not run his set under the impression that the battery will hold out as long as the dry type without recharging. It is a good plan whenever the set is switched off to religiously put the charger on to accumulator "B's" and thus avoid annoyance at a later date.

LECLANCHE CELL

The next form of plate supply on the list is the Leclanche or primary cell type. These are very useful for the country user who has no power available and is therefore unable to



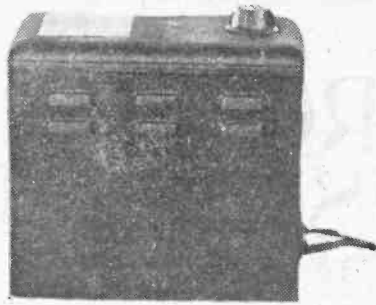
charge his accumulators. Country readers of this article may be interested to know that the Amplion Carboncel "B" type will meet their demands, being good for a year's use at one charge. These particular cells are an advance on the ordinary leclanche type, having a much higher capacity with consequently good recuperative powers.

SOCKET-POWER.

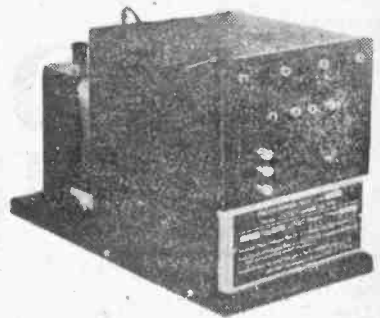
The next and final source of reliable supply is what is known in England as a "mains unit," and in Australia and America a "B Eliminator," or "socket-power unit." This form of plate supply takes the current from the house mains and feeds the receiver with a smooth, pure Direct Current of the voltage we require. The idea of this article is to explain to the home constructor just what



The Ampico "B" Eliminator.



The Emmco Mazum "B" Eliminator.



The Philips PPP Power Pack.

KNOCK.

"B" ELIMINATOR

Power with Safety and Efficiency

The theory which lies behind the application of the "B" Eliminator is dealt with here.

In addition there are hints on the more efficient use of the house current.

the B Eliminator is and how it works, with an indication of what can be done in providing one's own supply from the alternating current mains, and last, but not least, the risks one may take in experimenting without the essential knowledge.

USUAL METHOD.

In Figure 1 is seen the usual method we employ for connecting B batteries to the receiver, and in Figure 2 the application of Direct Current mains in place of the B batteries. Some readers may be under the impression that D.C. mains require no attention other than to connect them straight through a voltage regulator to the set. Before the D.C. mains can be used they must be passed through a filtering or smoothing unit as well as the regulator, otherwise the reception will be marred by a high pitched hum.

PURE D.C.

Although we speak of the D.C. mains as "D.C." the output is only satisfactory for home lighting and heating, and is not the pure direct current we need for use with a wireless receiver. A voltage regulator is simply a device which reduces the voltage from the mains to the value or values we need for the set.

In Figure 3 we see the arrangement necessary when the Alternating Current mains are used. The filter and voltage regulator are still there, but in addition there is in-

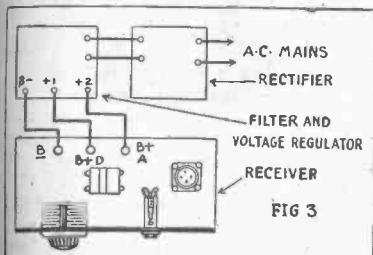


FIG 3

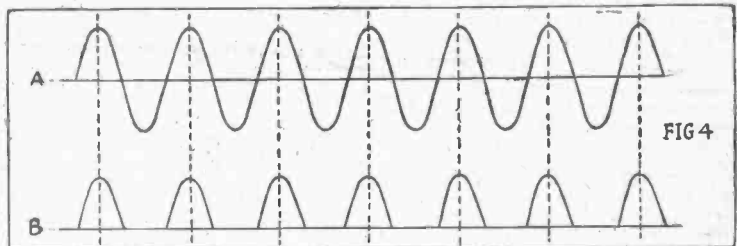


FIG 4

cluded between these and the AC mains, a rectifier unit. The alternating current must first be rectified before we can do anything with it in the nature of a plate supply, but at the correct voltage it is used as alternating current for the heaters of the new AC valves. This aspect of the use of AC for valve filaments will be dealt with in following constructional articles on All Electric sets.

RECTIFIER.

The rectifier changes the Alternating Current to pulsating Direct Current; but in this form it is equally as unsuitable as the DC mains without any filter, so that we must treat it in the same way, and pass it through a filter and voltage regulator. Actually the only difference between a mains unit designed for operation from DC and AC mains is that the latter needs in addition to the smoothing and regulating device, some means of rectifying the alternations.

Figure 4 gives diagrammatical indication of what happens when we rectify alternating current. In (A) the alternating current as delivered from the power point is illustrated. When it is rectified as in (B), we have instead of a current which changes its direction, a current which reverses the negative and rises and falls on the positive side only.

PULSATING.

In this state although rectified, it is still pulsating and the function of the filter and

regulator is to smooth out these remaining pulsations into one steady current.

The only way to do this is to provide a properly designed filter which more often than not is sadly neglected in the case of the home constructor who makes up his own B Eliminator. On an average they find that they get a continuous hum in the receiver. The hum may be constantly annoying or may be only faintly present when the station being listened to is silent in between announcements.

HUM NOW ELIMINATED.

Not long ago, practically every B Eliminator gave out a slight hum, but the Commercial Manufacturer has paid far more attention to the design of the filtering system, with the result that the only hum heard is either from the power transformer itself, or in the case of a poorly designed receiver where resonance is pronounced owing to harmonic relation of the receiver circuits with the power transformer windings.

Owing to limited space, this article will be concluded next week, when details of power transformers, winding, and operation, an explanation of half-wave and full-wave rectification, and notes of provisions for safety in handling the house current will be given.

It's
Women's
Week
for
"Wireless
Weekly"

PROGRAMME PERSONALITIES

Miss Bremner
on Page 5,
Miss Starkey
and Miss
Thomson
Below.

Miss Dulcie Starkey

MISS DULCIE STARKEY claims no relation to the family which put the bubbles in beer. "No connection with any other firm," she says. "In fact, I wouldn't have anything at all to do with beer!" Cautiously, as they with small incomes and good palates must, we congratulate Miss Starkey on her excellent taste and discretion.

Miss Starkey has been in the habit of singing languishing songs from 2BL for some years. You know the sort of song—all about Death and the Maiden, and that sort of thing—generally written by Schubert or some other interesting personality unfortunately enough to be labelled a "classic." It must be frightful to be labelled a "Classic." It sounds like ancient history lessons on a bright, surfing morning. Anyhow, strictly speaking, Schubert wasn't a classic; we have it on the best authority that he was a Roman Tick, although this doesn't seem quite what we should expect a composer to be at all; although, as we said before, Mr. Schubert wrote several interestingly languishing melodies, of which Miss Starkey occasionally sings one or two, thus proving that the gentleman in question wasn't a Roman Tick for nothing.

But, although she sings languishing melodies, Miss Starkey is anything but languishing. You wouldn't call a canary languishing, and Miss Starkey reminds us of a chirruping canary, hopping about in perpetual sunlight. We hope Miss Starkey won't mind being compared to a canary;

and if only we had known of these functions at the proper time there is no doubt we should have been there. There is the tragedy of life all over—we didn't know.

Not only has Miss Starkey been demonstrator for several lectures by Mr. Livingstone Mote—she has won first prizes for duet and solo singing, and several championship events in Elsteddfods. Among these is included the Manly soprano championship.

In her spare time, when she is not attending to her duties as personal clerk to the Chief Secretary of the State of New South Wales—there's a thrill for you!—Miss Starkey plays hockey. "I have been playing hockey for a few years," says Miss Starkey, "exercising my lower limbs in the position of Left Wing," which certainly does seem very intricate. "If you know anything about Soccer," she says, "you might have an idea of what that means." So hockey is evidently a game of some sort, but if Miss Starkey thinks the staff of the "Wireless Weekly" has time to spare for Soccer she under-estimates its capacity and the scope of its interests. It has no time for table games, preferring to spend its evenings listening to Miss Starkey.

Miss Starkey has also broadcast from 5CL, Adelaide, and we believe that her travels once took her as far afield as South Australia.

Miss Dagmar Thomson

ANOTHER of the impatient ones is Miss Dagmar Thomson, a fiddler of attainments, who is often heard from 2FC these days. Miss Thomson is a Sydneyite, who learned a good deal here and then went over the sea to Brussels, a town in Belgium, where they keep carpets and Eugene Ysaye. Don't make any mistake about Eugene—he is neither a spelling B nor an announcing test. He is a very great master of violin technique, who gives lessons to choice, wholesome, and promising pupils. "One of the greatest," says Miss Thomson. "Please don't say 'A great virtuoso,' but 'THE great virtuoso.'"

Miss Thomson studied with M. Ysaye for some time, and then went to London, where she gave several concerts. Several times she was approached by the Broadcasting Company in London, with pleasant phrases and polite requests to be allowed to broadcast her, but her agents said, "Don't you have anything to do with the wicked B.B.C., because we don't like it"; so Miss Thomson

did not broadcast in London. This was about four years ago. "The agents, at that time, were rather afraid of the broadcasting companies," said Miss Thomson. "They feared, with some justification, that broadcasting might reduce concert attendances. Recently, I believe, they have become more lenient, realising that the new conditions brought about by the development of radio must, in some manner, be conformed with."

Miss Thomson is now at the Sydney Conservatorium, and is well known for her energy in organising musical undertakings. Not long ago, she was chosen to organise the Mosman Music Club, which is flourishing like the flowers that bloom in the spring, tra-la. "People came along at first to enjoy a kind of social evening," said Miss Thomson; "but, by degrees, they have come to like good music, and to look forward to it."

And Miss Thomson is very interested in the New South Wales Broadcasting Company's classical programmes. In them she sees the beginning of the future musical education of Australians. "I should like to make a special point of this," she says. "Some people think that Australians have no real appreciation for good music, and say that this is proved by the fact that very few people write in to the company about its classical programmes. I believe it is quite true that not many people WRITE about them, but many of my acquaintances, who have no more than the average interest in musical matters, have remarked on the ex-



but, anyhow, getting the bird (a theatrical expression, dear friends—a theatrical expression!) will be quite a new experience for her.

Perhaps it is time we said that Miss Starkey is a soprano. In connection with W.E.A. classes, whatever they may be, she has given demonstrations of certain types of song at the following well-known and fashionable watering places, Newcastle Bulli, and Ashfield. The lecturer on these occasions was Mr. Livingstone Mote, M.A.,



New A. C. Set

Every listener can build the new Marco 4 designed for use with A.C. mains. Costing no more than an ordinary set, the New Marco is sure to be a "winner" with "Wireless Weekly" readers.

See next week's issue.

cellence of the Wednesday evening programmes. Moreover, I think that the people who are likely to appreciate such programmes would not trouble to write to the company."

Which sounds reasonable, but is hardly an expression of faith in the gratitude of our intelligentsia.

In the Air and On the Air

Lady of Light

IN the "Lady of Light" competition, conducted at the Radio and Electrical Exhibition, 1929, recently held at the Town Hall, by the Australian General Electric Company, the following were the winners:—
First Prize: Master L. A. Bayley, 20 Gordon Avenue, Coogee.

Second Prize: Master Roy S. Merton, 100 Station Street, Arncliffe.

Third Prize: Miss Alice Sangster, Farm 1012, Hanwood, via Griffith, N.S.W.

New Artists

JACK KINSON, well remembered by 2BL listeners, who was among the finalists in the recent Radio Elsteddfod, is back again after a short holiday, and, to use his own words, "in fine form." His appearance at 2BL on the evening of June 7 will be welcomed by the many with whom he is a firm favorite.

EDITH COWLEY and **Ian Maxwell**, popular entertainers, who started off to Adelaide some months ago, have, fortunately for listeners to 2FC, returned to Sydney sooner than they expected. They will be on the air on Friday, June 7.

JOHN BENJAMIN, who always contributes very helpfully to the studio productions under the direction of Madame Emily Marks and Harry Sherlock, is appearing at 2BL on Sunday, June 9.

THE Instrumental Ensemble, under the direction of Alexander Sverjensky, which is appearing at 2BL on the evening of June 9, comprises, perhaps, the most talented group of musicians now in Sydney. Mr. Sverjensky himself is foremost among our pianists. M. Podinovski and M. Beresnakoff (1st and 2nd violins) have been associated with the leading orchestras of the world; Louis Blitz, professor at the N.S.W. Conservatorium, is one of the few solo double bass players. Jules Van der Klei (cellist) already has a big following on the air, and the work of Robert Wood (viola) is well known to Sydney concert-goers. The attractive programme, which is being prepared for Sunday, June 9, includes "Trout Quintet" (Schubert), "Piano Concerto" (Beethoven), "String Quartet" (Dvorak), and "Andante Cantabile" (Tschalkowsky).

ON Tuesday, June 11, the State Conservatorium Quartet is appearing at 2BL. This quartet consists of Gerald Walenn (violin), Lloyd Davies (violin), Alfred Hill (viola), and Gladstone Bell (cello). Some of the lesser known works broadcast by this combination have proved that Sydney listeners do appreciate the better class of music, and the items they are engaged on for June 11 will afford a very enjoyable 60 minutes to radio enthusiasts, whose taste leans towards the old masters.

"**PETER PAN**," Sir James Barrie's whimsical classic, is to be produced at 2FC studios on the evening of Monday, June 10, by Gertrude Boswell. She has gathered about her a number of clever children for her cast, and, to use Miss Boswell's own words, "my Wendy will delight your heart." The Studio Orchestra, under the direction of Mr. Horace Keats, will supply a suitable musical background.

Aviator Vocalist

CAPTAIN GUY MOORE, the popular Melbourne tenor, will be heard from 3LO on June 5, when his well-rendered numbers will be greatly appreciated by listeners. Captain Moore, who is well known in the concert world, has sung in connection with the Symphony Orchestra and the Royal Victorian Leidertafel, and has also been associated with Mr. Harry Dearth on several occasions. He was a prominent member of the A.I.F. concert party, and gave many concerts in Egypt, France, and Belgium. It will be remembered that he was a captain of a flying corps during the war, and he is the present secretary of the Aero Club.

Mineral Deficiency in Live Stock

THE talks given under the auspices of the Department of Agriculture are always of great interest to the thousands of farmers who listen and much useful information will be broadcast by R. J. de C. Talbot, veterinary officer, who will speak on June 5 on "Mineral Deficiency in Livestock." The various channels by which this deficiency may be remedied will be discussed, together with the composition of various lime preparations and salt licks.

NEW WIRELESS LICENSES

When it comes to increases in new licenses. New South Wales has a big lead on the other States. From September, 1928, to April, 1929, N.S.W. gained a net increase of 11,673 licenses—75 per cent. of the total increase in the Commonwealth.

The figures are as follow:—

	Increase.
New South Wales	11,673
Victoria	2,149
South Australia	2,008
Tasmania	984
	Decrease.
West Australia	69
Queensland	1,101
Commonwealth Increase ..	15,644

"Gipsy Love"

IN response to many requests, the studio performance of the popular musical play, "Gipsy Love," will be given from 3AR on June 3. As in the previous production the principal parts will be sustained by Messrs. John D. Sullivan, W. and A. Bosence, and Mile. Saffo Arnov. A well-balanced chorus will give artistic support, and the whole production will be under the direction of William G. James.

"Fun on a Sheep Station"

SO successful was the lasting "Shearing Hut" programme provided by Captain Donald MacLean and his colleagues that a similar entertainment will be given from 3AR on May 5. The title chosen is "Fun on a Sheep Station," and the items have been chosen in order that the atmosphere may be kept, as far as possible, true to life. Violin and mouth organ selections will form part of the programme, rousing choruses will be sung by the company, and tales depicting the hale and hearty life of the men who live on the sheep stations will be told.

State Theatre Orchestra to be Broadcast

THE first transmission from this magnificent new theatre, which will shortly open, has been set down for Sunday night, June 2, from 8.30 to 10.15 p.m., and items will include organ recital by Mr. Price Dunlavy (U.S.A.) on the new Wurlitzer, the largest of its kind in the world, songs by Ernest Mackinlay, New Zealand tenor, and items by Elise Steele, violiniste. Both of these artists have had distinguished records abroad, and have returned to Sydney for a short season.

On Tuesday night, June 4, from 8.30 to 9.30, items will be broadcast for the first time by the State Theatre orchestra of about forty performers, under the baton of Will Prior, who has returned to Australia for the occasion. A short description of the new theatre will be interspersed between the items of the orchestra.

On Friday night, June 7, will be broadcast the official grand opening of the State Theatre by the Hon. E. A. Buttenshaw, M.L.A., Acting Premier of New South Wales, in the presence of His Excellency, the Governor-General and Lady Stonehaven. Other items broadcast will include the State Theatre orchestra under the baton of Will Prior, Price Dunlavy at the Wurlitzer organ, and the State Theatre presentation.

The King's Birthday

TO commemorate the King's Birthday, a talk will be given from 3LO on June 2 by Mr. Howlett Ross, who will give a brief outline of the life of His Majesty the King. The circumstances of the late war have made King George an arresting figure in the history of the present time, and Mr. Howlett Ross will have much to say of His Majesty's early life in the Navy, and his activities during the war. Apart from this, stories will be told of the lighter and unofficial side of his life, depicting his prowess with the gun, for it is a well-known fact that His Majesty is one of the finest shots in the world, and, as a young man, even among the crack shots at Bisley, his skill with the gun was one of the features of the meeting.

The Pacific Native

A TALK of interest to students of political economy will be given from 3LO on June 4, when, under the auspices of the University Extension Board, Mr. N. D. Harper, B.A., tutor in History at the University, will speak on "The Problem of the Pacific Native." All those with the policy of a "White Australia" at heart should not fail to listen to this most instructive address.

English Basso Cantante

THOUGH it is but a few months since Herold Kyng the English basso cantante, made his first Australian appearance with the Melbourne Philharmonic Society in "Elijah," he has established himself as a great favorite both with his radio audiences and the concert public. Mr. Kyng is a past graduate of the Royal College of Music, London, and holds the Diplomee Superieur of Paris. While a fulfilling a lengthy engagement at the Opera House, Covent Garden, Mr. Kyng appeared with the world-famous artists, Chaliapin and Borgioli. He is by no means a stranger to the microphone, has frequently sung from 2LO, London, and with many Bristol and several Scottish stations, so is quite at home in the Melbourne studio.

Wireless Weekly

Incorporating "Radio in Australia and New Zealand."

FRIDAY, MAY 31, 1929.

THE "OLD MAN OF THE SEA"

THE question of copyright has always been a vexed one for the broadcasting companies. From the beginning, copyright owners have exercised their powers in almost every possible instance; and, although in very few cases has permission to transmit certain items been refused, the fees have in many cases proved prohibitive in the eyes of the broadcast companies.

A musician giving a public performance, or in the case of an opera season, the entrepreneur does not always object to paying a fee, for he does not play more than a few numbers. But to a broadcast company transmitting many thousands of items a year the cost is a considerable one.

Here are some figures: Under present conditions about 2/8 copyright charge is absorbed from every £1 in license fees received by the broadcasting station. This is equal to about 4/- on every item broadcast.

The charge of £2/2- for certain items made by some copyright has with the present company led to the decision that certain of these items will not be broadcast; they have, in fact, prohibited all their artists from including them in their broadcasting repertoires. Thus there are certain items that listeners may not hear under the present administration.

What will the position be under the new conditions? Certainly no better, for only 12/- will be available from each license to the proposed successful tenderers, out of which to pay copyright fees. One of the very difficult and unrealised problems of the tenderers is the rendering of a service as good as the present one, with 25 per cent. of the money received going into the hands of the holders of copyright, after it has been carefully collected by the Government.

It will be interesting to see what kind of programmes the proposed successful tenderers can produce with their hands thus tied.

It is fairly evident that the revenue available will absolutely determine the quality of the entertainment and "copyright" is the "Old Man of the Sea."

A LETTER ON COPYRIGHT

The Editor,
Messrs. Wireless Newspapers, Ltd.,
51 Castlereagh Street,
Sydney.

Dear Sir, On page nine of your issue of May 17, under "Performances We May Not Hear," you give a list of grand operas, and state that none of the vocal items from same can be broadcast, as the owners of copyright will not give permission. This statement is incorrect, and not according to fact.

We are the representatives and attorneys for Messrs. G. Ricordi and Co., London, who own and control 90 per cent. of the operas mentioned in your list, and never at any time has permission been refused to anyone to broadcast any of their vocal arias, provided royalty charges are paid and conditions are complied with. As a matter of fact, broadcasting stations at regular intervals apply to us for permission, which we grant, and collect fees on behalf of Messrs. G. Ricordi and Co.

We shall be pleased if you will publish this letter in the same prominence as the article referred to.

Yours faithfully,
R. NATHAN,

Manager for NICHOLSON AND CO. LTD.

The article referred to above was taken from information supplied by the N.S.W. Broadcasting Company, Limited. The sense of the company's statement was "none of the vocal items . . . WILL be broadcast," justifying our remark that certain items may not be heard by listeners. In fairness it should be said that our article did not state "that none of the vocal items from same CAN be broadcasted."

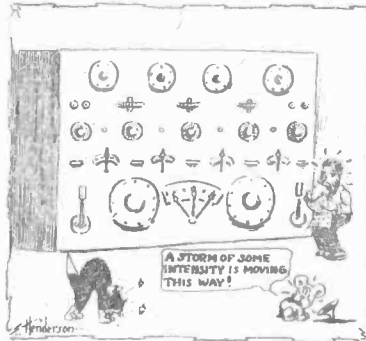
The reason why "none of the vocal items WILL be broadcast" may become apparent from the following example: That *Musetta's Songs*, from *La Boheme* (whose publisher is

Ricordi and Co., for whom Messrs. Nicholson and Company, Limited, are the representatives and attorneys), costs £2/2- in copyright fees alone every time it is broadcast. The song takes one and one-half minutes. Compared with an average of four shillings per item paid by the company on other copyright music, this surely impresses one as a prohibitive tariff.

While we are talking of copyright, it might be worth while to mention another instance. If an organist or pianist, broadcast either from the studio or from some place outside it, plays a *pol-pourri* of copyright airs, the company must pay a separate royalty on each copyright number. Thus, an item which lasts for about eight minutes, in which, say, fifteen separate melodies are suggested, is charged for at the rate of fifteen copyrights, at an average of four shillings a copyright. The company is thus forced to pay £3 for eight minutes' entertainment, excluding artistic fees. The legality of the Australian Performing Rights Association's monopoly is unquestioned here, but its operations can hardly be said to help broadcasting.

If a man with threepence wishes to buy a chocolate, which its maker will sell at threepence, but with an added £1 for every bite he takes, that man is surely justified in saying he is prohibited from eating the chocolate.

BUILDING A SET No. 3



According to the Specifications the Set He Wants to Build Will Look Like This.



As He Feels After Reading the List of Parts Needed For His New Set!



He Thought He Might Use the Parts in His Set On a New One.



As The Parts For His New Set Seem When He Gets Them He

The Safety Valve



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.

On 600 Metres

Dear Sir,—Here's a hit above the belt, seeing that hits below are not forthcoming. Got tired of logging the world on the "Go-Getter," so made up a 600 metre coil just to revive memories of bygone days. This is my bag:—Daylight: Hobart, Melbourne, Adelaide, Brisbane, Sydney Auckland. Night-time, as above, plus Perth, Geraldton, Suva. Townsville, Thursday Island, Rabaul, Choshi (Japan), KPH (Philippine Islands, I think?). Is anyone else interested in 600 metres, and if so are they doing any better?—Yours, etc.,
Dorrigo.

R. E. ABBOTT.

A Suggestion

Dear Sir,—What's all this controversy about the radio programmes of the different stations, about the flaws in the presentations from 2FC and 2BL. Surely the howlers who present their letters to the Safety Valve will wake up to themselves some time. I maintain, summing things up, that it is a waste of time for listeners to exhibit their views on the local services through these columns, so I suggest that the present available space be devoted to an Experimental Page—a subject embracing listeners' letters along experimental lines. I don't think that I've made myself too explicit on this point, so let us suppose you are a listener, and that in the course of your set-building career you have hit upon several little phenomena and incidents which are more or less interesting. Why not let the Safety Valve know about them? Perhaps you have discovered that "slap" and fading is not as prevalent in your own home area as it is with your friend, and neighbours up the street. Then again, some point may have struck you as to originality in set construction, or you may have received information from the S.W. as to a foreign station programme schedule, or any little changes made, so why not let the Safety Valve know all about it? It may be a wealth of information to the novice, or the solution to an absorbing problem for the enthusiast. In any case, it will be better reading matter than that of which we have been used to.

The letter submitted by N. E. Tifford in the issue of May 17 is the type that should only be presented in the Safety Valve, and is an example, and bears out the full meaning of, my remarks in the above. So let us see what can be done in the near future.

My next letter to the Safety Valve will deal with "Push Pull" amplification, or large scale amplification when applied to the "Browning Drake" or "Marco" receivers.—Yours, etc.,

Alexandra, Sydney.

MICROWATT.

(The Editor will be pleased to devote a page to letters on experimental subjects from listeners. It is not proposed, however, to cut off the Safety Valve at the present juncture.

The Bugler

Dear Sir,—Allow me space in your valuable "Wireless Weekly" re letter 17/5/29, of Interested Radio User of Lakemba, inquiring about the players of the "Last Post" and "Revellie" at the conclusion of the service at the opening, and laying the foundation-stone, of the War Memorial at Canberra.

That particular player was Mr. J. Watson, bandmaster of the Canberra City Band, and, like the inquirer, I listened to it, and came to the conclusion that Mr. Watson knows his work with a bugle or cornet.

Please find enclosed photo (published herewith.—Ed.) of Mr. Watson and Mr. Yates (drummer), snapped at the ceremony, and use as you may, trusting that the information will be what the interested reader requires.—Yours, etc.,
Canberra.



WATCHMAN.

Air King Indeed Royal

Dear Sir,—Just a few lines to say I have an "Air King" receiver completed, and have had it working for a week or so, and there is no doubt it is a great set. I have used several short-wave sets, and now have an "All Empire," but the "Air King" is the best so far.

I am using Radokes coils throughout, and have three broadcast coils as well. You said at the end of the description of the "Air King"—"and here is a set which is a real ruler of short waves." You could have added broadcast as well.

I am 300 miles from the nearest station, and about 600 from Melbourne, and I can get full loud-speaker strength all day from any A class station. Many thanks for details of such a machine.

Yours etc.,

T. A. EYERETT.

Guyra.

Challenged

Dear Sir,—So long have I listened to the rantings of cranks who are everlastingly harping on the subject of "fast" programmes on Sunday night, that here's into the fray. J. Redding (your issue 17/5/29) pertinently asks "who cares about musty old church services on Sunday?" Might I answer that question with another? Who cares about slushy, mushy tripe known as jazz on Sundays? Possibly J. Redding and his ilk may, but to the vast majority of even-balanced citizens of both city and country, six days a week is quite sufficient of that rubbish. If J. Redding desires to emulate the buck nigger stunt and "sidebottom" around his front verandah on Sunday nights, let him buy a gramophone and go his hardest.

My vocation as a journalist has taught me that first and foremost the press should be tolerant, educational, amusing, instructive, and tend to lift men and women, both old and young, along the higher planes in the walk of life. And what is wireless broadcasting? Is it not the latest, the most penetrating, and the most welcome addition to the great brotherhood of the press? As such does it not owe an equal duty to the individual, to the community, and to the nation? Substituting circus trash for church services on Sunday nights and thereby contaminating the minds of listeners when their thoughts should be better occupied will not achieve that end.

I enjoy all classes of broadcasting (I can even put up with jazz in its place), being privileged to hear all Australian and New Zealand stations—Perth excepted. To a hardened old singer like me there are two gems which appeal above all the rest—the community singing from 3AR on Friday nights, and the sweet singing of the little toddlers in their sacred concert from 2BL on Sunday evenings.

I agree with J. Redding when he says that it is time someone had the courage to speak his mind on this subject. Fortunately he cannot classify me in his cheap and sarcastic jibe as being caught in the "meshes of hypocritical sanctity." While I and the larger number of your readers, are tolerant enough to give your correspondent credit for his opinion, he must remember that there are thousands of others who likewise have equal right to consideration.—Yours, etc.,

A. R. M'LEOD.

Manilla.

Reliability

Dear Sir,—Will you please insert this letter in answer to "Another Country Listener," Hannam Vale, which appeared in "Wireless Weekly," 17th instant. He states that 2FC is always to be relied on for accuracy in their programme. I have tuned in to 2FC at 12.30 p.m. daily, and, according to the programme, we should get music, but the announcer reads on until 12.45 p.m. This is a daily occurrence, and there is no apology. I hope when the Government takes over the broadcasting stations they will keep to the programmes.—Yours, etc.,
Cremorne.

E.J.A.

Plug In

Simple, inexpensive, and easy to make is the New Marco 4, re-designed for use with A.C. Full details in next week's issue. Order your copy now.

SESSIONAL NEWS.

Miss Varley's Session

THE 2BL Women's Amateur Sports Association's annual meeting has been postponed from Wednesday, May 29, to the middle of June. The postponement is due to the constitution of the association, which it is proposed to alter. It is expected that the general committee will meet on Wednesday, June 5, when it will prepare recommendations to be placed before the annual meeting. This function will be held at David Jones' dining hall, and all members of the clubs, and their friends, are invited. The cost will be 1/6 each, and club secretaries are asked to send to Miss Varley, hon. sec. of the association, at 2BL, statements of the number going from each club.

The opening day of the 2BL Women's Sports Association's tennis competition was Tuesday, May 21. Twenty clubs competed, and everyone expressed satisfaction with the matches.

Mr. Norman's Session

LAST Saturday week Mr. Norman took a party of 250 boys over the Chrysler Assembly Plant, at Camperdown. The company had previously marked every machine in the works with a number, and when the boys arrived, they received typed specifications of every machine and its work. They now know all about the assembling of motor cars, from beginning to end.

A first prize of £1/1, and a second prize of 10/6 will be awarded by the Chrysler people for the best essay on the plant by their visitors. Age will be taken into consideration in the judging. Essays must reach Mr. Norman by May 31. Envelopes should be marked "Essay." Mr. Norman, c/o 2BL. Competitors must state their ages.

Mr. Norman's session is still progressing; so is his mail. The latest query was, "Can you tell me how to prepare a young bull for the show?" Mr. Norman delegated the answering to Uncle Bas, who knows about those things.

A model aeroplane, which will fly a quarter of a mile, is Mr. Norman's most interesting find. We shall probably publish diagrams of this next week.

Mr. Ferry's Sessions

NEXT Saturday, Mr. Ferry will describe the events of the meeting at Canterbury Park, where the rooster is expected to be in good form.

On Monday, June 3, Mr. Ferry will describe the events at Randwick. This is the opening day of the A.J.C. winter carnival, and some of the best known hurdle horses in New South Wales will be hopping.

Talks

(Times may be found in the programmes.)
TO-DAY, Friday, Mr. James Peddle will continue his series of talks on architecture from 2FC. Mr. S. H. Bowden will rhapsodise on "Amsterdam, the Northern Venice," on Monday, when more "True Tales of a Journalist" will be heard. On Tuesday "Bringa" will continue his thrilling story of aboriginal murders in the Hawkesbury and Sydney districts from 2BL, and Mr. Brunton Gibb will say, "Oh, by the way!" from 2FC. Mr. Kirke will speak from 2BL on Wednesday about "Japan and its People," and Mr. Claude Corbett on General Sporting from the same station. On Friday Captain Stevens will give an historical talk, and in the evening will interview "This Week's Personality" from 2BL.

Captain Stevens' Sessions

CAPTAIN STEVENS' talk on Saturday morning will be on "Lonely People." On Sunday he will read another "Woodbine Willie" sermon, which deals with the Industrial Revolution from a new angle. His morning readings, throughout the week, will be taken from "Like Shadows on the Wall," a very thrilling series of short stories.

New Jazz Numbers

DEC. MORRISON'S Dance Band will be broadcast from the Pavilion Cafe on Saturday night, during the staff dance of the "Daily Telegraph Pictorial." The following new numbers will be played:—"Don't Be Like That," "Dance of the Paper Dolls," a special arrangement of "A Precious Little Thing Called Love," "I Can't Give You Anything But Love," and a special arrangement of "My Mother's Eyes."

A little while ago Mr. Morrison introduced a novelty evening. By utilising several additional instruments—cello, violin, trombone, trumpet, and clarinet—he converted his band to play straight rhythmical arrangements of Il Trovatore, Tannhauser, The Desert Song, and Tchaikovsky's "Valse des Fleurs." At the end of each item the band made a quick change of instruments, and repeated these numbers in true jazz rhythm. The evening proved quite effective, and the novelty may be repeated.

The Booklovers' Corner

MISS GIBSON is in a quandary. She wants to know whether the public prefers short stories during her afternoon sessions or stories continuable in our next. Everyone is invited to write in to "The Booklovers' Corner," 2FC, Sydney, stating his or her opinion in the matter.

"The CAPTAIN" to HIS "COMRADIOS"

Coming Events

Saturday, June 1.—Australian University Champion Eighths 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 Sydneians' Dinner at Usher's.

Wednesday, August 7.—Old Sydneians' Dance at the Ambassadors.

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

Weight for Age

SOUNDS like a horserace item, but it really is in reference to a query from D.H. (Hunter's Hill), who says he is 15 years old and 5ft. 9in. in height. He weighs 9st. 7lb. and seems worried about it. What I think he means is that he thinks he ought to be heavier. Not at all. Quite normal for a boy who has grown so quickly. The average weight of a boy of 15 works out at 7st. 5lb. and a girl of that age actually more, 7st. 8lb. That is a British medical estimate after many thousands of tests were recorded. But even in Australia not many boys of 15 years have

(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.)

reached 5ft. 9in. By the way, comrades, when you write to me it is always useful to let me know your age, height, and weight.

Football Boots

I NEVER suggest new boots for football. Any new boot takes time to wear to the shape of the foot, and until it fits very comfortably it is a source of annoyance, and may even cause a bruised heel, which will keep you out of the game for days. Old boots are best, so long as the uppers are sound enough to take a stout sole. Take off enough layers from the heels so as to make sole and heel level. Use only one stop in the heel. Two are inclined to clog with turf, and at a critical moment you are likely to slip. I prefer nails to screws for tops. The nails hold better, as they are driven into the sole at different angles; whereas a screw often pulls straight out, especially when the leather is wet.

A Crippled Pet

Hobbies come under my mutual interests with my comrades. Here is a note from

"Mervyn," who has a pet bantam which is crippled by reason of an abnormal growth of nail from a toe which prevents it walking properly. The nail could be clipped with a pair of strong, sharp scissors without hurting the bird. If there is any fleshy growth it could be cut and then cauterised immediately. The little bird would soon be its smart, chirpy little self again. I like bantams. They always remind me of a nippy little boy, always on the move and always neat—you know, washed behind the ears and all that!

Our Australian Poem

As you know, I am telling you the final of "Banjo" Paterson's humorous poems about that redoubtable old drover, "Saltbush Bill." Next birthday you ought to get the aunt to buy you the collected poems of A. B. Paterson. You will love to dip into the big book all your life.

Greeting

So, till next Sunday morning, at 10.15 a.m. when we shall be together again on the air from 2FC, good wishes to you all, comrades. Cheerio!

—"THE CAPTAIN."

PHILIPS VALVES

AE
SERIES 'F'

FOR AMERICAN RECEIVERS

THIS series is intended for use in American—or American type—A.C. Receivers, and consists of the F109, F209, and C603.

These valves have no really exceptional features—they are just robust long-life tubes.

Characteristics :

	F109	F209	C603
Purpose	H.F.	1st Audio-Det.	Power
Fil. Volts	1.5	2.5	6
Fil. Amps	1.25	1.75	.3
Heating	Dir.	Ind.	Dir.
Price	15/-	27/6	15/-

The combination of these tubes in a typical American set is :—

HF	HF	HF	DET.	AUDIO	POWER
F109	F109	F109	F209	F109	C603

SPECIFY PHILIPS VALVES WHEN CHOOSING YOUR NEW A.C. SET

PHILIPS



VALVES

9R6

[Advt. of Philips Lamps (Asia) Ltd. (Radio Dept.) Head Office and Showrooms, corner Clarence and Margaret Streets, Sydney, N.S.W.]

P.P.P.—PHILIPS A.C. POWER PACK, SUPPLIES ALL POWER FOR A.C. VALVES.

CENTRAL!

HERE'S A BRAND NEW

Economic Radio Store

In a Really Central and Convenient Location at
126A PITT STREET, SYDNEY
 (A FEW DOORS FROM KING STREET)

SAME GOODS, SAME SERVICE, SAME LOW PRICES
 AND THE SAME SKILLED TECHNICAL INFORMATION

As at all our Economic Radio Stores

*Down Town Radio Men can now Purchase the same Quality Goods
 at the same Low Prices at more convenience and less waste of time*

SEE—————

THE ECONOMIC B'LIMINATOR KIT
 (complete in every respect) ... 59/6

THE RENOWN 3-VALVE SET (the
 3-valve Set with 5-valve results).
 PARTS £6/13/8

CONTINENTAL SLF CONDENSERS,
 real low loss, .0005 7/6

THE "ECO" METALLIC RECTIFIER
 BATTERY CHARGER 63/-

VARTA B BATTERIES (rechargeable),
 100 Volts 50/-

THE NEW AMPLO "B" ELIMINATOR
 4 Voltages to 150 £5/15/-

AND EVERY RADIO NEED THAT'S NEW AND GOOD

*We welcome your inquiries in reference to the Philips 3-33 AC set, as featured in
 this issue. All parts and full particulars. Address Mail Orders 492 George St.*

THE ECONOMIC RADIO STORES

COUNTRY CLIENTS.—Our Mail Order Service reaches every corner of the Commonwealth. Send your orders to us conditionally that your money is refunded if you are not satisfied with goods. Returns must be made within ten days of receipt. We pay carriage on all orders of 10/ and over, except on Batteries, Cabinets, and Loud Speakers. Articles specially procured cannot be exchanged. Terms Cash or Cash on Delivery. No Discounts.

SYDNEY

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 'Phone, M6138.

NEWCASTLE

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 off
 Hunter Street West.
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PARRAMATTA

Corner Church and
 Macquarie Streets.
 'Phone, UW 9601.

SYDNEY

126A Pitt Street,
 Near King Street.
 'Phone M6138.

The A.C. "3-33"

A new home assembly job which is on the market. Although designed by Philips' engineers it is not sold by that company, but parts for its construction are obtainable at all retailers. The set is easily built if the instructions below are followed.

WE are at last able to give details of the new Philips AC "3-33." Although this receiver carries the name of the well-known company, whose technical staff was responsible for the design, it must be remembered that it is not manufactured as a commercial product for sale, but is made up entirely out of local components available to everybody, and that the reader can duplicate the original as easily as he would build up the average Reinartz Three. To get down to the point, the constructional details are given in a brief form, and these, with the accompanying diagrams, supply all that is needed.

In building the AC "3-33" it was found necessary to maintain a certain order, so that the units could be easily got at for wiring. The first operation was to assemble the four corner posts on the base of the aluminium screen. This base was then screwed firmly to the wooden baseboard in the position shown on the layout. Next came the mounting of the various components as follow:—

- (1) The Radiokes Toroid Coil, .01 Condenser, 1mf condenser, and horizontal valve sockets.
- (2) The RF Choke, UY valve holder, and the other 1mf condenser inside the screen box.
- (3) The Philips Audio Transformer and UX Holder. At this point a considerable amount of wiring up can be done, according to the layout diagram. During the preliminary wiring of the units mentioned, the grid condenser can be connected, and screwed to the baseboard.
- (4) The Band-pass Coll Kit, specially made by Radiokes.—This was mounted at this point, and wired into the circuit. If mounted before this point, wiring to the

other units mentioned is rendered difficult.

- (5) The Panel Units.—Ganged condenser, 19-plate midget condenser, potentiometer, and aerial tuned condenser. These were all mounted after sliding the front of the aluminium shield into position (this was the side drilled to match the front of the cabinet). The ganged condenser was then assembled. It consists of two pilot condensers, ganged together by means of a set of pilot coupling links, which enabled both condensers to be operated from the one dial.

The 19-plate midget, potentiometer, and aerial tuning condenser were then mounted, the latter having a small strip between it and the panel. The wiring was then completed, AC filament leads, consisting of a twisted flex, in lengths of 8, 14, and 20 inches

for the screen grid valve, detector, and power tubes respectively.

- (6) With all wiring complete, the Power Pack remained to be mounted. A screw in the base of this corresponded to the hole in the baseboard and this was moved from the Power Pack and inserted from the bottom of the baseboard for mounting.

One of the screws from the 4-volt transformer was next removed and a larger wood screw utilised to reach down to the baseboard in order to hold the unit firmly.

- (7) Connections to the Power Pack.—These were made as shown in the diagram elsewhere.

- (8) The Cabinet.—This was then assembled, and the set made ready to test.

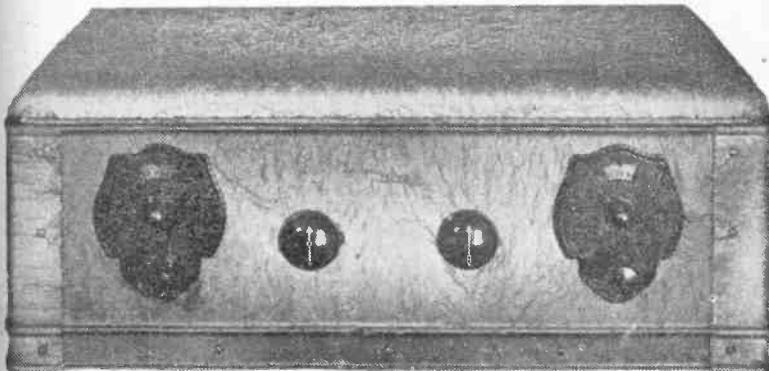
- (9) Inserting the Valves.—When the wiring was completed, the valves were inserted in the following manner:—

The E442 was held in the right hand whilst the socket was held in the left hand, and the valve was then placed in position very gently. The loose flexible lead from the top of the plate coil was then connected to the terminal on top of the valve.

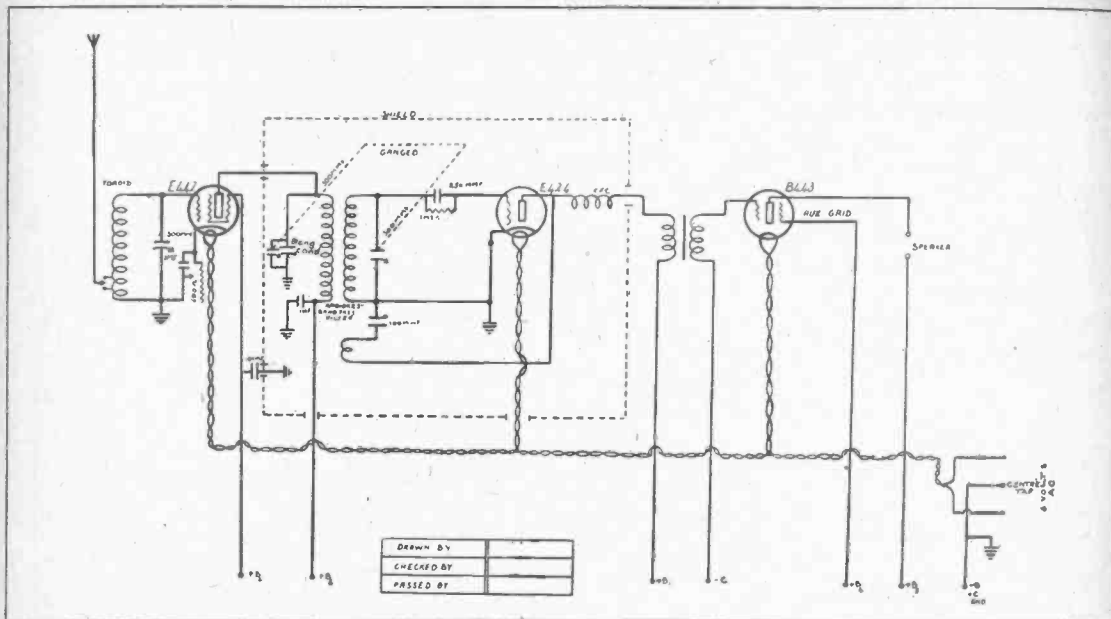
The E415 was then inserted in the socket inside the box screen, and the B443 in the special socket provided for it. The loose flexible lead from the Power Pack was then connected to the auxiliary grid connection, which is mounted on a strip protruding from the B443 valve.

The lid was then screwed on the box screen.

A stage in the construction of the A.C. "3-33."



The finished set in its case.



(10) General.—For the convenience of the set owner, it is suggested that an original "ON—OFF" switch be provided on the panel to control the AC from the Power Point.

On account of the fact that the screen is earthed, all leads should be ascertained to be well insulated, especially those coming from the inside of the screen, which have to pass under the sides of the screen in the slots provided.

(11) Tuning.—Since thoroughly testing out the AC "3-33," the following facts have been collated with regard to tuning.

Before starting to tune in the set, it is necessary to leave the valve switched on for about 20 seconds to allow the indirectly-heated types to warm up properly. The first step is to set the small left-hand knob, which is the volume control, so that all the resistance is out, i.e., turn as far as possible in clock-wise direction, and the small right-hand knob so that the plates of the condenser are approximately halfway in. Both the dials can then be rotated together very slowly. Dial readings will be approxi-

A further stage in the construction.

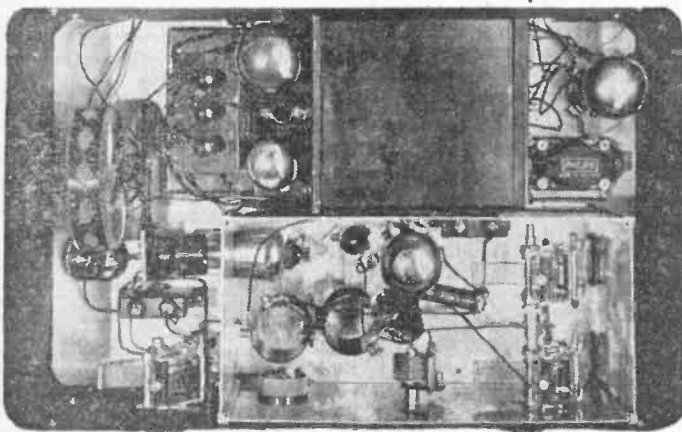


mately the same, but this depends on the aerial earth system. When a station is heard rotate the left-hand dial slowly backward and forward until the best position is obtained. Then repeat with the right-hand dial, and at the same time slowly rotate the small balancing condenser connected on the side of the box screen until the loudest signal is obtained. This small balancing

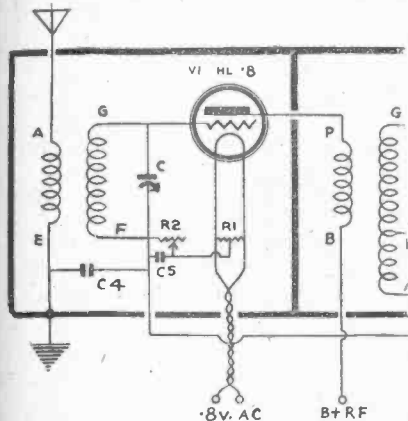
condenser can be left alone for the time being.

With the station tuned in notice the effect of rotating the small volume control, and set for maximum volume; likewise the small right-hand knob. When searching for inter-State stations it is necessary that the reaction condenser be used very carefully. When the condenser is turned so as to cut out the whistle from the broadcast stations it is necessary to make a small readjustment to the right-hand condenser. Having tuned in an inter-State station check up the adjustment of the balancing condenser for the loudest signal, and then it can be forgotten.

(12) Removing the Valves.—Before attempting to remove any valves see that the power supply is switched off, and valves are allowed to cool. To remove the E442 insert a screwdriver blade between the base of the valve and the socket, and slowly lever the valve out of position; the other valves are removed in the orthodox manner with the hand on the bakelite base, not the glass.



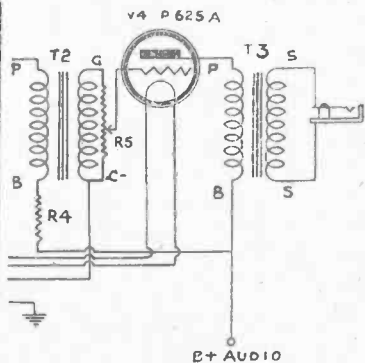
A plan view of the finished job, showing lay-out.



A.C. Marco Four

Next week will appear complete constructional details for building or re-building the Marco 4 for A.C. use. This famous old receiver is one of the most popular ever published in "Wireless Weekly," and its followers are legion. Those who already have the set will be interested in the details for its conversion for A.C. use, and those who have not are advised to make the most of this opportunity of building it.

Don't forget, order next week's copy now, and avoid disappointment. Despite the fact that thousands more copies are printed every week, "Wireless Weekly" is nearly always sold out by the end of the week. Caution: Order early.



(13) Phonograph Adjustment.—So that a Pick-Up could be used in conjunction with the A.C. "3-33" for phonograph reproduction in the pick-up. This switch is necessary as from the radio frequency tube for switching in the pick-up. This switch is necessary as radio cannot be used without breaking the grid circuit for that purpose.

Everything the designers claim for it is endorsed in the A.C. "3-33" submitted to us

for test, and it was found that the band pass filter made all the difference to the selectivity. As an experiment we tried disconnecting one side of the condenser, tuning the band pass primary couplings, and the result was that, whereas we had been listening in comfort to 3LO at all the speaker volume one would ever want, the local station 2BL proceeded to spread over 15 to 20 degrees

of the detector tuning range. Restoring this condenser connection and the utility of the band pass restored its remarkable degree of selectivity.

The E442 A.C. screen grid valve is a worthy successor to the standard D.C. A442, and, as its amplification factor is much higher, the degree of R.F. amplification on distant stations is very noticeable.

:-: How to Service Radio Sets :-:

XVI.

Always carry at least one of the special type detectors. Tune in a weak station, and put the special detector in place of the 201A. The customer is sold every time. These special detectors make wonderful day-time demonstrators. They are sometimes critical on their filament heat, so turn the rheostat to get its best working point. A slight hick is characteristic of the valve if not adjusted right.

A 200A detector does not function at its efficiency until it has been working for two or three minutes.

This is caused by the forming of an acetone vapor, which starts to form when the filament is lit, and does not become complete for a couple of minutes. This means that the valve will not function as rated until two or three minutes have passed.

When simply replacing a 201A type with a gaseous detector, you cannot demonstrate the true value of the detector unless the grid return is proper.

Most sets are wired for a detector grid return to positive filament. This is O.K. for a 201A type valve, but not for a 200A type, which gives extreme sensitivity only when the grid return is to negative filament. It is an easy matter to change this wire over from the positive to negative side. It is the wire that goes from one side of the detector inductance coil and the rotor of the detector tuning condenser to filament. You hook the wire from positive filament and fasten it to negative filament.

If a set is wired for a power valve, and there is none being used, you, of course, want to demonstrate how the power tube will strengthen the volume on weak stations, and, incidentally, amplify the lower notes or frequencies better than a common valve. Be sure you use the proper B and C battery values when demonstrating.

If a set is not wired for a power valve, tell your customer of the advisability of

The Fifth Article of the Series on Servicing Radio by an Experienced Business Man

having it done. It means the sale of a valve and an extra B and C battery, besides the wiring job.

Split the C battery leads, bringing one lead for negative 4½ volt C battery from the F post of the first stage audio transformer, and one lead for negative 9 or 40½ volt C battery from the filament post of the second stage audio transformer. If three stages of transformer coupled audio are used, bring the 9 or 40½ volt lead from the last stage.

If no marked binding posts are on the transformers you can find the negative by either meter tests, or it is the only wire which jumps from one transformer to the other or to all audio transformers.

Leave the 90 volt lead to the "battery" post of the second stage audio, but take it off of the jack or output speaker post. Run a new lead from the jack or speaker post for 135 or 180 positive "B," according to the valve.

This can be either a slow job or done on the premises. A charge of £1 is the nominal charge for this work at the store, and is a fill-in job.

XVII.

Grid returns from detector valves should always go to the positive filament battery for proper detector biasing.

Where a "C" battery is used on amplifier valves, the positive "C" grid return should be connected to the side of the rheostat, which should be in the negative filament supply. When no "C" battery is used the grid return should go directly to the negative supply side of the rheostat. It is necessary that valves have a proper grid bias, or they oscillate at the least provocation.

Microphonic noises from audio amplifiers are generally attributable to built-in speakers causing an out of phase low frequency vibration. Whether it is built-in speaker or not, if a microphonic noise occurs in the audio amplifier valves, reverse the speaker leads in the plug terminals.

XVIII.

Hi-Mu valves may be used to advantage and sold to anyone having resistance coupled audio amplifiers. The amplification of one Hi-Mu and a stage of resistance coupling is equal to a stage of audio coupling with a 201A, but you must use other components, such as 180 volts plate and proper leads.

Use a value of coupling condenser up to .05 mfd., although .01 is best, as there is such a thing as overdoing it and blocking the next valve, and use one-fourth meg plate circuit leak. Bias the valves at 180 volts with 3 volt "C."

Use up to 2 megohm grid leaks.

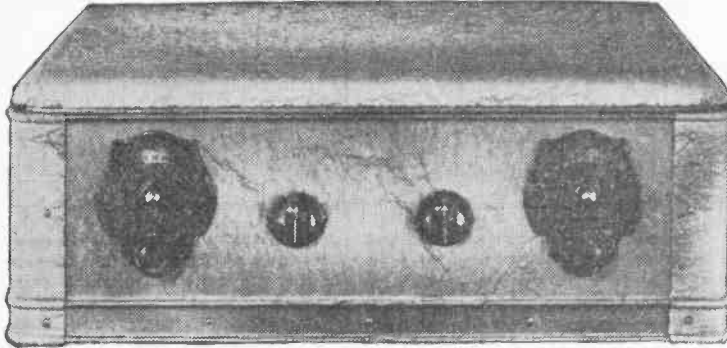
The Hi-Mu can be used for detector with 90 to 180 volts plate, and for intermediate audio at 180 volts, but it is best to use an output or power valve in last stage, using .1 meg ohm grid leak for 171 type, or a one-fourth meg ohm leak for 112 type. Use the regular rated C battery bias for these last valves.

You can convert sets using three stages of resistance coupled audio, giving mediocre results, into a good amplifier of only two stages, using these Hi-Mu valves.

Matching valves is a paying proposition. You can ascertain whether a valve will make a good detector or good R.F. amplifier, and match them by watching the combined plate current flow and oscillation. Customers will pay extra for selected valves. A laboratory instrument designed to read every constant of a valve is not necessary for an every-day busy radio store or service man, but he would like to have some means of finding out what the valves will really do.

RADIOKES "AC 3-33"

—OFFICIAL FOUNDATION KIT—



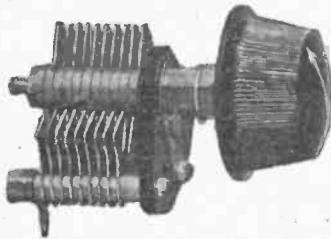
Radiokes Steel Containing Cabinet, all drilled, and beautifully finished in latest two-tone bronze ripple, supplied in knockdown form.

has been chosen as the best for use in construction of this truly remarkable receiver.

The practical solution of the A.C. Set problem.

This Kit allows the Home Constructor to build a full electric receiver with the appearance and performance of a high-grade factory product.

Your electrical and mechanical problems for A.C. Set construction have been solved in the "big" laboratories, and this Kit puts the results of these long and patient researches at your disposal for quite a moderate figure.



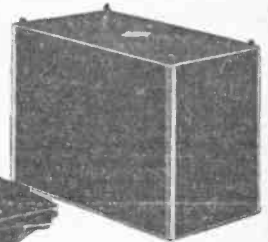
Two of these excellent little Radiokes Midgets are included in this famous Kit. They are precisely manufactured, excellently designed, and beautifully finished.



There is no need to dwell on the virtues of this little instrument. They are all too well known.



A special collapsible box shield is put up for this particular Kit. Drilled for the necessary instrument mountings, and finished in crystalline laquer.



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	A.C. 3-33	D.C. 3-33
Steel Containing Cabinet	£2 2 6	£2 0 0
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Radiokes 3-33 Coil Kit	1 12 6	1 12 6
Radiokes 23 Plate Midget Cond.	8 6	8 6
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Radiokes R.F. Choke	8 6	8 6
Special Finished Baseboard	5 0	5 0
Special Horizontal Socket and Mounting	6 0	6 0
Radiokes Grid Leak Holder	1 6	1 6
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PROVING RADIO!

No. 23 *The condenser is a subject which usually impedes the progress of the radio fan in his search for knowledge; therefore, this important component is being treated in full. The subject will be concluded next week.*

VARIABLE condensers play an important part in the wireless receiving set.

The wireless beginner learns quite early that a condenser offers a complete barrier to direct currents, but allows oscillating currents to pass. Actually, currents of the latter kind do not pass through the condenser. What actually happens is that when a negative half-cycle reaches one set of plates, these plates become negatively charged, that is to say, they contain an excess of electrons. Since one electron repels another (like signs repel, you will remember) with a force billions of times greater than that of gravity, a corresponding number of free electrons is driven out from the other set of plates, leaving behind an excess of positive ions, and charging these plates positively. Meantime, the dielectric is under strain, the orbits of the electrons in its atoms being somewhat distorted. So long as the dielectric is a perfect insulator, no current can pass from one set of plates to the other, since the electrons of an insulator are very hard to move. (Note.—Insulators, electrons, orbit, atoms, dielectric, negative, positive, cycles, half-cycles, ions, resistance, and other technical terms used here have previously been frequently treated in "Proving Radio," and frequent use will be made of these terms so that the student will soon grasp their application.)

Their places (I am reverting to the electronic theory as applied to condensers) will be taken by electrons from the negatively-charged plates, and a current will flow through the dielectric. This condition of affairs may take place either when the dielectric is an efficient insulator, or when (as previously explained last week) the voltage is so high as to cause the dielectric to break down under the pressure.

The negative half-cycle is followed immediately by a positive half-cycle. Electrons are now drawn (unlike signs attract, remember) from the first set of plates in such numbers that the atoms have a deficit of electrons, leaving (as you should know) positive ions, and, therefore, these plates become positively charged. Owing to the attractive power of the positive ions, free electrons rush to the surfaces of the second set of plates in such numbers that these plates become negatively charged.

The result of the application to one set of plates of successive negative and positive half-cycles is that there is a rush of electrons from and to the other plates, therefore a current, opposite in "phase" but otherwise corresponding to that reaching the first set of plates, flows in any circuit to which the second set is connected. The first set may be fixed, and the other set rotor plates.

In practice, the two currents are not precisely equal, for there must always be losses

in the condenser, because, as has been previously mentioned, there is no perfect insulator, and electrons can always be made to flow in an insulator to a certain extent.

The amount of energy wasted in the dielectric depends mainly upon the material of which it is composed. Were the dielectric perfect, it would give back all the energy that it put into it when its atom orbits are strained. The best of all known dielectrics is air, and this is used between the vanes ("vaness" is merely another word for "plates") of the majority of variable condensers. A certain amount of solid dielectric material, such as ebonite or bakelite, however, is usually provided in the older type condensers in order to provide supports for the moving plates, and to insulate them from the fixed plates. But in modern "low-loss" variable condensers, the amount of solid dielectric material has been cut down considerably. "Low-loss" is a term used in radio to denote that few electrons are wasted.

In some types of variable condensers, the more expensive type, each set of vanes is cut complete from a solid piece of metal. Though these condensers are as a rule too costly for the broadcast listener, he can at least braze or solder each set of plates. This will make them very efficient, and some manufacturers carry out this idea. The reason is that no matter how tight the vanes be screwed, there is always a small air gap. This air gap, being an insulator, sets up a resistance, and as a consequence the electrons are hindered. However, the reader need not be unduly alarmed, for the loss is very small.

No matter how good a condenser may be, its performances can be ruined by allowing dust to collect between the vanes. Experiments with two condensers of the same make, one clean and one dirty, have shown that the high-frequency resistance of the latter is enormously greater, and that a dirty condenser in a tuned circuit leads to loss of both sensitivity (i.e., the ability of the receiver to pick up distant or weak signals) and selectivity (i.e., the ability of the receiver to tune in stations without interference from other broadcasts), and not infrequently to a form of noisiness that is easily mistaken for atmospheric disturbance. The plates should be carefully cleaned with a piece of silk wrapped round a pipe-cleaner.

The butcher weighs his meat by the pound; the dry goods merchant sells fabrics by the yard; the milkman dispenses milk by the quart, and the radio engineer employs condensers by the microfarad.

The unit of capacitance (as has been previously mentioned), is the farad. A condenser is said to have a capacitance of one farad when a current of one ampere will flow through it on the application of a voltage change at the rate of one volt per second.

Last week, I mentioned that as the farad was too large for general purposes, the microfarad was used. This is one-millionth of a farad. A microfarad is the capacitance of a condenser in which a microampere (one millionth of an ampere) will be produced by a voltage, changing at the rate of one volt per second.

Just as a Life Insurance company can tell you how long the average man will live, so can condenser specialists tell how long a condenser will last. Study of this subject has led to the opinion that the life of a condenser is decreased when a voltage heavier than that for which it was designed is placed upon it. It follows this rule inversely—or in other words, a ten per cent. increase in voltage cuts the life of the condenser by 50 per cent. If the voltage is doubled, the life is reduced to one-thirtieth. Some condensers on test have shown as much as 100,000 hours' life (100 years normal life).

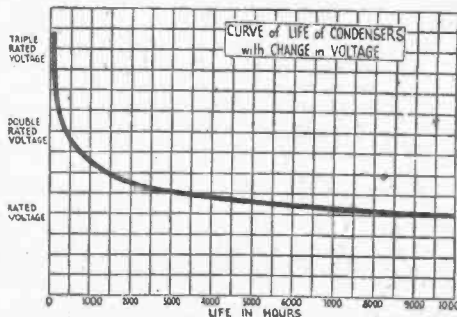
The life of the condenser depends on the materials used in its construction (particularly with regard to the dielectric), the rating of the condenser, and the use to which the condenser is put.

In the paper condenser (this is a type of fixed condenser wherein the dielectric is of waxed paper) the wear and tear begins with its initial use. Disintegration of the paper dielectric takes place from the start. You will remember that, no matter how well the condenser be constructed, there is always a certain leakage of current through the dielectric. This leakage current is greatest at the weakest spots of the dielectric, and it accelerates as the weak spots are made weaker. This leakage current is probably due to slight heat generated by the leakage, and also to certain chemical changes. At any rate, leakage causes disintegration, and disintegration in turn causes more leakage, and so on, in a vicious cycle.

The weak spots in a paper condenser are usually at the sides. Hence thickness means little by way of dielectric strength. It is rather the "number" of papers or dielectrics that counts, since, with a plurality of papers, there is little likelihood of many weak spots.

It should always be the aim of the experimenter, or radio set builder, to use condensers rated above those required. He should allow an ample margin of safety.

The graph shown herewith gives an idea of how the life of the condenser is decreased when the voltage is doubled or trebled.



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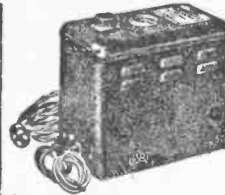
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An A.C. or POWER PACK TRANSFORMER, in attractive metal case.

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Solidly constructed CONDENSER, with minimum and maximum capacities. Brass Plates, Pig-tailed Connection for clockwise and anti-clockwise movement. PRICE, .0005 12/6

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TRADE NEWS

The Cossor S.G. Melody Maker

WELL over a year ago news filtered through from England, via the radio technical press, about the original Cossor Melody Maker; and it seemed very evident that the set, as a manufacturer's kit for easy home construction, took that country by storm. That kit was developed before the introduction of the screen-grid valve, and was also provided with a high and low wavelength range, owing to the higher broadcasting channel used in England by Station 5XX, Daventry. The introduction to Australia of the new Cossor SG Melody Maker is proving even more popular, and thousands of highly-satisfied users are reporting that the little set does all and more than is claimed for it. The kit, complete with valves, sells at the remarkably cheap price of £10, and, in the opinion of the technical authorities of this journal, is the finest value for money possible. So simple is the assembly of the set, owing to the concise and unmistakably clear instructions accompanying it, that the youngest schoolboy with an inkling of "how wheels go round," can build it in a very short space of time. It is a case of take the set home, spend an interesting hour and a half putting it together, and the rest of the evening learning its capabilities on the air. Those capabilities are all that is claimed for the screen-grid valve, and as the whole set is of metal construction, and provided with a tight-fitting metal lid, the circuit screening is very complete, with resultant good selectivity. In the construction there is no drilling, sawing, or soldering to be done, everything is "cut and dried," and, as stated by the makers, the set is assembled with the ease of a Meccano model. The kit submitted to us for trial bore out all claims, and the tuning was well synchronised in the dial readings, owing to very accurate matching of RF coils and condensers.

Our opinion of the Cossor Melody Maker is that it is the ideal of the home constructor, who knows little or nothing about circuit diagrams, and who wants to build a set for himself with the absolute certainty of a 1929 performance. Extremely fine tuning, long-distance reception, and excellent quality of reproduction are to be found with the Cossor Melody Maker, and what one kit will do, so will the other. The designers and manufacturers are to be congratulated on their enterprise on attaining the ideal, and giving the public something which only a very short while back was wholly undreamed of.

The Sydney agents for the Cossor Melody Maker are Jones and Joseph, Ltd., Princeton House, 285 Clarence Street, Sydney, and the kits are now stocked by all leading radio dealers.

Rola Reproducers

MARKETED by United Distributors, Ltd., the ROLA model 10 reproducer is the result of careful design with regard to the modern receiver, in which the loud-speaker is an integral part of the design. In keeping with the excellence of the UDISCO All-Electric receivers, the ROLA unit is correctly styled, "The speaker built for the AC set," as the design is such that when it is installed in a console or cabinet, the larger baffle surface offered by the construction of the cabinet itself deals fully with the whole range of high and low tones. There are two models available, one being the unit for building into the cabinet, at the price of £3/15/, and the other as the usual external

type loud-speaker model, in a very handsome design, at £6/6/. The engineers responsible for the ROLA reproducer are members of one of the oldest established companies in America, specialising in loud-speaker manufacture alone, and the handsome appearance of the ROLA is in keeping with its reproduction.



Members of the Proving Radio Club who visited Pennant Hills recently.

PROVING RADIO CLUB NEWS

Weekly Executive Report

THE executive at its usual weekly meeting welcomed the two new representatives from the two new groups, Auburn and Punchbowl. In doing so, the president stated that the club now consisted of 14 groups.

Mr. Tregilgas (lecturer) read a paper on basic units, definitions and Ohms Law. These lectures have been roneoed, and can be had by application to the hon. sec. (Mr. C. Y. Hook, 29 Blairgowrie St., Dulwich Hill, to whom, by the way, all communications dealing with club matters should be addressed).

The hon. secretary's report stated that a group was in process of formation at Wentworthville. He has also arranged accommodation for a City No. 3 group for those interested persons who could attend this group during the day. A group at Botany is also in the process of formation. In order that you will not be disappointed, make your applications early, as these groups very quickly grow to a size where another group is necessary, and accommodation, in the Eastern Suburbs particularly, is fairly hard to find.

Progress was reported of our dance at the Palais Royal. We would like to see every club member present with at least a party of four. Roll up and make this night a huge success. The date of this dance is Thursday next, June 6.

The country organiser, Mr. Simmonds, has had his hands full dealing with inquiries from a number of country enthusiasts.

Coff's Harbor group has reorganised, and has amalgamated with the club, thus having the honor of being the pioneer country

The New Viking

MESSRS. AMPLION (A/asia), Ltd., announce the arrival of the new improved Viking transformers. Contained in a dull bronze case, this new Viking is over one ounce heavier than its predecessor, and carries an unconditional guarantee against any mechanical defects for 18 months. The fact that Amplion have the sole selling agency gives the public the assurance that this new transformer is good value.

The retail price is 10/6, obtained in 5-1, 3a-1, and 2-1 ratios.

group. The president, on behalf of the club, congratulates this group.

Owing to the amount of work entailed in the organisation of the club, the individual group reports will be held in abeyance until next week, when a detailed report of the activities of all groups will be published, so make sure to get this issue.

In this issue appears a photograph of those who, in defiance of the inclement weather, were present at the club's visit to the A.W.A. receiving station at La Perouse.

Coff's Harbor Group

COFF'S HARBOR GROUP: The meeting of the club was held on Wednesday last, and we all paid in our 5/- entrance fee and two weeks' subscription. This amounted to £3/3/. We decided to deduct 10/- for management expenses. The balance (£2/13/-) has been forwarded to the executive. We did not conduct any experiments, as we were engaged all night discussing the matter of amalgamation. We have two new members, G. Davies and R. Shanahan. Present members were: Messrs. C. Debenham, W. H. T. Riding, J. M. Burke, R. Morrow, H. Smith, R. Shanahan, R. Jacobs, J. Davis, and J. Cockle. Mr. L. Kearns has resigned from the club. We should like to know if his certificate should be returned, or if it shall be used for another member. This is all the club news at present, but we can see that the club is going to progress rapidly now.

(NOTE.—Do not use the certificate for another member. Allow the owner to keep his certificate if he wishes, but mark in the corner, "Resigned.")

Will you BUY
your next
set of valves—

Or will you
have them SOLD
to you?



How many cases are there where customers have been induced to take inferior valves by glib-tongued salesmen—on the "just as good" suggestion? And, in how many of the cases have the unfortunate buyers been **WELL SOLD** on their purchases.

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KILOCYCLING WITH THE FAST ONES

SHORT WAVE AND AMATEUR NOTES BY VK2NO

"F.B." or fine business," as the ham says. At last the job is done, and an appropriate title hit upon for these notes, as will be seen from the heading. The successful donor of the title is Mr. Keast Burke, Montah Avenue, Killara, who arrived at this brain-wave. What could be more descriptive?

It is reminiscent of a cyclist or motorcyclist hitting up the pace, and, at the same time, the kilocycles we use at the lower wave-lengths are certainly fast, when looked upon in the light of frequency. For instance, 20 metres equals, in the more correct expression, 15,000 kilocycles per second. That is the number of alternations backward and forward in the closed circuits of your receiver in one quick second when tuned to 20 metres, and, if that is not moving quickly enough for those harassed little electrons in your valve, what is?

When I think of such a frequency, it is little wonder to me that we had untold trouble in the days when we started to look below 200 metres in getting the old-time high-loss receivers to work. And, with a swinging reaction coil, forsooth!

If Mr. Burke will present himself at the "Wireless Weekly" office, he will be awarded the JB condenser, and long may it sweep the bands! There were many other suggestions, which came with a rush after my last appeal, and, in order readers of these notes may criticise each other's "brain-waves," here are the lot:—

MR. J. F. L. DAVIES, Newtown, Sydney: "Snap on the short waves," "Ham mutterings," "SW Notes," "Meanderings among the short waves," "The latest in the SW world."

A. E. BEHRMAN, Pymont: "With the hams on the short waves," "Go Getter, there's DX on the short waves."

J. W. G. EVANS, Fitzroy, Vic.: "From my aerial to you."

G. GIESMAN, Ipswich, Qld.: "Notes under 100 metres," "After the broadcasters have gone to bed," "What have the short waves been saying?" "Burning the midnight oil," "Combining the world for short waves."

W. J. ROGERS, Woollahra: "The world in your dial."

STAN MCARTHUR, Leichhardt: "Kings of the waves," "Kings of the Aether."

E. A. MOORE, St. Peters: "Where the world is your next-door neighbor," "Kilocycles, Limited."

E. J. KENNEDY, Crow's Nest: "Ham-ettes and DX doings."

HAROLD SLATER, Hunter's Hill: "The world at your feet."

S. PEMBERTON, Ryde: "Down into the unknown."

KENNETH BIDMEADE, Albert Park, Vic.: "Synopsis of short waves."

T. W. ROSE, Balmain: "Somewhere a voice is calling."

H. O. MOORE, Bridge Street: "Searching for low-wave stations," "Searching for short-wave stations," "Bringing in the short-wave stations," "News and notes on the short-wave belt," "Working on the short-wave bands," "Get more out of the short-wave set," "Pull in the short-wave stations."

A. K. MURRAY, Pitt Street, Sydney: "Below the band," "Ham waverings," "Low waverings," "Low murmurings," "DX telegraphy," "Short coils," "Short circuits," "A dive in the waves," "The underworld," "Under the fence," "In the basement."

ALLAN COLE, Heathcote: "The air king's page."

J. H. COOPER, Wollstonecraft: "With the amateurs," "Short-wave activities," "Short-wave notes," "Ham and short-wave doings."

T. J. DORAN, Sandgate, Qld.: "Short-wave subtleties."

KEITH MOREHEAD, Mount Druitt: "Amateur notes by VK2NO," "With the amateurs," "Chasing DX on the shorter waves," "DX or not," "Steering to the short waves," "CQ."

R. M'KAY, Bondi: "Short waves up to date," "Short waves."

G. E. WRIGHT, Hawkesbury River: "Chasing the Aether," "Get out and get under."

J. W. KELTON, Lithgow: "Adrift on the short waves."

J. WINDSOR, Rozelle: "Chasing the short-wave bug."

With many of these suggestions were descriptive illustrations which fitted in well, but I think that all will agree that Mr. Burke's is the winner.

Now to business. My own experience is that international telephony has been suffering from one of the periodical set-backs the high frequencies deal out to us at times. Whereas two weeks ago G5SW was like a

local station every morning at 6 o'clock, he has been almost unintelligible for a week now. PHI, the much-vaunted powerful SW phone station, has also been impossible. It is on these occasions that beginners in SWBCL'ing write to me and say, "Your SW stuff is the bunk. The short waves are not what you crack them up to be." My answer to that is: "Be like the famous British statesman, who, during the Great War, said, 'Wait and see.'"

Mr. R. N. Shaw, of Wauchopo, writes, asking for details of a telephony station he has been receiving. He says: "On a wave-length of about 31 metres I have, on several Saturdays and Sundays, between 4 and 5 p.m., heard a distant station for about 10-minute intervals, saying 'Write down' various words. I cannot quite get this chap's call. He is so consistently on the air that I presume you might know him."

The station is evidently W2XG, at Rocky Point, New Jersey, U.S.A. What exactly the idea is the writer cannot say. The transmissions were conducted throughout 1928 with the same "Write down" business, and it seems that it is a matter of observers determining field strengths of telephony and readability. Writing to R.N.S., Station 7LO, Nairobi, South Africa, states that 7LO's wave-length is now 31.5 metres. The letter adds that the Australian short-wave stations are being received well in South Africa. 7LO is now coming in splendidly here in the early hours of the morning. Mr. Shaw also reports wonderful reception of the duplex telephony tests between Suva's new short-wave station, VPD, and 2ME on 31.5 metres, signals being equal in strength at his location to the A class stations on the BC band. Mr. Russell Crane has received a reception verifying card from KGO, Oakland, California, U.S.A., which is interesting.

KGO is operated by the General Electric Company, who also operate KOA and WGY. The short-wave station at KGO is actually run under the call, W6XN, and the announcer may always be heard to give this call at the conclusion of a programme from KGO. The wave-length is 23.35 metres, or 12,850 kilocycles, and it will be a surprise to many who are hearing this station that the power is only 5 kilowatts, and not about 25, as supposed. The schedule for operation is as follows, Pacific standard time: Tuesday, Wednesday, Friday, 9.30 a.m. to 1 p.m.; Tuesday, 6 p.m. to midnight. It is the latter which corresponds with Wednesday afternoon reception in Sydney, from 3 p.m. to 6 p.m., at which time the station may be left on the loud-speaker without any adjustment whatsoever for the whole afternoon, using the Air King receiver.

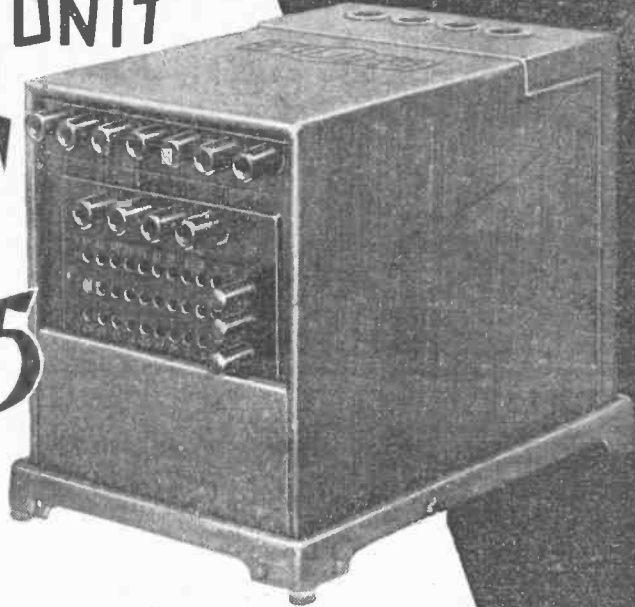
KGO is coming through much better than G5SW just now, in the early morning also. W2XAF were very good on Saturday night, May 11, when a special programme for the benefit of the Sydney Radio and Electrical Exhibition was transmitted, but, for some inexplicable reason, not relayed at the Town Hall. The well-known Dutch station, PCJ, will be off the air for a week, owing to laboratory experiments, but will resume the usual schedule the next week. Bandoeng will relay PHI every Thursday, from 12 to 14 GMT, and on May 16, on 28.2 metres, and May 23 and following Thursdays, on 37.5 metres.

ULTRA S.W.

Experiments with so-called "ultra-short waves" of hardly more than three meters have shown results of extraordinary importance. They can not merely be produced by a low energy sender, hardly larger than an ordinary radio tube, but they can also be sent in any direction desired, and for a definitely limited distance, making it impossible for any other than the station to which they are directed to hear them. The experiments have been carried in by the German Ministry of Traffic, and by Professor Esau, the well-known Jena physicist, and other scientists. They are now being continued with much shorter wave-lengths, down as low as twelve inches. It is believed, moreover, that within a year wave-lengths as low as eight inches will have been so developed that they can be employed practically. And, since the air is already badly cluttered up with long and medium-length waves, this would represent an advance of great importance. The new "ultra-shorts" can also be employed for medical purposes, since, like diathermic waves, they destroy bacteria. They have already been employed in the treatment of cancer.

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A LWAYS a "best-seller" at the old price, the Philips 3003 "B" and "C" Power Unit will be even more popular at the new reduced figure. Just think! No more dry batteries at all, but an ample supply of never failing power from the light socket. Once the best values have been determined for your tubes, the Power Unit plugs may be forgotten—how unlike the erratic voltage-drops of "B" Batteries. And if at a later date you wish to use A.C. Valves, you just require a Philips Filament Transformer to obtain ALL power from the light socket.

PHILIPS

POWER SOCKET APPARATUS

Do you know all about the ingenious switch on the Philips Trickle Charger?

PH:1

Local Programmes, Friday, May 31

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 share markets; 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 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: 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: Hilda Nelson, soprano. 3.37: Studio items. 3.45: A reading. 4.10: Edith Harrison, pianist—(a) "Italian Concerto" (Bach), (b) "Toccato in A Major" (Paradisi). 4.20: Hilda Nelson, soprano. 4.27: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.37: Edith Harrison, pianist—(a) "Etude in F Major" (Chopin), (b) "Ballade in F Major" (Chopin). 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; Madame Ada Baker's pupils—Song, Marcus, "Was It a Dream" (Britt); "The Murmuring Wind" (Wassell), Joyce; Song, Mary, "The Fairy in the Chimney" (Elliott); "The Nightingale's Trill" (Ganeg). Bruce; song, with chorus, Laurie and the children, "Ma Dusky Maid" (Smith). 6.30: Dalgaty's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.47: 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: 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.
 7.40: Popular music.
 7.45: Programme announcements.
 7.48: James Peddle, F.R.I.B.A., will continue his series of talks on "Architecture."
 8.0: "Big Ben." By arrangement with J. C. Williamson, Ltd., a transmission will be

taken from one of Sydney's leading theatres
 8.50: From the Arcadia Theatre, Chatswood—Nicholas Robins at the Wurlitzer organ.
 9.15: From the studio—Weather report.
 9.16: David Craven and Maisie Ottey, musical entertainers.
 9.26: Joe Cahill, entertainer.
 9.33: David Craven and Maisie Ottey, musical entertainers.
 9.43: Joe Cahill, entertainer.
 9.50: From the Arcadia Theatre, Chatswood—Nicholas Robins at the Wurlitzer organ.
 10.15: From the studio—Late "Evening News" service.
 10.25: To-morrow's programme.
 10.28: Late weather report.
 10.30: National Anthem. Close.

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2BL

MORNING SESSION.

Announcer: A. C. C. Stevens.
 8 a.m.: G.P.O. chimes; weather report, State and metropolitan. 8.3: Studio music. 8.15: News and information service from the "Daily Telegraph Pictorial." 8.45: 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; a talk by "Priscilla." 11.30: Advertising hints. 11.40: Women's session, conducted by Mrs. Cranfield; talk on "Infant Welfare" by Nurse May. 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.

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; Edward Evans, baritone—(a) "The Ballad Monger" (Martin), (b) "The Blind Ploughman" (Clarke). 4.7: A. C. C. Stevens will speak on "The Buccaneer who Came South—Captain William Dampier." 4.22: Studio items. 4.27: The Melody Trio. 4.42: Edward Evans, baritone—(a) "My Little Garden World" (Carew), (b) "Son of Mine" (Wallace). 4.49: "Sun" news service. 4.55: A musical item. 5.0: G.P.O. chimes; pianoforte reproduction. 5.23: 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. 6.30: "Sun" 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: G. Vern Barnett.
 8.0: G.P.O. chimes; Light Orchestra—(a) "By the Blue Hawaiian Waters" (Ketyby).
 (b) "Dubinuschka" (arr. Schermann).
 8.20: Charles Lawrence, entertainer.
 8.30: Light Orchestra—
 (a) "The Fountain" (arr. Nussbaum).
 (b) Selection, "Lohengrin" (Wagner).
 8.50: Millie Hughes, soprano—
 (a) "Field Beloved" (Rachmaninoff).
 (b) "Sorrow, in Spring" (Rachmaninoff).
 (c) "The Nightingale and the Rose" (Korsakoff).
 8.58: Weather report.
 8.59: C. R. Dexter, last-minute sporting information.
 9.14: Light Orchestra—
 (a) "A Virginia Rhapsody" (Wood).
 (b) "Two Poetical Fancies" (Dvorak).
 9.29: Millie Hughes, soprano—
 (a) "Faded Flowers" (Vivara).
 (b) "Riding by Moonlight" (Tonnel).
 (c) "The Rose Tree" (Barlow).
 9.36: Charles Lawrence, entertainer—
 9.46: Light Orchestra—
 (a) A selection of Molloy's Songs.
 (b) Selected.
 9.56: Billee Cresswell, popular vocalist.
 10.3: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.
 10.15: Billee Cresswell, popular vocalist.
 10.22: Late "Sun" news and late weather report.
 10.32: 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. 3.0: Address by Mrs. Wood. 3.30: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 7.30: Feature story. 8.0: Miss Heather Kinnaird, contralto. 8.7: Mr. Gregory Valentine, violinist. 8.15: Mr. Cyril Huggett, tenor. 8.22: Instrumental music. 8.30: Humorous interlude. 8.35: Miss Gwladys Edwards, soprano. 8.45: Address. 9.0: Weather report. 9.3: Miss Heather Kinnaird, contralto. 9.37: Mr. Gregory Valentine, violinist. 9.47: Humorous interlude. 9.28: Instrumental music. 9.35: Mr. Cyril Huggett, tenor. 9.45: Miss Ada Brook, pianiste. 9.50: Miss Gwladys Edwards, soprano. 10.0: Dance music. 10.30: Close down.

2UW

MIDDAY SESSION
 12.30: Music and request items. 1.0: G.P.O. clock and chimes; music. 1.15: Talk on Homecraft, by "Pandora." 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. 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.

Interstate Programmes, Friday, May 31

3LO

EARLY MORNING SESSION.

7.15: Early 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. 8.15: Close down.

MORNING SESSION

11.0: 3LO's daily direction for delectable dainties. 11.5: Miss Grace Tyers will speak on "Great Australian Writers and Their Stories." 11.20: Musical interlude. 11.25: "Au Fait" will speak on "Fashion." 11.40: Musical interlude. 11.45: Under the auspices of the Department of Health, Dr. Merriells will speak on "Pleasant and Food Poisoning."

MIDDAY SESSION.

Announcer: Frank Hatherley. 12.0: Melbourne Observatory time signal. 12.1: British Official wireless news from Rugby. Reuters and the Australian Press Association financial "Argus" news service. 12.12: Newmarket stock sales. Official report by the Associated Stock and Station Agents, Bourke Street, Melbourne. 12.20: The Station Orchestra, "Romance and Two Dances" (German). 12.30: "The Kauals," Hawaiian instrumentalists, "Memories of Miami." 12.37: Stock Exchange information. Prices received from the London Stock Exchange this day by the Australian Mines and Metals Association. 12.42: The Station Orchestra, "Ballet Suite" (Popy). "Poeme" (Dyrial). 1.0: Meteorological information. Weather forecast for Victoria, South Australia, New South Wales, and Tasmania. 1.10: The Station Orchestra, "The Kauals." 1.15: The Station Orchestra, suite, "St. Agnes Eve" (Coleridge Taylor); suite, "Minnehaha." Parts I. and II. (Coleridge Taylor). 1.37: "The Kauals," Hawaiian instrumentalists, "Songs of the Southern Seas." 1.45: Close down.

AFTERNOON SESSION.

Announcer Frank Hatherley. Accompanist, Agnes Fortune. 2.15: The Station Orchestra, overture, "Le Roi D'Espagne" (Adam), "Les Adieux" (Sarasalle). 2.25: Thos. B. George, bass-baritone, "O. Could I but Divert" (Malashkin), "Tang" (Hill). 3.32: The Jedal Trio, (a) "To a Miniature" (Braher), (b) "Hungarian Dance" in G Minor (Brahms), (c) "The Old Refrain" (Branke-Kreier). Edna Hattenbach, cello, "Melodie" (L. Pattenbach), "Mazurka" (Neruda). The Trio, (a) "Lullaby" (Una Bourne), (b) "Rondo Alla Turca" (Mozart), (c) "Miss Frances Fraser will speak on "Some Ultra-Modern Verse Writers." 3.15: The Station Orchestra, suite, "Graciously" (German). Melodies from many lands. 3.25: Dawn Ashton, soprano, and Cassio Schwartz, violin, in their unique and varied renditions of folk songs and characteristic dances from many countries. 4.0: The Station Orchestra, fantasia, "Heidenbusch" (Wagner). Thos. B. George, bass baritone, "O Pure and Tender Star of Eve" (Wagner), "An Epitaph" (Besley). 4.17: Tasma Tierman, cello, "Nocturne in E Flat" (Chopin). 4.22: The Station Orchestra, music in the concert selection, "Gleopatra" (Strauss). 4.32: Jack Stocks, "The Woman Hater," "Ten Minutes' Wrathful Reminiscences." 4.42: The Station Orchestra, selection of Molloy's Songs. 4.50: "Her" service. Stock Exchange information. 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 MacLennan has another of his famous piratic and adventures to relate.

EVENING SESSION.

Speakers: L. C. Bartels, Madame Soward, Parlez vous Français? 6.50: Madame Soward, "Frenz Without Tears." 7.5: Stock Exchange information. 7.15: Official report by the Associated Stock and Station Agents, Bourke Street, Melbourne. Latest truck orderings for next week's markets. Fish market report by J. R. Borf. 8. Ltd. Rabbit report. Fish market. Weather: synopsis. Market reports by the Victorian Producers' Co-operative Company, 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 fruit. 7.30: News session. 7.45: Birthday greetings. 7.45: Out of the Under the auspices of the Department of Agriculture, L. C. Bartels, Senior Irrigation Officer, will speak on "Some Lessons from Irrigated Farm Competitions."

NIGHT SESSION.

Announcer: Renn Millar. Accompanist: Agnes Fortune. 8.0: Programme announcements. 8.2: H. K. Love will speak on "Technicalities." 8.15: Collingwood Citizens' Band—March, "King Peg Overture," "The Magic Flute." 8.26: Herald Kyng, basso cantante—"So We'll Sayings" (Valerie White) "The Fuchsia Tree" (Quilter). 8.33: Collingwood Citizens' Band—Flugal horn solo, "On Wings of Song" (Mendelssohn). Soloist: J. Bramwell. "Grand March" from "Tannhauser" (Wagner). 8.40: Herald Kyng, basso cantante—"Sea Fever" (John Ireland) "Sigh No More, Ladies" (Alkibi). 8.47: Lindsay Biggins, piano—"Five Preludes in G" (Schubert) "Scherzo in B Minor" (Chopin) "Andeluz" (Granados). 8.47: The Jedal Trio (Alma Hattenbach, violin, Edna Hattenbach, cello, John Simons, piano).

The Trio—
(a) "Andante Religioso" (Thome).
(b) "Serenade" (Drigo).
(c) "Adagio" (Bizet).
John Simons, piano.
"Allegretto" (Rameau).
"Rikaudon and Musette" (Rameau).
The Trio—
(a) "Melodie" (Faure).
(b) "Pavane" (Debises).
9.47: Eric Welch will speak on to-morrow's races at Flemington.
9.47: "Argus" news service. British official wireless news from Rugby. Meteorological information. Announcements.
10.10: Collingwood Citizens' Band—Fantasia, "A Gallor's Memory."
10.20: Jack Stocks, "The Woman Hater"—"That Henpecked Feeling."
10.27: Collingwood Citizens' Band—March Humorous, "The Piper's Wedding." "A Persian Wedding" (Felix).
10.37: Jack Stocks, "The Woman Hater"—More popular melodies.
10.45: Ern. Hall's Radio Revelers, with Hugh Huxham.
"What a Girl" (Sanders).
"Dynamite" (Henderson).
"The Dance of the Blue Danube" (Fisher).
"Roseme" (Hall).
"Me and the Man in the Moon" (Menaco).
"When You Said Good-night" (Donaldson).
"Dances of the Past" (Sawwin).
"Counting the Milestones" (Tilsley).
"My Darling" (Rose).
11.30: God save the King.

3AR

MORNING NEWS SESSION.

10.0: O.P.O. clock says "Ten." 10.1: Market reports. Farm and station produce, fruit, fish, and vegetables. 10.25: Shipping reports; ocean forecasts. 10.30: Mail notices; express train information. 10.35: News service. 10.59: Weather forecast.

MORNING MUSICAL SESSION.

11.0: The Drcus Ensemble. Sir Henry Wood conducting the New Queen's Hall Orchestra in Symphony No. 3 (Eroica) (Beethoven). 12.20: British official wireless news; announcements. 12.30: Close down.
3.0: Beautiful ballads. 3.15: The Strad Trio, "Op. 1, No. 3, in C Minor" (Beethoven). Allegro con brio. Andante and Variations. Prestissimo. 3.35: Beautiful ballads. 3.55: Cecil Parkes, violin: "Concerto in D Major." 4.1: Beautiful ballads. 4.8: Frank Johnston, cello: "Hungarian Rhapsody" (Poper). 4.13: A beautiful ballad. 4.18: The Strad Trio: "Andante Cantabile" (Tartini); "Serenade" (Berber); "Spanish Dances Nos. 2 and 1" (Mozartowski). 4.30: Close down.

EVENING SESSION.

6.0: Beautiful ballads and orchestral chefs d'oeuvre. 7.10: News service; announcements. 7.20: Sweet solace on the Seraphina.

NIGHT SESSION.

8.15: Under the auspices of the Model Home exhibition, Alec S. Hall, A.R.V.I.A., will speak on "The Development of the Australian Home." 8.29: Community singing from Geelong. Did You Know That.
8.30: Community Singing. Transmission from Central Hall, Geelong.
10.20: From the Studio: News session. "Ace" news service, exclusive to 3AR; 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: Lectures: A cookery and household talk by "The Etiquette Girl." 11.30: Music. 11.35: More social news. 11.45: Music. 12.00: Close down.

MIDDAY SESSION.

1.0: Market reports and weather information. 1.20 Lunch-hour music. 2.0: Close down.

AFTERNOON SESSION.

3.0: Orchestral music. 3.30: Mail train running times. 3.35: Orchestral music. 4.15: This afternoon's news. 4.30: Close down.

EARLY EVENING SESSION.

6.0: Mail train running times; mail information; shipping news. 6.5: Dinner music. 6.25: Commercial announcements. 6.30: Bedtime stories conducted by "The Sandman." 7.0: News in brief. 7.5: Stock Exchange news. 7.6: Metal quotations. 7.7: Market reports. 7.30: Weather information. 7.25: Penwick's stock report. 7.40: Announcements. 7.45: Standard time signals. 7.45: To-morrow's sporting fixtures reviewed.

NIGHT SESSION.

PART I.

SOUTH AFRICAN VETERANS' DINNER.
The first portion of the South African Veterans' Dinner will be relayed.
8.0: National Anthem.
Loyal Toast. The President.
J. E. England (bass)—Selected.

Address by the President.
"Once Fennelly (baritone)—Selected.
J. Drury's Orchestra—Selection.
Address by His Excellency the Governor. Cyril Vale—Selected.
Harry Humphreys (elocutionist)—"Gunga Din."
W. McMillon (violin)—Selected.
Address—
"Departed Comrades," by Major H. R. Carter. J. Drury's Orchestra—Selection.
Lament and Last Post—
Piper Major McLehan and Bugler C. Shas. Accompanist, Mr. Arthur Sharman, L.A.B.
9.15: From the Studio—Week-end road information officially supplied by the R.A.C.Q., metropolitan weather forecast.
9.30: Doris M'Innes (soprano)—"The Dove" (Donaldson).
9.30: A Wurlitzer Organ Record.
9.35: Lillian Cowley (contralto)—"Sweet Miss Mary" (Neanderger).
9.40: From the Studio—Description of the annual metropolitan championship bouts, staged by the Queensland Amateur Boxing and Wrestling Union.
10.30: From the Studio—News, weather; close down.

5CL

MORNING SESSION.

11.0: Chimes. 11.1: Morning melodies. 11.15: Kitchen craft and menu talk. 11.45: Mr. L. G. Galt will speak on "First Aid to the Injured." 11.48: Chimes. 12.1: Midday Music. 12.15: General news service. British official wireless news. 12.52: Railway information; Stock Exchange information; meteorological information. 1.0: Chime. 1.1: Community singing from the Adelaide Town Hall. 1.8: Chimes; close down.

AFTERNOON SESSION.

3.0: Chimes. 3.1: Station quartette. 3.8: Chas Genon/McNeil soprano. 3.15: Dave Howard saxophonist. 3.21: Frank McCabe, baritone. 3.27: Station quartette. 3.35: Madoline Knight, contralto. 3.46: Jean Finlay, pianiste. 3.52: Violet Hazen soprano. 3.58: Station Quartette. 4.4: Frank McCabe, baritone. 4.10: Station Quartette. 4.18: A short lecture with illustrative recording by Horace Perkins, Mus. Bac., A.M.U.A.: "Greg Gaudin, 1st movement (Friedmann); "Wedding Day," "To Spring" (Grieg), played by Grainger; "One More Day, My Joim" (Grainger). "Molly on Shore" (Grainger). "The Power of Love" (Grainger). "Crade Song" (Grainger). "Gunsickers March" (Grainger). 4.55: Stock Exchange information. 5.8: Chimes; close down.

EVENING SESSION.

6.0: Chimes. 6.1: Children's happy moments. 6.30: Dinner music. 6.45: 5CL's sporting service, supplied by "SHVINS." 7.0: Chimes. 7.1: Stock Exchange information. 7.6: General market report. 7.10: "Mo' Manning on 'Football.'" 7.25: Les Thelston on the "Foxrook." 7.40: Mr. A. Grendel Price, M.A., F.R.C.S., on "Pioneers of Australia."

NIGHT SESSION

8.0: Chimes.
8.1: Boake-Smith's Palais Royal Band—"You're Wonderful" (Fields).
"Without You, Sweetheart" (De Sylva).
"Was It a Dream" (Coslow).
8.10: Boake-Smith's Palais Royal Band—A selection from her repertoire.
8.13: Boake-Smith's Palais Royal Band—"Lonesome in the Moonlight" (Baer).
"Anything You Say" (Donaldson).
"Merry Widow" (Lehar).
8.23: Jack Burgess and his ukulele in a new number.
8.27: Boake-Smith's Palais Royal Band—"That's Her Now" (Yellen).
"Susannah's Sneaking Shoes" (Wergall).
"My Sorry, Saily" (Kahn).
8.37: Mrs. Max Helmbold, elocutionist, will entertain you.
9.41: Boake-Smith's Palais Royal Band—"I Fell Head Over Heels in Love" (Thayer).
"Because my Baby Don't Mean Maybe Now" (Donaldson).
"Out of the Dawn" (Donaldson).
8.51: Madoline Knight, contralto—A selection from her repertoire.
8.54: Boake-Smith's Palais Royal Band—"Me and the Man in the Moon" (Lestie).
"There's a Rainbow Round My Shoulder" (Johnson).
"Some Day, Somewhere" (Rapee).
9.3: Meteorological information, including sensory tides.
9.4: Overseas grain report.
9.5: Vocal Jackson, soprano—A selection from her repertoire.
9.8: Boake-Smith's Palais Royal Band—"Is She My Girl Friend" (Yellen).
"Precious Little Thing Called Love" (Davis).
"Ricketty Racketty Shack" (Tobias).
9.18: Jack Burgess, and his ukulele—"The Gay Cavalier."
9.21: Boake-Smith's Palais Royal Band—"Avalon Town" (Clarke).
"Dreamy Melody" (Koehler).
"It Goes Like This" (Friedl).
9.31: Mrs. Max Helmbold, elocutionist, will entertain you again.

- 9.36: Boake-Smith's Palais Royal Band—
"Glad Rag Doll" (Yellen).
"Carolina Moon" (Davis).
"Mississippi Mud" (Barris).
- 9.46: Madoline Knight, contralto—
A selection from her repertoire.
- 9.50: Boake-Smith's Palais Royal Band—
"Sally of My Dreams" (Kernell).
"Promise Me" (Stranks).
"High Up on a Hilltop" (Baer).
- 10.0: Mrs. Max Helmbold, elocutionist, in another number.
- 10.5: Boake-Smith's Palais Royal Band—
"Siren Dream" (Pfeck).
"Dream House" (Fors).
"Out of the Dawn" (Donaldson).
- 10.15: General news service. British official wireless news.
- 10.20: SCL's sporting service supplied by "Silvius."
- 10.30: Boake-Smith's Palais Royal Band—
"Together" (De Sylva).
"Lily of Laguna" (Leslie Stuart).
"Ohio-e" (Moret).
- 10.40: Jack Burgess and his ukulele—
"Who Is Your Who?"
- 10.43: Boake-Smith's Palais Royal Band—
"Alabama Stomp" (Johnson).
"All By Myself in the Moonlight."
"My Blackbirds Are Bluebirds Now" (Friend).
"You've Got to Learn to Smile" (O'Hagan).
"Mine, All Mine" (Stopt).
"I Don't Care" (Davis).
"Shy Violets" (Kahn).
"Sonny Boy" (Akst).
"Old Man Sunshine" (Dixon).

6WF

10.0: Tune in. Gramophone and phonograph records from the studio. 11.0: Close down. 12.30: Tune in. 12.35: Markets, news, etc. 1.0: Time signal. 1.1: Weather bulletin supplied by the Meteorological Bureau of West Australia. 1.3: Lunch hour music by the Radio Trio. 2.0: Close down. 3.30: Tune in. 3.35: Afternoon tea music, relayed from the Primrose Cafe de Luxe. Items by the Misses Marshall and Chapman. 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. R. Bressley, cello; Mr. A. Lynch, violin. 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: Musical programme from the studio, including solos and duets, by Miss Bertha Warren and Mr. Hugh Torrance; Miss Audrey Dean, pianiste. 8.50: Late news items, by courtesy of "The Daily News" Newspaper Co., Ltd., station announcements, late weather bulletin, ships within range announcement. 8.57: "Gardening" talk by Mr. James Conarty. 9.12: Musical programme continued from the studio. 10.30: God save the King.

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. 11.30: Selections. 11.34: Midlands weather forecast. 11.55: 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, news at Railway. 1.30: Close down.

AFTERNOON SESSION.

3.0: Chimes. 3.1: Selections. 3.4: Weather information. 3.5: Selections. 3.15: A happy hour with Florida and Columbia. 4.15: Personalities. 4.30: Close down.

EARLY EVENING SESSION.

6.15: Selections. 6.30: "The Storey Lady." 7.0: Answers to letters and birthday greetings, by "Uncle David" and "The Storey Lady." 7.10: News session.

EVENING SESSION.

7.15: Sid Jones will speak on "Football."
7.30: A studio concert, by 7ZL artists and Columbia. Reginald Goss-Custard, organ solo—
"Fugue in G Minor" (Bach).
"Prelude in G Minor" (Bach).
7.37: Gwen Davidson, soprano—
"Angel Guard Thee" (Goddard).
"Big Lady Moon" (Taylor).
7.44: The Renard Trio—
"Berceuse" (Jarniet).
"Tales of Hoffmann" (Offenbach).
7.51: Fred Heraud, baritone—
"Home Along."
"Captain Mac" (Sanderson).
7.58: Fritz Kreisler, violin solo—
"Molly on the Shore."
8.2: Katie Rothwell, contralto—
"Down the Vale" (Moir).
"Heart's Desire" (Simson).
8.9: Mischa Elman, violin solo—
"The Dew Is Sparkling" (Rubenstein).
8.12: Gwen Davidson, soprano—
"The Cloths of Heaven" (Dunhill).
"From the Land of Sky Blue Water" (Cardman).
8.19: Guitar duet—
"Wabash Blues."
8.22: Fred Heraud, baritone—
"Song of the Waggoner" (Smith).
"I Am Thy Harp."
8.29: Columbia Opera Co.—
"The Desert Song" (Romberg).
8.34: Katie Rothwell, contralto—
"Mellisanda in the Wood" (Goetz).
"Till Sing Thee Songs of Araby" (Clay).
8.41: Light Opera Co.—
"Lilac Time" (Schumann).
8.45: J. M. Counsel.
9.45: News session.
10.0: Chimes.
10.1: Close down.



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Local Programmes, Saturday, June 1

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; meta. 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 and Laurence Halbert.

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 Canterbury—Description of the races in the running. During intervals, from the studio, music by the Popular Trio. 4.45: From the studio—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: The children's session, conducted by the "Hello Man"; letters and stories; music and entertainment. 6.40: Stock Exchange information. 6.45: Weather and shipping news. 6.48: Rugby wireless news. 6.53: Late sporting news. 7.0: "Big Ben"; late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats—(a) "The Merry Widow Waltz" (Lehar), (b) "Prelude in C Sharp Minor" (Rachmaninoff), (c) "Early in the Morning" (Phillips), (d) "Tales of Hoffman" (Offenbach), (e) "Gumnuts' Dance" (Railton).

EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

7.40: Popular music.
7.45: Programme announcements.
7.48: Studio items
8.0: "Big Ben"; David Bert and Arthur Powell, musical entertainers.
8.12: R. A. Bartleman, baritone—
(a) "Vicar of Bray" (17th Century, Old English).
(b) "The Village Blacksmith" (Weiss).
8.19: The Two Old Cronies.
8.29: Mabel Batchelor, soprano.
8.36: David Bert and Arthur Powell, musical entertainers.
8.48: R. A. Bartleman, baritone—
(a) "Tom Bowling" (Dibdin).
(b) "Silver Threads Among the Gold" (Danks).
8.53: The Two Old Cronies.
9.3: Weather report.
9.4: From the Pavilion Cafe—Cec Morrison's Dance Band.
9.16: From the studio—Mabel Batchelor, soprano.
9.23: From the Pavilion Cafe—Cec Morrison's Dance Band.
9.33: From the studio—Ina Thornton, in popular numbers.
9.40: Late "Evening News" service.
9.50: From the Pavilion Cafe—Cec Morrison's Dance Band.
10.0: "Big Ben." From the studio—Ina Thornton, in popular numbers.
10.7: From the Pavilion Cafe—Cec Morrison's Dance Band.
10.28: From the studio—Late weather report.
10.30: From the Pavilion Cafe—Cec Morrison's Dance Band.

10.57: From the studio—To-morrow's programme.

10.59: From the Pavilion Cafe—Cec Morrison's Dance Band.

11.30: National Anthem. Close.

2BL

MORNING SESSION.

Announcer: A. C. Stevens.

8 a.m.: 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. Stevens.

11.0: G.P.O. chimes; women's session, conducted by Mrs. Cranfield; what's on at the pictures and theatres. 11.30: Advertising hints. 11.40: Talk on "Gardening" by Mr Cooper, Park Superintendent, City Council. 12.0: G.P.O. chimes; special ocean forecast and weather report. 12.3: Studio music. 12.30: "Sun" midday news service. 12.49: Studio music. 12.50: "Sun" news service. 1.0: Studio music. 1.10: "Sun" news service. 1.20: Studio music. 1.40: "Sun" news service. 1.50: Studio music. 2.0: G.P.O. chimes; close.

AFTERNOON SESSION.

Announcers:

Eric Bessemer (Studio), Basil Kirke (Sports Ground).

Accompanist: Kathleen Roe.

Note.—Race results from Ascot and Canterbury.

2.55: Race results and announcements. 3.0: From the Sydney Sports Ground, description of the football match. 3.15: From the studio—Frances Lea, popular vocalist. (a) "The Greatest Wish in the World" (Del Riego), (b) "Trees" (Rasbach); race results; popular items. 3.30: From the Sydney Sports Ground, description of the football match. 3.45: From the studio, Al Jack, novelty pianist—(a) "Angela Mia" (My Angel), (Rapee), (b) "I Don't Care" (Dowell), (c) "Some Day, Somewhere" (Rapee); race results; popular items. 3.55: From the Sydney Sports Ground, description of the football match. 4.10: From the studio, Frances Lea, popular vocalist—(a) "Pale Moon" (Logan), (b) "The Night Nursery" (Arundale); race results. 4.25: From the Sydney Sports Ground, description of the football match. 4.45: From the studio—Al Jack, novelty pianist, (a) "Hallelujah" (Hit the Deck), (Youman), (b) "Old Man Sunshine" (Warren); sporting resume. 5.0: G.P.O. chimes; close.

EARLY EVENING SESSION.

Announcer: Basil Kirke.

5.40: Children's session conducted by Uncle Bas; music and entertainment; letters and stories. 5.30: "Sun" news service. 6.40: 2BL Dinner Quartette—(a) "Moresa" (Silesu), (b) "No. No. Nanette" (Youmans), (c) "None but the Weary Heart" (Tschalkowsky), (d) "My Wonderful Garden" (Bjelou), (e) "By the Tamarisk" (Coates). 7.7: Complete sporting and racing resume. 7.30: 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;
Heyes Banjo Troupe—
(a) "Return of the Caravan" (Old win).
(b) "Grand Pere at Grand Merz" (Merz).
(c) Selected.
8.15: The Troubadours.
8.28: Popular programme.
9.28: Weather report.
9.30: Heyes Banjo Troupe—
(a) "Soldiers of Fortune" (Merr).
(b) "Amphion Waltz" (Merz).
(c) Selected.
9.45: The Troubadours.
10.0: G.P.O. chimes; Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.
10.15: From the studio, late "Sun" news service and late weather report.
10.28: Romano's Dance Orchestra, conducted by Bennie Abrahams.
10.57: To-morrow's programme.
10.59: Romano's Dance Orchestra, conducted by Bennie Abrahams.
11.30: National Anthem; close.

2GB

3.0: Musical session. 5.30: Children's session, by Uncle George. 7.0: Request evening. 8.0: Instrumental music. 10.30: Close down.

2UW

5.30 p.m.: Children's hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Request numbers. 10.30: Close down.

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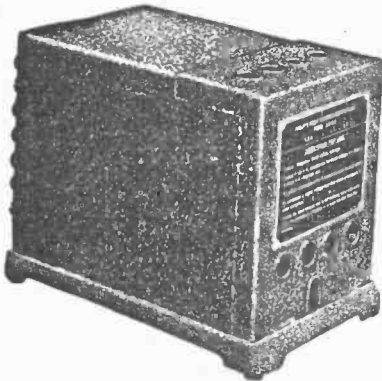
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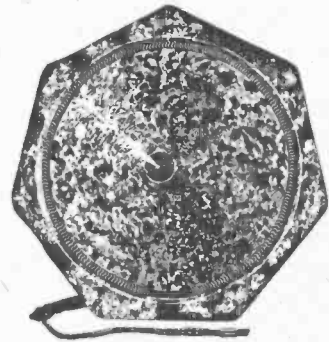
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3LO

EARLY MORNING SESSION.

7.15 to 8.15: Friday.
 11.0: The Radio Revelers, "Shivering" (Doody), "Promise Me" (Van Coot), "My Stormy Weather" (Plantados), 11.10: Thos. E. George, bass-baritone, "The Knight's Song" (Shaw), "A Chip off the Old Block" (Squire), 11.17: The Radio Revelers, "What'll You Do" (Conn), "Do You" (Plantados), request item, 11.27: Eric Welch will speak on to-day's races at Flemington, 11.37: The Radio Revelers, "Pa's Old Hat" (Guy), "Colombo" (Nichols), "I Fell Head Over Heels in Love" (Thayer), 11.47: Jack Stocks, the Woman Hater, "Pity the Victim", 11.54: The Radio Revelers, "Sonny Boy" (Brown), request item, "Sally of My Dreams" (Kernell).

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, 12.20: The Radio Revelers, "You're a Real Sweetheart" (Friend), "The Flea Trot" (Pens), "Where the Cot Cot Cotton Rows" (Klein), 12.30: Thos. E. George, bass-baritone, "Riding Through the Night" (Breville-Smith), "Away in Athlone" (Lohr), 12.37: Stock Exchange information, Prices received by the Australian and British Association from the London Stock Exchange this day, 12.45: The Radio Revelers, "Chuanon Onke" (Bernard), "My Pleurette" (Klimbor), "I'm Treen" (Brown), 12.52: "The Kaala", Hawaiian entertainers, "A Palm Beach Symphony", 12.58: Description by Eric Welch of York Hurdle Race, two miles, at Flemington, 1.5: Meteorological information, Weather forecast for Victoria, New South Wales, South Australia, and Tasmania, Ocean forecasts, River reports, Rainfall, 1.10: The Radio Revelers, "Shake That Thing" (Clad Rag Doll) (Ager), "You Are Wonderful" (Asa), 1.20: Jack Stocks, the Woman Hater, "Woe is Me", 1.27: The Radio Revelers, "There's a Good One" (Ager), "The Rose of Flanders" (O'Hagen), "Oh, Ya, Ya" (Frich), 1.38: Description of Princess Handicap, six furlongs, at Flemington, 1.45: Description of baseball match, South Melbourne v. Richmond, at South Melbourne, by Percy Steel.

AFTERNOON SESSION

2.15 and 2.40: Description of baseball match, South Melbourne v. Richmond, at South Melbourne, by Percy Steel (continued), 2.33: Description by Eric Welch of Hopetoun Steeplechase, two miles and half a furlong, at Flemington, 2.45, 3.23, 3.57, 4.37, and 5.0: Description of football match, South Melbourne v. Richmond, at South Melbourne, 3.12: Description of Royal Handicap, six furlongs, at Flemington races, 3.20: Quarter time football scores, 3.43: Description of Sandringham Handicap, one-and-a-quarter miles, at Flemington races, 3.55: Half-time football scores, 4.28: Description of Buckingham Welter, one mile, at Flemington, 4.35: Three-quarter time football scores, 5.15: News service, 5.30: Final scores.

EARLY EVENING SESSION.

5.45: All sporting results, 6.0: Little Miss Kookaburra will send out her birthday greetings and answers to letters, 6.25: Captain Donald MacLean will tell a pirate story for the boys, 6.40: Little Miss Kookaburra will tell a story from the Kookaburres, and will tell another instalment of her serial, "The Guide Camp at Heron's Bay" (Under the Tower).

EVENING SESSION.

7.0: Market reports, 7.15: News session, Final scores of football matches, 7.25: Birthday greetings, 7.39: End of the past, 7.50: Edward E. Prescott will speak on "George and Lemon Trees", 7.45: A Maker of History, 7.48: Dr. J. A. Leach will speak on "Spinifex Birds".

NIGHT SESSION.

8.1: Programme announcements, 8.5: Vocal duet, "Auntie's Letter from the 'Courtier'", Launceston, 8.5: Eileen Pascoe-Webb and her Sunbeam Singers, Opening chorus, "Come to the Show", 8.5: Sunbeam Singers, Song—"Sonny Boy", Thelma Watt, Song—"What Wonderful World It Would Be", Edna Harley, Recitation—"A Modern Version of Romeo and Juliet", Mavis Yeomans, Solo—"Absent", Eileen Pascoe-Webb, Vocal duet—"April is a Lady", Edna Harley and Connie Webster, Song—"The Stranger", Thelma Watt, Recitation—"The Vicar's Recital", Connie Webster, Song—Selected, Lorna Raiston, Vocal duet—"Nature", Eileen Pascoe-Webb and Mavis Yeomans, Song—"Little Mother", Thelma Watt, Solo—"The 45th Street Call", Edna Harley, Recitation—"Grandma", Mavis Yeomans, Song—"Ol' Man River", Connie Webster, Solo—"The Lotus Flower", Eileen Pascoe-Webb, Humorous duet—"That's What's the Matter", Thelma Watt and Lorna Raiston, Final—"Spring Flowers", Eileen Pascoe-Webb and Sunbeam Singers, 9.5: The record feature of the week, 9.8: Eric Welch will describe to-night's event at the Stadium, 9.23: The "Kauais", Hawaiian entertainers—"Island Melodies", 9.30: The Station Orchestra—"Overture, "March of Orleans" (Rawlinson), 9.40: Jack Stocks, the Woman Hater—"Sob Stuff", 9.47: The Station Orchestra—"Part I, "Ballet Dornroschen" (Tchaikowsky),

9.54: The Stadium—Eric Welch will continue his description of to-night's events at the Stadium, 10.10: The Station Orchestra—"Part 2, "Ballet Dornroschen" (Tchaikowsky), 10.20: Jack Stocks, the Woman Hater—"Pity Me", 10.27: The "Kauais", Hawaiian entertainers—"Bright Music", 10.36: Err. Hall's Radio Revelers, with Hugh Auham—"Stars Are the Windows of Heaven" (Mallet, "Only a Rose" (Friml), "That's Her Now" (Ager), "Song of the Vagabonds" (Friml), "Japany" (Klenner), "Constantinople" (Carlton), "In the Woodshed She Said She Would" (Johnson), "Minnetonka" (Wallace), "Fireworks" (Williams), 11.30: God Save the King.

6.30: Bedtime stories conducted by "Uncle Ben", 7.0: To-day's races in detail, 7.30: General notes, 7.30: Sailing notes by Mr. Fred Smith.

NIGHT SESSION.

8.0: From the Studio—Vincent Conolly (baritone)—"Adele With Me" (Liddle), "Vale" (Russell), 8.5: Golding in a novelty entertainment, 8.15: Mary L. Spanjer (contralto)—"Adele With Me" (Liddle), "Break, Break, Break" (Carey), 8.24: Therese O'Brien (elocutionist)—"A Courtship in Leather" (Sullivan), "Open Spaces" (Arthrop).

RADIO PLAY.

"IT PAYS TO ADVERTISE" A Farce in Three Acts, Cyrus Martin, Rodney (his son), Ambrose Peale, Eillery Clarke, Donald McChesney, George Bronson—Ernest Bert, Mary Grayson, Comtesse de Beauclerc, Dudley Barr, Acts 1 and 3—Library at Cyrus Martin's, Act 2—Office of the 15 Soap Company, 9.0: Radio Play, "It Pays to Advertise", 9.30: From Lennon's Hotel—Dance Music, 10.0: From the Studio—News, weather, close down.

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3AR

MORNING NEWS SESSION. 10.0 to 10.59: See Friday.

MORNING MUSICAL SESSION.

11.0: Sweet solace on the Seraphims, 11.50: British official wireless news announcements; rates of exchange as supplied by Messrs. Thos. Cook and Son, 12.0: Close down.

AFTERNOON SESSION.

3.0: The Station Orchestra: Overture, "Il Guarany" (Gomes), Freda Treweek, mezzo soprano; "The Cuckoo" (Liza Lehmann), "The Starling" (Liza Lehmann), 3.17: The Jedral Trio (Alva Hattenbach violin, Edna Hattenbach cello, John Simons piano), "Andante" (Ph. E. Bach), "Cradle Song" (Schubert), "Serenade" (Haydn), piano solo, "Wedding Day" (Grieg), 3.37: Thos. E. George, bass-baritone, "When I Was a Bachelor" (Gregory), "O, Mistress Mine" (Quilter), 3.44: The Station Orchestra: Selection, "Squire's Songs", 3.54: Dawn Assheton, Coloratura soprano, and Laszlo Schwartz, Hungarian pianist, 4.34: Freda Treweek, mezzo-soprano, "Songs My Mother Taught Me" (Dvorak), "Christina's Lament" (Dvorak), 4.41: The Station Orchestra: "Symphonized Pieces" (Eric Coates), "Serenade" (Gregory), 4.53: Thos. E. George, bass-baritone: "Nita Gitana" (Newton), "Tally Ho" (Leon), 5.0: Close down.

EVENING SESSION.

6.0: Vocal variations and melodic measures, 7.10: News service; announcements, 7.20: More melodic measures.

NIGHT SESSION.

8.0: All sporting results, 8.29: Did You Know That, 8.30: The Jedral Trio (Alva Hattenbach violin, Edna Hattenbach cello, and John Simons piano)—A Special Request Programme—"Humoresque" (Rachmaninoff), "The Rosary" (Nevin), 8.50: Herold Kynge, basso cantante—Selections from his repertoire, 8.57: "Pirates' Perils and Peru"—Captain Donald MacLean—"Feats of the Mighty", 9.12: Herold Kynge, basso cantante—Selections from his repertoire, 9.20: Dawn Assheton, Coloratura soprano, and Laszlo Schwartz, Hungarian pianist, 10.0: C. E. Montehut, F.R.C.O., Transmission from St. Peter's Church, Eastern Hill, Melbourne—"Choral Prelude" (Kreislner), Prelude on "St. Peter" and "Minuet in F" (C. E. Montehut), "March of the Crusaders" (Legend of St. Elizabeth) (Liszt), 10.20: From the Studio—News service; announcements, God Save the King.

4QG

EARLY MORNING SESSION. 7.43 to 8.30: See Friday.

AFTERNOON SESSION. 3.0: Records, 3.30: Mail train running times, 4.15: This afternoon's news, 4.30: Close down.

EARLY EVENING SESSION.

6.15: Bi-weekly news service for distant listeners.

5CL

AFTERNOON SESSION.

12.0: Chimes, 12.1: Late selections for Flemington races, supplied by Mr. Eric Welch, of 3LO, Melbourne, 12.3: Probable starters and selections for Victoria Park races supplied by "Silvius", 12.6: General news service, British official wireless news, 12.40: Railway information; Stock Exchange information; meteorological information; Flemington news result, York Hurdle Race, 12.50: From Victoria Park: Riders and positions for Glen Osmond Handicap, one mile, 1.15: Flemington race result, Princess Handicap, 1.30: From Victoria Park: Riders and positions for first division, Tasmore Welter, six furlongs, 1.40: From Victoria Park: Running description of first division of Tasmore Welter, by Mr. Arnold Treloar, 2.1: Resume of previous race results, 2.10: Flemington race result; Hopetoun Steeplechase, 2.11: From Victoria Park: Riders and positions for second division of Tasmore Welter, 2.20: From Victoria Park: Running description of second division of Tasmore Welter, 1.40: From Victoria Park: Riders and positions for Brisbane Cup, one mile and five furlongs, 2.55: Flemington race result, Royal Handicap, 2.58: Description of League football, 3.0: From Victoria Park: Running description of Birthday Cup by Mr. Arnold Treloar, 3.5: Resume of previous race results, 1.4: Description of League football, 3.23: Description of League football, 3.29: Flemington race result, Sandringham Handicap, 3.30: From Victoria Park: Riders and positions for Gage Forward Stakes, six and a half furlongs, 3.35: Description of League football, 3.40: From Victoria Park: Running description of Gage Forward Stakes by Mr. Arnold Treloar, 3.45: Description of League football, 4.1: Resume of previous race results, 4.4: Description of League Football, 4.10: From Victoria Park: Riders and positions for Jumpers' Flat Race one mile and five furlongs, 4.15: Description of League football, 4.20: From Victoria Park: Running description of Jumpers' Flat Race, 4.25: Description of League football, 4.50: From Victoria Park: Running description of Norwood Handicap by Mr. Arnold Treloar, 5.5: Description of League football, 5.10: Dividends on Norwood Handicap, resume of race results, and final football scores; close down.

EVENING SESSION.

6.1: Children's happy moments, 8.30: Dinner notice, 7.1: Stock Exchange information, 7.18: Mr. G. E. Hale, B.A., will give an interesting talk, 7.30: Mr. G. E. Riley will talk on "Items of Interest", 7.45: Silvius' sporting service supplied by "Silvius", including Victoria Park and Flemington race results, football scores, and Soccer results.

NIGHT SESSION.

8.0: Omdes, 8.1: Holden's Male Voice Choir will entertain for ten minutes, 8.31: Cliffs Genoni M'Neil, soprano, 8.18: Guido Giacchino, cellist, 8.24: Madoline Knight, contralto—The Singer of Old-time Songs, 8.31: Tom Dorling, banjoist, 8.37: Holden's Male Voice Choir, 8.45: Wrestling from Exhibition Building, 9.0: From SCL Studio: Guido Giacchino, cellist, 10.5: Violet Jackson, 10.15: Tom Dorling, banjoist, 10.20: Holden's Male Voice Choir, 10.30: Modern Dance Records, 11.0: Close down.

6WF

10.0: Tune in. Gramophone and phonograph records from the studio. 11.0: Close down. 12.0: Tune in. 12.5: Racing anticipations. 12.7: Pianoforte solos by Miss Audrey Dean. 12.44: Market news etc. 1.0: Time signal. 1.1: Weather bulletin, supplied by the Meteorological Bureau of West Australia. 1.3: Close down. 1.55: Tune in. Sporting session. Description and results of races run at the Perth Racecourse, will be broadcast during the afternoon, together with quarter-time scores of the various football matches. 5.30: Approx. Close down. 5.45: Tune in. 6.48: Bedtime stories by Aunty Amy. 7.12: Sports results. 7.30: Commercial and general information. 7.45: Music. 8.0: Time Signal. 8.1: First weather bulletin. 8.3: Vocal and instrumental artists from the studio. 8.30: Relay from Temple Court Cabaret of dance music by Merv. Lyon and his Symphonic Orchestra. 8.50: Late news items by courtesy of "The Daily News." Station announcements, ships within range announcement, late weather bulletin. 9.0: Programme continued from the studio and Temple Court Cabaret. 10.30: God Save the King. 104.5 METRE TRANSMISSION.

Simultaneous broadcast on 1250 metres, commencing at 6.45 p.m.

7ZL

11.30 to 1.30: See Friday. 1.40: Description of Princess Handicap, 6 furlongs, Flemington, Melbourne. 2.35: Description of Hopetoun Steeplechase, 2 miles, Flemington, Melbourne. 2.40: Close down.

AFTERNOON SESSION.

3.0: Chimes. 3.4: Weather Information. 3.15: Description of Royal Handicap, 9 furlongs, Flemington, Melbourne. 3.20: Transmission from the North Hobart Oval—Football match, Lefroy v. North Hobart, described by Sid Jones. 3.50: Description of Sandringham Handicap, 1 1/4 miles, Flemington, Melbourne. 3.55: Lefroy v. North Hobart. 4.30: Description of the Buckingham Welter, 1 mile, Flemington, Melbourne. 4.35: Lefroy v. North Hobart. 4.50: All sporting results to hand. 5.0: Close down.

EARLY EVENING SESSION.

5.0: All sporting results to hand. 6.30: "Uncle David." 7.0: Answers to letters and birthday greetings, by "Uncle David." 7.15: News session.

EVENING SESSION.

7.30: Roy Johnson—"Manual Training." 7.45: J. M. Counsel—"European Affairs." 8.0: Chimes. 8.0: A Special Studio Concert. 10.1: News session. 10.20: Close down.

Return of Eileen Starr

AFTER a considerable absence from the studio, Eileen Starr will be back again at 3LO on June 3 in some brilliant vocal selections. Miss Starr will be remembered by many listeners in the early days of broadcasting, when her flexible soprano speedily placed her in the front rank of radio artists. She is a past graduate of the Conservatorium, and has done much good work with the J. C. Williamson musical productions, both in the chorus of the Melba-Williamson Opera Company, and the tuneful "Rose Marie." Miss Starr is endowed with a truly beautiful voice and a fine sense of interpretation, and all musical listeners will give her a warm welcome back to the studio.

Care of Rose Trees

MANY amateur gardeners have found out to their sorrow that no matter how excellent the rose tree may be, if it is not planted properly—in the right place and at the right time of the year—its chances of flourishing and bearing first-class blooms are very slight. The talk given from 3AR on June 5 by Mr. E. Wiseman, who will speak under the auspices of the Victorian Seedsmen's Association, should be greatly appreciated by many, and will contain much valuable information regarding the selection, hardiness, and pruning of the rose tree.

Choral Concert

ON June 2 a fine programme of sacred choral music will be given from 3LO by the Northcote Presbyterian Church choir, under the direction of the organist and choir master, Mr. George Reid. Though this is the first appearance of the choir before a microphone, they are well known in the concert and oratorio world as a particularly sincere and well-trained vocal combination. The choir numbers twenty-five well-balanced voices, many of whom are first-class soloists, and their selections from familiar oratorios should be greatly appreciated by listeners who enjoy well-rendered choral music.



24/6

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Local Programmes, Sunday, June 2

2FC

MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2: Studio music. 10.20: The Captain to his Comrados. 10.35: The Comrados' Bookshelf. 10.40: Studio music. 11.0: From St. Stephen's Presbyterian Church, Phillip Street. Morning service, conducted by Rev. Hugh Paton. Organist, Mr. Harry Chandler. Doxology, Invocation, Hymn 281. Ezekiel XI. Prayer, Psalm 23, lesson Matthew XI, Young People's Portion. Hymn 565. Prayer, Paraphrase 60, Sermon. The Sanctuary of the Soul, text, Ezekiel XI. 16; Prayer, Hymn 157, Benediction. 12.15 (approx.): Close down.

AFTERNOON SESSION.

2.30: Programme announcements. 2.32: Cheer Up Session, conducted by Uncle Frank. 3.0: "Big Ben;" from the Lyceum Hall, Pitt Street; Pleasant Sunday Afternoon programme arranged by the Central Methodist Mission, under the direction of Jean Barnettson; address by Brigadier-General H. W. Lloyd, M.L.A. 4.30: From the studio, programme arranged by Mr. and Mrs. T. F. Faulkner—organ and contralto solos, selections from the works of Haydn, "Nearer My God, to Thee" (Carey), "He Shall Feed His Flock" (Handel). 4.45: Studio music. 5.0: "Big Ben;" close.

EVENING SESSION.

Announcer: Laurence Halbert.

6.0: "Big Ben" and announcements.

- 6.2: S. H. Bowden will speak on "Amsterdam—the Northern Venice."
- 6.20: Music programme arranged by Mischa and Madame Dobrinski—Violin solos. Mischa Dobrinski. (a) "Meditation" (Glazounov). (b) "Finale Concerto G Minor" (Bruch). Musical monologues, Mme. Dobrinski. (a) "Daddy and Babsy" (Levey). (b) "Little Mary Fawcett" (Witty). Violin solos, Mischa Dobrinski—(a) "Waltz A Minor" (Brahms). (b) "Waltz A Major" (Brahms). (c) "The Bee" (Schubert). Piano solos, Madame Dobrinski—(a) "Water Wagtail" (Scott). (b) "Fantasia, Impromptu" (Chopin). Violin solos, Mischa Dobrinski—"Hymn to the Sun" (Korsakov-Kreisler). "Turkish March" (Beethoven-Auer). From St. Mark's, Darling Point—Organ recital.
- 7.0: Evening service, conducted by Rev. Canon E. Howard Lea.
- 8.29: Weather report.
- 8.30: Organ recital.
- 8.50: Madame Vera Tasma, soprano.
- 9.17: A group of organ numbers.
- 9.24: Jules van der Klei, 'cellist.
- 9.44: Madame Vera Tasma, soprano.
- 9.51: Jules van der Klei, 'cellist.
- 9.58: Recital of Celebrity Records.
- 10.28: Late weather report.
- 10.30: National Anthem; close.

Prayer.

Organ Solo, Miss Nellie Felton. Contralto Solo, Miss Mary Neale. Violin Solo, Miss Tytherly. Soprano Solo, Mrs. R. B. Lew. Notices, Offering and Organ Voluntary. Bass Solo, Mr. J. P. Barnett. Hymn. Topical Address. Solo, Mrs. Polkinghorne. Violin Solo, Miss Tytherly. Contralto Solo, Miss Mary Neale. National Anthem and Benediction. 4.40: From the Studio: Studio music. 5.0: G.P.O. Chimes. Close.

EVENING SESSION.

Announcers: Basil Kirke and G. Vera Barnett.

6.0: G.P.O. Chimes. Children's Session, conducted by Uncle Bas.

7.0: G.P.O. Chimes. Musical items. 7.15: From Petersham Baptist Church: Evening Service, conducted by Rev. G. A. Craike. Organist: Mr. F. Seal.

Hymn.

Male Choir. Prayer. Solo, Miss E. Chater. Lesson. Hymn. Notices. Offering. Anthem, Church Choir—Conductor, Mr. A. Shaw. Prayer. Solo, Mr. G. Watson. Sermon, Rev. G. A. Craike. Solo, Mr. C. Huggett. Hymn. Benediction and Vesper.

8.30: Band items. 9.30: From the Studio—Alfred Cunningham, baritone—(a) "It Is Enough" (Mendelssohn). (b) "Fear Ye Not, O Israel" (Buck). 9.37: Farnsworth Hall, violinist. 9.44: Alfred Cunningham, baritone—(a) "The Sailor's Grave" (Sullivan). (b) "The Bell Ringer" (Wallace). 9.51: Farnsworth Hall, violinist. 9.58: To-morrow's programme and announcements. 10.0: National Anthem. Close.

2BL

MORNING SESSION.

Announcer: A. C. Stevens.

- 11.0: G.P.O. Chimes. From Bourke Street Congregational Church—Morning Service, conducted by Rev. Sydney Herbert Cox—Organ Prelude. Call to Worship. Doxology. Prayer of Invocation. Hymn 33, "Holy, Holy, Holy" Responsive Reading, 785, "The Beatitudes." Pastoral Prayer, and Lord's Prayer (chanted). Anthem, "I Was Glad." Offertory and Notices. Organ Interlude and Offertory Prayer. Anthem, "Praise the Lord." Scripture Lesson. Boys and Girls' Story. Hymn 316, "Christ for the World We Sing." Sermon—Rev. Sydney Herbert Cox. Hymn 34, "Holy, Holy, Lord." Benediction. Organ Postlude. 12.15: 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. From Haberfeld Methodist Church: Pleasant Sunday Afternoon Service, conducted by Rev. Richard Piper—Hymn.

2GB

10.15: Organ music from St. Alban's Church. 10.30: Morning service from St. Alban's Church, Regent Street, Sydney. 11 noon: Close down. 3.0: Musical session. 5.30: Children's session, by Uncle George. 7.0: Sacred concert from St. Alban's Church. 7.30: Solemn Benediction from St. Alban's Church. 8.0: Music from studio. 8.15 and Sons, Uebel-Lechleiter piano solos 8.22. Mr. Cecil Chaseling, baritone. 8.30: Miss Mary Neal, contralto. 8.45: Uebel-Lechleiter piano. 8.52: Mr. Cecil Houghton, tenor. 9.0: Weather report. 9.2: Mr. Gregory Valentine, violinist. 9.10: Mr. Cecil Chaseling, baritone. 9.17: Miss Mary Neal, contralto. 9.24: Uebel-Lechleiter piano. 9.32: Mr. Cecil Houghton, tenor. 9.35: Close down.

2UW

10.30 a.m.: Music and request numbers. 1 p.m.: Close down. 5.30 p.m.: 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., June 2

3LO

MORNING SESSION.

10.30: Bells from St. Paul's Cathedral. 10.45: Express train information; British official wireless news from Rugby; news from yesterday's papers. 11.0: Morning service from Australian Church, Russell Street, Melbourne. Rev. Dr. Charles Strong conducts worship and preaches. Opening organ solo. "Communion" (Faulkes). Hymn, church worship, 172, "The Morning Light." Prayers at morning service. Supplement No. 7, Page 105. Chant 25, church worship. "Song of the Unsearchable." Scripture reading, Anthem, "Seek Ye the Lord." Recitation by choir and congregation. "The Aims of Christian Prayer," ending "Amen, So May It Be." Hymn, Supplement 48, "Each for All." Address. Hymn, Supplement 25, "God Be with You." Announcements and offertory. Organ during offertory. "Consolation" (Lemaire). Benediction. Ann. Concluding voluntary, "Fanfare" (Foulkes). Organist and choirmaster, Mr. Charles Tuckwell. Choir principals: Misses K. Conly and G. Hutton, Messrs. G. Dwyer and H. Martin. 12.15: Close down.

AFTERNOON SESSION.

2.0: Sonora recital. 3.0: Pleasant Sunday afternoon service, Wesley Sunday School Anniversary, Whitnata, Rev. Dr. S. J. Hoban. Hymn, "As the Sun Shines." Prayer. Hymn, "Fall In! Fall In!" Solo, Mr. Ben Moy Ling. Scripture reading, Psalm 137. Kindergarten items—(a) "A Carol for Every Child." Soloist, Miss Phyllis Kennedy (aged seven). (b) Hymn, "Amen in My Heart." Hymn, "Little Ships." Notices. Duets, "The Shepherd's Lament" and Alma Dunstun. "The Shepherd's Lament" Have Seen the Glory." Rev. W. D. Jackson. Alma Hymn, "Springtime." Benediction. 4.30: Close down.

CHILDREN'S HOUR.

5.45: Shipping information. 5.47: Answers to letters of birthday greetings by "Bobby Bluegum." 6.25: "The Bill" talk this week is entitled: "Hats off to the Future." Close off to the Future." 6.45: Adult Sunday greetings. 6.47: News from St. Paul's Cathedral.

EVENING SESSION.

7.0: Evenson, Choral, St. Paul's—Hymn (A. and B.) sentence; exhortation; general confession; absolution; the Lord's Prayer; versicles and responses; Psalms, 6, 7, and 8; first lesson; Magnificat; second lesson; Nunc Dimittis; the Apostles' Creed; collects; anthem; prayers, hymn; sermon; the Deaf; hymn; the benediction.

NIGHT SESSION.

8.30: Brunswick City Band—Selection, "Der Freischutz" (Weber). March, "Samur" (Richards). 8.45: Northcote Presbyterian Church Choir (conductor, George Reid)—"I Will Magnify Thee" (Thompson). "Behold He Cometh" (Rowlands). 9.55: Professor Bernard Heine, violin. 10.10: Harold Kyng, basso cantante—"Surround" (Schubert). "The Courtier" (Schubert). "Wandering" (Schubert). 9.20: Brunswick City Band—Serenade, "A Night in June" (Niven). (By request). 9.25: Northcote Presbyterian Church Choir—"Sun of my Soul" (Turner). "I Will Give Thanks" (Mozart). 9.40: Brunswick City Band—Air Valse, "Eventide" (Rimmer). March, "Virtuoso" (Rimmer). 9.53: News service; announcements. 10.0: God Save the King.

3AR

MORNING SESSION.

11.0: Morning Service, from Scots Church, Collins Street, Melbourne—Scripture paraphrase, "Where lead the heavenly temple stands" (Tune 13); prayer; Psalm 137, "In Thee, O Lord, do I put my trust"; chants; Old Testament lesson, Isaiah 52.1,12; Psalm 222. "Dear Lord and Father of Mankind"; Prayer of Intercession; New Testament lesson, St. John, 15.1,17; anthem; The Lord's Prayer; Sermon, "What is the Gospel," St. John, 20-31; prayer; instructions; offering; offertory; Hymn 255, "Lord speak to me, that I may speak"; Benediction. Preacher, Rev. Dr. W. Borland, D.D. Acting-organist, Dr. F. G. Steele. 12.15: British official wireless news; announcements. 12.25: Close down.

AFTERNOON SESSION.

3.0: Eddie E. Fitch at "The Wurlitzer"—transmission from the Regent Theatre, Collins Street, Melbourne. 4.0: Close down.

EVENING SESSION.

5.0: "Brier Rabbit"—Stories for the children. 5.30: Close down.

NIGHT SESSION.

7.0: The Discus Ensemble in famous overtures and operatic arias. 7.10: Piano Quartette (Cecil Parkes, violin; Kingsley Parkes, viola; Myra Montague, piano; Frank Montstone, cello)—"Allegro Vivace" (Schubert). Cecil Parkes, violin—"Old French Song" (Seldel). "Menuet" (Haydn).

"Goblin Dance" (Bazzini). 8.9: Ellen Starr, soprano—Selections from her repertoire. 8.16: Piano Quartette—"Op 16 in E Flat" (Beethoven). Grave—Allegro. Andante. Finale. 8.38: Victor Harding, bass baritone—"The Erl King" (Schubert). "A Pleading" (Tschaiakowsky). 8.45: J. Howlett Ross will speak on—"His Majesty the King." 9.5: Victor Stephenson, piano recital—"Dance of the Gnomes" (Liszt). "Hark! Hark, the Lark" (Schubert-Liszt). "Humoreske" (Dunhill). "Wiegenlied" (Spendiaraw). "Scherzo" (Palmgren). 9.20: Kingsley Parkes, viola—"Chanson Triste" (Tschaiakowsky). "La Varginella" (De Beriot). 9.26: Quartette—"Oriental" (Cul arr. Parkes). "Folk Tune" (Fletcher). "Country Dance" (Fletcher). "Selected." 9.40: Victor Harding, bass baritone—"Revenge, Tomothus Cries." from Alexander's Feast (Handel). 9.47: News service; announcements. God Save the King.

4QG

MORNING SESSION.

11.0: The complete service will be relayed from St. Stephen's Roman Catholic Cathedral. 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.

7.30: The complete evening service will be relayed from St. Stephen's Roman Catholic Cathedral. At the conclusion of the church service, the concert by the Brisbane Municipal Concert 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: Chimes. 11.1: Service from St. Francis Xavier's Cathedral, Adelaide; Pontifical High Mass, presided over by the Archbishop of Adelaide. Rev. K. W. Spence, O.P., including special Choral and Solo Items rendered by the Choir, with organ and orchestral accompaniment. 12.10: From the studio: British official wireless news. 12.15: Close down.

AFTERNOON SESSION.

3.0: Chimes. 3.1: A pleasant Sunday afternoon service from Maughan Church, Franklin Street. 4.0 Chimes; close down.

EVENING SESSION.

6.0: Chimes. 6.1: Children's happy moments. 6.30: "The Bird Lady" and "The Sunshine Songsters" will entertain the children. 7.0: Chimes. 7.1: A religious service from the Unitarian Christian Church, Wakefield Street. The service will be preceded by an organ recital of Mendelssohn's First Organ Sonata by Mr. C. A. Harris, A.R.C.O.

NIGHT SESSION.

8.20: The Adelaide Trio (H. Brewster-Jones piano, H. Kugelberg 'cello, Bertha Jones violin)—"Trio, Op. 1, No. 3, 1st Movement" (Beethoven). "Trio, Op. 1, No. 3, 2nd Movement" (Beethoven). 8.30: Ruth Naylor, soprano (holder of the English Elder Scholarship, who will be leaving for England on 26th June)—Selections from her repertoire. 8.37: Thelma Baulderstone, elocutionist—"A musical monologue. "All Along O'Being Kind." "The Little Urchin" (Anonymous). 8.43: Howard Rogers, bass—"Blow, Blow, Thou Winter Wind" (Sargent). "Out of the Deep" (Lohr). 9.0: A violin recital by Berth Jones (accompanied by H. Brewster-Jones)—(a) "Adagio" from Op. 26" (Bruch). (b) "Minuet" (Bocherini). (c) "Scherzo" (H. Brewster-Jones). 9.12: Ruth Naylor, soprano (holder of the English Elder Scholarship, who is leaving for England on 26th June)—Selections from her repertoire. 9.19: Thelma Baulderstone, elocutionist—"Little Grey Bird" (Searnley Maurice). "The Lady Nancy" (Searnley Maurice). "Cows" (Anonymous). 9.25: Howard Rogers, bass—"John Biggs" (Sanderson).

"Song of the Lighthouse Bell" (Getetrio). 9.32: The Adelaide Trio (H. Brewster-Jones piano, H. Kugelberg 'cello, Bertha Jones violin)—"Trio, Op. 1, No. 3, 3rd Movement" (Beethoven). "Trio, Op. 1, No. 3, 4th Movement" (Beethoven). 9.40: Mr. P. H. Nicholls, will give an interesting talk on "The Jubilee of the Y.M.C.A." 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 Charles Street Methodist Church. 12.15: Close down. 3.30: Tune in. 3.35: Musical programme from the studio. Mr. L. Judson, pianist. 4.30: Close down. 6.45: Tune in. 6.48: Bedtime stories for the kiddies. 7.15: Musical items from the studio. 7.20: Evening service. 8.0: Music from the studio, including items by the Radio Trio. 10.0: 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

MORNING SESSION.

10.45: Transmission from the Trinity Church—Trinity Chimes. 11.0: Transmission from St. David's Cathedral. 12.30: Close down.

AFTERNOON SESSION.

3.30: Transmission from Trinity Church—An Orchestral Recital, arranged by Tom Hopkins. 4.30: Close down.

EARLY EVENING SESSION.

6.15: Chorus singing (conductor, Trevor M. Morris, of Children's Special Service Mission). 6.40: Bertha Southey Bramhall will read a poem to the wee folk—"Parable, "The Secret Door."

EVENING SESSION.

7.0: Transmission from the Holy Trinity Church—Preacher, Rev. C. G. Williams. 8.25: From the Studio—A programme of sacred and classical music, arranged by James Cousins. 9.45: News session. 9.50: Close down.

The Flight in the Night

THAT the part a broadcasting station can play in any emergency is fully realised by most people is shown by an incident which occurred on a recent Friday night. Within the space of a few minutes four telephone calls were received at the 5CL studio, and all were to the effect that an aeroplane had been heard flying over the city in the darkness. This being an unprecedented happening in Adelaide, it caused no little consternation, most people surmising that the plane was a strange one looking for a landing ground. 5CL got in touch with the Parafield aerodrome as quickly as a trunk-line call could be put through, and it was there ascertained that the plane belonged to one of the State's leading amateur pilots, who had been practising night flying, and who was just landing by the light of flares at the aerodrome.

Largest Lamp in Australia

THE largest electric lamp ever seen in Australia has reached Sydney, consigned to Philips Lamps. It is intended for use in lighthouses and the bulb is a sphere 15 inches in diameter. The lamp, standing on its base, is 2ft. 6in. high, and it gives 500 times the light of an ordinary electric lamp used in a house. If placed on a hill at Mount Victoria, it could easily be seen from Sydney. The filament consists of 12 spirals of heavy-gauge wire, the resultant coil being nearly as thick as fencing wire. When lighted, the filament makes a solid block of light, 3in. by 2in.

Local Programmes, Monday, June 3

2FC

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: Studio music. 11.0: "Big Ben"; A.P.A. and Reuter's cable services. 11.5: Close.

MIDDAY SESSION AND AFTERNOON SESSIONS.

Announcers: A. S. Cochrane and Laurence Halbert.

12.0: "Big Ben" and announcements. 12.1: Official weather forecast; rainfall. 12.3 Studio music. 12.10: Summary of news, "Sydney Morning Herald." 12.15: Rugby wireless news. 12.18: "Evening News" midday news service. 12.30: Studio music. 12.50: From Randwick—Description of the races in the running. During intervals from the studio, humorous items by Cliff Gane, and musical items by the Gleeful Three. 4.45: From the studio—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: The children's session, conducted by the "Hello Man"; letters and stories; music and entertainment. 6.40: Stock Exchange information. 6.45: Weather and shipping news. 6.48: Rugby wireless news. 6.53: Late sporting news. 7.0: "Big Ben"; late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats—(a) "Aubade Florentine" (Mazza), (b) "A La Bien Aimee" (Schutt), (c) "Folk Tune and Fiddle Dance" (Fletcher), (d) "Popular Songs" (Coates), (e) "I Love Thee" (Greig), (f) "Dreams" (Wagner).

EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

7.40: Popular music.
7.45: Programme announcements.
7.48: A record recital.
8.0: "Big Ben". To-night's feature hour—An Old Sea Salt programme; the story, told by Capt. Ree, in association with C. C. Falkner. Topical sea chantes, and a graphic description of the early days before the mast. Charles Fry's Vocal Quartette and Wilfred Thomas and Somerset D'Arcy Varna will also participate in the programme.
9.0: "Big Ben"; weather report.
9.1: Studio Orchestra, conducted by Horace Keats—
(a) Suite, "Othello" (Coldridge-Taylor).
(b) "Scherzo" from "Sonata No. 2" (Weber).
9.16: Charles Fry's Vocal Quartette.
9.26: Studio Orchestra, conducted by Horace Keats—
(a) Overture, "William Tell" (Rossini).
(b) Selection, "Sunny" (Kern).
9.46: True tales by a journalist.
9.58: Studio Orchestra, conducted by Horace Keats—
"Chopiniana" (arr. Finck).
10.8: Wilfred Thomas, basso.
10.15: Studio Orchestra, conducted by Horace Keats—
(a) "Andante in Modo di Canzono" (Tschalkowsky).
(b) "Entry of the Gods into Valhalla" (Wagner).
10.28: Late weather and to-morrow's programme.
10.30: National Anthem. Close.

2BL

MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. Chimes and announcements. News from the "Daily Telegraph Pictorial." 11.15: Studio music. 11.45: "Daily Telegraph

Pictorial" news. 12.0: G.P.O. Chimes. Special ocean forecast and weather report. 12.3: Pianoforte reproduction. 12.30: "Sun" midday news service. 12.50: Studio music. 1.15: "Sun" news service. 1.30: Studio music. 2.0: G.P.O. Chimes. Close.

AFTERNOON SESSION.

Announcers: Eric Bessemer (Studio),

Basil Kirke (Sports Ground).

Accompanist: Kathleen Roe.

2.55: Race results and announcements. 3.0: From the Sydney Sports Ground: Description of the Football Match. 3.15: From the Studio: Race results, popular items. 3.30: From the Sydney Sports Ground: Description of the Football Match. 3.45: From the Studio: Popular items. Race results. 3.55: From the Sydney Sports Ground: Description of the Football Match. 4.10: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.20: From the Studio: Race results. 4.25: From the Sydney Sports Ground: Description of the Football Match. 4.45: From the studio, sporting resume. 4.50: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 5.0: G.P.O. Chimes. Close.

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 service. 6.40: 2BL Dinner Quartette—(a) "Americana" (Thurban), (b) "A Tol" (Czibulka), (c) "A Lover's Farewell" (Jonas), (d) "Happy Moments" (Jonas), (e) "Poppy" (Jones), (d) "Andante Cantabile" (Tschalkowsky), (g) "Arabesque" (Telma). 7.7: Complete sporting and racing resume. 7.30: 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 King's Cross Theatre: The King's Cross Theatre Orchestra, conducted by Max Saunders.
8.20: From the Studio: David Craven, baritone—

(a) "To-morrow" (Keel).
(b) "Steal Away" (Negro Spiritual).
8.27: Charles Lawrence, entertainer.
8.37: Foster and Finlay, instrumentalists.
8.47: Marjorie Skill, soprano.
8.54: From the King's Cross Theatre: The King's Cross Theatre Orchestra, conducted by Max Saunders.
9.7: From the Studio: Weather report.
9.8: David Craven, baritone—
Two Salt Water Ballads:
(a) "The Wanderer's Song" (Keel).
(b) "Trade Winds" (Keel).
9.15: Foster and Finlay, instrumentalists.
9.22: Marjorie Skill, soprano.
9.29: Charles Lawrence, entertainer.
9.39: From the King's Cross Theatre: The King's Cross Theatre Orchestra, conducted by Max Saunders.
9.57: From the Studio: Billee Cresswell, popular vocalist.
10.4: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.
10.14: From the Studio: Billee Cresswell.
10.21: Late "Sun" news service.
10.28: Late weather report.
10.30: 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. 11.30: 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. 3.30: Children's session, by Uncle George. 7.0: Music. 7.30: Short talk by Mrs. Jordan. 8.0: Mr. Leon Novello, tenor. 8.7: Instrumental Trio. 8.15: Miss Heather Kinnaird, contralto. 8.22: Band selections. 8.30: Humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 8.35: Mr. Clement Hosking, baritone. 8.45: Address. 8.5: Weather report. 9.3: Violin solos. 9.11: Mr. Leon Novello, tenor. 9.23: Humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 9.28: Band selections. 9.38: Miss Heather Kinnaird, contralto. 9.48: Violin solos. 9.55: Mr. Clement Hosking, baritone. 10.5: Dance music. 10.30: Close down.

2UW

MIDDAY SESSION

12.30: Music and request items. 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. 7.45: Radio talk; hints and advice by Mr. E. Homfray. 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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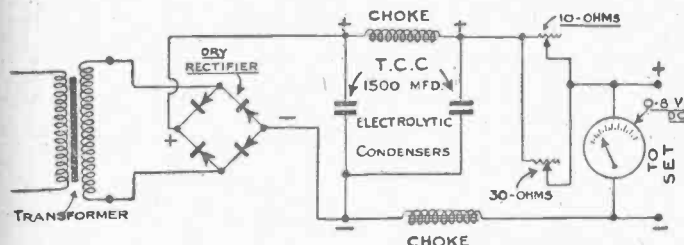
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Interstate Programmes, Monday, June 3

3LO

7.15 to 8.15: See Friday.

MORNING SESSION.

10.15: Eric Welch will speak on to-day's V.R.C. races at Flemington. 11.0: 3LO's Holiday Breakfast Dish—Eggs a la Bonne Femme.

AFTERNOON SESSION.

2.15: Recital. 2.33: Description of the Lancaster Handicap, 6 furlongs, V.R.C. races at Flemington, by Eric Welch. 3.15: Description by Rod McGregor of the football match, Melbourne v. St. Kilda, at Melbourne Cricket Ground. 3.0: Description by Mel Morris of football match, Geelong v. Essendon, at Geelong. 3.15: Description of the Prince of Wales Steeplechase, 2½ miles, V.R.C. races, at Flemington. 3.20: Quarter-time scores of the football. 3.23: Description of the football match, Melbourne v. St. Kilda, at M.C.C. 3.30: Description of the football match, Geelong v. Essendon, at Geelong. 3.35: Half-time scores. 3.38: Description of the football match, Melbourne v. St. Kilda, at M.C.C. 3.48: Description of the Birthday Handicap, 1½ miles, V.R.C. races, at Flemington. 3.55: Description of the football match, Geelong v. Essendon, at Geelong. 4.0: Sonora recital from the studio. 4.15: Description of the football match, Melbourne v. St. Kilda, at M.C.C. 4.28: Description of the cricket match, 1 mile, V.R.C. races, at Flemington. 4.35: Three-quarter time scores. 4.38: Description of the football match, Geelong v. Essendon, at Geelong. 4.50: Description of the football match, Melbourne v. St. Kilda, at M.C.C. 5.0: Description of the football match, Geelong v. Essendon, at Geelong.

NEWS SESSION.

5.18: "Herald" news service. During the afternoon results of the Colac races will be broadcast as they come to hand. 5.35: Final scores. 5.40: Close down.

CHILDREN'S HOUR.

6.0: Answers to letters and birthday greetings by "Billy Bunter." 6.25: Musical interlude. 6.30: William O. Grove, will tell the children some more about "The Peter Pan of the Pacific." 6.45: Captain Donald MacLean will tell the further adventures of some of his pet pirates.

EVENING SESSION.

7.15: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.43: Birthday greetings. 7.45: Out of the Past. 7.46: Charles Nuttall. 8.0: A Maker of History.

NIGHT SESSION.

8.1: Programme announcements.
8.2: Brunswick City Band—"God Save the King."
"Our Glorious Empire" (Rimmer).
"Songs of Enoch" (Rimmer).
8.17: Syd. Exton, tenor—"Land of Hope and Glory" (Elgar).
8.21: Brunswick City Band—Selection, "Songs of Scotland" (Round).
8.30: Madeline Knight, contralto—Songs of Old England.
8.37: Herold Kyng, basso cantante—Three "Songs of the Sea" by Stanford.
8.47: Brunswick City Band—March, "The King's Cavalier" (Rimmer).
8.54: On this anniversary of the King's Birthday 3LO has pleasure in allowing listeners an opportunity of hearing His Majesty's Voice.
8.57: Brunswick City Band—Selection, "Songs of Wales" (Round).
9.5: Dawn Assheton, coloratura soprano, and Laszio Schwartz, pianist, will present a tone poem of English music.
9.45: Brunswick City Band—Fantasy, "The Song of Youth" (Greenwood).
9.57: Syd. Exton, tenor.
10.2: News service: British official wireless news from Rugby; meteorological information; announcements.
10.12: Jack Stock, "The Woman Hater"—Explaining Why.
10.20: Brunswick City Band—Fantasia, "Oramus."
10.27: Madeline Knight, contralto—Old-time Ballads.
10.34: Ern Hall's Radio Revelers with Hugh Buxham Special request numbers.
10.42: Jack Stocks, "The Woman Hater"—"Dismal Ditties."
10.50: Ern Hall's Radio Revelers with Hugh Buxham—"Pleekin' Cotton" (Henderson).
"T'm on the Crest of a Wave" by Estell.
"Mother, I still Have You" (Jolson).
"Out of the Dawn" (Donaldson).
"Paradise and You" (Pacay).
"The Frune Song" (Cmit).
"Sincerely I Do" (Davis).
"Sally Rose" (Friend).
"It All Comes Out in the Wash" (Trent).
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: The Station Orchestra, "Martial Moments," 3.10: Clelia Genoni McNeill, soprano—"Eggs o' la," from "The Daughter of the Regiment" (Donizetti).
"Serenade in Summer" (Denza). 3.17: Dawn Assheton and Laszio Schwartz, coloratura soprano and

Hungarian violinist, Stella Sheehan at the piano. In operatic and Oriental selections. 3.57: The Station Orchestra, "Britannia's Realm" (Ronald). 4.7: Clelia Genoni McNeill, soprano—"A Heart That's Free" (Robyn). "Ay, Ay, Ay," Creole song (Freire). 4.14: The Jedral Trio (Alva Hattenbach, violin; Edna Hattenbach, cello, and John Simons, piano)—Trio, "Told at Twilight" (Buerter). "Valse Gentile" (Nevin), violin, "Caprice Viennois" (Kreisler); trio, "Interlude Orientale" (Rimsky-Korsakov), "Serenade" (Victor Herbert), cello, "Autumn Flowers" (Gopper), trio, "Valse" (Tschakowsky). 4.34: Announcements. 4.47: The Station Orchestra—"A Life on the Ocean" (Binding). "English Medley" (Somerset). 5.0: Close down.

EVENING SESSION.

6.0: Symphony. 7.10: News service; announcements. 7.20: Symphony. 7.45: All sporting results.

NIGHT SESSION.

8.0: E. C. H. Taylor will speak on—"School Life and School Sport." 8.15: Under the auspices of the Historical Society of Victoria, Chas. Daly will speak on—"The Explorers' Gippsland." 8.30: Kathleen Lascelles—"The Art of Dancing." 8.40: Studio presentation of "Gipsy Love," under the direction of William G. James, music by Franz Lehár. Jozso, a Gipsy musician, W. Bossence. Andor, an inn keeper, A. Bossence. Jonel, betrothed to Ilona, John D. Sullivan. Kajetan, a shy young man, Sydney Stubbs. Dimitreanu, Kajetan's father, Ernest Inch. Rudolph, Rollo, Richard, attendants to Lady Babsy. Dragotin, a Rumanian noble, A. Chapman. Ilona, Dragotin's daughter, Madie. Saffo Arnov. Julesa, Ilona's nurse, Ivy Carlisle. Jolan, Dragotin's niece. Zorkia, a Gipsy girl. Marischka, Andor's daughter. Lady Babsy, an English lady, Merie Griffon. Rumanian gipsy musicians, officers. 10.10: The Jedral Trio—Trio—"Sarabance" (Handel). "Bourree" (Handel). Violin—"Souvenir Poetique" (Fibich). "Schon Rosmarin" (Kreisler). Trio—"Andante" (Schubert). "Rondo" (Schubert). "Andantino" (Beethoven). 10.30: News service; announcements. 10.40: God Save the King.

4QQ

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. 6.25: Commercial announcements. 6.30: Bedtime stories, conducted by "The Sandman." News in brief; Stock Exchange news, etc. 7.45: The Children's Music Corner, conducted by "The Music Man."

NIGHT SESSION.

8.0: From the studio. The Luana Hawaiians. "Palkikko Blues." "Hilo March." 8.5: Claude Walker. Ten minutes with Henry Lawson. 8.15: The Luana Hawaiians. "Ramona." 8.20: Dorothy Sanders (soprano). "The Almond Tree" (Schumann). "Butterflies" (Seller). 8.28: Tom Muller (elocutionist). Selected. 8.35: The Luana Hawaiians. "Waikiko Melody." "Jeanie, I Dream of Lilac Time." 8.40: Irene Elphinstone (contralto). "The Love Song of Her-Dyval" (Battani). "Till I Wake" (Woodford-Finden). 8.48: The Luana Hawaiians. "Song of Hawaii." "Wailana." 8.55: Metropolitan weather forecast. 9.0: From the Stadium. Boxing championship 4 description of the annual metropolitan championship, conducted by the Queensland Amateur Boxing and Wrestling Union. 10.0: From the studio. Weather news; close down.

5CL

AFTERNOON SESSION.

12.0: Chimes. 12.1: Special late selections for Flemington races, supplied by Mr. Eric Welch, 3LO's special sporting commissioner. 12.3: Probable star-

ters and selections for Victoria Park races, supplied by "Silvius." 12.15: General news service. British official wireless news. 12.40: Railway information. Meteorological information. Flemington race results. Marlborough Hurdle Race. 12.45: Mutual interest. 12.60: From Victoria Park: Riders and positions for Dulwich Hurdle, two miles. 1.0: From Victoria Park: Running description of Dulwich Hurdle. 1.15: Flemington race result, Rothsay Trial Stakes. 1.30: From Victoria Park: Riders and positions for Hapwight Handicap, six furlongs and a half. 1.60: From Victoria Park: Running description of Hapwight Handicap. 2.0: Chimes. 2.1: Resume of previous race results. 2.10: Flemington race result, Lancaster Handicap. 2.15: From Victoria Park: Riders and positions for Alderman Cup, one mile and three-quarters. 2.20: From Victoria Park: Running description of Alderman Cup. 2.50: From Victoria Park: Riders and positions for Victoria Park Steeplechase, about three miles. 2.55: From Studee Flemington race result, Prince of Wales Steeplechase. 2.56: Description of League football. 3.0: From Victoria Park: Running description of Victoria Park Steeplechase. 3.5: From Studio: Resume of previous race results. 3.7: Description of League football. 3.23: Description of League football. 3.25: From Studio: Flemington race result, Birthday Handicap. 3.30: From Victoria Park: Riders and positions for Coalbrook Stakes. 3.35: Description of League football. 3.40: From Victoria Park: Running description of Coalbrook Stakes. 3.48: Description of League football. 4.0: Chimes. 4.1: Resume of previous race results. 4.6: Flemington race result, Cornwall Welter. 4.10: From Victoria Park: Riders and positions for Marysville Handicap. 4.15: Description of League football. 4.20: From Victoria Park: Running description of Marysville Handicap. 4.25: From Studio: Description of League football. 4.41: Description of League football. 4.50: From Victoria Park: Riders and positions for Rose Park Handicap, five furlongs. 4.55: Description of League football. 5.0: From Victoria Park: Running description of Rose Park Handicap. 5.5: Description of League football. 5.6: From Studio: Dividends on Rose Park Handicap, resume of race results, and final football scores, close down.

EVENING SESSION.

6.0: Chimes and resume of race results and football scores. 6.1: Children's happy moments. 6.30: Dinner music. 6.50: 5CL's sporting service supplied by "Silvius." 7.0: News service. 7.15: Flemington race results and final football scores. 7.1: Chimes. 7.1: Stock Exchange information. 7.1: General market reports. 7.10: Under the auspices of the South Australian Agricultural Department, a 4.55: Description of the department will speak. 7.30: 5CL Twinkler Boys' Club: An entertainment by The Twinkler" (Mr. F. J. Mills).

NIGHT SESSION.

8.0: Chimes. 8.1: Holden's Silver Band—"Song of Australia." "Kitchener's Own March" (Greenwood). Overture, "Richard III" (German). 8.11: Violet Jackson, soprano—Selections from her repertoire. 8.18: Norman Bellick, violinist—(accompanied by Lillian Keen) will play to you 8.24: Walter Wood, tenor—"There's a Lady" (Allison). "Went Thou a Slave" (Kilmer). 8.30: Holden's Silver Band—"Death of Nelson" (Brahm). 8.35: A talk on "King George V." 8.43: Gwen Collett, contralto—"Land of Hope and Glory" (Elgar). "Nothing but Love" (Clarke Jacobs-Bond). 8.52: Holden's Silver Band—Selection, "Echoes of England" (arr. Greenwood). 9.0: Chimes. 9.1: Meteorological information, including sea-phore tides. 9.2: Overseas gang report. 9.3: Angelo Demodena, mandolinist—Will play to you. 9.9: Violet Jackson, soprano—Selections from her repertoire. 9.16: Norman Bellick, violinist—(Accompanied by Lillian Keen, will play to you 9.20: Walter Wood, tenor—"Yes, Let Me Like a Soldier Fall" (Wallace). "Good Company" (Adams). 9.30: Holden's Silver Band—Descriptive, "Sailor's Life" (Arr. Cope). 9.40: A one-act drama, entitled "Waterloo," Written by Sir Arthur Conan Doyle. Produced by Beryl Alford. Characters:—Corporal Gordon Brewster, aged 96, Frank Jackson; Sergeant Archie Macdonald, R.A., Jack Ners; Colonel James Brewster, Francis Gannell; Nora Brewster, the Corporal's grand-niece, Beryl Alford. Scene: The front room in a small house in England. Above the fire is a painting of a possible military man, on one side a cutting of a newspaper framed, on the other a medal, also within a frame. In the centre, a table with a Blue Bird. Nora Brewster enters. 9.55: Angelo Demodena, mandolinist—Will play to you again. 10.1: Gwen Collett, contralto—"The Lost Chord" (Sullivan). March—"God Bless the Prince of Wales" (Richards). 10.15: General news service. 10.20: 5CL's sporting service supplied by "Silvius," including Victoria Park and Flemington race results and final football scores. 10.30: Modern dance records. 11.0: Close down.

6WF

11.0: Tune in. Gramophone and phonograph records. 11.0: Close down. 12.0: Tune in. 12.5: Soloists by Miss Audrey Dean. 12.44: March, etc. 1.0: Time signal. 1.1: Weather forecast, supplied by the Meteorological Bureau of Australia. 1.2: Close down. 1.55: Tune in. Description and results of races run at the Perth course will be broadcast during the afternoon. Musical programme from the studio. Pianist, Audrey Dean. 5.30: Approx. Close down. 6.45: Tune in. 6.48: Bedtime stories by Uncle Duffy. 7.5: Music by the Radio Trio, comprising Miss Audrey Dean, piano; Miss Edna Waterman, cello; H. T. Newton, violin. 7.30: Commercial and general information. 7.45: Talk by Lieut.-Colonel Soest, Director Zoological Gardens, South Perth. Time signal. 8.1: First weather bulletin. 8.3: Concert by the R.S.L. Band, conducted by Mr. George. 8.20: "Mystic Java," talk by Mr. J. Cowie, of the Orient Touring Co. 8.50: Late news items courtesy of "The Daily News" Newspaper Co., Ltd., and announcements, shows within race announcements, late weather bulletin. 9.5: Band concert continued. 10.30: God Save the King. 104.5 METRE TRANSMISSION. Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45.

7ZL

MIDDAY SESSION.

1.30 to 1.30: See Friday. 1.40: Description of Trial Stakes, 7 furlongs, Flemington, Victoria. Result of Marlborough Hurdle Race. 2.30: Description of Lancaster Hurdle Handicap, 6 furlongs, Flemington. 2.40: Close down.

AFTERNOON SESSION.

3.0: Transmission from the North Hobart Oval—cricket match, Cananore v. New Town. 3.15: Description of Prince of Wales Steeplechase, 2 1/2 miles, Flemington. 3.20: Cananore v. New Town. 3.30: Description of Birthday Handicap, 1 1/2 miles, Flemington. 3.55: Cananore v. New Town. 4.30: Description of Cornwall Welter, 1 mile, Flemington. 4.50: Cananore v. New Town. 4.50: All sporting results to hand. 5.0: Close down.

EARLY EVENING SESSION.

6.0: All sporting results. 6.30: "Uncle David," answers to letters and birthday greetings. 7.15: Session.

EVENING SESSION.

8.0: Under the auspices of the Tasmanian University—H. F. Tuck will speak on "Electricity in the Service of Man." 8.45: Col. L. Payne, D.S.O., V.D. will speak on "The King's Birthday." 9.0: Chimes. 9.15: A concert programme—Duos for piano and voice from Schubert, Mendelssohn, and Percy Aldridge. 10.0: News session. Close down.

7ZL Notes

"Old Whaling Days"
 W. L. CROWTHER is to come to studio 7ZL, on Wednesday, June 5, at 7.45 p.m., to speak on "The Early Days of Whaling and Shipping in Hobart Town." Dr. Crowther is a frequent lecturer to the Royal Society of Tasmania, and it is fitting that his interest should lie in the history of his native city, where his father and grandfather were so active in professional and public life.

"Trinity Sunday"

The pastoral festival of Holy Trinity Church, Hobart, will be celebrated on Sunday, June 2, by a concert given in the church in the afternoon at 3.15. 7ZL will broadcast the programme, in which are the names of some of Hobart's most distinguished musicians.

"Studio Concert"

For the concert night on Friday, June 7, beginning at 7.30 p.m., 7ZL are to present a programme in which those popular Tasmanian singers, Miss Doreen Ellison, soprano, Miss Harley Rigney, soprano, and Miss May Moore, contralto, will be joined by Mr. Wilfred Kemp, violinist.

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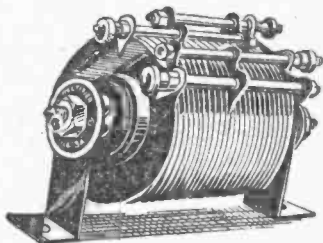
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Local Programmes, Tuesday, June 4

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 down.

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.

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: Studio music. 1.0: "Big Ben." Weather intelligence. 1.3: "Evening News" midday news service. Producers' Distributing Society's market 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." From Palling's Concert Hall: A recital by the students of Gladstone Bell. 4.0: "Big Ben." From the Studio: A reading. 4.25: Popular music. 4.45: Stock Exchange, third call. 4.47: J. G. Lockley—"I Remember." 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 Eily. Letters and stories, music and entertainment. 5.30: 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 Keals—(a) "Valse Poudree" (Poppy), (b) "The South Pacific" (Travels), (c) "Melodie" (Rachmaninoff), (d) "Sunny" (Kern), (e) "Serenade Mignonne" (Gruenfeld).

EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

7.40: Popular music.
7.45: Programme announcements.
7.48: A record recital.
8.0: "Big Ben." Metropolitan Band—
(a) Entrance, "Evening Bells" (Rimmer).
(b) Selection, "The Bohemian Girl" (Balfe).
8.20: Ernest McKinlay, tenor—
(a) "Whaka Ariki" (Hill).
(b) "The Song of the Locust" (Hill).
(c) "Titi Torea" (Hill).
(d) "He Walata Aroha" (Hill).
8.30: Metropolitan Band—
(a) Overture, "Poet and Peasant" (Suppe).
(b) Waltz, "Casino Tanze" (Gunth).
8.50: Ernest McKinlay, tenor—
(a) "Haere Tinu" (Horne).
(b) "Hine E Hine" (Te Rangī Pā).
(c) "Haere Ra" (Kaihau).
9.0: "Big Ben." Weather report.
9.1: Dagmar Roberts, pianist.
9.11: Frederick Todd, basso—a winner in the recent Radio Eisteddfod.

9.16: Metropolitan Band—
Selection, "To-night's the Night" (Rubens).
9.31: Frederick Todd, basso—a winner in the recent Radio Eisteddfod.
9.48: Dagmar Roberts, pianist.
9.58: Metropolitan Band—
(a) Fox-trot, "Forty-seven Ginger-headed Sailors" (Sarony).
(b) Patrol, "With Kilg and Sporan" (Sutton).
10.8: Late "Evening News" service.
10.15: Dance Band.
10.28: Late weather report.
10.30: Dance Band.
10.57: To-morrow's programme.
10.59: Dance Band.
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. 8.15: News and information service from "The Daily Telegraph Pictorial." 8.45: 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; talk on "The Work of the St. John Ambulance," 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. 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. Lena Murray, contralto—(a) "Prelude" (Ronald), (b) "Betty's Garden" (Sanderson). 4.7: Nancy Rouse, violinist—(a) "Nina" (Pergolesi), (b) "Elegie" (Massenet). 4.14: "Sun" news service. 4.20: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.30: From the Studio. Lena Murray, contralto—(a) "Here in the Quiet Hills" (Carne), (b) "My Message" (D'Hardelot). 4.37: Musical items. 4.40: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.50: From the Studio. Nancy Rouse, violinist—"Nocturne" (Chopin). 4.57: "Sun" news service. 5.0: G.P.O. chimes. Pianoforte reproduction. 5.15: Popular music. 5.34: Racing resume. 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 Quartet—
(a) "Rose Moresco" (Bosc), (b) "The Pink Lady" (Caryll), (c) "Sally of My Dreams" (Kernell). 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. Plim 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: A classical programme arranged by S. Vost Janssen.
Contributing artists: Rene Birkett, Connie Blomgren, Marie Dawson, Dor-

othy Fountain, Dorothy Farmer, Nell Ravens, Robert Gilbert.
Violin solo—Marie Dawson.
"Serenade D'Ambrosia."
Song—Robert Gilbert.
"Isobel" (Bridge).
Piano solo—Dorothy Farmer.
"Meditation" (Tschaiakowsky).
Songs—Nell Ravens.
(a) "Far Across the Desert Sands" (Faden).
(b) "Will the Red Sun Never Set?"
Violin solo—Connie Blomgren.
"Slumber Song" (Janssen).
Piano solo—Dorothy Fountain.
(a) "Nocturne in B Flat Major" (Paderewski).
(b) "Eccossais" (Beethoven).
Violin Solo—Rene Birkett.
(a) "Gavotte et Musette" (Tor Adami).
(b) "Slow Movement Goldmark Concerto."

9.0: G.P.O. chimes. Weather report.
9.1: "Bringa" will speak on the Aboriginals.
9.15: Second half of classical programme arranged by S. Vost Janssen.
Violin solo—Marie Dawson.
"Chanson Repos" (Asprey).
Songs—Robert Gilbert.
(a) "Oh! Weep No More" (Tschaiakowsky).

(b) "Hope, the Hornblower" (Ireland).
Piano solo—Dorothy Farmer.
(a) "Etude in C Sharp Minor" (Scriabin).
(b) "Etude in D Flat Major" (Liszt).
Nellie Ravens—Song.
"Egyptian Pottery" (Arundale).
Violin solo—Connie Blomgren.
"Rondino" (Beethoven-Kreisler).
Piano solo—Dorothy Fountain.
(a) "Nocturne C Major" (Grieg).
(b) "Cocou" (Daquin).
Violin solos—Rene Birkett.
(a) "Melody" (Dawes).
(b) "1st Movement Concerto D Minor" (Vieuxtemps).

10.15: Late "Sun" news service.
10.28: To-morrow's programme and late weather report.
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. 11.30: Music. 11.45: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Music. 3.0: Talk by Mrs. H. Wood. 3.30: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 7.10: Talk from the Radio Service Department by Mr. Stan Crittenden. 8.0: Miss Ruth Vincent, contralto. 8.7: Cello solos. 8.15: Mr. William Green, tenor. 8.23: Instrumental music. 8.30: Mr. Heath Burdock, Shakespeare recital. 8.40: Miss Gladys Verona. 8.50: Symphony orchestra. 9.0: Weather report. 9.3: Address. 9.15: Miss Ruth Vincent, contralto. 9.25: Cello solos. 9.35: Humorous Interlude by Mr. Jack Win and Mr. Heath Burdock. 9.40: Mr. William Green, tenor. 9.50: Instrumental music. 9.55: Miss Gladys Verona, soprano. 10.5: Humorous Interlude by Mr. Jack Win and Mr. Heath Burdock. 10.10: Dance music. 10.30: Close down.

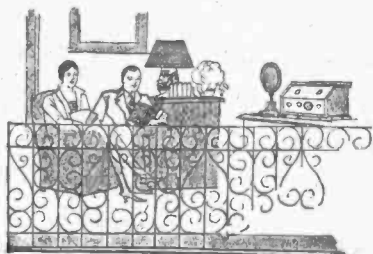
2UW

MIDDAY SESSION

12.30: Music and request items. 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. 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, Tuesday, June 4

3LO

EARLY MORNING SESSION.

7.15 to 8.15: See Friday.

MORNING SESSION.
11.0: 3LO's "Mention" dish recipe. Curried eggs.
11.5: Miss E. Dobell will speak on "Gas Cooking."
11.25: Mrs. Dorothy Silk will speak on "Homecrafts."
11.45: Miss Rose Brown will continue her "Recollections of Rolf Boldrewood." 12.0: Melbourne Observatory time signal; express train information.
12.1: British official wireless news from Rugby. Reuters and the Australian Press Association cables.
Arcus news service. 12.15: Newmarket stock sales; official report of the sheep market by the Associated Stock and Station Agents, Bourke Street, Melbourne. Luncheon music. 12.20: The Station Orchestra, overture, "Egmont" (Beethoven), "Larghetto" (Mozart). 12.30: Ciella Genoni-M'Neil, soprano, "Berceuse" (Gounod), "The Vagabond" (Bishms). 12.37: Stock Exchange information; metal prices, received by the Australian Mines and Metals Association, from the London Stock Exchange this day. 12.45: The Station Orchestra, suite, "Tin Italian" (Goldmark). 12.54: Ciella Genoni-M'Neil, soprano, "The Old Refrain" (Kreisler), selected. 1.0: Meteorological information: weather forecast for Victoria, New South Wales, South Australia, and Tasmania; ocean forecast; river reports; rainfall. 1.10: Dawn Ashteton, coloratura soprano, and Lazzio Schwartz, violin, assisted by Estella Sheehan, at the piano; folk songs and music from Many Lands. 1.50: Close down.

AFTERNOON SESSION.

2.15: The Radio Revelers, "Shivering" (Duddy), "Promise Me" (Vatou), "Ready for the Road" (Moret), "My Stormy Weather Pal" (Plantados), "What'll You Do?" (Conn). 2.30: Madoline Knight, contralto, "Saucy South Wind" (Willeby), "Spring Bang a Song" (Carne). 2.37: The Radio Revelers, "Do You" (Plantados), "Pa's Old Hat" (Guy), "Colombo" (Nichols), "Feel Heat Over Heels In Bulls" (Thack). 2.40: The Radio Revelers, "The Woman Hater," dimal ditties. 2.57: The Radio Revelers, "Sonny Boy" (Brown), "Sally of My Dreams" (Kernell), "You're a Real Sweetheart" (Friend), "The Blue Train" (Eline). 3.10: Eline Burke, soprano, selected, "A Blackbird's Song" (Sanderson). 3.17: The Radio Revelers, "Where the Cot-Cot-Clown Crows" (Kilten), "Cinnamon Cake" (Bernard), "My Fleurette" (Kimbrough), "Avalon Town" (Brown). 3.30: Oliver Peacock, baritone, "Oriental Embroidery" (Crampton), "Lass of Mine" (Wall), 3.37: "The Radio Revelers, "Shine that Thing" (Jackson), "Clad Rag Old" (Ager), "You Are Wonderful" (Ash), "There Ought to be a Law Against That" (Friend), 3.50: Madoline Knight, contralto, "When You're Away" (Sanderson), "I Love Your Eyes of Grey" (Wood). 3.57: The Radio Revelers, "The Rose of Flanders" (O'Hagen), "Oh, Ya, Ya" (Frich), "Stars are the Windows of Heaven" (Malle), "Only a Rose" (Priml). 4.10: Jack Stocks, "The Woman Hater," more dimal ditties. 4.17: The Radio Revelers, "That's Her Boy" (Ager), "The Song of the Vagabonds" (Priml), "Japansy" (Klener), 4.26: Oliver Peacock, baritone, "Fallen Leaf" (Logan), "Green Country," "Cotton Song" (Box), 4.33: The Radio Revelers, "Constantinople" (Carlton), "Minn-tonka" (Wallace), "Fireworks" (Williams). 4.42: Eline Burke, soprano, "To a Nightingale" (Sharpe), "Good Morning, Brother Suptone" (Lehman), 4.50: "Herald" news service. Stock Exchange information. 5.0: Close down.

EARLY EVENING SESSION.

6.0: "Bobby Bluegun" 6.30: Captain Donald MacLean. 6.45: "Bobby Bluegun."

EVENING SESSION.
7.15: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.43: Birthday greetings. 7.45: Out of the Past. 7.48: Under the auspices of the University of Melbourne Extension Board, N. D. Harper, E.A. Dip Ed., Tutor in History at the University, will speak on "The Cradle of the Pacific Native." 8.0: A Maker of History.

NIGHT SESSION.

8.0: Programme announcements.
8.1: "The Cingalese," and original musical play, by James Tanner. Lyrics by Adrian Ross and Percy Greenbank. Music by Lionel M'Lyton. Additional lyrics and numbers by Paul Rubens.
The story of a Cingalese maiden and a tea plantation in Ceylon.
Hon. Harry Vereker (a tea planter) John Donovan
Boobahba (a noble of Kandy) Stuart Olsson.
Sir Peter Lotius (High Commissioner) Mrs. Griffin.
Judge of Ceylon Edgar Chapple
Bobby Warren (a pupil of Vereker).
James Lloyd
Chambhuddy Ram (a Baboo lawyer) Alan Bell
Nanoya (a Cingalese girl) Rose Clayton
Peggy Sabine Merle Griffin.
Naitooma Zelma King
Sutimambi Jean M'Vee
Mischell Maisie Leanox
Somo (Four tea girls on Vereker's plantation).
Angy Lotius (Sir Peter's daughter) Maud Luke
Lady Patricia Vereker Mrs. Griffin
8.0: Dawn Ashteton, coloratura soprano, and Lazzio Schwartz, violin, assisted by Estella Sheehan at the piano.
Interpretations of traditional music from lands of romance.
9.40: The Jeds! Trio (Alva Hattenbach, violin; Edna Hattenbach, cello; John Simons, piano).
Three Miniatures:
"Menuetto" (Bridge).
"Clavette."
"Allegretto."
Edna Hattenbach, cello.
"Coronach" (Barratt).

The Trio:
"Red Sarafan" (Verlanov).
"Mazurka" (Glinka).
"The Old Strain" (Brandt-Kreisler).
10.10: News service. Meteorological information. British official wireless news from Rugby. Eric Welch's selections for the Werthebe races.
10.20: The Station Orchestra—Selection, "Hit the Deck" (Youmans).
10.30: Jack Stocks, "The Woman Hater"—"Popular Favorites."
10.37: Ern Hall's Radio Revelers with Hugh Huxham—
"Fireworks" (Williams).
"Roses of Yesterday" (Berlin).
"Jo-Anne" (Ward).
10.47: Jack Stocks, "The Woman Hater"—"Hating Hard."
10.55: Ern Hall's Radio Revelers, with Hugh Huxham—
"Gipsy" (Gilbert).
"Honey" (Simons).
"Flower of Love."
"When the Right One Comes Along" (Gilbert).
"When I Was With a Silver Lining" (Sharman).
"One Alone" (Romberg).
"Just Give the Southland to Me" (Sissel).
"The Desert Song" (Romberg).
"A Room With a View" (Coward).
"What a Girl" (Sanders).
11.30: God Save the King.

3AR

10.0 to 10.29: See Friday.

MORNING MUSICAL SESSION.
11.0 to 12.30: See Friday.

AFTERNOON SESSION.
3.0: The Strad Trio, Trio Op 164" (Reisiger, Moderato-Schirzo-Andante-Pinale. 3.25: Beautiful Ballads. 3.40: Myra Montague, piano, "Humoresque" (York Bowen), "Kleiner Waltz" (Carteno). 3.51: Frank Johnstone, cello, "Andante Cantabile" (Tartini), "Guitar" (Moszkowski). 4.6: The Strad Trio, "Folk Song and Fiddle Dance" (Fletcher). 5.0: Close down.

EVENING SESSION.
8.0: Orchestra. 7.10: News service, announcements.

NIGHT SESSION.
8.0: Mme. Soward—
"A Talk to Students of French."
8.15: A. W. Jackson will speak on "Golf."
8.30: Announcements.
8.32: A night with Tenynson, by Dr. Frank Nyulasy. Tenynson as Poet.
Introduction.
Song, "The Poet's Song," C. Evans, baritone.
Early poems.
England and America.
Love and duty.
Tenynson as humorist.
Humorous poems and anecdotes.
A contract—the pathetic story of "Enoch Arden."
Quartette, "Sweet and Low" (Barnaby). J. D. Sullivan, tenor; C. E. Evans, baritone; Molly Mackay, soprano; Diana Belmont, contralto.
The poet again.
"Locksley Hall" and "Lucretius."
The Herald Melody of the Higher Education of Women.
Songs from "The Princess."
1. "Tutty Tutty" heard Through Rolling
Drums" (Berger), E. Evans, baritone.
2. "Now Sleeps the Crimson Petal" (Quilter).
3. Molly Mackay, soprano.
Dramatic Recitation.
"A Tale of the Ancient Druids" Daisy Bradley, elocutionist.
Introduction to "In Memoriam."
Tenynson as Philosopher.
Illustrated by "In Memoriam," and other poems.
Song, "Ring Out Wild Bells," J. D. Sullivan, tenor.
The Gospel of Modern Thought.
Strong Song of Cog-Immortal Love.
A Lyrical Monodrama.
Song, "Come Into the Garden, Maud" (Balfie), J. D. Sullivan, tenor.
The Romantic Idylls of the Kings and the Knights of the Round Table.
Song, "The Philosopher" Song" (Joachim), C. Evans, baritone.
The Fairest, Tenderest, Purest Love-Story in the English Language.
Song, "The Novice's Song," Diana Belmont, contralto.
"Gulnareve and the Passing of Arthur."
Tenynson as Dramatist.
The Making of England, illustrated by "Harold," "Becket," and "Queen Mary."
Dramatic Poems.
Recitation, "Ode to Wellington," Claude Hall.
The Crown of the Poet's Life Work.
Song, "Crossing the Bar" (Behrend), C. Evans, baritone.
The Final Poems.
The Spirit of Poetry.
Peroration.
10.40: News service. Announcements.
10.45: God Save the King.

4QG

EARLY MORNING SESSION.
7.45 to 8.30: See Friday.

MORNING SESSION
11 to 12: See Friday.

MIDDAY SESSION
1.0 to 2.0: See Friday.

AFTERNOON SESSION.
3.0 to 4.30: See Friday.

EARLY EVENING SESSION.
6.0: From the studio Mail train running time information; shipping news. 6.5: A Travel by Mr. J. W. Hayes (organiser, Australian Music Travel Association), 6.15: Records. 6.25: Commercial announcements. 6.30: The Children's Bedtime stories conducted by "Uncle Ben." 7.1: News in brief. 7.5: Stock Exchange news, etc. 7.6: Lecture, "Photography," by Mr. P. L. South (manager, Kodak, Ltd.).

NIGHT SESSION.
8.0: A classical programme by Mr. Archie Duff-Farty.
Beatrice Pugh (soprano).
"Serenade" (Strauss).
"Orpheus with His Lute" (German).
"Blue Buttery" (Dickson).
Archie Day (pianist).
"Caprice" (Gluck-Saint-Saens).
Fred Homer (baritone).
"Fai Across the Desert Sands" (Woodward-Finden).
"At Nightfall" (Woodford-Finden).
"Allah Be With You" (Woodford-Finden).
Morris Gran (violinist).
"Siciliano and Rigaudon" (Francour-Kraus).
"Impromptu in G Major" (Schubert).
Beatrice Pugh and Fred Homer.
Vocal—selected.
Beatrice Pugh (soprano).
"My Sweet Repose" (Schubert).
"Who is Sylvia" (Schubert).
Archie Day (pianist).
"Ballade in D Minor" (Brahms).
Fred Homer (baritone).
"Humorous of the Roses" (Coleridge-Taylor).
"Life and Death" (Coleridge-Taylor).
"Friendships" (Herman Loh).
Morris Gran and Archie Day.
Duet for violin and piano, "Sonata in B Minor" (Handel).
8.0: Metropolitan weather forecast.
9.1: "Another and Monument."
Another argument.
9.16: Mrs. Robert Bell (soprano).
"Marie Marie."
"Kentucky Babe."
"Pale Moon" (Knight Logan).
9.22: The Sandman and his mouth organ in accordion.
9.30: A recital of electrically-reproduced records.
10.0: Weather news; news service for distant listeners. Close down.

5CL

MORNING SESSION.
11.0 to 2.0: See Friday.

AFTERNOON SESSION.
Announcer: C. J. O'Connor. 3.0: Chimes 1: Red Hot Pepper's Dance Band. 3.10: Rev. O. I. Halse. 3.25: Red Hot Pepper's Dance Band. 3.35: Violet ackson, soprano. 3.42: Phyllis Deane, jazz pianiste. 3.48: Laurie Ramsay, bass-baritone. 3.55: Mervyn Williams, whistler. 4.1: Red Hot Pepper's Dance Band. 4.15: Violet Jackson, soprano. 4.22: Phyllis Delaine, jazz pianiste. 4.28: Laurie Ramsay, bass-baritone. 4.35: Mervyn Williams, whistler. 4.41: Red Hot Pepper's Dance Band. 4.45: Stock Exchange information. 5.0: Close down.

EVENING SESSION.
6.0: Chimes. 6.1: Children's happy moments. 6.30: Mr. Horace Perkins, Mus. Bac. A.M.U.A., assisted by Miss Mary Edson, soprano, will tell us "How Music is Made." 6.50: 5CL's Sporting Series, supplied by "Sivius." 7.1: Stock Exchange information. 7.6: General Market reports. 7.10: Rev. O. I. Halse. 7.15: "The Art of Dancing." 7.20: R. C. Bald, Ph.D. (Lecturer in English at the Adelaide University) will give a talk on "Charles Lamb." 7.30: Herbert Basedow in an interesting Australian talk.

NIGHT SESSION.
8.0: Chimes.
8.1: Studio Orchestra, conducted by Lisette Popa. Overture, "Magic Flute" (Mozart).
Melodie, "Gentle Love" (Bendix).
8.11: Edna Lawrence, contralto—
"Daddy Boy" (Old Irish Air).
"Dusk of Dream" (Martini).
8.18: Jean Finlay and Tom King will play "Cocerto in A Minor" (Grieg). First movement. Piano. 8.20: Tom King, Organist. Orchestral part. Second piano, played by Jean Finlay.
8.28: Syd Morell, baritone—
"The Inn" (Schubert).
"The Song" (Schubert).
8.35: Studio Orchestra—
Selection, "Hit the Deck" (Youmans).
8.42: Violet Jackson, soprano.
8.48: Ansgo Demodens, mandolinist.
8.53: Herbert King, tenor—
"The Garden of Your Heart" (Dore).
"Parted" (Tosti).
9.0: G.P.O. chimes.
9.1: Meteorological information, including temperature tides.
9.2: Overseas grain report.
9.3: Studio Orchestra—
Selection, "The Five O'Clock Girl."
9.10: Edna Lawrence, contralto—

"Little Hut of Dreams" (Dudley Glass).
 "Sink, Red Sun" (Teresa del Riego).
 9.17: A violin recital by Vera Jurs—
 "Allegro Moderato" (De Beriot).
 "Bourgeois" (Spohr).
 "Gipsy Dances" (Sarasate).
 9.31: Syd. Morrell, baritone—
 "The Wayfarer's Night Song" (Easthope).
 "Crown of the Year" (Martin).
 9.39: Angelo Demodena, mandolinist.
 9.45: Violet Jackson, soprano.
 9.52: Jean Finlay and Tom King will play "Concerto in A Minor" (Grieg). Second and Third Movements. First piano played by Jean Finlay. Second piano, orchestral part, played by Tom King.
 10.2: Herbert King, tenor—
 "God Touched the Rose" (Mary Brown).
 "Watchman, What of the Night" (Sargeant).
 10.9: Studio Orchestra—
 Selection, "Gilbert and Sullivan."
 10.15: General news service; British official wireless news; meteorological information; announcements.
 10.30: Modern dance records.
 11.0: Close down.

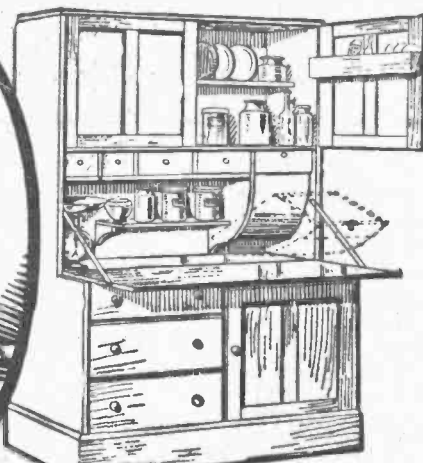
6WF

10.0: Tune in. Gramophone and phonograph records from the studio. 11.0: Close down. 12.30: Tune in. 12.35: Markets, news, etc. 1.0: Time signal. 1.1: Weather bulletin, supplied by the Meteorological Bureau of West 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, including pianoforte solos by Miss Audrey Dean, and violin solos by Mr. Frank Romaine. 4.30: Close down. 6.45: Tune in. 6.48: Bedtime stories by Uncle Duffy. 7.8: Light music by the Radio Trio. 7.30: Commercial and general information. 7.45: Talk by Dr. J. S. Batye, B.A. LL.B. 8.0: Time signal. 8.1: First weather bulletin. 8.3: Variety 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: God Save the King. 10.45: 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: A popular hour with Pianola and Columbia. 4.15: An educational talk on "Refrigeration—South African Modern Methods of Fruit Refrigeration." 4.30: Close down.
EARLY EVENING SESSION.
 6.15: Broadcasts. 8.30: "The Story Lady." 7.0: Answers to letters and birthday greetings, by "Uncle David" and "The Story Lady." 7.15: News session.
EVENING SESSION.
 7.30: A gas cookery talk by "Regulo."
 7.45: W. E. Puller 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).
 "Rose of Flanders" (O'Hagan).
 "Me, and the Man in the Moon" (Monaco)
 Alfred O'Shea, baritone—
 "Little Town in Ould County Down."
 "Macushla" (Rowe).
 Reg. Jones and his Orchestra—
 "I Fell Head Over Heels in Love"
 "My Mother's Eyes."
 "All by Yourself in the Moonlight"
 Edna Thornton, contralto—
 "For Every Day" (Russell).
 Reg. Jones and his Orchestra—
 "Promise Me" (Van Cooth).
 "Sally of My Dreams" (Kennell).
 "Glad Rag Doll" (Ager).
 Edna Thornton, contralto—
 "Vale"—Farewell (Russell).
 Reg. Jones and his Orchestra—
 "One Alone" (Romberg).
 "I Loved You Then" (M'Donald).
 "That's Her Now" (Ager).
 Robert Radford, baritone—
 "When I Was a Tiny Boy" (Nicolas).
 Reg. Jones and his Orchestra—
 "Rainbow Round My Shoulders."
 "Believe" (Kahn).
 "Out of the Dawn" (Donaldson).
 Robert Radford, baritone—
 "Trees."
 Reg. Jones and his Orchestra—
 "Blackbirds are Bluebirds Now" (Baer).
 "High Upon the Hill Top" (Wayne).
 "Desert Song" (Romberg).
 Harry Lauder, baritone—
 "Ohio" (Lauder).
 "Sound Advice" (Lauder).
 Circolo Mandolinist Giuseppe—
 "Turn to Surriento" (de Curtis).
 9.45: News session.
 10.0: Chimes.
 10.1: Close down.



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NAME

ADDRESS

Wireless, 31/5/29.

Local Programmes, Wednesday, June 5

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 markets; mining sharemarkets; metal quotations: wool sales; breadstuffs markets; inter-State markets; produce market. 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 Victoria Park will be transmitted as received. 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: From Pitt Street Congregational Church: An Organ Recital arranged by Lillian Frost. 2.0: "Big Ben." Close.

AFTERNOON SESSION.

Announcer: Laurence Halbert.
Accompanist: Ewart Chapple.
2.30: Programme announcements. 2.32: Record recital. 3.0: "Big Ben." Popular music. 3.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 3.40: From the Studio, Peggy Bell, soprano. 3.47: A reading. 4.13: James Walker, pianist: "Ballade in G Minor" (Chopin). 4.23: Peggy Bell, soprano. 4.30: C. S. Yarwood will give a talk on "Food Shortage—1789-92." 4.45: James Walker, pianist:—(a) "Valse in E Minor" (Chopin). (b) "Scherzo in E Minor" (Mendelssohn). 4.55: 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," assisted by Uncle Ted and Sandy. Letters and stories. Music and entertainment. 6.30: Dalgely's market reports (wheat, wool, 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) "The Wedding Dance" (Linck). (b) "The Piddler of June" (Elliot), (c) "Salut d'Amour" (Elgar), (d) "Stop Flirting" (Gershwin). (e) "Romance" (Rubenstein).

EVENING SESSION.

Announcer: Laurence Halbert.
Accompanist: Ewart Chapple.
7.40: Popular music.
7.45: Programme announcements.
7.48: A record, recital.
8.0: "Big Ben." Dagmar Thomson—a classical programme arranged by Dagmar Thomson.
Assisting artists:
Alexander Sverjensky.
Jules Van der Klei.
William Dallison.
Virginia Bassetti.
Accompanist: Ewart Chapple.
9.0: "Big Ben." Weather report.
9.1: Brunton Gibb will continue his topical talks, "Oh, By the Way." Dagmar Thomson—second half of the classical programme arranged by Dagmar Thomson.
10.15: Late "Evening News" service.
10.25: To-morrow's programme.
10.28: Late weather.
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. 8.15: News and information service from the "Daily Telegraph Pictorial." 8.45: 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. Craufield. 12.0: G.P.O. chimes. Special ocean forecast and weather report. Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. Studio music. 1.30: Talk to children and special entertainment for children in hospital. 2.0: G.P.O. chimes. Close. Note: Race results from Victoria Park 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. Popular music. 3.50: Studio music. 4.0: G.P.O. chimes. Millie Hansen, soprano. 4.7: Basil Kirke will speak on "Japan and its People." 4.22: Edward Evans, baritone—(a) "For Remembrance" (Woolmer). (b) "Border Ballad" (Cowan). 4.29: Studio music. 4.40: Millie Hansen, soprano. 4.47: Studio items. 4.53: Edward Evans, baritone—(a) "Sergeant of the Line" (Squire). (b) "Parted" (Tosti). 5.0: G.P.O. chimes. "Sun" news service. 5.5: Pianoforte reproduction. 5.20: Popular music. 5.24: Racing resume. 5.37: Features of the evening's programme.

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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) "Wine, Women, and Song" (Strauss). (b) "Ballet Suite—The Shoe" (Ansell). (c) "Little Lady of the Moon" (Coates). (d) "Serenade" (Toselli). (e) "Rusticanella" (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. 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 Capitol Theatre.
8.7: From the Studio—The H. W. Varna Company will produce Oscar Wilde's "A Woman of No Importance."
Cast: Lady Hunstanton, Cleo Glover.
Mr. Alonby, Betty Wall.
Hester Worsley, Miss Stenning.

Gerald Arbutnot, William Hume Alice (maid), Miss Cory.
Mrs. Arbutnot, Muriel Conner.
Lord Illingworth, H. W. Varna.
Act 1: Drawing-room at Lady Hunstanton's.

Act 2: The same.
Act 3: Sitting-room at Mrs. Arbutnot's.
9.7: Weather report.
9.8: Theodore Atkinson, baritone—
(a) "Son of Mine" (Wallace).
(b) "An Eriskay Love Lilt" (Fraser).
9.15: Charles Fry, pianoforte solos.
9.23: From the Capitol Theatre—Stage presentation.
9.36: From the Studio—Claude Corber will speak on "General Sporting."
9.51: Graham and Manning, entertainers.
10.1: Theodore Atkinson, baritone—
(a) "Yeomen of England" (German).
(b) "Follow Me 'Ome" (Kipling).
10.8: Charles Fry, pianoforte solos.
10.17: Graham and Manning, entertainers.
10.27: Late weather report.
10.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.
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. Bennett. 11.45: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Music. 3.0: Labor-saving demonstration from Nock and Kirby. 4.0: Close down. 5.30: Children's session, by Uncle George. 7.0: Music. 7.30: Show talk by Miss Beegling. 8.0: Mr. H. Campbell, tenor. 8.7: Flute quartette. 8.1: Miss Thelma Lansdowne, contralto. 8.15: Instrumental music. 8.30: Humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 8.35: Mr. Clifford Lathlean, baritone. 8.50: Address. 9.0: Weather report. 9.3: Band selections. 9.13: Mr. H. Campbell, tenor. 9.23: Humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 9.28: Band selections. 9.38: Miss Dorcas Rainton, soprano. 9.48: Instrumental music. 9.55: Miss Thelma Lansdowne, contralto. 10.5: Orchestral music. 10.30: Close down.

2UW

MIDDAY SESSION

12.30: Music and request items. 1.0: G.P.O. clock and chimes; music. 1.15: Talk on Homecraft by "Pandora." 1.40: Music and request items. 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. 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.

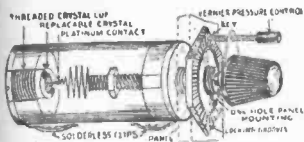
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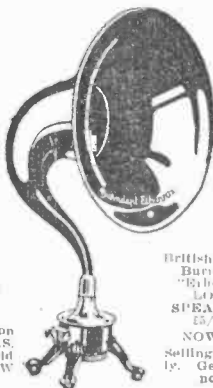


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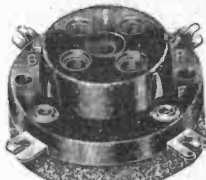


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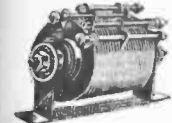
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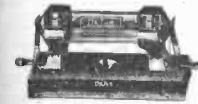
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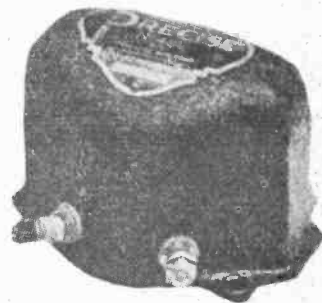


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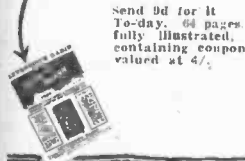


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Interstate Programmes, Wednesday, June 5

3LO

EARLY MORNING SESSION.

7.15 to 8.15: See Friday.

MORNING SESSION.

11.0: 3LO's Afternoon Tea. Trifles—Ruby Cakes.
11.5: Mrs. Henrietta C. Walker will speak on "The Church Bazaar." 11.25: Mrs. M. Callaway Mahoud will speak on "The Art of Decoration." 11.45: Mrs. Clarence Webber will speak on "Physical Culture for Women."

MIDDAY NEWS SESSION.

12.0: Melbourne Observatory time signal; express train information. 12.1: British official wireless news from Rugby; Reuters' and the Australian Press Association cables. "Argus" news service. 12.15: New-market stock sales; cattle sales report, bullocks and calves, by the Associated Stock and Station Agents, Bourke Street, Melbourne. Luncheon music. 12.30: The Radio Revelers—"All Comes Out in the Wash" (Frenz). "Rio Rita" (Tierney). "The Kink-a-Jinks" (Tierney). 12.29: Madoline Knight, contralto, "Old-time Ballads." 12.36: Stock Exchange information; metal prices received in the way from the London Stock Exchange by the Australian Mines and Metals Association. 12.42: The Radio Revelers—"My Mother's Eyes" (Baer). "Next to Me I Like Me Next to You" (Blitz). 12.50: Jack Stocks, The Woman Hater—"Sch Stuff." 12.57: The Radio Revelers—"Anywhere is Heaven" (Brady). "Down Where the Sun Goes Down" (Jones). 1.3: Meteorological information; weather forecasts, New South Wales, Victoria, South Australia, and Tasmania; ocean forecasts; river reports; rainfall. 1.10: Madoline Knight, contralto—"Old-time Melodies." 1.17: The Radio Revelers—"Can You Elame Me" (Goodwin). "I Want to be Alone with My Brown" (Leahle). 1.24: Jack Stocks, The Woman Hater, weary waltzes. 1.30: Transmission from the Freemasons' Hall, Collins Street, Melbourne, subject: Rotary Club luncheon. 1.58: Description by Eric Welch of the Burdie Race. 2 miles, Ballarat Turf Club races. 2.5: Close down.

AFTERNOON SESSION.

2.15: The Station Orchestra—Overture, "Rossamunde" (Schubert). 2.23: Clelia Genoni M'Neill, soprano—"Don't Run game" from "Lucia di Lammermoor" (Donizetti). 2.28: Description of the Trial Handicap, Ballarat Turf Club races, by Eric Welch. 2.35: The Station Orchestra—"Fantasia" (Schubert). 2.50: Guildford Bishop, violin—"Berceuse" (Jarnfield). "Serenata" (Toselli). 2.58: Description of the Forest Handicap, one mile, Ballarat Turf Club races. 3.5: Dawn Asheton, coloratura soprano, and Luzzio Schwartz, violinist, assisted by Estella Sheehan, piano—Interpretations of folk and character songs from many countries. 3.26: Description of the Brush Steeplechase, 2 miles, Ballarat Turf Club races. 3.35: Dawn Asheton, coloratura soprano, and Luzzio Schwartz, violin, with Estella Sheehan at the piano, will continue their recital. 3.40: The Station Orchestra—Selection of songs by Eric Coates. 3.45: Clelia Genoni M'Neill, soprano—"Solveig's Song" (Oring). "Obstination" (Poncellini). 3.52: The Station Orchestra—"Intermezzo Pittoresque" (Kocian). 3.58: Description of the Welter Handicap, 7 furlongs, Ballarat Turf Club races. 4.5: The Jedral Trio—"Allegro from C Minor Trio" (Mendelssohn); John Simons, piano—"Andante Cantabile" (Mozart); The Trio, "Walter's Prize Song" (Wagner); "Hungarian Dance" (Brahms). 4.28: Description of the Flying Handicap, coloratura soprano, and Luzzio Schwartz, violin, assisted by Estella Sheehan at the piano, will continue their recital. 4.30: The Station Orchestra—Selection, "Queen High" (Gensler). "Lied" (Mahler). 4.50: News service; Stock Exchange information; announcements. 5.0: Close down.

EARLY EVENING SESSION.

6.0: Birthday greetings and answers to letters by "Bobby Bluegrass." 6.30: Under the auspices of the National Safety Council of Australia, H. J. Book will tell the children about "Roller Bears and the Safety-Way Tribe." 6.48: Captain Donald MacLean, moré Firate Adventures.

EVENING SESSION.

7.5: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.45: Birthday greetings. 7.45: Out of the Past. 7.46: Under the auspices of the Department of Agriculture, R. J. de C. Talbot, Veterinary Officer, will speak on "Mineral Deficiency in Live Stock."

NIGHT SESSION.

8.01: Programme announcements. The Station Orchestra—Overture, "Semiratis" (Rossini). Largo from "Sonata, Op. 10 (Beethoven). 8.15: Dawn Asheton, coloratura soprano, and Luzzio Schwartz, violin, assisted by Estella Sheehan at the piano, in their unique and interesting recitals of Folk and Character Songs from many romantic countries. 8.55: The Station Orchestra—"Fantasia" (Delibes). 9.5: The Postal Institute Choir (conductor, George English). 9.35: Lindsay Biggins, piano—"The Moonlight Sonata," two movements (Beethoven). "Two Pages" (Gretchaninoff). "Passepied" (Delibes). "Cradle Song" (M'Dowell). "Moment Musical" (Rachmaninoff). "Capriccio" (Borzy-Korsakov). "Zephyr" (Mozzkowsky). 10.0: News service; British official wireless news from Rugby; meteorological information; announcements.

10.10: Guy Moore, tenor—"Ahl Moon of my Delight" (Lehmann). "Star Vleino" (Rosal). 10.17: The Station Orchestra—"The Desert Song" (Romberg). 10.27: Guy Moore, tenor—"O, Flower of all the World" (Woodford-Findley). "One Golden Day" (Pogner). 10.34: Err. Hall's Radio Revelers with Hugh Huxham—"You Ought to Hear Olaf Laugh" (Baer). "Mexican Serenade" (Terese). "Down by the Old Front Gate" (Kassal). 10.45: Jack Stocks, The Woman Hater—"More of His Reasons." 10.56: Err. Hall's Radio Revelers with Hugh Huxham "I Don't Know Why I Do It" (Vall). "Hun and Strun" (Meyer). "Maybe I'm Wrong" (Harris). "Constantinople" (Carlton). "My Angelina" (Wayne). "There's a Rainbow round by Shoulder" (Johnson). "Dada, Dada" (Dore). "Oh, Is She Mad at Me?" (Friend). "High upon a Hilltop" (Baer). "When Love Comes Stealing" (Rapee). 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. 3.20: Albert Sammons, violin, and William Murdoch, pianoforte. "The Kreutzer Sonata in A Major" (Beethoven). Op. 47, in ten parts. 3.50: Ballads. 4.30: Close down.

EVENING SESSION.

6.0: Ballads. 7.10: News service, announcements. 7.20: Music.

NIGHT SESSION.

8.0: Captain C. H. Peters—"Books, Wine, and Otherwise." 8.15: A talk will be given under the auspices of the Boy Scouts' Association. 8.30: Visitors' Night in the Shearers' Hut—**OLD CHARLIE, THE COOK** Harold Collier
Jim Stocks, the Ringer Tom Windburn
Billy the Boy, a Station Hand Madoline Knight
Dick Williams, a shearer, Guildford Bishop
Miss Collins and Miss Russell, Visitors at the Station. Madoline Knight and Marion Lightfoot.
Mr. Lancaster, a Squatter.
Tubby Blinks, Jackeroo. Oliver Peacock
Old Mr. Pherson. Capt. Donald MacLean.
The scene opens with the hum of voices, snatches of song, tuning of a fiddle—for tea is over, and the men are lounging about, talking, reading, and playing cards.
9.30: Clelia Genoni M'Neill, soprano—Selections from Operas.
9.37: The Jedral Trio (Aliva Hattenbach, violin; Edna Hattenbach, cello; and John Simons, piano)—"Finale from C Minor Trio" (Mendelssohn). Piano Solo—"Signe from B Flat Partita" (Bach). "Allemande" (Rameau). Trio, "Andante Melodique" (Danaei). "Vivage" (Godard).
10.7: Clelia Genoni M'Neill, soprano.
10.14: News service; announcements; God Save the King.

4QG

EARLY MORNING SESSION.
7.43 to 8.30: See Friday.

MORNING SESSION.

11 to 12: See Friday.

MIDDAY SESSION.

1 to 2: See Friday.

AFTERNOON SESSION.

3.0 to 4.30: See Friday.

EARLY EVENING SESSION.

6.0: Mail train running times; mail information; shipping news. 6.8: Dinner music. 6.25: Commercial announcements. 6.30: The Children's Hour; bedtime stories, conducted by "Little Miss Brisbane." 7.0: News in brief. 7.5: Stock Exchange, news, etc. 7.45: Lecture, arranged by the Queensland Agricultural High School and College.

NIGHT SESSION.

BRISBANE COMIC OPERA COMPANY.
During the first portion of to-night's programme selected musical numbers from "The Country Girl," produced by the Brisbane Comic Opera Company, will be relayed from the Cremorne Theatre. Dance numbers by Alf Featherstone and his Studio Orchestra will be broadcast from the studio between these items.
8.0: Dance music, interspersed with selected items from "The Country Girl."
9.0: Meteorological weather forecast.
9.1: Movements of lighthouse steamers.
9.4: Alf Featherstone's Dance Orchestra. Jazz-waltz, "Rose of Planders" (O'Hagen). 9.10: Doris M'Innes (soprano). "Sometimes in Summer" (Bennetty).

"I Love to Hear You Singing" (Wood).
9.20: Alf Featherstone's Dance Orchestra. Fox-trot, "If I Had You" (Shapiro).
9.25: Fox-trot, "My Southern Home" (Sholont).
9.30: J. P. Cornwall (bass).
"Nirvana" (Stephen Adams).
"The Tides" (Bowen).
9.40: Alf Featherstone's Dance Orchestra. Fox-trot, "I'm Sorry, Sally" (Florida).
9.45: Fox-trot, "You're Wonderful" (Fields).
9.50: Lillian Conley (contralto).
"The Second Minuet" (Besley).
"Land of the Long Ago" (Ray).
10.0: News; weather news. Close down.

5CL

11.0 to 2.0: See Friday.

AFTERNOON SESSION.

3.0: Chimes. 3.1: Recume of race results. 1.3 Jack Fester and his Broadcasting Band, featuring a programme of old-time ballads and popular songs—(a) Overture, "Old Time College Song" (Waltz). "After the Ball Was Over" (C. Nelson). "Somewhere" (C) Chorus song, "The Girl in the Clogs and Shawl." (E) March song, "Cupid is the Captain of the Army." 3.30: Violet Jackson, soprano, will sing two old-time songs. 3.36: Gus Nixon, trumpeter, will play—(a) "In Happy Moments Day by Day." (b) "Scenes That are Brightest." 3.40: A query—What instrument is the worst when played upon by beginning youngsters? 3.42: At the piano, Jack Fester in old-time songs—(a) "These Songs My Mother Used to Sing." (b) Old-time popular song choruses. 4.0: G.P.O. Chimes. 4.1: Recume of race results. 4.2: Bracketed saxophone music played by Leslie Mitchell. (a) "Ben Bolt." (b) Marguerite. 4.9: Violet Jackson, soprano, will sing to you again. 4.16: "Stripper" Australian song series—(a) "The Team." (b) "Yarus." 4.20: The Melody Boys, instrumental duettists—(a) "1200 Dream is O'er, Farewell." (b) "Whisper and a Sweet Heart." 4.28: Oscar Fester and his Broadcasting Band—(a) "Kilmarney." (b) "Silver Threads and the Gold." (c) "All Alone." (d) "Sally." (e) "The Sands of the Desert Gorge Cold." 4.36: Stock Exchange information. 5.0: Chimes and recume of race results. Close down.

EVENING SESSION.

6.0: Chimes. 6.1: Children's Happy Moments. 6.30: Dinner music. 6.50: 5CL's Sporting Service supplied by "Silvius." 7.1: Stock Exchange information. 7.5: General market reports. 7.50: Royal Kieft, M.A. B.O. will speak on "Good Luck, Bess." 7.25: Boy Scouts' Corner. 7.40: 5CL Bird Girls' Club.

NIGHT SESSION.

8.0: Chimes. 8.1: Jean Finlay, pianist—Overture, "Scherzo in B Minor" (Chopin). 8.8: Violet Jackson, soprano—Selections from her repertoire. 8.15: Reed and Harding, Hawaiian Duo, in an exciting Hawaiian music. 8.21: Fred Williamson, tenor—"Come into the Garden Maud" (Balfet). "Goodnight, Beloved" (Balfet). 8.28: Ronnie Rambles Round—Typical topical talk. 8.35: Helena Fisher, violinist (Miss Fisher will play on a genuine Strad violin). 8.41: Ellen Efford, contralto—"A Summer Night" (Goring-Thomas). 8.45: Bream and Harding, Hawaiian Duo. 8.48: A one-act play, Characters—James Sheehan the man, Stephen Dunks; Sophie, the woman, Purnas Tier. Scene: A hotel apartment. Time, Evening. The play opens, the shepherdman's voice is heard speaking at the phone. 8.53: Meteorological information, including Synoptic reports. 9.4: Overseas grain report. 9.5: Jean Finlay, pianist—Two studies, "Butterfly" (Chopin). "Black Note" (Chopin). 9.12: Violet Jackson, soprano. 9.19: Reed and Harding, Hawaiian Duo. 9.25: Fred Williamson, tenor—"Bream and Harding" (Chopin). "Crying Waters" (Hamblin). 9.32: Ronnie Rambles Round. 9.39: Helena Fisher, violinist—(Miss Fisher will play on a genuine Strad violin). 9.45: Ellen Efford, contralto—"Since We Parted" (Allitsen). "A Slumber Song of the Madonna" (Mittani Head). 9.52: P. H. Nicholls and Hesse Francis. 10.9: Jean Finlay, pianist—"On Wings of Song" (Mendelssohn). "Two Larks" (Leschetizky). 10.15: General News Service; British official wireless news; meteorological information; announcements. 10.20: 5CL's Sporting Service, supplied by "Silvius." Including Ballarat race results. 10.30: Modern dance records. 11.0: Chimes.

6WF

10.0: Tune in Gramophone and phonograph records from the studio. 11.0: Close down. 11.8: Tune in. 12.35: Markets, news, etc. 1.2: Tune signals. 1.1: News service, supplied by the Meteorological Bureau of West Australia. 1.3: Talk by Dr. Winifred Holloway, of London. 1.4: Music. 1.30: Close down. 2.30: Tune in. 1.35: Relay of afternoon tea programme from the Fraser

Cafe de Luxe. Items by the Misses Marshall and Chapman. 4.30: Close down. 6.45: Tune in. 6.48: Kidtime stories by Uncle Dudy. 7.5: Light music by the Radio Trio. 7.30: Commercial and general information. 7.45: Talk on a popular science, by Mr. Hal McKail. 8.0: Time signal. 8.1: First weather bulletin. 8.3: A relay of the programme of the Humphrey Bishop Musical Comedy Co. from Theatre Royal, Perth. 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: God Save the King.

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. 3.1: Musical selections. 3.4: Weather information. 3.5: Musical selections. 4.15: Readings. 4.30: Close down.

EARLY EVENING SESSION.

6.15: Musical selections. 6.30: Bertha Southey Brammall will tell a Tasmanian fairy tale to the wee folk. "The Magical Magpie." 6.43: Musical selections. 7.0: Answers to letters and birthday greetings by Bertha Southey Brammall. 7.5: Musical selections. 7.15: News session.

EVENING SESSION.

7.30: Dr. W. L. Crowther will speak on—"The Early Whaling and Shipping of Hobart Town."

7.45: Geo. Nation will speak on—"Gardening."

8.0: Chimes. 8.5: Recital of instrumental and vocal items by leading international artists, specially arranged by Paton's Music Warehouse. 9.45: News session. 10.0: Chimes. 10.1: Close down.

7ZL

Thursday, June 6

MIDDAY SESSION.

11.30: Selections. 11.34: Midlands weather forecast. 11.35: Adeline Eager will speak on "Beauty Parlor Hints." 11.55: Tasmanian stations, 9 a.m. weather report. 12.0: Chimes. 12.1: Shipping information; ships within wireless range; mail notices; housewives' guide; commercial news. 12.8: Selections. 12.11: British official wireless news. 12.20: Selections. 12.25: Announcements. 12.33: Selections. 2.5: Recital of instrumental and vocal items by leading international artists, specially arranged by Paton's Music Warehouse. 3.0: Chimes. 3.1: Selections. 3.4: Weather information. 3.5: Selections. 3.15: A popular and classical programme by the Discus Ensemble. 4.15: A representative of the Child Welfare Association will speak on, "Giving Extras." 4.30: Close down.

AFTERNOON SESSION.

3.0: Chimes. 3.1: Selections. 3.4: Weather information. 3.5: Selections. 3.15: A popular and classical programme by the Discus Ensemble. 4.15: A representative of the Child Welfare Association will speak on, "Giving Extras." 4.30: Close down.

EARLY EVENING SESSION.

6.15: Selections. 6.30: "The Story Lady" will tell a story to the little ones. 6.45: Harold Ellis will recite to the wee folk, "The World." "Nod." 7.0: Answers to letters and birthday greetings by "Uncle David." 7.5: Selections. 7.15: News session.

EVENING SESSION.

7.30: V. Elliston will speak on—"Tasmania for Tourists."

7.45: W. Angus will give a talk on—"The Oozlum Bird."

8.0: Chimes.

8.5: Selections by the Melody Masters

8.15: 7ZL's Old Time Night

Alla Polacca Orchestra (interspersed with gramophone records).

Alla Polacca Orchestra—Waltz, "Old Sweet Story" (Oldford).

Elsie Baker, contralto—"Old Folks at Home" (Foster).

Alla Polacca Orchestra—Schottische, "Honey Bees" (Richmond).

Peter Dawson, baritone—"Thou Art Passing Hence" (Sullivan).

Alla Polacca Orchestra—Valeta, "Masquerade" (Kessler).

Cecil Sherwood, tenor—"Speak" (Tosti).

Alla Polacca Orchestra—Lancers, "Popularity" (Ganz).

Peter Dawson, baritone—"Trooper Johnny Ludlow" (Temple).

Alla Polacca Orchestra—Varsoviana, "Varsoviana."

Peter Dawson, baritone—"Follow Me Home" (Higgs).

Alla Polacca Orchestra—Polka, "Dixie" (Rolf).

Peter Dawson, baritone—"The Deathless Army" (Tretter).

Alla Polacca Orchestra—Waltz, "Blue Danube" (Strauss).

Cecil Sherwood, tenor—"Till I Forget You" (Ball).

Alla Polacca Orchestra—Barn dance, "Rinking" (Poole).

Alfred Luster, baritone—"The Village Fire Brigade."

Alla Polacca Orchestra—Highland Schottische, "Keel Row."

Alfred Luster, baritone—"The Scene Shifter's Lament."

Alla Polacca Orchestra—Waltz, "Honeymoon Waltz."

10.0: G.P.O. clock chimes the hour.

10.1: News session. Close down.



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FARMER'S

Pitt, Market and George Streets

Local Programmes, Thursday, June 6

2FC

EARLY MORNING SESSION.

Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfall; river report; 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 down.

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. 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: 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. 1.50: Last minute sporting information by the 2FC Racing Commissioner. 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. 3.15: Avicé Garth, mezzo—(a) "A Brown Bird Singing" (Wood), (b) "Orpheus with His Lute" (Sullivan). 3.22: Studio items. 3.38: Mavis Dearman, soprano. 3.45: A reading. 4.10: Avicé Garth, mezzo. (a) "Ships That Pass in the Night" (Stephenson), (b) "The Little Damsel" (Novello). 4.17: Studio music. 4.30: Vera Keogh. 4.45: Stock Exchange, third call. 4.47: Mavis Dearman, soprano. 4.54: Studio 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. 5.50: Dalgety's market reports (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) "Penelope's Garden" (Ancliffe), (b) "Sweetheart Time" (Gaboroche), (c) "Reminiscences of Greig" (arr. Godfrey), (d) O Star of Eve" (Wagner), (e) "Moonlight" (Finck).

EVENING SESSION.

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

7.40: Popular music. 7.45: Programme announcements. 7.48: A record recital. 8.0: "Big Ben." Theatre Orchestra. 8.20: From the Studio: Heather Bell, soprano—(a) "Dedication" (Schumann), (b) "A Voice from the Woods" (Schumann). (c) "Impatience" (Schubert). 8.27: Eleanor Ross will render—"X-O" (a play in blank verse) (John Drinkwater). 8.45: Vincent Aspey, violinist—(a) "Introduction, Et. Tarentelle" (Saraste), (b) "Cradle Song" (Schubert). 8.52: Laurance Macaulay, baritone.

9.0: "Big Ben." Weather report. Theatre Orchestra.

9.15: From the Studio: Heather Bell, soprano—

- (a) "Boat Song" (Stanford).
- (b) "Grace for Light" (Harty).
- (c) "The Snow Drop" (Gretchaninof).

9.22: Eleanor Ross—

"The Bells" (Edgar Allan Poe).

9.29: Vincent Aspey, violinist—

- (a) "By the Sea" (Schubert).
- (b) "Tambourin" (Gossec).
- (c) "Song Without Words" (Mendelssohn).

9.38: Laurance Macaulay, baritone.

9.46: Theatre Orchestra.

10.0: "Big Ben." Late "Evening News" service.

10.28: Late weather report.

10.30: Dance Band.

10.57: To-morrow's programme.

10.59: Dance Band.

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. 8.15: News and information service from the "Daily Telegraph Pictorial." 8.45: 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: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.40: "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. Programme announcements. 3.47: Popular music. 3.50: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.0: G.P.O. Chimes. Hilda Nelson, soprano. 4.7: Studio items. 4.20: Jeannette Rooney, contralto. 4.27: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.37: Hilda Nelson, soprano. 4.44: "Sun" news service. 4.50: Jeannette Rooney, contralto. 4.57: Musical items. 5.7: "Sun" news service. 5.12: Pianoforte reproduction. 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) "Moonlight in Rio" (Wertheimer), (b) "Rose Marie" (Primm), (c) "Reverie" (Macdowell), (d) "March of the Toys" (Herbert). 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. The North Sydney Tramway Band. 8.20: Dulcie Starkey, soprano—

(a) "The Lass with the Delicate Air" (Arne).

(b) "Have You Seen but a White Lily Grow" (Old English, arr. by LL).

8.27: The North Sydney Tramway Band. 8.35: Lawrence Broadbent, basso—

(a) "The Wedding of Sara Lee" (Martini).

(b) "In Summer Time on Bredon" (Pell).

8.43: Dorothy Nall, in a sketch.

8.50: The North Sydney Tramway Band.

9.5: Weather report.

9.6: 2BL interviews to-night's personality.

9.18: Dulcie Starkey, soprano—

(a) "In the Deep Silence of the Night" (Phillips).

(b) "My Dreamland Rose" (Phillips).

9.25: Dorothy Nall, in a sketch.

9.33: The North Sydney Tramway Band.

9.48: Lawrence Broadbent, basso—

(a) "Up From Somerset" (Sanderson).

(b) "When the Gray of the Sky" (Sterling).

9.55: The North Sydney Tramway Band.

10.10: Late evening news service.

10.20: A musical item.

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. 11.30: 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. 3.30: Children's session, by Uncle George. 7.0: Music. 7.30: Feature story. 8.0: Miss Elsie Peerless, soprano. 8.7: Harpsichord solos. 8.15: Mr. Victor Earle, baritone. 8.25: Band selections. 8.30: Mr. Jack Win and Miss Nora Windle in a dramatic sketch. 8.40: Instrumental music. 8.50: Madame Bennett North, contralto. 9.0: Weather report. 9.3: Address. 9.15: Miss Elsie Peerless, soprano. 9.25: Harpsichord solos. 9.55: Mr. Jack Win and Miss Nora Windle in a humorous sketch. 9.45: Mr. Victor Earle, baritone. 9.55: Band selections. 10.0: Madame Bennett North, contralto. 10.5: Orchestral music. 10.30: Close down.

2UW

MIDDAY SESSION

12.30: Music and request items. 1.0: G.P.O. clock and chimes; music. 1.15: Talk on Homecraft, by "Pandora." 1.40: Music and request items. 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. 8.50: Music and 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, Thursday, June 6

3LO

EARLY MORNING SESSION.

7.10 to 8.15: See Friday last.
 8.15: To-day's Radio Recipe—Matton outlets a la Maintenance. 11.3: Captain Donald Maclean will continue his series, "Famous Women of History." 11.25: Miss B. Macaulay will continue her interesting chats on "Temperament." This week's talk will deal with the emotional type. 11.45: Matron Moreland will speak on "Mothercraft."

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 report, bullocks and calves, by the Associated Stock and Station Agents, Bourke Street, Melbourne. 11.5: Miss Olga Parker will speak on "Rose Pyleman's Fairy Verses." 11.25: Doreen Berry will speak on "England in the Spring." 11.45: Under the auspices of the National Safety Council of Australia, H. J. Book will speak on "Some Aspects of Safety."

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; entries for the market for Tuesday, Wednesday, and Thursday by the Associated Stock and Station Agents, Bourke Street, Melbourne. 12.20: Community singing, transmitted from the King's Theatre, Russell Street, Melbourne (conductor, G. J. Mackay), assisted by Ern. Hall's Radio Revelers with Hugh Huxham. 12.40: Stock Exchange information; prices received this day from the London Stock Exchange by the Australian Mines and Metals Association. 12.43: Community singing resumed. 1.45: Meteorological information; weather forecast for Victoria, South Australia, New South Wales, and Tasmania; ocean forecasts, river reports, rainfall. 12.30: Community singing, transmitted from the King's Theatre, Russell Street, Melbourne (conductor, Frank Hatherley); Ern. Hall's Radio Revelers with Hugh Huxham; Jack Stocks, "The Woman Hater"; Madeline Knight. 1.40: Stock Exchange information; prices received this day from the London Stock Exchange by the Australian Mines and Metals Association. 12.43: Community singing resumed. 1.45: Meteorological information; weather forecast for Victoria, South Australia, New South Wales, and Tasmania; ocean forecasts, river reports, rainfall. 1.55: Close down.

AFTERNOON SESSION.

2.15: The Station Orchestra—Southern Rhapsody (Holmes). 2.25: Clita Genoni McNeill, soprano—"Egli a L'u" (The Daughter of the Regiment) (Donizetti). "Serenade in Summer" (Denza). 2.32: The Station Orchestra—Suite, "From the Country" (Costa). "Idyll" (Lack). 2.45: Dr. Loftus Hills speaks on "The Topics of the Week." 3.0: Fritz Hart will speak to students of music. 3.15: The Station Orchestra (Bertha Jorgensen, violin; Tsama, cello; Dorothy Scarborough, viola; Myrtle Robertson, violin)—"Quartette No. 1 in A Minor" (Schumann), illustrating Mr. Hart's talk on music. 3.30: Rev. Wm. Bottomley will continue his series of William Morris' epic in verse, "Sigurd, the Volung." 3.45: The Station Orchestra—Selection, "Gipsy Love" (Lehar), "Mirage" (Eric Coates). 4.0: Dawn Asheton, coloratura soprano, and Estella Sheehan at the piano—Interpretations of Hungarian and Slavonic folk songs and music. 4.35: News service; Stock Exchange information. 4.45: Evensonson transmitted from Victoria's Cathedral, Melbourne. 5.30: Acceptances and barrier positions for the Moonee Valley races to be held on Saturday, June 8. 5.35: Close down.

EARLY EVENING SESSION.

6.0: Birthdays greetings. 6.30: Captain Donald Maclean. 6.45: "Bobby Bluegum."

EVENING SESSION.

7.5: Stock Exchange information. 7.15: Market reports. 7.30: News session. 7.43: Birthday greetings. 7.45: Out of the Gate. 7.46: A Dressing-room Talk. 8.0: Aaker of History.

NIGHT SESSION.

8.1: Programme announcements.
 8.2: Rod. M'Gregor will speak on "Football."
 8.15: Ern. Hall's Radio Revelers with Hugh Huxham. "Shake the Thing" (Jackson). "Glad Rag Doll" (Ager). "You Are Wonderful" (Ash). "Jenny" (Willeby).
 8.24: Guy Moore, tenor—
 "The Radio Revelers—
 "There ought to be a Law against That" (Fend).
 "The Rose of Planders" (O'Hagen).
 "Oh, Ya, Ya" (Frich).
 8.36: Madeline Knight, contralto—
 "Just a Little Dream House" (Cowen).
 8.39: The Radio Revelers—
 "Stars are the Windows of Heaven" (Malle).
 "Only a Rose" (Frim).
 "That's Her Now" (Ager).
 8.48: Jack Stocks, "The Woman Hater"—
 "Experience Teaches."
 8.51: The Radio Revelers—
 "Song of the Ragabonds" (Frim).
 "Japan" (Kerner).
 "Constantinople" (Carlton).
 9.0: Guy Moore, tenor—
 "My Little Bangle" (Dielman).
 9.3: The Radio Revelers—
 "Minnetonka" (Wallace).

"Fireworks" (Williams).
 "Roses of Yesterday" (Berlin).
 9.12: Madeline Knight, contralto—
 "Sometime in my Dreams" (d'Hardelot).
 9.15: The Radio Revelers—
 "Jo-Anne" (Ward).
 "Gypsy" (Gilbert).
 "Home" (Simons).
 9.24: Jack Stocks, "The Woman Hater"—
 Dismal Ditties.
 9.27: The Radio Revelers—
 "Flower of Love."
 "When the Right One Comes Along" (Gilbert).
 "Wear a Hat with a Silver Lining" (Sherman).
 9.36: Guy Moore, tenor—
 "I Had a Flower" (Kellie).
 9.39: The Radio Revelers—
 "One Alone" (Romberg).
 "Just Give the Southland to Me" (Sissell).
 "The Desert Song" (Romberg).
 9.48: Madeline Knight, contralto—
 "Crowning Water" (Del Riego).
 9.51: The Radio Revelers—
 "A Room with a View" (Coward).
 "What a Girl" (Sanders).
 "Dynamic" (Henderson).
 10.0: News service; meteorological information; British official wireless news from Rugby; announcements.
 10.15: The Radio Revelers—
 "The Dance of the Blue Danube" (Fischer).
 "Rose Time" (Moussorgsky).
 "Me and the Man in the Moon" (Monaco).
 10.24: Jack Stocks, "The Woman Hater"—
 Hymn of Hate.
 10.27: The Radio Revelers—
 "When You Said Goodnight" (Donaldson).
 "Dooley, Dooley, Do!" (Sherwin).
 "Counting the Milestones" (Tilsey).
 10.36: Guy Moore, tenor—
 "Trooper Johnny Ludlow" (Temple).
 10.39: The Radio Revelers—
 "My Starlight" (Rose).
 "Daybreak" (Evans).
 "Eve'sing" (Doody).
 10.48: Madeline Knight, contralto—
 "Golden Dancing Days" (Clarks).
 10.51: The Radio Revelers—
 "Promise Me" (Aul. Cooth).
 "Ready for the River" (Moret).
 "My Stormy Weather Pal" (Plantadosi).
 11.1: The Radio Revelers—
 "What'll You Do?" (Cohn).
 "Do You" (Plantadosi).
 "Pa's Old Hat" (Plantadosi).
 "Colombo" (Wielhos).
 "I Fell Head over Heels in Love" (Thayer).
 "Sonny Boy" (Brown).
 "Sally of my Dreams" (Kernell).
 "You're a Real Sweetheart" (Friend).
 "The Tin Tro" (Fonso).
 "Where the Cot-Cot-Cotton Grows" (Klien).
 11.30: God Save the King.

3AR

10.0 to 10.59: See Friday.
 11.0 to 12.30: See Friday.
MORNING MUSICAL SESSION.
 3.0: Balads. 3.30: The Jodal Trio (Alva Hattenbach, violin; Edna Hattenbach, cello; John Simons, piano). Trio, "Admire Expressive" (Grom G Minor (Mendelssohn). "Scherzo" (Mendelssohn). Piano, "Allemande" (Rameau). "Calling of the Birds, Trio, "Gavotte" (Martini). "Spanish Dance No. 2" (Moszkowski). 4.0: Beautiful Balads. 4.30: Close down.
EVENING SESSION.
 6.0: A Mill Race of Melody. 7.10: News service Announcements. Acceptances and barrier positions for Moonee Valley races on Saturday. 7.25: Melody.
NIGHT SESSION.
 8.0: Dr. Loftus Hills
 "Life's Facts and Fancies."
 8.15: Under the auspices of the Nurserymen and Seedsmen's Association of Victoria, Edward Wiseman will speak on
 "Planting Roses."
 8.30: Dawn Asheton, coloratura soprano, and Laszlo Schwarz, Hungarian violinist, Estella Sheehan at the piano—
 Hungarian and Slavonic Art Songs.
 9.10: Studio presentation of "Romeo and Juliet" by "The Mestlersingers" (under the direction of J. Sutton Crow).

4QG

Part I.
 Romeo John D. Sullivan
 Juliet Miss Elsie Davies
 Stephano Stella Dredge
 Capulet Charles Evans
 Mercutio Charles Evans
 Friar Lawrence Alan Eddy
 Paris Alan Eddy
 Gertrude Sybil Shaw
 Tybalt R. Whiteaw
 10.10: The Jodal Trio.
 Trio, "Entr'acte" "Rosamond" (Schubert).
 "Polish Dance" (Scharwenka).
 Violin solo, "Romance" (Wieniawski).
 "Polchellene" (Kreisler).
 Trio, "A Tear" (Moussorgsky).
 "Once Upon a Time" (Lind).
 "Valse" (Godecke-Fayal).
 10.30: News service. Announcements.
 10.40: God Save the King.
EARLY MORNING SESSION.
 7.43 to 8.30: See Friday.
MORNING SESSION.
 11 to 12: See Friday.

MIDDAY 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: Some electrically-reproduced concert. 6.25: Concert announcements. 6.30: News stories, conducted by "The Sunday" News in brief. 7.5: Stock Exchange news. 7.45: Lecture, "Talk on Dairying" by Mr. C. F. McGrath, Chief Dairy Supervisor.

NIGHT SESSION.

8.0: A programme by the Brisbane Municipal concert band. From the band room.
 The Band.
 Overture, "The Wedding Ring" (Barnard).
 Mrs. P. Knott.
 "The Carnival" (Molloy).
 The Band.
 Fantasia, "Harry Lauder's Songs" (Hume).
 D. Drogny.
 Saxophone solo, "Valse Vanity."
 E. Higginbotham (baritone).
 "Good Fellows" (Molloy).
 The Band.
 Waltz, "Wedding of the Winds" (Hall).
 H. Callaghan.
 Xylophone solo, "Constellation."
 Mrs. P. Knott (contralto).
 "Teach Me to Live" (Liddle).
 E. T. Selby, jun.
 "Home, Sweet Home"
 9.0: From the studio.
 Metropolitan weather forecast.
 Movements of Dental Clinic.
 From the bandroom. The Band.
 Selection, "The Bohemian Girl" (Bale).
 F. Jones (violinist).
 "Nocturne Celebra" (Chopin).
 The Band.
 Descriptive piece, "Dance Negre" (Ascher).
 Mrs. P. Knott (vocalist).
 "Musical" (Puccini).
 H. Doyle.
 Clarinet solo selected.
 The Band.
 Waltz, "Sapana" (Waldteufel).
 E. Higginbotham (baritone).
 "The Charmed Cup" (Roehel).
 The Band.
 "The Best Seat for the Weary."
 Winifred Haslam (contralto).
 "Who is Sylvia?" (Schubert).
 The Band.
 Humoresque, "Cock Robin and Co."
 10.0: News; weather news; close down.

5CL

MORNING SESSION.

11.0 to 2.0: See Friday.

AFTERNOON SESSION.

3.0: Chimes. 3.1: Station Quartette—Overture "Quest of the Nile" (Aster) valse, "Ma Ma" (Kennedy). 3.10: Rev. C. N. Field, "A Church Talk." 3.25: Station Quartette, "In My Dream Garden" (Keleby). 3.30: Violet Jackson, soprano. 3.35: William Davey, tenor. 3.40: Phyllis (Larkin), "I Loved You Tien" (woods). 3.45: Mrs. Warden, baritone. "Captain Mac" (Sanderson). "The In" (Spross). "There's a Rainbow" (Germ). 3.55: Phyllis Everett, contralto—"The Ballad Monger" (Basthpe Martin). "Brown Bird Singing" (Haydn Wood). 4.0: "Tommy" (Wilson). 4.05: Violet Jackson, soprano. 4.10: Phyllis Everett, contralto. 4.15: Violet Jackson, soprano. 4.21: William Davey, tenor. 4.25: Violet Jackson, soprano. 4.30: Station Quartette—Javotte. "The way to the Heart" (Larkin). 4.35: Phyllis Everett, contralto—"Annie Lakin" (Lehmann). "To You" (Speaks). 4.43: J. T. Whistler. 4.48: Station Quartette. 4.55: Stock Exchange Information. 5.0: Close down.
EVENING SESSION.
 6.0: Chimes. 6.1: Children's happy moments. 6.15: Little tour for little people. Miss Bessie Grant. 6.20: Alexander Hore-Rutheyn, Station Quartette. 6.25: Alexander Hore-Rutheyn, Station Quartette. 6.30: Alexander Hore-Rutheyn, the Lord and Lady Marston the Lord Bishop of Adelaide, and the heads of all the Churches. Dr. Georgina Street, National President of the Y.M.C.A. Mr. P. Thomas, National President of the Y.M.C.A. Mr. J. J. Virgo, C.S.A. Soloist: Miss Aileen Newlyn, soprano.
 6.45: From 5CL Studio, Station Quartette—
 Fox trot, "Never Mind" (Bread).
 Melodie, "Roses and Memories" (Snyder).
 6.52: Violet Jackson, soprano.
 6.55: William Davey, tenor. 7.00: Phyllis Everett, contralto. 7.05: Mad. Marcalle Berardi, "French for All." 7.10: Mr. M. Whiteburn, hints to poultry breeders.
NIGHT SESSION.
 8.0: Chimes. 8.1: From the Exhibition Building Jubilee Celebration of the Y.M.C.A. and Y.W.C.A. In the presence of his Excellency the Governor, Sir Alexander Hore-Rutheyn, an interesting intermission. 8.15: Alexander Hore-Rutheyn, the Lord and Lady Marston the Lord Bishop of Adelaide, and the heads of all the Churches. Dr. Georgina Street, National President of the Y.M.C.A. Mr. P. Thomas, National President of the Y.M.C.A. Mr. J. J. Virgo, C.S.A. Soloist: Miss Aileen Newlyn, soprano.
 8.25: From 5CL Studio, Station Quartette—
 Fox trot, "Never Mind" (Bread).
 Melodie, "Roses and Memories" (Snyder).
 8.32: Violet Jackson, soprano.
 8.35: William Davey, tenor. 8.40: Phyllis Everett, contralto. 8.45: Jack Burgess and his ukulele.
 9.51: Station Quartette—
 Fantasy, "Peacock Land" (Marsden).
 9.55: Violet Jackson, soprano.
 10.2: Williams and Smith, banjoists.
 10.8: Jack Burgess and his ukulele.
 10.15: Station Quartette.
 10.18: General news service. British official wireless news; meteorological information; announcements.
 10.30: Modern dance records, H.M.V. records.
 11.0: Close down.

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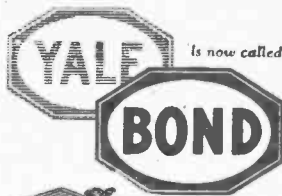
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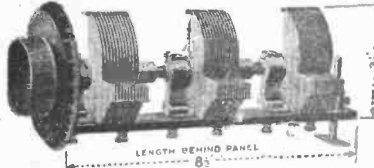
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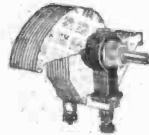
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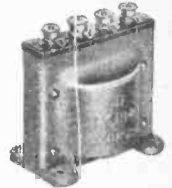


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The WIRELESS WEEKLY

RADIO INFORMATION

Under the direction of

Ray Allsop

and

Don B. Knock

Service

Correspondence Answered

only through

these

Columns

A.L.C. (Toowoomba).—Either set. Both the same regards circuit. Six-sixty, Philips, Marconi. Or on any well-known type valve. Speaker not present. Pick one to suit your ear. Philips and Marconi valves not so heavy on current consumption.

"STATIC" (Trarigle).—Re Jack, no, not the same. Use of transformer 5-1. 20 ohm resistance.

A.E.D. (Hannam Vale).—No, unless the batteries are shorted whilst using them, they should be O.K. Write to the agents.

"MUG" (Brisbane).—To tell us the receiver will do work is too brief a description for us to work on.

E.S. (Lithgow).—JOBK (Japan).

A.L.E.S. (Victoria).—You have been enrolled as a regular member of the "Proving Radio Club." You must get the best possible reception on short waves with large condensers. See the difference you can get at present in use.

A.C. (Artarmon).—See the Selectacrys, which appeared last week.

M.K. (Roseville).—Connect the aerial lead-in to the side of the condenser, and the other side of the condenser to the aerial terminal of the set. This does not fix your trouble, a variable condenser of 0005 mfd. might be found better, and, failing this, a wave trap will be necessary.

F.R. (Newtown).—May be necessary to adjust grid when making the change-over. Also try adjustments to plate voltage. Valves mentioned O.K.

A.C. (Elizabeth Bay).—I must publish your letter. I have just put a hook on my one valve set, and my splendid results, but not sufficiently strong for a speaker. Could you please advise me as to whether it would be successful if I were to add another hook? I am enclosing diagram with the hook on. Answer: Yes, add another hook.

L.P. (Newtown).—Try a wave trap.

N.S. (Newcastle).—Open grid circuit. Look to grid condenser, leak, and valve socket. See that valve properly seated, and connections to condenser O.K.

F. SPENDER, 3 Vicar Street, Coogee, inquires if my reader can supply him with "WIRELESS WEEKLY" containing the Air Scout.

F.S. (Coogee).—See above. No, Renown Three is better to A.C. would not be as good as Air Scout.

A.L. (Victoria).—Didn't see your other letter. Yes, Jack, pleased to have a look at it. Yes, you're right. Will consider your suggestion. Space is scarce at present. You're wrong about coil dope. Where possible, we give instructions for making your own coils, but if, in our opinion, the coils are too hard for the beginner to make, he is advised (where possible) to purchase ready-made coils. Remember we want all our receivers to be successful. Some of the home-made coil kits are positively atrocious. No wonder the sets won't work. No wonder queries flow in by the hundred. It would be better still to leave out instructions for making coils altogether (from our point of view), but, of course, there are many who can make an efficient set, and it is for these that the instructions appear.

A.B.L. (Drouin).—This firm not now in existence. Have they any successors?

F.S. (Ulmarah).—Too high voltage on plate of S.G. valve, or poor transformers.

G.L. (Grenfell).—See Supplement in this issue.

J.H. (Druumoyne).—Sorry, cannot advise. I have been one of several hundred stations.

F.M. (Queensland).—That was 2FC's harmonic. First description of the coils was followed out in radioes. Not enough details to judge where the mistake may lie.

G. (Henley).—Yes, they may both be worked off one power point. You will find a connection diagram underneath the Trickle Charger.

A.A. (Blackhurst).—To which circuit do you refer?

A.G.H. (Albion Park).—Wiring diagram is given in "The Go-Getter" is a three valve receiver. It was republished quite recently.

C.H. (Leadville).—Connect three 4½-volt "C" batteries in series, with the negative terminal to the right. These batteries have three terminals each. The first terminal from the left will be positive, the next C negative 3 volts, and the next C negative 4½ volts. The other terminals will give

negative bias in the following order:—7½, 9, 12, 13½.

W.S.M. (Cremorne).—No space at present. Write again when you see questions as well as answers are being given.

J.W.C. (Randwick).—We don't reply by post. Circuit O.K. Re A.C., you are right to a certain extent. A.C. must not be used on the plates. The reason will be obvious if you have read "Proving Radio." Suggest all A.C. valves. There will probably be slight hum. Use smoother and filter circuit for filament supply. A bell transformer will step down the voltage.

H.M. (Lecton).—Someone has been pulling your leg (or, perhaps you're trying to pull ours?). The person who told you it would be illegal to make your own "B" eliminator, and would HAVE to buy one, certainly got a bite out of you. The idea applies only to electrical work in connection with buildings, etc., such as interference with power lines, telephones, and the like.

C.W. (Oatley).—Re Go-Getter and eliminator. Don't advise the combination. Lewcos coils O.K. Shielding, yes. Any type S.G. valve with a filament voltage characteristic equal to those of the receiver. Use as R.F. stage. Valves and transformers O.K. Other transformers should be 5-1. Use it in first stage.

W.A. (Roseville).—Sorry, we have no data. It is a new A.C. valve, by Philips. Advise you to write them. That's all much for the copies. See this issue for an All-Electric set.

E.J. (Druumoyne).—UX280 O.K. Pull wave rectifier. Glad you like the Renown.

A.K. (Bellevue Hill).—Go-Getter is better than this. Republished recently. Maple. "CRITIC" (Brisbane).—Try shunting various capacity fixed condensers speaker output terminals. If this does not help, best plan would be to use a cone type speaker of the large type.

R.W.M.J. (Westworthville).—Connect the two leads from the microphone to the primary of your first transformer. For telephone, connect microphone to primary of a modulation transformer, then carry the lead wires from the secondary of this transformer to the secondary of another modulation transformer at the receiving end. The primary of this should be connected to the receiver. A six-volt battery should be placed in series with the microphone at the transmitting end, and another in series with the receiver at the receiving end.

A.E.P. (Wahroonga).—First stage A425, second A415, third B406, fourth A409.

J.B. (Eden-vale).—Your congratulatory letter received O.K. for which receive our thanks, but the letter referred to as containing queries cannot be found. Always pin coupon and loose papers together, otherwise they are likely to go astray. Please repeat queries.

R.W. (Neutral Bay).—Probably interaction between grid and plate wires, or too high voltage on plate of valve. If these are adjusted and are O.K., trouble may be due to incorrect resistance of grid leak or faulty valve.

W.D.A. (Concord).—Jacks O.K. You will have to experiment to find the best valve grid leak. May be anything from 2-6 megohms. O.P. is plate. IP is B plus, IS is grid, and OS is filament. No, do not advise you to use the meter. It is only a matter of current.

F. R. Nadin, 21 Wemyss St., Marrickville, urgently requires a copy of the recipe recently published in "Wireless Weekly" in connection with celluloid cement. Can any reader oblige with this copy or with an account of the recipe, please?

L. Smith, c/o P. Powell, "Morella," Valgett asks if any reader can supply him with "Wireless Weekly" dated May 3 and 10. (Sorry we have no copies left, Mr. Smith.)

J. R. Canley Vale).—Only 15-volt. Arcturus. New Systems Telephones and Cables, Ltd.

C.C. (Newtown).—Economic Radio Co. are only other people. Parts obtainable for receiver mentioned at Colville Moore, Economic Radio, Price's Radio Store, Levenson's, Harringtons, Home Recreations, United Distributors, Miss Wallace's Radio Shop, Resco Radio, Noyes Bros., Farmer's, Ltd., Electricity Meter Manufacturing Co., Mick Slumous, A.W.A., etc., etc. About £12. N.G. as all-electric set. O.K. for B.C. band, but too much hum on S.V.

W.H.J. (Druumoyne).—No, two stages of transformer audio amplification constitute a practical unit. Another stage would cause distortion. Add

a stage of R.F., when it will be a Marco Four, which is very efficient on Inter-State reception. Marco Four published February 1, 1929.

G.C.C. (Burwood).—Quite O.K. Cannot supply other information unless advise what type valves are being used.

F.A. (Kurri Kurri).—Valve combination O.K. S.G. 75-80, 120 volts on plate. The terminal on top of the valve is the plate connection. Power unit mentioned will be O.K. for use with set. 90 volts insufficient. Use at least 120 volts. R.F. coil not matching. Experiment with number of turns. Use potentiometer return for grid leak—this will eliminate backlash.

A.G. (Marrickville).—Same as for Go-Getter.

C.W. (Wallerong).—Fading is not fault of set. It is a natural occurrence, for which there is as yet no good remedy. "A" battery may be flat. This would cause signals to fade away almost as soon as set is switched on. Build Marco Four. Published February 1, 1929. No room in these columns to give full constructional details of Marco.

W.J.H. (Woodstock).—Try change of detector valve, and try changing grid return. No coils such as those mentioned by you on market.

F.P. (Boolaroo).—Faulty resistance or grid leak you can't buy less than 80z. in any of the Sydney shops.

W.C.P.S. (Katoomba).—Coils same as used in S.G. Midget Four.

C.A.R. (Manly Vale).—Transformer from O.K. for sounder, as per "Proving Radio."

J.L.S. (Manly).—Chemists will supply paraffin wax, sodium carbonate, mercury, nickel, and zinc. Sheet brass, brass wire, etc., from iron firm, such as Scrutton's.

W.A.P. (St. Marys).—The super, as it stands, is N.G. for S.W. See Mr. Allsop's article on the Relay Superhet. S.W. receiver.

V.V.E. (Burwood).—Good reception. Sorry, no space to publish your letter at present.

L. Perkins. —Because your case was exceptional and very urgent, we wrote you a five-page letter, which was returned by the post-office. The address given by you was apparently incomplete. A blue print was enclosed with the letter. Will hold it for a week. Please send full address and stamped, addressed envelope.

A.D.V. (Christchurch).—Good reception. May use your letter at a later date.

W.M. (Cardiff).—No wonder! The secondary of an audio transformer is not much good as a filter choke. You have been entered on the roles as a country member of the "Proving Radio Club," and your letter has been forwarded to Mr. Hook, who will probably get in touch with you shortly.

QUERY COUPON
If you are in difficulties about reception or set-construction, let us know, and we will endeavor to see you right. Make your queries as brief as 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, 111 WILKINS WY. (P.O. Box 111), Sydney, N.S.W.
Please answer the accompanying queries in this column in order to indicate that I am a home-made reader.

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U2.

A.P.S. (Goulburn).—Use a power-tapped resistance, and test with good quality voltmeter. Step down to about 12 volts. Marco good, but I cannot tell you if it is better than your other receiver unless you tell me what it is. D.C. eliminator will appear when technical rush slackens.

J.T. (Marshallmabb).—Use a variable resistance in series with one of the leads, and take the other side of the resistance to the remaining terminal.

U.W.T. (Woolahra).—In accordance with your request, I have obtained from Angus and Robertson a list of the latest radio books. These are:—"Electric Rectifiers and Valves," 18/-, post 3d; "Wireless Principles and Practice," 22/6, post 1/-; "Practical Radio Telegraphy," 18/-, post 6d; "Theory of Vacuum Tube Circuits," 18/-, post 8d; "Admiralty Handbook of Wireless Telegraphy, 1925," 6/8, post 6d; "Loud-speaker and Crystal Sets," 2/6, post 3d; "Text-book of Wireless Telegraphy and Telephony," 7/6, post 6d; "A Short-wave Handbook," 2/8, post 3d; "Radio Telegraphy for Amateurs," 11/6, post 6d; "The Four-electrode Valve," 4/6, post 3d; "The Thermionic Valve," 4/6, post 3d; "Henley's 222 Radio Circuit Designs," 4/-, post 4d; "The Practical Superhet. Book," 2/8, post 2d; "Crystal Receivers, and How to Make Them," 2/8, post 3d; "Wireless," 3/6, post 3d; "Electrons, Electric Waves, and Wireless Telephony," 10/-, post 6d; "Wireless-controlled Mechanism for Amateurs," 2/6, post 3d; "Loud-speaker Crystal Sets," 3/-, post 4d; "The Radio Experimenter's Handbook, Part 1," 5/-, post 4d; "The Radio Experimenters Handbook, Part 2," 5/-, post 4d; "Radio Frenzy Shooting," 15/-, post 8d; "The Home Constructor's Wireless Guide," 4/6, post 6d; "Radio for Everybody," 8/-, post 9d; "Drake's Radio Encyclopedia," 36/-, post 1/2; "Practical Radio," 15/-, post 6d; "Practical Radio Construction and Repairing," 12/-, post 6d; "The Wireless Manual," 6/8, post 4d. No doubt this list will be of interest to many inquirers, who frequently ask for books on particular radio subjects.

Mark (Mosman).—You have wired receiver incorrectly, according to your baseband wiring diagram. The E terminal on the coil should be connected to the earth terminal, and the A terminal on the coil should be connected to the aerial terminal of set. Then take the previous connections to this coil to the other movable coil, and if results are nil, reverse

Next Week

Do not forget to read the constructional details for the A.C. Marco 4 in next week's issue. This popular receiver designed for use direct from the house mains is fully described.

these two connections. Keep grid and plate wires as far apart as possible. The trouble mentioned may also be caused through faulty valves. Keep transformers farther apart. Filament wiring from A minus to C plus, thence to one side of rheostat. Other side of rheostat to negative filament terminal of each valve. Connect remaining filament terminal of each valve together, and carry this lead to F on the coil, and also to the moving plates of the condenser, and thence to A plus and B minus. The connection from here to earth will probably be better if left out.

R. Thomson, 2 Woodberry Flats, Cook Road, Centennial Park, Sydney, asks if any reader would be good enough to supply him with copies of "Wireless Weekly" dated February 18, April 26, and May 3, 1923.

G.S. (Blwood).—0-1 amp correct. Meter should be 0-1 amp, measured in thousandths (i.e. milliamps) of an ampere. Used to be sold by Murdoch's at 10/6 each. Worth paying sum you mention for the finished job is a general-purpose meter. Windings required depend on type of meter, internal resistance, and other important factors.

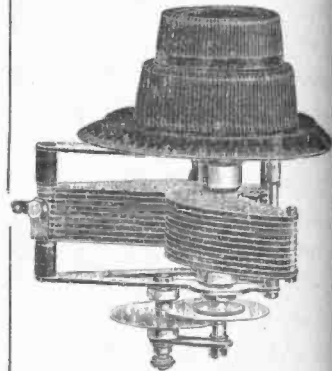
W.W. (Burren Junction).—Try the B.G.E. cone. The broken carbon will not make any appreciable difference.

G.W. (Cooma).—Varies considerably. Considerably less on quantities. Less for parts than for complete sets. Marcock Five De Luxe. You can use 4-volt valves.

G.N. (British Solomon Islands).—Your letter re numbers you missed has been passed on to the Back Number Dept. Circuit N.G. Build that which appeared in a recent issue of "Wireless Weekly" under 2N0's "Below the Broadcast Belt" notes. "O" is better position. "A" would not be necessary, and "B" would connect to grid and filament. British General Electric Co. market motor you mention. About £50. Pl circuit O.K., and will suit your requirements. One-control Marco Four. All-electric Marco will appear shortly. No, do not house the S.W. receiver as mentioned. There will be losses between broadcast and S.W. coils if this is done. Thanks for circuit. It is only a Schnell.

S.J.A. (Wellington).—Add a bar amplifier. Yes, transformer mentioned can be used. One 45-volt "B" battery, and one 4 or 6 volt "A" battery, depending on valve used. Circuits of amplifiers have appeared many times in these columns lately.

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Price Complete (including
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H.C.B. (Bexley).—As per Selectacrya. Condenser N.G. You must stick to specifications. Amplifier may be used with the Kug. No space for such a diagram at present, but will be pleased to publish it for you when less pressed for space. Amplifier can be worked off eliminator.

Wm. Reed, 156 Penhurst Street, Willoughby, asks if there is any reader in his locality who has built the Everyman's Four. If so, Mr. Reed would like to hear from this person.

J.C. (Yass).—If the receiver is all you claim, it will be of commercial value. Yes, should be pleased to criticise your circuit.

K.B. (Killara).—Evidently the valve does not require biasing.

C.L.S. (Ipswich).—No disadvantage if used in audio stages only.

S.F. (Maroubra).—Yes, make set into a Marco Four.

W.H.J. (Drummoyne).—Never use more than two stages of transformer coupled amplification, otherwise distortion may result. An additional stage of audio will not assist you to get distant stations. Add a stage of R.F., as per the Marco Four published recently. The other parts of your receiver will not have to be altered. The Marco is merely a three-valve Reinartz, with a stage of R.F.

C.H.P. (Victoria).—One control for R.F. N.G. We tried it. Valves O.K., transformer quite O.K., but you can use the O.P.30. If doubtful.

C.H.L. (Randwick).—The All-electric Marco, which will be published next week, will suit your requirements.

J.L.C. (Enfield).—Advise using a power pack.

F.L.P. (Tasmania).—De-Jur condenser O.K. The main point about the Go-Getter is to use as loose aerial coupling as possible. Try changing grid return. Hot water? No, cold.

J.E.B. (Bexley).—It was not a good conductor—in other words, it acted as a resistance. Glad our advice was so helpful.

C.S. (Wahroonga).—Lewco screened coils. Advise you to stick to them, and not change, as these coils represent the best in their class.

A. C. Marco

The popular Marco 4, re-designed for use with A.C., is the subject of our main technical article next week. Do not forget to order your copy.

W.M. (Undercliffe).—Faulty power transformer. Advise local council. Also look to transformers in set, and see there are no loose connections on the receiver.

A.L. (Bondi).—A three-megohm grid leak.

J.J. (Hopesfield).—Valve mentioned N.G. in Elstrelex Two. Other valves O.K. We have not published the circuit mentioned.

O.R.L. (Somerset).—Twenty turns. Set can be made less selective by adding more turns to primary, say 25. High impedance valves.

W.H.T.R. (Coff's Harbor).—Quite true, but if he is approached in the right way he will be glad to help. Why not assist with portable receivers in locating the trouble? Here is a chance for your "Proving Radio Club" local group. The radio inspector will probably be able to advise. D.C., too-poor fellows, you ARE up against it. No, dynamite won't help much. Suggest the owner of the powerhouse be presented with a one-valve radio receiver on condition he listens in every night!

G.P. (Kogarah).—This circuit was recently published in query columns; regret no space available at present.

J.L.H. (Woollahra).—Batteries, valves, or transformers.

D.E. (Dubbo).—Noyes Bros. can advise ratio of these transformers. Parts mentioned O.K. for Go-Getter. Capacity of Ormonde condenser having 6 rotor and 7 fixed plates is .0002.

J.M.L. (Melbourne).—S.G. Midget R.F. Short-wave Four. Parts O.K.

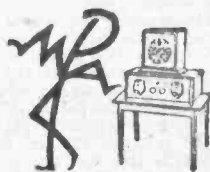
J.Y. (Helensburgh).—We do not reply by post. List of parts appeared opposite article on an advertisement.

S.J.M. (Epping).—Sorry, have no more information than you have. Afraid you are up against it. Do not know who the agents for these are. Suggest you use a well-known type, which will give you little or no bother. If you care to send a detailed description of this article, together with drawings, maybe we can help.

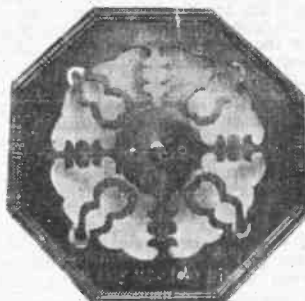
A.E.S.C. (Fennant Hills).—Marnock Five. Your informant evidently never tried S.G. valves properly.

C.S. (Parramatta).—Bar amplifier only practical way.

No Name (no address).—A sheet of notepaper on which was drawn a wave-trap circuit, and underneath a note, "This week, if possible," is the result of some reader not attaching all papers firmly together.



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The Public Service and Broadcasting

(By Our Melbourne Correspondent)

THE expression, Public Service, applied to broadcasting can easily be misapplied. Some people rather unthinkingly explain it by saying broadcasting is a service comparable with the railways, the telephones, or the electric services. It is admitted that those public utilities can reasonably be regarded as public services, especially the railways and the telephones, as conducted in this country. They are Government owned and managed, and have come to be recognised as the prerogative of Governments.

But broadcasting is not exactly in the same category. Despite its universal appeal, which might generally be the argument for it being a public utility, broadcasting services are specialised, in the preparation and rendition of the programmes. That work calls for an experience and organisation which is not within the normal routine of Government departments. The experience is more properly that of theatrical enterprises; public entertainment is the background of the broadcasting services, the most important and extensive of the various sections of the programmes, and that calls for specialised experience.

Nevertheless, there is a constant element of public service associated with the broadcasting services. Taking the experience of the Melbourne stations, 3LO and 3AR, anyone even remotely in touch with what is being done from week to week knows of the many evidences of public-spirited enterprise shown by the company. One supposes that if a total were made of all the money collected for various charitable institutions by those stations, it would be a handsome sum. And the value of the ef-

forts cannot be stated properly in terms of the amount of money collected.

Take the children's collections for the hospitals, for instance; the total sums collected are quite considerable, but no record is kept, or could be, of the indirect value of the movement to the children. The inculcation of habits of self-denial, and thoughtfulness for others is a priceless national service. The spirit of selfishness abroad today is certainly being arrested by "Billy Bunn" and "Bobby Bluegum" and the other children's storytellers of the broadcasting stations. The influence of the broadcast appeals has something in it that is particularly successful.

The value of the appeal by wireless has been proved over and over again. The latest has been the appeal for assistance in connection with the Tasmanian flood disasters. The promptness of the response, and the universality of it, were alike very creditable to the givers and to the wideness of the influence, in terms of territory, of the broadcasting services.

The more evident aspects of public service, or community service, such as news, weather reports, market reports, educational talks, etc., do not need emphasis in any statement of the value of the broadcasting services.

Fine Music

ON June 3, beginning at 8.15 p.m., 7ZL will broadcast a concert under the able direction of Mr. James Marsh. The concert giver will be heard in organ solos, and will be joined by Mrs. Norman Pierce, soprano, Mrs. V. E. Saunders, the brilliant pianiste, and Mr. David Dolman, well known as a musicianly violinist.

On the Lecture to Members of
Sydney Technical College
Engineering Association

A LECTURE was given to the members of the above association at the Architectural Department Hall at the Sydney Technical College by Mr. F. E. Buckell, manager of the "Osram" Valve Department of the British General Electric Co. Ltd., entitled "The Manufacture and Development of the Thermionic Valve."

This lecture was illustrated by an excellent set of lantern slides and was attended by a large and representative audience. Mr. Buckell dealt in detail with the manufacturing processes used at the "Osram" Valve Works in the making of "Osram" Valves. The audience was taken right through the manufacture from the crude Tungsten filament ore up to the finished valve ready for despatch.

Mr. Buckell has had many years' experience in the technical development and manufacture of "Osram" Valves, and is an authority on the subject of the lecture.

Essanay Products

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

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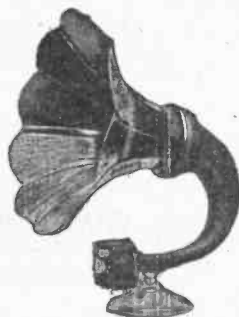
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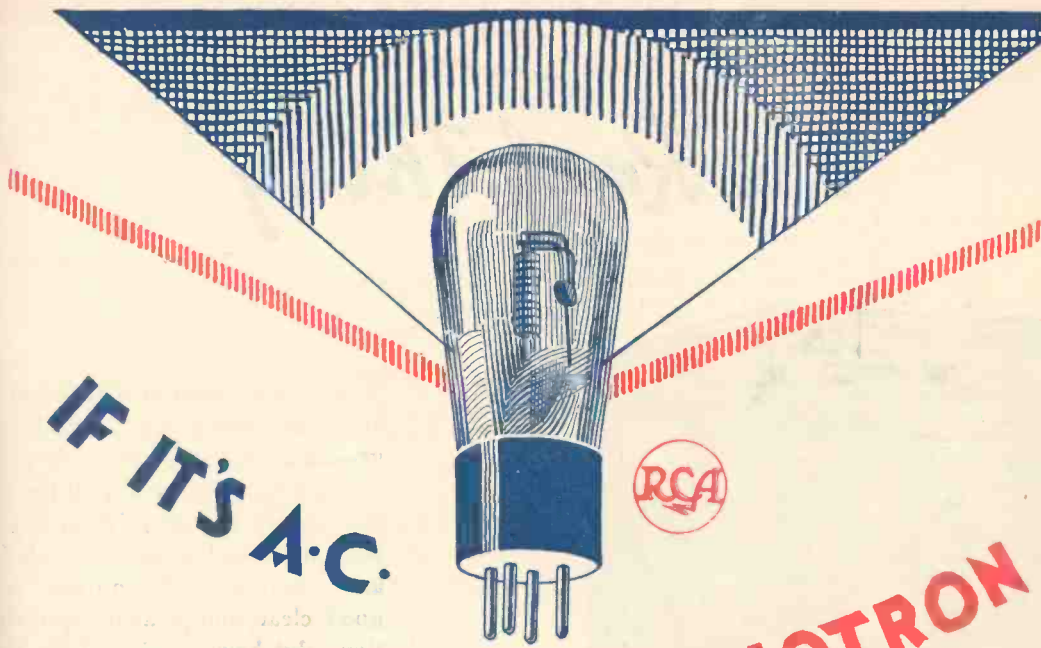


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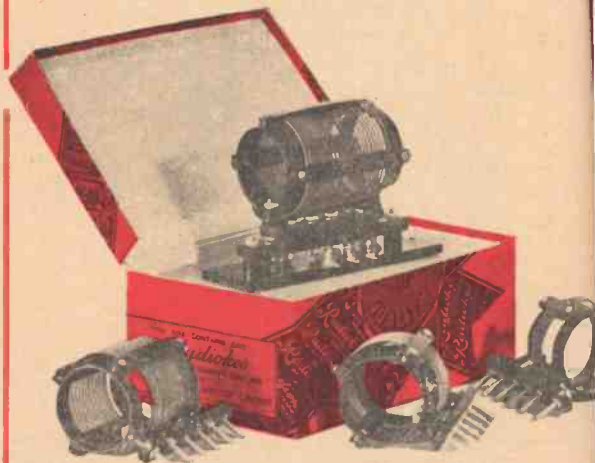
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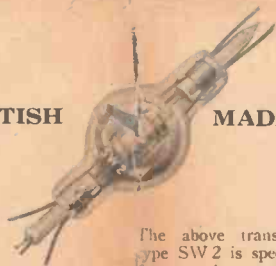
Obtainable from all High-class Dealers, or Write Direct for Bulletin describing Radiokets Products and How to Make Short-wave Receivers.

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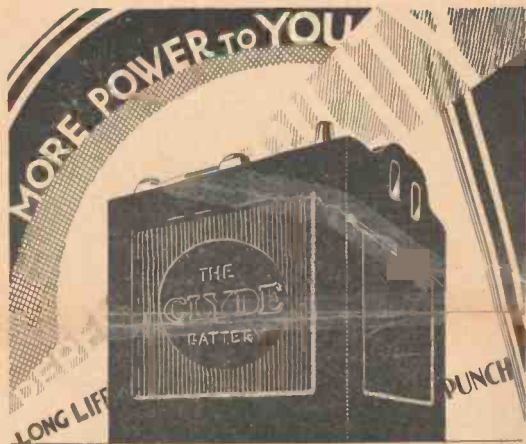
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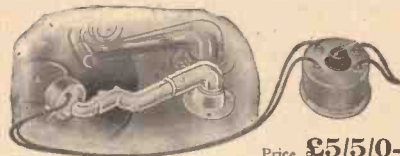
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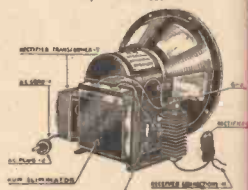
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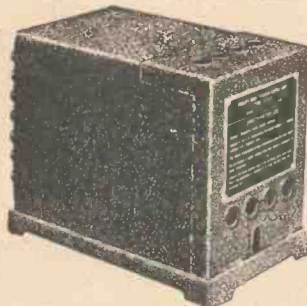
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