

WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 9

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

NUMBER 25

Excitement in the Air!

*Norman McCance
describes a fight from 3LO.*

Friday, April 15, 1927.

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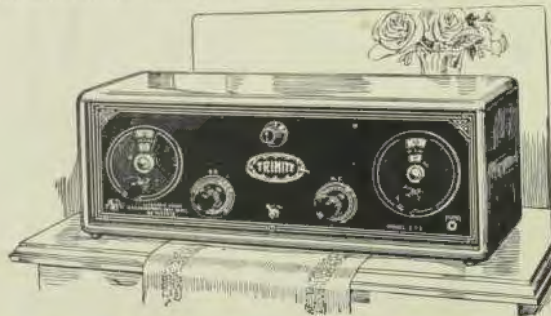
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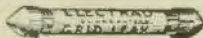
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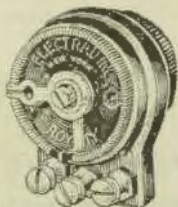
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WIRELESS WEEKLY

VOL. 9, No. 25.

FRIDAY, APRIL 15, 1927.

A New Angle on the Beam.

IT was to have been expected, of course, that we should choose the Beam as the most fitting subject for the editorial. The fact that pretty well every other wireless magazine in the world and many hundreds of newspapers have also had something to say about the Beam this week does not deter us.

We are bound to write on this subject, for what would you have thought, Reader, had we ignored the opening of this, the most important work in the history of wireless and one so vitally concerning Australia. It is not necessary, of course, that we should find something new to say about the Beam, except that we endorse the flattering remarks that have already appeared.

There is an element of vanity about all writings claiming to say something new on this subject. For three years, magazines and newspapers have published long articles dealing with it from every aspect until the public must be heartily sick of the subject. Even the latest news, the opening, is now a week old, and we are thus barred from commenting on the initiation of the service.

However, claiming special knowledge as a wireless magazine, we might have dwelt upon the marvel of Beam transmission, technically, confusing the reader with a maze of terms; we might have spoken of this invention with wonder and awe, calling upon our readers to witness the invincible advance of science—a phrase boring to the average person, by its frequent repetition on the occasion

of every scientific discovery during the last fifty years.

It might have been possible to rouse the reader from this indifference by forecasting radio wonders of the near future, the exchange of messages by telephone between England and Australia, and television, but we ourselves covered this in an editorial some issues ago.

Failing these leads we might have dwelt upon the strengthening of the bonds of Empire, an appealing sentiment, but one which an elderly and dignified contemporary has already played upon to exhaustion. Or just to be different we might have taken the reactionary view and denounced the Beam with devilish cunning, revealing ominous faults with obvious half-truths, but that also has been done and forgotten, because it failed to arouse interest.

Now, what could we say that has not already been said many times and at much greater length than we could say it? Only one thing, and we have said it in this catalogue of all the massed word-barrages which have been delivered around the Beam.

And, more: we have seen the subject of the Beam system treated enthusiastically, entrancingly, disparagingly, derisively, contemptuously, conservatively, Whiggishly, wonderingly, warily, wearily, wittily, knowingly, and nervously. We have seen it caricatured, courted and cursed, but never yet have we seen the mighty subject of Beam wireless treated flippantly.



Between You And Me And The Microphone

Conducted by Jack Plugge



STEREOPHONIC TRANSMISSION now brings GWF, Perth, within the range of all short wave receivers. By using two microphones and two transmitters the station can transmit programmes simultaneously on 160 metres and 1250 metres.

TO RECEIVE the broadcast transmission stereophonically it is necessary to have two separate receivers, each adjusted, so that one receiver is tuned to the first wavelength and the other receiver to the second wavelength. This means that each receiver will respond to the sounds picked up by each microphone. One ear-piece of a pair of phones is connected to each receiving set. The transmitters under these conditions assume a plastic nature, and can be likened to looking at a picture through a stereoscope. The relative position of the various instruments of the orchestra playing in the studio can be located.

MENNER PHILIPS (now Lamp Works, Ltd.) of Sydney, will welcome reports from readers hearing a series of tests on speech and music to be broadcast from their head office and works at Eindhoven, Holland. The call letters of this station are PGJ and the wavelength is 20.2 metres. The following are the times at which this station may be heard on a suitable receiver in the Eastern States:—Friday, April 8, from 1 a.m. to 1.15 a.m., from 2 a.m. to 2.15 a.m., from 3 a.m. to 3.15 a.m., from 4 a.m. to 10 a.m. Saturday, April 9, from 11 a.m. to 3 p.m., from 3 p.m. to 5 p.m.

ENTERTAINED THE DUKE: Olsen and Johnson, the two American comedians from the Tivoli Theatre, who have given several enjoyable concerts for BLO, recently appeared at a special command performance before the Duke and Duchess of York at Government House, Sydney. They put on a 20 minute programme of songs, instrumental items and humor which greatly pleased the Royal couple. The Duchess complimented the comedians and promised that both she and the Duke would attend the first night of their London season next year. It is probable that Olsen and Johnson will present another of the clever dressing room concerts through BLO within the next week.

3DB, situated on the roof of Capitol House, Melbourne, reports reception in Wellington and Auckland, New Zealand, Western Australia and Queensland. "The station is not yet on its full power of 500 watts. Hours of transmission are from 6.30 to 10.30, but these will be extended shortly.

WHERE IS IT? Thirty-one readers had no difficulty in answering this question, which appeared in the inscription at the foot of Mr. E. J. Van de Veld's aerial photograph reproduced in "WIRELESS WEEKLY" on April 1. To all families with Bellevue Hill the winding nature of Birrigoo Road, in the centre of the picture, was easily recognizable, while the junction of Old South Head Road and O'Sullivan Road on the left is known to most Sydney residents. The names of the successful competitors have been forwarded to Mr. E. J. Van de Veld, who will send each a photograph of the city as seen in an aeroplane above Circular Quay.



THE NEW "D" Class at Perth is only awaiting its licence, when a start will be made immediately. The probable wave-length will be 275 metres.

THE FOLLOWING message from H.M.S. "Renown" has been forwarded to 2FC by the official secretary of the Royal Visit to New South Wales: "The concerts provided by 2FC on the nights of 23rd, 24th, and 25th March have afforded much enjoyment and has relieved in otherwise tedious voyage across the turbulent Tasman Sea. May the thanks of His Royal Highness and the Ship be conveyed to the artists and management."

HOSPITALS IN A NUMBER of country centres are likely to be equipped with radio sets shortly following upon district appeals backed by the local newspapers. The Singleton "Argus" within a couple of months raised £200 to equip the Dangar Cottage Hospital with a receiving set, and 40 pairs of headphones, so that each patient could listen without disturbing the others, and loud speakers for general entertainment. Bazaars, dances and fetes were organised, and as the money continued to pour in, the "Argus" merged the radio appeal into a movement to raise funds for the general purposes of the hospital.

INVERELL HOSPITAL COMMITTEE has launched an appeal for £200; this has been taken up enthusiastically by both the Inverell newspapers, and it may be assumed for certain that the objective will be gained. The South Coast "Times" has opened a subscription list with the object of installing a radio outfit in Wollongong Hospital. At Armidale the "Chronicle" has taken up the task of seeing the local hospital brightened by radio, and the Dorrigo "Gazette" has made a similar suggestion to its readers. Corresponding movements have been launched at Denbigh and Hay by the civic authorities, and are receiving the strong backing of the district press.

Let Your Battery Save our Purse: Philco.

Rip Van Pedagogue and Radio

RIP VAN PEDAGOGUE rubbed his eyes and sat erect. His fingers strayed exploringly through an unfamiliar beard. "Je-e-rusalem," he croaked, "How long have I been here?" As he rose to his feet, each joint in his body ached its protest. Unsteadily and painfully he made his way down the hillside between the tall gums to the strangely changed township of Gumville. Here he learned an astounding truth. It was the year 1937 A.D. He had slept on the hillside for ten years.

After lunch next day, a more presentable Rip Van Pedagogue knocked gently at the half opened door of the Gumville State school. Miss Brown, the dainty school mistress, answered the summons.

"My name's Pedagogue. I used to be head teacher of this school. I slept on the hillside for ten years. Suppose you've heard about me?"

"So you're Mr. Pedagogue," said Miss Brown, "I'm pleased to meet you. Please come inside. Take a seat. You can't be too strong yet, after your extraordinary experience."

"Nor am I," replied Pedagogue, "but I simply couldn't resist calling round to look at the old school. I see things have changed a bit since my day. They've made the old shack a bit bigger."

"Oh, yes, Mr. Pedagogue, things have changed a bit. How many children attended here in your time?"

"Twenty-six of them, and I can tell you they kept me busy day and night. There were eight grades and I can't quite imagine how I managed to keep them all going. It seems beyond me now."

"Would you believe it, Mr. Pedagogue, there are fifty children here now, and I manage them alone. Not rushed either. The children and I have a very happy time."

Mr. Pedagogue gasped, "You don't say so. Sounds impossible. How the dickens do you do it?"

Miss Brown smiled, "Look over here just for a second." She lifted the top of one of the scholar's desks and revealed a neat pile of books, a set of earphones, and a queer cylindrical arrangement with eyepieces at one end, like binoculars. The secret flashed on Pedagogue. "Wireless," he muttered. "That's how you do it. But what's that other contraption?"

"That's an etheroscope," said the schoolmistress. "Let me see, Television wasn't in common use in your day, was it?"

"Hardly," said Pedagogue. "But, I say, this is all very interesting, please tell me all about it."



A story with a moral. You remember Rip Van Winkle, of course, the man who went to sleep on his job; well this is Rip brought up-to-date with an interesting forecast of radio in 1937.

A bell sounded. It was time for the children to come in for lessons. Miss Brown invited her visitor to "wait and see." As the scholars trooped in, she motioned him to an empty seat in a group of desks to the right of the school room. With some difficulty Pedagogue took his place. Following the example of the scholars about him, he took headphones and etheroscope from his desk and placed the former in position. Almost immediately he heard the musical voice of a wireless teacher.

"SLO, Melbourne. Now, boys and girls, we will continue Tuesday's talk on trade routes. Open your atlases at page 26 and find the pieces as I name them. To-day we will study the route from Southampton to Sydney. Use your etheroscopes now."

Pedagogue brought the instrument to his eyes, and, to his surprise, he saw an almost perfect moving picture of a busy harbour, ships of many kinds floated in the foreground. In the background rose the roofs and spires of a great city. A prominent feature of the picture was a huge liner berthed at a wharf. Her name, the "Australcrulise," was visible at her bows. Passengers were boarding the steamer from a train newly arrived alongside.

The wireless teacher continued.

"This is the harbor of Southampton, the leading port on the south coast of England. Passengers between England and Australia usually leave and join their boats at this place. See the train on the wharf.

It has just arrived from London bringing passengers for the 'Australcrulise.' We will now follow the ship on its voyage to Sydney." Pedagogue put down his etheroscope and glanced around. Not all the children were wearing headphones. Some were working from books. One group had gone quietly outside. Miss Brown, apparently forgetful of everything else, was giving a number lesson to a class of infants. Presently she set them to work moulding plasticine, then beckoned to Pedagogue. They went outside. Under a shady tree they found the missing scholars seated in a semicircle around a loud speaker. The wireless teacher was reading a story about a kookaburra. The scholars followed the story in their school papers. "The bird flew to the topmost limb of the old gum tree and laughed heartily." Here the wireless teacher gave his version of the kookaburra laugh. The scholars smiled. There was no doubting their interest in the lesson. The teacher paused here and there to explain a difficulty and to bring out different points of the story. After five minutes a senior monitor took charge. The two adults went back to the school room. They found the scholars working away as though, to them, work and pleasure were the one thing.

The bell rang again. All ceased their labors and the reading class returned. "Singing, now," announced Miss Brown.

A hidden speaker above the mantelpiece came into action.

"Boys and girls, we are going to learn a new song. It is a song sung by a mother to her baby while the father is away fishing. It is called 'Sweet and Low.'" The voice proceeded in a simple but expert manner to create the atmosphere of the song. The etheroscopes played their part. The recital of Tennyson's lyric was a finished performance. Etheroscopes went to eyes again and the scholars saw the fisher's wife bending over a cradle and heard her sing the song, accompanied by an orchestra. Later, the children joined in the singing. Pedagogue admitted to himself that he had never heard children sing quite so feelingly. The afternoon wore on. Pedagogue was reluctant to leave. He marvelled. He had seen a bulging store-house of teaching wonders opened wide by the wizardry of wireless. He half suspected that the new world in which he found himself was merely the creation of a dream; and he feared the

3LO's Itinerary of Transmissions for Duke's Visit

FOR the benefit of 3LO listeners, who will be unable to view any of the festivities in connection with the visit to Melbourne of the Duke and Duchess of York, we quote hereunder an itinerary, setting forth the exact dates and times when listeners may expect to hear vivid descriptions of happenings in the City. No trouble has been spared by 3LO to provide an adequate and entertaining programme, worthy of the occasion, and those who have been appointed to do the actual describing, and those who have proved their ability on many previous occasions.

It is the desire of 3LO that all listeners near and far, shall have a first hand description of every movement on the day of the landing, and for this purpose, it has been arranged to install a portable wireless transmitter aboard the S.S. "Akuna," of the Port Phillip Pilot Service. This vessel will proceed down the Bay to meet the H.M.S. "Renown" and from the time of sighting the Battleship until she berths at Port Melbourne, a running description will be given from a special vantage point on the Bridge Deck of the "Akuna." This, however, is only the forerunner of other interesting descriptions that will take place during the day. Arrangements have been made for special telephone lines to be run to the landing steps at St. Kilda Pier and listeners will receive a vivid account of the progress of the Royal Barge from Port Melbourne to the Landing Stage, the Official Landing, the Inspection of the Guard of Honour, the Official Reception, Presentation of Addresses of Loyalty and Welcome, and the commencement of the Royal Progress through the City. Shortly afterwards the description will be continued from the Portico of the Town Hall, and later still, when the procession has turned into Collins Street, the narrative will be taken up from the windows of 3LO Studio.

On the following day listeners will be given a first-hand account of proceedings at the Public Reception to Their Royal Highnesses at the Exhibition Building.

Listeners have frequently enjoyed descriptions of racing from Flemington, but on Saturday, April 23, an added interest will be given to the transmission from that point, by the fact that the arrival of the Duke and Duchess will be described.

Hereunder is an itinerary, setting forth the dates and times of transmissions in connection with the Royal Visit.

THURSDAY, APRIL 21.

10.6 a.m.—Description of progress of H.M.S. "Renown," escorted by

H.M.A.S. "Sydney" and "Adelaide" and Aerial Escort by Royal Australian Air Force, transmitted from S.S. "Akuna."

11.0 a.m.—Description of H.M.S. "Renown" berthing at Station Pier, Port Melbourne. Salute of 21 guns from H.M.A. Squadron.

2.0 p.m.—Description of the landing of Their Royal Highnesses at St. Kilda Pier. Salute of 21 guns from 10th Battery, Royal Field Artillery;

Inspection of the Guard of Honour; the Official Reception, Presentation of Addresses of Loyalty and Welcome.

2.55 p.m.—Commencement of the Royal Progress to the City.

2.45 p.m.—Description of Royal Progress through the City, transmitted from the Portico of the Town Hall and later as the procession turns into Collins Street, from the window of 3LO Studio.

FRIDAY, APRIL 22

2.45 a.m.—Description of proceedings at Public Reception to the Duke and Duchess of York, transmitted from the Exhibition Building.

SATURDAY, APRIL 23.

12.40 p.m.—Description of the arrival of the Duke and Duchess of York at Flemington Racecourse. Descriptions of the Races will continue throughout the afternoon.

MONDAY, APRIL 25.

2.0 p.m.—Description of the March Past of Returned Sailors and Soldiers, which will be headed by the Duke and Duchess of York.

3.0 p.m.—Description of whole of the Anzac Commemoration Service from the Exhibition Buildings.

TUESDAY, APRIL 26.

11.0 a.m.—Description of reception to Her Royal Highness, the Duchess of York by the National Council of Women transmitted from St. Kilda Town Hall.

2 p.m.—Description of the Display by the State School Children in honour of the Duke and Duchess of York, transmitted from the Melbourne Cricket Ground.

8.0 p.m.—Transmission of Speeches in connection with the Commonwealth Dinner, Queen's Hall, Parliament House.

WEDNESDAY, APRIL 27.

11.30 a.m.—Description of the Confering of Degrees on His Royal Highness, the Duke of York, transmitted from the University of Melbourne.

9.30 p.m.—Description of proceedings at the Lord Mayor's Ball, transmitted from the Exhibition Building. During the intervals between dances descriptions will be given of the frocking and various incidents during the evening.

THURSDAY, APRIL 28.

Arrangements being made to broadcast speeches of Welcome in the country.

8.0 p.m.—Reception by the State Government of Victoria, Exhibition Building. Combined choir and orchestra of 1,000 performers.

FRIDAY, APRIL 29.

2.30 p.m.—Description of Departure of Their Royal Highnesses to Adelaide from Spencer Street Station.



IVAN STEDMAN, the Australian breast stroke champion and 3LO Cup winner, who recently spoke to the world over 3LO before and after breaking the 220 yards Australian record, his time being 3 minutes 2 2/4 seconds. His performance ranks Stedman as one of the world's leading swimmers in this department of the game, as his time has only been bettered on about two occasions, and then by a matter of only a few yards. As a representative of Australia at the 1920 Olympic Games held at Antwerp (Belgium) Stedman won his heat in the 100 metres free style, and was only displaced in the final by a small margin. Strange to say, Stedman never seriously trained for breast stroke competition, but since his excellent efforts recently when he set out to win a 3LO Cup he has decided to specialise in this style of swimming with a view, if possible, of representing Australia in the next Olympic Games of 1928.

How 2FC was Heard in England

IN December last 2FC received a message from Fransham in Surrey, England, stating that 2FC was clearly heard there. Some discrepancy occurred, however, in the logging times, and it was decided by the management to carry out some definite tests. Mr. A. J. Scott Dack, A.M.I.E.E., of the Wireless Department, R.M.S. "Oronsay," when approached, agreed to arrange for a series of receiving tests to be carried out upon arrival of his ship in England. The dates decided upon were the 24th, 25th and 27th January, at 7 o'clock each morning, Sydney time.

The matter to be broadcast was kept a secret and was not finalised until the actual day of the test. The test matter was not even known to the announcer on duty, and was chosen haphazard on each morning. Mr. Scott Dack proceeded to England, and on the trip home the "Oronsay" held 2FC until a distance of 5702 miles from England in the Indian Ocean when the signals faded out on the valve set. Upon arrival in the Old Country Mr. Scott Dack arranged with friends in various parts of England to listen for the tests.

On the morning of the 24th January at 7 a.m., 7.30 and 8 a.m. three slow strokes were given on a gong and then the following message was spoken slowly:—

"Hello, Hello, England, Hello, Hello, Scott Dack, Hello, Hello, R.M.S. 'Oronsay'; Hello, Hello, Fransham, Surrey; Station 2FC, Sydney; Farmer's Broadcasting Service; Sydney, Australia, calling. Can you hear us?"

At 7 a.m. a paragraph, headed "Rescues at Bondi—Surfers in difficulties," was read. This was followed by the gramophone record—"Chanson Hindoue." At 7.30 a.m. the same paragraph was given, but the musical item was changed to "That Night in Araby." At 8 a.m. the news paragraph was headed—"Sleep-walkers fall from moving train," and the musical item was "Six Feet of Papa."

On January 25th, at 7 a.m., the same procedure was followed and a news item—"Lost Boy chased by wild camels," and the record—"Always" were transmitted. At 7.30 a.m. the news paragraph, "Fall into harbour," and the gramophone record, "The Prisoner's Song," were broadcast. At 8 o'clock the same paragraph with a different musical item, "Barcelona," was transmitted.

On the 27th January the procedure was the same again. At 7 a.m. a paragraph headed "Carried from Bur-

That it is possible to tune in Australian broadcasting stations in England has at last been proved by 2FC. The full details of the experiments conducted by that station in an endeavour to reach England with a message are given below.

ingorang Valley," and the musical item, "That Night in Araby," were used. At 7.30 a.m. a paragraph headed "W. H. Ponsford to remain in Australia" was used, and the gramophone record, "Valencia," broadcast. At 8 a.m. "No fight—Cook refuses to enter the ring," was the paragraph, and "Petruska" the musical item.

On arrival in England Mr. Scott Dack invited wireless enthusiasts through the columns of the "Wireless World" to communicate with him care of that newspaper, if they heard any of the broadcasting tests from Sydney. Just at the period when the tests were carried out Mr. Scott Dack was transferred from the R.M.S. "Oronsay" to the R.M.S. "Ranpura" and therefore could not personally take part in the attempt to receive 2FC in England. On his return to England the following cable was sent to Sydney:—

"Farmer's Broadcasting Service, Sydney, tests received in England, January twenty-fourth, nine-thirty-five p.m.; sorry delayed. Confirmation just received.—Dack," and the following letter has now been received by 2FC:—"I am sure you will have been pleased to receive my cable. I am sorry that there has been so much delay through my transference to the 'Ranpura' and through the 'Wireless World' forwarding my correspondence direct to Bombay.

"Your test was successfully received at Torquay under the greatest of difficulties, as some of the Continental stations work so close to the 442 metres. It was only through one of the Continental stations shutting down for a few minutes that we were able to receive you. The set used was an 8-valve Super-Het of my own design. The time you were received was about 9.35 p.m. on the 24th. This would be about 7.35 a.m. on the 25th (Sydney time). The logging of your station was as follows:—January 24th, about 9.35 p.m.: G.N.T. gong struck three times; Hello, Hello, Scott Dack; Hello, Hello, Royal Mail Steamer 'Oronsay', Hello, Hello—missed—. Can you hear us? The next pick up was the news paragraph

about the 'Fall in the harbour,' 'Hello, Hello, Scott Dack. Did you hear that?' We'll now let you have a musical item, the well-known 'Prisoner's Song,' played by the Corona dance orchestra—. Nothing much was heard after a few minutes as your signals faded away and were not again readable."

Mr. Scott Dack continuing his letter stated—"This is the first part of the news. Now on the 25th March while the 'Ranpura' was berthed at Bombay, at 2.30 a.m. (Indian time), that is about 7 a.m. Sydney time—I heard the chimes of 2FC and somebody speaking (at least I thought it was 2FC). Anyhow I tested the wave length by a wave metre and it was about 442 metres, so I think it must have been 2FC. Anyhow, please let me know as I was not able to pick it up again because the Bombay Wireless Station started up.

"In concluding, please let me congratulate you all at 2FC on your success. All I can say is 'well done.'"

A reference to the log at 2FC shows that at 7.30 on the morning of the 25th January (which coincided with 9.35 p.m., January 24th, G.M.T.), a gong was struck three times slowly, and the following call was made:—"Hello, Hello, England; Hello, Hello, Scott Dack; Hello, Hello, R.M.S. 'Oronsay'; Hello, Hello, Fransham, Surrey—Station 2FC, Sydney, Farmer's Broadcasting Service at Sydney, Australia, calling. Can you hear us?"

"Following our arrangement for a test between Australia and England, we are calling you on three occasions between 7 and 8.15 this morning.

"We send greetings from all at 2FC in the hope that they will be received by you in the Homeland.

"It's a bright warm morning here. "Here's an item from this morning's 'Sydney Morning Herald': William Patrick Brick, aged 38 years, engineer, of Penkivil Street, Willoughby, fell into the harbour from the rocks at Shell Cove near the Cremorne wharf yesterday afternoon."

Immediately following this news item a gramophone record, "The Prisoner's Song," was announced and broadcast. The following features are worth stressing to show how genuine was this test:

1. The announcer did not know until he went into the studio what paragraph was to be given to him to read.

2. The announcer did not know what paragraph record was to be handed to him.

3. The news paragraphs and records were not decided upon until the test was actually taking place.

(Continued on Page 18.)

The Safety Valve

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



SHORTER PROGRAMMES—WHY?

Dear Sir,—Why are our programmes shorter when summer waxes? Why are we now only able to have broadcasting from 12 a.m. till 11 p.m.? Most people, I am sure, need more music in winter than everybody, as a rule, spends more time indoors.

No wonder we valve set users look for some other station besides our local! I can only repeat: BLO programmes are a treat, to listen to, and are worth sitting up so late—more than I can say about our local stations.

I think we listeners should have some say about the way we are being treated of late. Do we pay our licence to hear night after night for the best part of an hour some stories about a certain player-piano, battery, etc.? Do we pay for ads. to be broadcast or for music? If so, I can only say, why not reduce licence fees if we are to be burdened with advertisements.

Yours, etc.,

EX VAUDEVILLE MANAGER
Globe Point.

POOR JAZZ BO.

Dear Sir,—I think that "Jazz" ("Wireless Weekly" 25/3/27) is unfortunate not to know the benefit of classical music. I say keep the classics on the air till 11 p.m., and then give the jazz-crazy people one hour of jazz, but don't substitute Jazz for Classics.

Yours, etc.,

J.H.A.

Cootamundra.

BLIND?—NO!

Dear Sir,—Almost systematically now, when I read the evening's programme from 2BL, appears the song, "If Thou Wert Blind." In my estimation this item is becoming somewhat monotonous, no matter how nicely it is sung. Surely there are ample compositions to choose from, and quite worthy of good singers, without repeating any one in particular.

Yours, etc.,

F.J.S.

Bexley.

A CRYSTAL-CLEAR ARGUMENT.

Dear Sir,—I can assure the prospective buyer of a simple set—crystal or one-valve, according to his location—that he will enjoy broadcasting. With my crystal set I have often received, in one week, full value for almost the whole year's licensing fee. True, under the title of Jazz, items are sometimes broadcast which, from a musical standpoint, are simply beneath criticism, and merely indicate that the performers have not even an elementary idea of the rules of harmony, but, generally, the programmes are of a high-class order.

The point I wish to emphasize, however, is that too often are the interests of the crystal and simple one-valve overlooked by our wireless experts. We appreciate the great work these gentlemen are doing in the wireless field, but naturally they are more in touch with the proud possessors of multi-valve sets anxious to receive Tokio or Moscow or some such place.

Yet the owners of crystal and one valve sets pay the same licensing fee, and without us the most expensive set would be almost useless for the simple reason that without us the broadcasting stations could not pay their way.

Not content with reducing 2FC's wavelength, thereby rendering it almost impossible for a crystal set (and very difficult for a one-valve set) to receive more than one station, these gentlemen are still on the warpath. Not only are many of them opposed to relay stations in country towns, the erection of which would facilitate broadcast reception on simple sets in these districts, but, as I notice with dismay, some of them are suggesting that the "A" class stations be relegated to a distance from populated centres. Do they mean to the far West, or out to sea? Do they wish to prevent the crystal user from receiving even one station?

Yours, etc.,

"CRYSTAL"

Epping.

TOM TOM NOISE.

Dear Sir,—It is, in my humble opinion, a reflection on the intelligence of listeners that the most beautiful renderings of the famous masters should be turned down in favor of a tom tom noise called jazz. Let the sweet spirit of tolerance prevail, and give to those who enjoy good music a fair share of the programmes.

On a recent Sunday afternoon when a beautiful programme—under the direction of Madame Evelyn Grieg—was being put on the air, it was my honest intention to contribute my meed of praise and approval. Unfortunately, owing to a severe injury to my hand, I have been unable to do so. In fact, this is the first time I have somewhat unfeelingly and slowly, and, I do hope, lightly, managed to record my vote for music.

In conclusion, I—in fact, all my family—still confidently hope that 2FC will maintain its unblemished reputation and continue to give us plenty of good, clear, sane music.

Yours, etc.,
W.Mc.

Punchbowl.

REALLY WANTS TO KNOW.

Dear Sir,—As I am intending to build a five valve set, would you kindly advise me which set is the better—a five valve Neurodyne, or a five tube Neurodyne.

Yours, etc.,

J.W.

Leichhardt.

WE WANT—WHAT?

Dear Sir,—I think the chief cause of all the tales of woe about the broadcast programmes, is, to cut a long story short, that a good many listeners don't know what they do want. I think there is enough variation in the whole of the programmes to suit everyone, and if this class of people who are always grouching would spend more time examining their sets, and studying programmes, there would be no need to cry about poor reception and bad programmes.

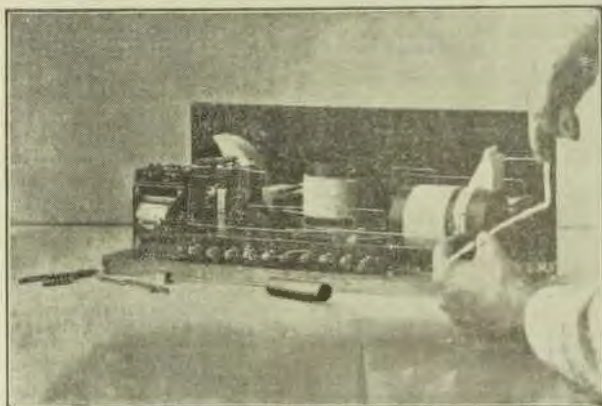
Yours, etc.,

POP.

Mayfield.

Why there are Wires in Wireless

In many respects the term "wireless" is incorrect. Without wires there would be no such thing as a radio receiver or transmitter for we would not then have coils, transformers, or any means of connecting component parts. It is to the latter that the wireless experimenter refers when he speaks of wirins, the subject of this article.



Measuring the distance after bending the shape.

THE all-important subject of wiring is one well worthy of discussing. Many a constructor lays out his components in accordance with the diagrams in "Wireless Weekly," he follows out with meticulous care the panel lay out and adheres to all instructions rigidly, but approaches the wiring of a receiver with a certain amount of diffidence. This should not be so, as wiring is a very pleasant job, and after all, it is worth while to watch the receiver take shape. There are several different types of wire which may be used for wiring purposes. The square or round tinned busbar is by far the most popular. This busbar consists of copper wire, usually No. 16 gauge, and the surface is tinned that is treated to a coating of tin or usually solder. This presents a nice silvered appearance, besides making soldering much simpler. Some of this busbar is nickel plated, but we don't advise it in any way. This busbar is obtainable in sticks of two feet each in length, but the round may be purchased in pound reels as No. 16 gauge Fuse Wire, and pulled out straight to be cut into lengths.

The method of straightening round busbar is to pull it. Grip one end of the wire in a vice or tie it around a door knob, and unroll, say up to 12 feet, and gripping the reel firmly in one hand, pull the wire until a slight "give" is felt. Carefully lay the reel on the floor and cut off the straightened portion into workable lengths. This wire is nice and easy to handle.

Another popular wire is Belden Fort. This consists of a three copper wire with a woven sleeving around it for insulating purposes. It is nice and pliable to work and permits either straight runs or point to point wiring at will. There are different colors for different circuits, such as red for the filament circuits, yellow for the B. battery circuits, and black for other portions. The covering is very easily peeled off, thereby allowing intermediate connections to be made.

Celatsite is the name of a wiring wire which is gaining popularity every day. This is a soft wire with a composition covering and is obtainable in different colors. Then there is the ever popular spaghetti covered wire. To-day there is a demand for the varnished cambric spaghetti tubing or sleeving which allows a length of wire up to 16 gauge to be threaded through. Some people prefer to run 20 gauge wire through this spaghetti and wire up point to point. We will not express any preference for any of the systems enumerated above—each has its own advantage, and the choice rests with the constructor.

So much for the different types of wire suitable for the purpose of connecting up a receiver. Now let us review the different systems of wiring. The most favored is the neat right angled method of busbar wiring. In Great Britain stiff busbar is still very much extant, but unlike us, in their country they do not favor neat right angled bends. If a short cut from one point to the other is possible, rather than stumpy appearance, the Englishman is inclined to take his busbar direct across from point to point. The effect is not nearly so neat in appearance, but the efficiency is certainly not impaired in any fashion. Perhaps from the point of view of maximum results this system would be hard to beat.

Still, in Australia, when busbar is used the constructor prefers neat, right angled bends, relying on an efficient layout to maintain his short

leads. This appeals to the aesthetic taste to a marked extent.

There are a few tools required for this system of wiring—for all systems for that matter. Firstly, a pair of square nose cutting pliers are necessary, as is also a pair of round nose pliers for making the neat loops at the ends of the busbar to fit under the terminals or nuts of the various components. Then, of course, the inevitable soldering iron and soldering flux and some soft solder. There are also available some patent soldering outfits such as Wunderflux and Resin Cored Solder. These are certainly good, and are preferable to many of the so-called fluxes on the market to-day. Never under any circumstances make use of spirits of salts in a wireless set, it is unwise. Still more about this in another article at some later date. However, with these tools, and the necessary busbar, everything will be plain sailing.

Suppose now that the constructor has all the panel components assembled on the panel, and the hand-board parts laid out correctly. The terminal board should very rarely be screwed into position before commencing the wiring, but individual cases are governed by circumstances.

Now, at the very outset let it be understood that there are no hard and fast rules for wiring any receiver. Individual sets call for individual attention, but let us, as far as is possible, lay down as many principles as we can. Firstly, wiring is governed by the access to the different components. It sometimes happens that

there are so many parts assembled in a small space that it is scarcely practicable to screw the panel to the baseboard before commencing the wiring.

Such being the case, always wire the panel components before assembling the panel to the baseboard. Now on the panel there is invariably one or two rheostats, a battery switch, and variable condensers. Seldom today do we find the coils attached to the panel. To commence wiring, have all the requisite tools handy, as well as the circuit or wiring diagram. Examine this wiring diagram and note just how many connections may be made to the panel parts. Take the rheostat for example. In every receiver where two or more rheostats are employed, it is necessary to link together one side of each rheostat.

Pick up a length of busbar and with the round nosed pliers fashion a small loop at the end, big enough to fit over the threaded portion of the connection. Incidentally, at the very outset it is advisable to take off every nut under which the connections are to be clamped, these nuts, such as are found on the valve sockets, transformers, etc., are best kept in a small box alongside on the bench. Having fashioned the loop necessary to fit on one rheostat terminal, place this loop in position and measure the distance to the other terminal, gripping the busbar at that portion where the second loop is required. Lift off the busbar and at the required point, using the round nose pliers, give the busbar a slight kink backwards on the correct plane, of course, and bend this busbar around the round nose until a loop is almost fashioned. Cut off the remaining busbar and close the second loop. Fit this wire into position.

Gauging the distance correctly is the most difficult portion of stiff wiring. Perhaps two or more attempts may be resorted to before a neat connection is made, but don't be afraid to try, try again until you have succeeded in getting the correct length between two points. Later, as you proceed, you will be surprised at just how accurate you will become, and after practice, one becomes accomplished at finding the distance by eye measurement. Still, practice accomplishes much in every sphere of life.

Coming back to the actual wiring, it generally happens that a filament switch is connected to the common busbar between two or more rheostats. In this case run the wire from the farthest away rheostat to one side of the battery switch, that side which is nearer to the level of the rheostat. Make the loop as before, and bring the busbar low or high, according to the level of the battery

switch terminal and bend the busbar so that it runs straight from one point to the other and parallel with the top or bottom of the panel. Fit this wire in position and then shape a small piece of busbar from one terminal of the remaining rheostat so that it touches the already placed wire. At the spot where it touches make a neat right angled bend so that there is approximately 3/8ths of an inch remaining parallel with the common wire. This is known as a scarf joint and permits of a good soldered connection.

Apply a small portion of the fluxite used to this scarf and with a properly heated iron solder the connection. Sometimes again, the earth terminal is mounted on the panel and the rheostats are connected to this earth terminal. In this case take a straight lead from the earth terminal to the battery switch, if each is at the opposite end of the panel, and make intermediate scarf joints from the rheostats. Later on a battery wire is run from the terminal board to the remaining side of the battery switch, but, of course, this is one of the last wires to be fitted.

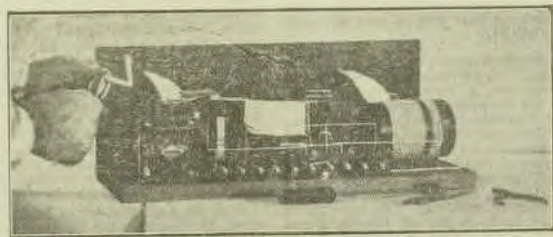
Next the baseboard parts call for attention. Generally, when two or more valves are used, one filament side of each valve socket is connected together. Don't worry with the positive and negative markings on the sockets themselves, forget about these altogether and make the negative filament and the positive filament terminals to suit your wiring. On the baseboard keep all wiring low, so keeping this fact in mind, make a loop to fit on the outside filament terminal of the first valve socket and shape the busbar down to within an eighth of an inch from the baseboard and run it along to the outside filament terminal of the last valve socket. The busbar will, of course, be shaped up to meet this terminal and a loop made, half closed as before, the spare busbar cut off and the loop closed and fitted over the cor-

rect terminal. Dive into the nut box, locate the correct nut, screw them over the busbar loops tightly. Next make intermediate scarf connections from each socket soldering as before.

This matter is indeed simple provided the valve sockets are in line, but when each socket is staggered from its neighbor a little ingenuity is called for to shape the one common filament busbar around the different components. In actually making a right angled bend squeeze into shape with the pliers and hold up to the level of the eye examining it far true shape. A touch with the pliers here and there will soon resolve the correct bend. Now look to see that the loop is on the right plane, if not, rectify it. Measure carefully the distances in all cases, and when connections are cut too short, discard that length of busbar altogether and start afresh. The mishapen portion will be very handy for short connections. Not much busbar goes to waste after all.

Look again at the circuit diagram and find if there are not two valves controlled by one rheostat. If so, then link together the two remaining filament terminals of the valve sockets in question ready for linking up to the rheostat when the panel is mounted in position on the baseboard.

Complete the filament wiring as far as is possible then turn attention to the audio end of the receiver. Wire backwards, so to speak. Take the plate terminal of the last and valve socket to one side of the jack, shaping correctly. Then the grid terminal of the same socket to the grid terminal of the audio transformer governing it. Here, as often as not, the busbar requires shaping from the valve socket upwards to the transformer. This time build up, not down. Look for the valve socket, shape up, determine the correct height and shape accordingly, looping or soldering according to what is required. If there is a space intervening between the socket and the transformer,



Shaping the last wire in the Harkness Reflux.

IT'S ALL IN THE AIR

GOOD FRIDAY NIGHT CONCERT: Following the procedure adopted on Christmas night, when 2FC donated a programme to the Central Methodist Mission who gave a concert in the Lyceum Hall and raised a considerable sum of money towards building the Sydney Night Refuge, the same course will be followed, on Good Friday night. 2FC Station is giving the services of the following artists, and a collection will be made from the audience towards the funds of the new building. The Sydney Harmonic Choir, conducted by Mr. W. Bourne, will be heard in special Easter hymns. The Milano Vocal Trio, consisting of Norman L. Janson, Miss Joyce Hadley and Charles Stevens, will render trios and solos. Mr. Van der Klei, the noted Belgian cellist, Alexander Sverjensky, pianist, and Brunton Gibb, educationist. In the afternoon Miss Lillian Frost, who is shortly making her way home to England, will prepare an organ and vocal recital.

AUTUMN MEETING: To show the wonderful interest now being taken in broadcasting racing events in the running, 3LO, Melbourne, has secured permission to re-broadcast the descriptions of the following races by the 2FC Racing Commissioner: Saturday, 16th April, The Autumn Stakes and Doncaster Handicap; Monday, 18th April, Sydney Cup; Wednesday, 20th April, All Aged Stakes and Cumberland Stakes; Saturday, 23rd April, Randwick Plate. With the approach of the big Autumn Meeting at Randwick the racing correspondence received by 2FC occupies a very considerable portion of the time of some members of the staff.

COMEDIANS BOTH: Two new north mellers—Mr. Syd. Beck and Mr. Maxwell Carew—are about to make their bow before the microphone at 3LO, and their contributions, though widely different in style, will each be much enjoyed by listeners. Mr. Beck, already well known to many listeners, was a member of the "Serenaders" and dispensed fun at Manly for many seasons. In addition to his abilities as an entertainer, he is a champion swimmer. Maxwell Carew is a type of comedian new to 3LO; he sings the Swiss and Dutch type of comic song, and introduces the "yodel" which generally accompanies this class of ditty. The cry of the Swiss mountaineer should broadcast very clearly, and this novel contribution will doubtless be greatly enjoyed.

THE VICTORIAN STATE ELECTIONS: Public interest in politics always shows a revival about election times, the competitive angle probably appealing more than debates and parliamentary procedure. 3LO is installing a special transmitting set inside the Tourist Bureau, Melbourne, which will be one of the main posting centres, and listeners will know the figures for each electorate the moment they come to hand. Votes will be counted up till midnight, and 3LO will continue its service up to that hour.



Miss Vera Spaul, ambrette, a regular 2FC entertainer. Miss Spaul was to have appeared in the pantomime Aladdin, but was prevented from doing so by a sudden illness.

ANZAC DAY: Anzac Day is always a crowded one as far as the broadcasting stations are concerned. Each year 2FC has broadcast the Soldiers' Re-union, which takes place in the basement of the Sydney Town Hall on Anzac afternoon. From all over the State old soldiers foregather, and sing songs to their hearts' content. These are generally led off by such favorite vocalists as Miss Dorrie Ward and Mr. W. E. Lewis.

SIXTEEN NIGHTS OF STIRRING NARRATIVE: Commencing on the Tuesday after Easter that much-travelled man, Dr. Brook Nicholls, will entertain 3LO Melbourne's lucky listeners with a consecutive story of his experiences on the Great Barrier Reef, Queensland, Motoring in New Zealand, Exploring in Central Australia, and Whaling in Southern Seas, interspersed with such everyday affairs as turtle-raising and little things like that. He will make sixteen consecutive nights of it, and there will be many listeners who will wish he would make it sixty.

Coming Features in the Broadcasting Programs

THE DUKE'S VISIT TO MELBOURNE: When the Duke and Duchess arrive in Victoria the public will regard them more as established acquaintances than strangers, for the broadcasting of so many of the Sydney functions, including the Duke's speech, has paved the way. For the arrival of the Royal Party in Melbourne special efforts are being made by 3LO. A special descriptive announcer will be aboard the pilot steamer "Akuna," which will see the "Renown" at the Heads and accompany the Royal ship up the bay. A portable transmitting set, specially constructed for such occasions, will be used, the message being picked up at a point on shore and relayed to the station. At St. Kilda another announcer will describe the arrival of the Duke and Duchess and the commencement of the procession, whilst in the city streets, still another announcer will depict the incidents from a straggling. Speeches and receptions are all adequately covered in the programme.

ROYAL SYDNEY APOLLO CLUB: This fine combination of eighty or ninety male voices is one of the outstanding features in the musical life of Sydney. Their concerts at the Conservatorium are eagerly looked forward to, and 2FC have had the pleasure during the past two years of broadcasting these concerts with distinct success. The first of the 1927 series is to be held at the Conservatorium on Tuesday evening, April 19. The Apollo Club will be heard in some very fine numbers, and the assisting artists include Miss Gladys Verona (soprano), Mr. Jules Van der Klei, Belgian cellist, and Mr. Wilfrid Thomas, the rising young Sydney basso.

A TREAT FOR THE CHILDREN: Boys, and girls too, who enjoy "Treasure Island," and the adventures of Francis Drake, and other deeds of derring do, will be glad when they tune in to the Children's Hour and hear Captain Donald MacLean telling them such tales and making the other ring with the prowess of heroes. 3LO has not yet forgotten that it was boys and girls itself once, and not too long ago, neither!

ANOTHER ELVINS PIANOFORTE RECITAL: Harold Elvins will begin another series of his Pianoforte Recitals on Tuesday, April 19. These cultured studies on the pianoforte are proving of great value to students as well as to those who love the piano for its own sake.



Miss Edna Davis, at present in Melbourn, but shortly to return to Sydney, where her Lyceum will be heard from 2FC.

LEE WHITE LIKELY TO BROADCAST STILL YET AGAIN! If there is any one popular favorite in Australia who can most certainly lay claim to being the diva of broadcasting in all but age, surely it is that delightful Lee White whom Rumour in an extra reliable mood, insist will reappear at 3LO shortly. Lee White first reached Australian ears the ethereal way as early as 1923, when she sang at Pal's in Sydney in the days before broadcast with the help of an experimental wireless set involving shilling gulch for a hospital appeal. There are people who date their interest in wireless from that suspicious occasion and there will be others also glad to hear her happy comedy again.

"JERRY" TO THE FORE: When it was decided that "Jerry," the insatiable doll at 2FC, should be transferred from the Children's Session to the Night Session, we little realised the storm of protest which would be aroused amongst the juveniles. Realising what a firm favorite "Jerry" is with the children, "Uncle Bud" has decided to fall in with the wishes of the young folk, and for the future "Jerry" and "Mr. Gink" will assist "Uncle Bud" and the "Hello Man" on Monday evenings.

THEY WANT IT AGAIN! It is very seldom that Mr. Russ Gurling can be persuaded to repeat any jokes or sketches over the air, but the demand for another performance of his brilliant lecture on "How to Build a 2-Valve Set" has been so great, listeners will have an opportunity of hearing it once more on Monday, April 18.

MR. SYD. EXTON: Few artists are so deservedly popular at 3LO as Mr. Syd. Exton, whose artistic rendering of early English ballads has been so greatly enjoyed by listeners. Mr. Exton, the possessor of a tenor voice of rare purity and flexibility, has studied his art abroad both in France and England, and, on the ballad side, has devoted himself to compositions of the "Drink to me only with thine eyes" type, that require careful rendering to be effective. In addition, Mr. Exton has had considerable experience in oratoric work, both in England and New Zealand, and this Easter tide will find him a particularly busy man, for not only has he been engaged as tenor soloist for two performances each of "Oliaset to Calvary" and "The Crucifixion," but, in conjunction with the Melbourne Philharmonic Society has been selected to fill the important tenor role of the ever-popular oratorio, "Elphah."

MISS BILLIE LOCKWOOD, the young Australian comedienne, will be welcomed back to the programmes of 3LO, Melbourne, by all listeners. Although still in her "teens," Miss Lockwood has had a brilliant career, and is still enjoying it. Miss Lee White discovered her talents and featured her in several musical comedy productions, including a London engagement. Vaudeville, pantomime and revue have also been fields of conquest for Miss Lockwood. Mention of Lee White recalls the fact that Lee White and Clay Smith are probable stars in 3LO programmes in the near future.

TO ASSIST SHIPPING Broadcasters (Station 2BL) broadcasts a daily Ocean Forecast at noon, immediately following the Chinese.

UNIVERSITY CONSERVATORIUM CONCERTS: The fortnightly Miniature Concerts to be arranged by the University Conservatorium, under the direction of Professor Bernard Heinz promise to provide music not only of a superior character but also most delightful to listeners whose taste is in the least well formed. Anyone beginning such a course with merely a grudging determination to tolerate classical music as in duty bound, will probably find at the end of the course that it has grown upon him to such an extent that he will have learnt to appreciate good music better than ever before. With such players as Herr Louis Hattenbach and his beloved cello, and Edward Gull at the piano, these concerts will make their duration of three-quarters of an hour seem not overlong, and should help to form a very pleasant taste for good music among 3LO listeners-in.

THE RADIO SERIAL PARCE came to a successful close through Station 2FC on Tuesday evening, April 5. From the many hundreds of entries received, the following prize winners were selected:—1st prize, £4, Mr. John Pearse, 9 Church Street, Canterbury; 2nd prize, £2, Mrs. E. B. Holdsworth, "Ingleside," Waitara; 3rd prize, £1, Mrs. L. W. Spiers, Ballar Avenue, Hornsby.

The following received prizes of 10/- each:—Mrs. Linda Lee, "Craiglen," Milsons Point; Mrs. Estelle Hinchcliffe, "Lauranne," Hannah Street, Durrroft; Miss Annie Clark, "Hill Top," Arncliffe Road, Arncliffe; Mr. B. Waring, 42 Junction Road, Summer Hill; Mrs. Joan Harris, No. 4 Flat, 85 Kurraba Road, Neutral Bay; Mr. E. B. Maslin, c/o Mrs. Johnston, "Fern Glen," Leichhardt Street, Katoomba.

MADAME ELSIE DAVIES, the well-known soprano, who has made a wide circle of friends among listeners, has arranged another of her concerts, in which she has the support of a few of the more advanced of her pupils. Most listeners are aware that Madame Davies has had considerable operatic and concert experience abroad, and has returned to Australia to undertake the training of some of our most promising young vocalists. Her pupils (the majority of whom show excellent promise) gave a concert last year from 3LO, and she has been besieged with requests to repeat the experiment.



David Craven, baritone, a broadcast of some experience and operatic ambitions. Mr. Craven is heard regularly from 2FC.

In the Wake of a Cyclone.

OF all the devastating cyclones and floods that have swept Northern Queensland few, if any, have eclipsed the last.

Owing to the break in the main Cairns-Brisbane telegraph service, communication with the stricken North was practically cut off. The auxiliary line via the Gulf, Cloncurry, and thence to Townsville was tried, but traffic became congested owing to leakages, mutilation and overloading of the lines.

Amateur radio was then requisitioned to bridge the gap.

At the instance of the Telegraph Department, Station 4AN, of Brisbane, was raised by 4BW, of Mareeba, so as to establish reliable and speedy inter-coast communication between Cairns and Brisbane. With difficulty this was at last accomplished, when it was learnt that 4B's aerial system had been blown away, and that he was utilising a temporary 6ft. mast to secure contact with 4AN.

Under enormous difficulties these two men cleared much of the press and private traffic until the main line was restored. 4BW, struggling with failing batteries, poor aerial, severe static and fading, worked day and night to link the North with the South, whilst 4AN stuck to his post, and despite the difficult receiving, copied each message accurately.

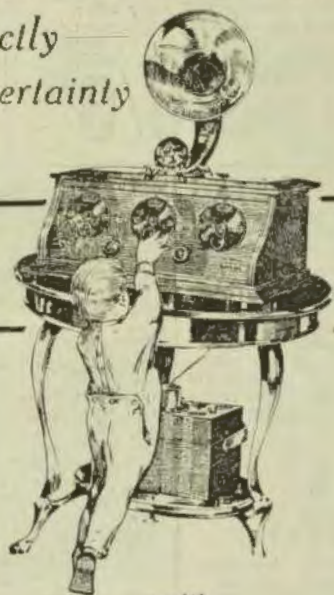
Mr. Leighton Gibson (4AN) and Mr. Andrew Couper (4BW) deserve recognition for their splendid services. They both have the true "ham" spirit, however, and are only too pleased to lend a hand without looking for recompense or publicity.

See full story in this issue of "Radio."

OLD FAVORITES.—Among the artists who have been away on successful tours, but who are now wending their homeward way towards A.O., where they have been engaged to broadcast for a short season, may be mentioned Mr. Colin Crane, of the sonorous baritone voice—singer of character songs of the "Strollin' Vagabond" type, and the Estelle Mark Trio that delightful combination of voice, violin and piano, that has already given so much real pleasure and enjoyment to listeners.

JEROME F. VEIO, Oakland, California, reports reception of 7ZL, Hobart. He gives details of the programme, which have been verified by Mr. Sidney Laws, manager of the station. Mr. Veio states he used "a 14 tube receiver designed and constructed while in the U.S. Navy; it utilizes ten stages of cascade radio frequency amplification."

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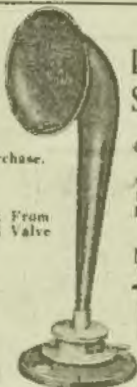
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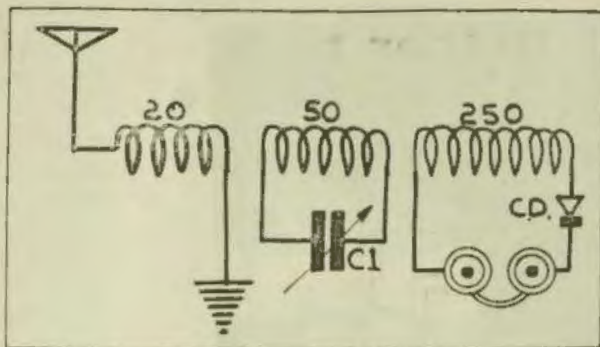
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2BL
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An Inexpensive Crystal Set

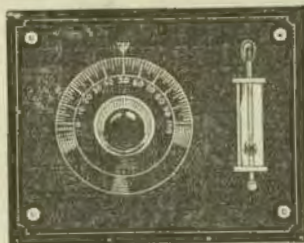
On which your friends may hear Melba and the Duke of York at Canberra

THERE is always a fascination about a crystal set. Six out of every ten people, who become wireless enthusiasts, begin with a crystal set. As they progress they become valve enthusiasts, and in many cases multi-valve users, yet there is always the soft spot in their hearts for the crystal set.

How often has one visited the home of another listener to hear his big valve set and been proudly shown a simple little crystal set which started the worthy host on the long trail of condensers, valves and transformers, the components of his present receiver. The writer with pleasure remembers his first crystal set many years ago and still enjoys listening on a crystal receiver.

Who is there to gainsay the pure quality of music, speech, etc., the output of a crystal set? How pleasant it is to sit wearing the 'phones, listening in to the local stations, and hearing every item sweetly and clearly. Many critics are inclined to say that a crystal set is alright but there is not sufficient volume in any one. We agree with them to a certain extent because we realise that a crystal set is not loud enough to be heard on a loud speaker, but for the purpose of earphone work, even two or three pairs, a crystal receiver is perfectly satisfactory within 30 miles of the average Australian Class Broadcasting Stations.

In supporting the use of a crystal we do not for a minute wish to detract from the qualities of the single valve set. Really there is nothing more interesting than a well constructed single valve set, but still



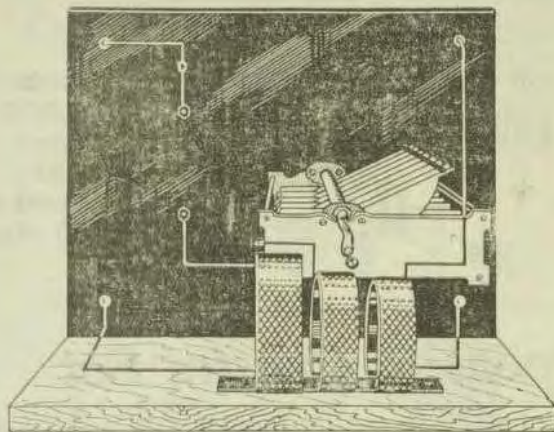
the crystal has its province. As mentioned above up to 30 miles a crystal receiver is quite good. Occasionally we hear of instances where a crystal set has been successful in picking up inter-State stations, but these are exceptions rather than the rule. The writer remembers on one occasion listening for half an hour to 3LO, Melbourne, on a crystal receiver located at Punchbowl, Sydney. The reception was clear and sweet and just loud enough to be heard comfortably. This feat has been repeated a few times since but not consistently.

The great drawback with the average crystal set is its lack of selectivity. As often as not two and sometimes more stations are heard at once producing such a jumble of sounds to cause lack of interest. Some folks' purse-strings won't extend to a valve set, hence the pleasures of wireless are debarred them. This set being described is selective, is simple to make, and, above all, is cheap to build.

On November 12th, 1925, there was

described an extremely selective crystal receiver known as The Hamil Crystal Receiver. This receiver earned its popularity, so much so, that there is not a back copy available. The Hamil was unfortunately a little bit expensive to build, so this one to-day will have its appeal.

There are many contributory causes of lack of selectivity in a crystal set. The old single slider—a straight out single circuit receiver, popular a few years ago—is in most instances extremely unselective. Realising this many altered their sets to the double circuit receiver, better known as a loose coupler. This while being a vast improvement frequently proved inefficient from the selective point of view. The Hamil, employing, as it did, a few turns only of aerial coupling, was far and away the best arrangement, and is still hard to beat. We don't wish it to be understood that this week's receiver replaces the Hamil, far from it, although it will be found equally selective. This is essentially a cheap receiver, combining ease of handling and selectivity. The principle is that of a wave trap. The aerial coil of 20 turns is untuned and is placed alongside the trap coil of 50 turns, which is tuned. The manner in which these coils are placed relative to each other permits the energy from the aerial coil to be picked up by the wave-trap coil. This is known as inductive coupling which plays a most important part in the matter of selectivity. The energy from this tuned or middle coil is next conveyed inductively to the large outside coil, the 250 turn coil, in the circuit of which are the



Nothing could be simpler than this layout of panel lay-out.

crystal detector and the headphones. Those who can read a circuit will appreciate just how selective this arrangement is, and being selective it means that any one station can be listened to without interference from any other station. Tested on our standard aerial (78 feet over all) at Marzkeville all the local stations were heard nicely, each one apart, and the volume was sufficient for two pairs of headphones.

On the auspicious occasion of the opening of the Federal Houses of Parliament by the Duke of York on May 9th of this year, the whole of the proceedings will be broadcasted from all the A. & S. stations in the Commonwealth. To hear these proceedings a crystal set will be as good as a multi-valve set, and people who cannot attend the big set will find enormous pleasure in listening-in on this crystal set, which can be made for less than £1.

The parts required are few and if unavailable from the junk heap may be had from any of the advertisers in "W.W."

- 1-Dilecto or Radion Panel (8x7x) or 2-1/2".
- 1-0005 Advance Variable Condenser.
- 1-Crystal Detector
- 4-Terminals.
- 1-21 var. Honeycomb Coil, un-mounted.
- 1-50 var. Honeycomb coil, un-mounted.
- 1-250 var. Honeycomb coil, un-mounted.
- 1-Crystal.

- 1-Length busbar.
- 2-Strips of Dilecto or Radion 1/2x1 1/2".

1-Baseboard 8x7x1/2".
The back of panel wiring diagram will show the layout of the parts. The honeycomb coils are mounted next to each other and are screwed to the baseboard. The method of mounting is shown on the sketch. The three coils are placed next to each other with the 50 turn coil in the centre on the 20 turn coil, one-eighth of an inch away on one side and the 250 turn coil a similar distance away on the other side. These coils should all be running in the same direction and are clamped between the dilecto strips. As the 250 turn coil is much deeper than the other two, a small amount of packing will be required on the inside of the two smaller coils, to hold them rigidly in position. Short strips of Dilecto or Radion will suffice nicely for packing purposes.

Next mark out and drill the panel for condenser, detector and terminals, not forgetting the three screws for fixing the panel to the baseboard. Some condensers only require a 1/4 of an inch hole for mounting, others require two or three fixing holes. Invariably in this business a template is provided by the manufacturer to simplify the drilling, failing which a template may easily be made from a piece of thin cardboard.

Drill the holes for the panel components and mount the parts therein. The crystal detector position may be varied to suit the particular detector employed. When this is mounted be

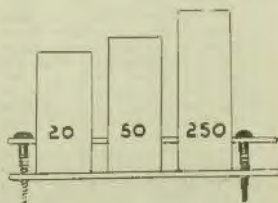
sure that the arm is free in its action as always there are one or two extremely sensitive points on any crystal, and it is always the object to keep to these points for loudest reception.

Now screw the panel to the baseboard, which should be smoothed off with sandpaper and given one or two coats of shellac varnish. The coils are mounted immediately behind the condenser on the baseboard as described previously, with the beginnings and the ends protruding in such a manner that they are of easy access for wiring.

WIRING.

The wiring is the matter of a few moments. Firstly the beginning of the aerial coil—the 20 turn coil—is taken to the aerial terminal, and the end of this coil is joined to the earth terminal. This coil is not connected to any other part of the circuit in any way. Now the centre coil, the fifty turn coil, is connected to the variable condenser. The beginning of this coil is linked to the fixed plates and the end to the moving plates—no third plate, mind you. In the last coil, the 250 turn coil, the beginning is taken to one phone terminal and the end to one side of the crystal detector. The other side, it doesn't matter whether it is the crystal or the cat whisker side, is joined to the remaining phone terminal, thus completing the wiring. Busbar may be used if desired or soft wire run through spaghetti tubing may be resorted to.

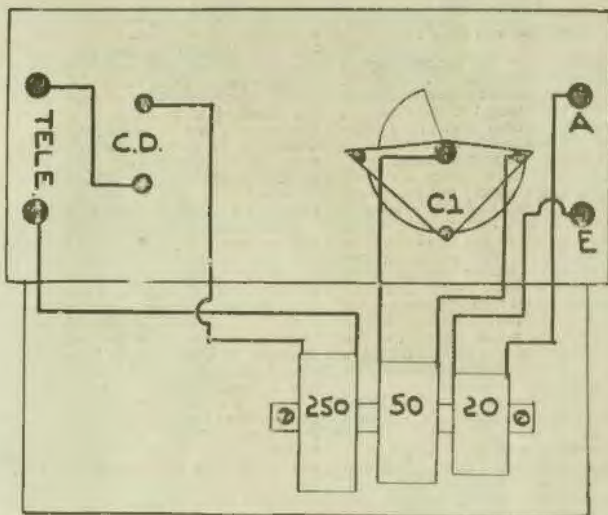
Before finalising it may be well to point out that the honeycomb coils may be dispensed with if desired and an ordinary 3/4 inch cardboard former wound with the requisite number of turns may be substituted. Obtain a cardboard tube 3 or 3 1/2 inches in diameter and 9 inches long. Leaving a space of 1/4 of an inch from one end, pierce two holes and thread the beginning of a reel of No. 24 gauge D.C.C. wire through one hole and up through the reel, and then back through the first so as to hold this wire securely. Now wind on 20 turns of wire and finish off by securing through two more holes. In a simi-



Showing how the coils are mounted.

lar manner and in the same direction wind on 50 turns of the same gauge wire, leaving a space of approximately 1-16th of an inch between the two windings. A third winding of 250 turns of No. 30 gauge D.C.C. wire is commenced 1-16th of an inch away from the 50 turn coil and carried on right to the end. It will be seen that the number of turns correspond to the numbers of turns on the honeycomb coils. The 20 turns is the aerial coil, the 50 turns the trap coil, and the 250 turns the crystal detector 'phones coil, and are connected in the previously described fashion. Remember that the cardboard tubing should be well shelled before being used.

When everything has been completed connect up the aerial and earth and 'phones. Leave the moving plates of the variable condenser right out and gradually bring them in. Soon you will hear 2KY, next to that with a little more of the moving plates cranked into the fixed will 2GB (Theosophical Station) be heard. Further around the dial 2BL (Broadcasters) will respond, and still further around will be found 2FC (Farmer's). You will note that each station is quite apart from the next—not once when properly tuned will two stations be heard at the one time. The receiver is certainly selective, and the volume is satisfactory. Find the most sensitive spot on the crystal and listen in to the item. Hear each station announce their call sign and note the position on the dial. Every time you turn to this setting this station will be found, and this applies



The back of panel wiring diagram.

to all stations. The tuning is so simple that a child can manage it.

In order to provide for more than one pair of 'phones double 'phone terminals are available in many shops. The terminals have two holes and two clamping screws in each, thus serving the purpose defined.

2FC and 2BL Transmission.

LONG WAVE STATION.

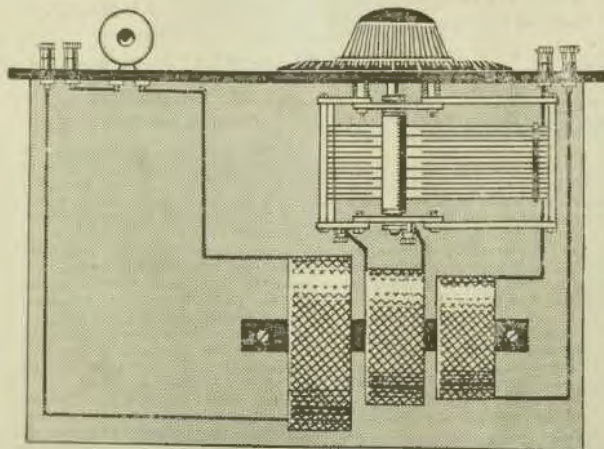
Dear Sir,—When 2FC and 3LO broadcast on 1100 and 1760 metres respectively, I could work them comfortably at any hour of the day, but since they have both come down, 3LO is non-existent during the day, and 2FC only comes in during 7 and 8 a.m.—very fuzzy after that. The only station I can work during daylight is 4QG, which is received beautifully, day or night. Sometimes I can, with a very fine adjustment, hold 2BL between 7 and 8 a.m. but only when weather conditions are exceptionally favorable. I have conversed with many set owners in this district, and they all report practically the same results ever with five-valve sets.

May I make a suggestion to help popularise radio in the country? Let us have an A class station on about 1,100 metres, so that we can have daylight reception, as in the country news is wanted. During daylight, for our daily papers, arrive two days after publication, and the countryman is not a night bird. I feel sure that if we could get a long wave station, radio would go ahead by leaps and bounds in the country, and the extra revenue obtained would, I think, amply repay the extra cost of working.

Yours, etc.,
V.W.

Mount Russell.

The cardboard lay-out.



Wiring

Continued from Page 10

rather than have the horizontal portion of the busbar up on the level with the transformer connection, keep it on the level with the valve socket, raising the vertical portion up close to the transformer's side. This is by far the neater arrangement.

Continue to wire from the back until the audio stages are completed excepting for the B battery connections to the first transformer, which are later joined to the B plus of the terminal board for supplying the plate of the detector valve. Then wire the condensers to the coils, remembering at all times to connect the fixed plates of the condenser to that side of the coil which is taken to the grid of the valve. This overcomes hand or body capacity. Read that over again and memorise it.

The grid condenser should always be mounted directly on to the grid terminal of the valve socket to insure a short lead here where it is urgently required. Long grid and plate leads are to be avoided at all times and never permit the grid and plate leads to run close to and parallel with one another. This spells poor results. Where possible, keep these leads at right angles to one another—it is always best.

Finally, run in your leads from the terminal board. This careful article should have soldering lugs protruding beyond the edge of the terminal strip to allow easy soldering connections. Where the B negative is joined to the A positive or A negative as the case may be, and the C positive to the A negative, make these connections before fitting the terminal board in position. Then run the B positive amplifier to the bottom of the output jack and also to the B positive of the second audio transformer. Remember it may be best to run a trial from the terminal board to the back and make an intermediate connection to this common wire from the B positive of the second audio transformer.

Now cater for the B positive detector to the first transformer, then the A positive to the nearest bush in this portion of the circuit, likewise the A negative to switch or busbar, as may be required. The C negative is always joined to the E negative of the one or more transformers and the aerial and earth to these respective positions.

When the wiring is completed check off carefully, and rectify any errors before proceeding farther. It is usually good practice when wiring to mark off with a blue pencil on the wiring diagram each wire as it is connected into the set and when checking give a double tick. This is a means of ensuring that no connection has been missed.

With straight point to point wiring with Fort or Celastite the tactics employed are similar in many respects. Only when these no light angled boards are required, simply run straight across from one point to the other, and when intermediate joints are required a punkie is used to remove just the required amount of insulation to permit the join. Always solder joints, don't just twist them together and let them be, for corrosion will set in and dirt will gather all spoiling good results.

When spaghetti tubing and soft wire are used it is usual to connect the soft wire to the terminal and run to the other point, measuring off the distance and cutting the wire allowing sufficient for the second connection. The required length of spaghetti is cut off, and the soft wire threaded through just before the second connection is made. This process is repeated each time.

Finally, always run your wires, irrespective of type, in such a manner that none of the components are fouled in their action. For instance, one is inclined to overlook the fact that the moving plates of variable condenser when rotated, cover a large area, and frequently it happens a wire is taken right across the path of the moving plates without thought. The same applies to valve sockets, moving coils, etc., so remember always to think before wiring. Exercise thought and care in wiring, and the result will be not only a neat set in appearance, but an efficient set in operation.

Rip Van Pedagogue

Continued from Page 5

waking. When school had been dismissed for the afternoon he still lingered. Hostess and guest chatted together pleasantly.

"I say, Miss Brown, how did the wireless work in schools before they brought out the etherscope?"

"Quite well," was the reply, "but, of course, the etherscope has helped a lot. Back in '25 you remember that there were only about half enough teachers to go round. A teacher's lot was a hard one then. But once the authorities began to grasp the possibilities of wireless and the help given by BLO our troubles seemed to vanish in a day. The etherscope and television completed our deliverance."

"But how do you manage about discipline? I remember that that was the chief objection raised against wireless instruction by the great, though old-fashioned, educationalists of my day."

"Yes, yes," said Miss Brown, quickly. "I recollect my own school days. The trouble was that educational au-

thorities prided themselves they were practical when they were merely pig-headed."

"Quite true," agreed Pedagogue, "but that does not answer my question."

"It was coming to that," replied Miss Brown good-naturedly, for she realised that Pedagogue was old and impatient. "Now that we are able to use the etherscope as well as broadcasting instruction is concentrated at one point, and by being able to move that point to any place on the world's surface we are able to make our lessons so interesting and absorbing that the children forget to make mischief; and in any case I am here to see that they don't, unlike your teachers. I have more time to watch them since the actual work of instruction is taken off my hands."

Miss Brown changed her tone, and, with it, her topic.

"I don't wish to appear rude, Mr. Pedagogue, but what are your plans? Can I help you in any way?"

Pedagogue's mind worked rapidly. His one desire was to go back as master to his old school. Was it possible? There was Miss Brown. He could not oust her. She certainly was prepossessing. He wondered. That look in her eyes. Was it pity, or something greater? Could he hope.

A rich warm light seemed to break into his gloom and lighten the years ahead of him.

But, and all stories of this kind have their "buts"—his bliss was shortlived. The cruel horny hand of fact reached out from the year 1927 and dragged poor Pedagogue back to the strenuous routine of a teacher in pre-wireless days.

In other words, HE WOKE UP.

How 2FC was heard in England

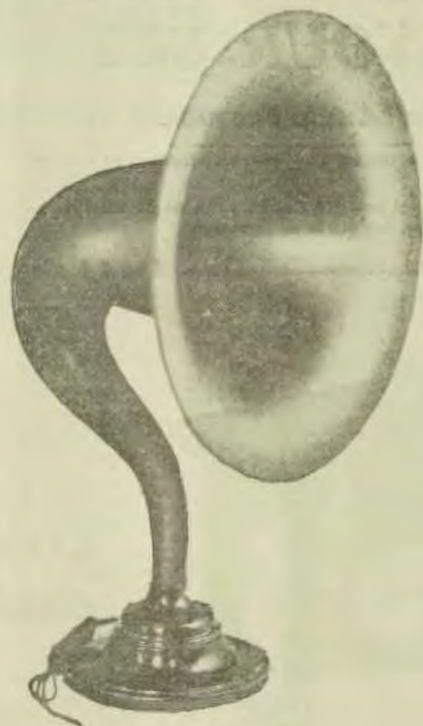
Continued from Page 7

Another peculiar circumstance is that the logging in England showed the call as—"Hallo, Hallo, England; Hallo, Hallo, Scott Duck; Hallo, Hallo, Royal Mail Steamer 'Oronsay'; Hallo, Hallo—"

The only announcer in Australia who makes the pronunciation of "Hello" in the form of "Hallo" is Mr. Laurence Herbert, who was announcing on the mornings of those tests.

In regard to the Indian reception on the 9th March, reference to the 2FC log shows that Mr. Cochrane was on duty at 7 a.m. (Sydney time) which coincided with 2.30 a.m. (Indian time). The reference to the chimes strengthens the proof of reception as Mr. Cochrane is the only announcer from 2FC who used the chimes in the early morning sessions.

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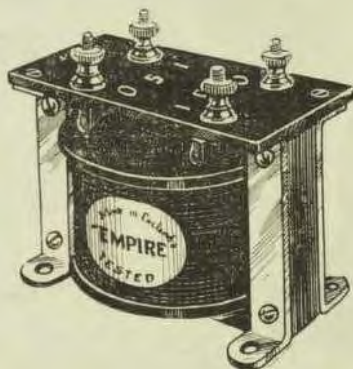
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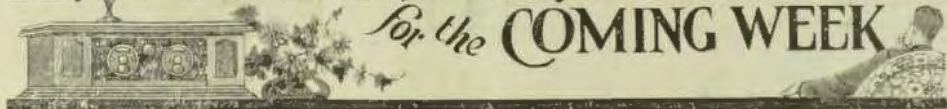
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BROADCASTING PROGRAMMES

for the COMING WEEK



Good Friday, April 15 2FC, SYDNEY

Farmer's Broadcasting Service.
Wave Length, 342 Metres.

MORNING SESSION.

- 10.55 a.m.—Programme Announcements.
- 11 a.m.—"THE GREAT ROOM ST. ANDREW'S CATHEDRAL, GEORGE STREET, SYDNEY—The Morning Service.
- 11.15 p.m.—FROM THE STUDIO: News Items.
- 12.30 p.m.—Close down.

AFTERNOON SESSION

- 1 p.m.—"Big Ben" and Programme announcements.
- 2.5 p.m.—FROM THE CONGREGATIONAL CHURCH, PITT STREET, SYDNEY—A Combined Organ and Vocal Recital arranged by Miss Lillian Frost.
- 4.30 p.m.—Close Down.

NIGHT SESSION

- 7.30 p.m.—Programme Announcements.
- 7.45 p.m.—Miss Mill Meyer will continue her series of talks—No. 4, "Across the Lebanon Mountains."
- 7.48 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY—A Good Friday Night concert organised by Station 2FC in aid of the appeal for funds for the building of the Sydney Night Refuge. The Sydney Harmonic Choir, conducted by Mr. William Bourne,
 - (a) "The Palmers"..... Mrs. Bourne At the Grand Organ. Mr. Ewart Chapple
 - 8.00 p.m.—(a) Solo and chorus, "Jesu cum O Tere Vix" (from Gounod's *Gailla*) Miss Maudie Griffin, soprano, and the choir.
 - (b) "O Gladsome Light" (Sullivan's Golden Legend), (unaccompanied).
- 8 p.m.—The Austral Trio—
 - Miss Daisy Richards..... Violin
 - Mr. Van Der Klei..... Cello
 - Mr. Alexander Sverjensky..... Piano
- "First Movement of the Trio" (Alfred Hill)
- 8.15 p.m.—Miss Virginia Bassett, contralto—
 - (a) "Easter Hymn" (Brazill), contralto—
 - (b) "Tip Toe" (Molly Carey).
- 8.25 p.m.—Mr. Charles Stephens, tenor.
- 8.28 p.m.—Mr. Branton Gibb, Entertainer—"The Vener's Presentation" (Soprano).
- 8.40 p.m.—Mr. Norman Janson, baritone.
- 8.50 p.m.—The Austral Trio (Instrumental)—
 - (a) "The Woznympf" (Hand).
 - (b) "Rondo alla Turca" (Mozart).
- 8.47 p.m.—The Milano Trio—Miss Joyce Hadley, soprano; Mr. Charles Stephens, tenor; Mr. Norman Janson, baritone.
- 8.55 p.m.—Interval—Organ solo by Mr. Ewart Chapple.
- 9.0 p.m.—The Sydney Harmonic Choir, conducted by Mr. William Bourne, At the Piano—
 - Mr. W. Bourne At the Grand Organ..... Mr. Ewart Chapple
 - Ladies' Chorus "The Lord is My Shepherd" (Schubert).
- 9.10 p.m.—Miss Virginia Bassett, contralto:
 - (a) "Home" (Davis).
 - (b) "Silver Ring" (Chaminade). (By Request).
- 9.15 p.m.—The Austral Trio (Instrumental)—
 - (a) "Three-Four" (Coleridge Taylor).
 - (b) "Polish Dances" (Scherzetto).

- 8.26 p.m.—The Milano Trio—
 - Miss Joyce Hadley, soprano.
 - Mr. Charles Stephens, tenor.
 - Mr. Norman Janson, baritone.
- 8.32 p.m.—Mr. Branton Gibb, Entertainer—"The Denominational Gardens" (Solo).
- 8.40 p.m.—Miss Joyce Hadley, soprano.
- 8.48 p.m.—The Sydney Harmonic Choir, conducted by Mr. William Bourne—Part Song, "Hymn to Music" (Dorley Buck), (Unaccompanied).
- 9.06 p.m.—Radio Announcements.
- 9.10 p.m.—"Big Ben," National Anthem; Close Down.

- 9.59 p.m.—Mr. Stanley R. Collett.
- 9.55 p.m.—Mr. Bryce Carter.
- 9.54 p.m.—Miss Maudie Barrett.
- 10 p.m.—G.P.O. Clock and Chimes.
- 10.1 p.m.—Broadcasters' Trio.
- 10.11 p.m.—National Anthem.

2BL, SYDNEY

Broadcaster's Ltd.
Wave Length, 353 Metres.

Good Friday.

- 11 a.m.—Service broadcast from St. Jude's Church of England, Randwick.
- 3.30 p.m.—Concert broadcast from the Guild.
- 6 p.m.—G.P.O. Clock and Chimes; close down.
- 8 p.m.—G.P.O. Clock and Chimes.
- 8.10 p.m.—Mr. Clem Williams.
- 8.17 p.m.—Miss Marjorie Skill (soprano).
- 8.24 p.m.—Mr. Stanley R. Collett (tenor).
- 8.31 p.m.—Miss Dulcie Blair (violinist).
- 8.38 p.m.—Miss Maudie Barrett (contralto).
- 8.45 p.m.—Broadcasters' Trio.
- 8.55 p.m.—Resume of following day's programme.

Weather report by courtesy of Govt. Meteorologist.

- 9 p.m.—G.P.O. Clock and Chimes.
- 9.1 p.m.—Mr. Bryce Carter (cellist).
- 9.5 p.m.—Mr. Clem Williams.
- 10.13 p.m.—Broadcasters' Trio.
- 10.25 p.m.—Miss Marjorie Skill.
- 9.52 p.m.—Miss Dulcie Blair.

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

- 2FC.—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 342 metres, power 5000 watts.
- 2BL.—Broadcasters' Ltd., Sydney, wavelength 353 metres, power 5000 watts.
- 2GB.—Theosophical Broadcasting Station, Ltd., Sydney, wavelength 356 metres, power 500 watts.
- 2KY.—Trades and Labor Council, Sydney, wavelength 280 metres, power 1500 watts.
- 2LW.—Otis Sandel, Sydney, wavelength 287 metres, power 500 watts.
- 2IX.—Otis Sandel, Wazza, wavelength 300 metres, power 500 watts.
- 2MK.—Meckler Bros., Bathurst, wavelength 275 metres, power 250 watts.
- 2LE.—Electrical Utilities Supply Co., Sydney, wavelength 265 metres, power 250 watts.
- 2RE.—Burrin Electric Co., Sydney, wavelength 215 metres, 100 watts.
- 2ND.—H. A. Douglas, Newcastle, wavelength 288 metres, 100 watts.

3LO MELBOURNE

Broadcasting Co. of Aust.
Wave Length, 371 Metres.

Good Friday.

- MORNING SESSION
- 11 a.m.—SPECIAL SERVICE transmitted from ST. PAUL'S CATHEDRAL.
- 12.15 p.m.—Close down.

AFTERNOON SESSION

- Announcer..... ALFRED ANDREW
- Accompanist..... ALBERT FORTUNE
- 3 p.m.—STUDIO ORCHESTRA—
 - "Mendelssohn Melody."
- 3.10 p.m.—ELISE DAVIES, Soprano—
 - "From 'Mighty King,' Julia Macbride (Handel).
- 3.17 p.m.—TASMA THIERNAN, Cello—
 - "Romance" (Paganini).
- 3.24 p.m.—STATION QUARTETTE—
 - "Quintette for Clarinet and Strings in A" (Mozart).
- 3.34 p.m.—J. ALEXANDER BROWNE, Baritone—
 - "The Living God" (O'Fara).
 - "There is no death" (O'Fara).
- 2.40 p.m.—AGNE FORTUNE AND BESSIE GAUNSON, Piano and Violin—
 - "Sonata" (Handel).
- 3.55 p.m.—ELISE DAVIES, Soprano—
 - "How beautiful are the feet" (Handel).
 - "Ave Maria" (Gounod).
 - Violin Obligato, Brooke Sampson.
- 4 p.m.—STUDIO QUARTETTE—
 - "Air for 6 Strings" (Bach).
- 4.10 p.m.—RICHARD CRIGG, Flute—
 - "Second Sonata" (Piafitti).
 - Performed for the first time in Australia.
- 4.17 p.m.—J. ALEXANDER BROWNE, Baritone—
 - "The Lord is my Light."
- 4.24 p.m.—STUDIO ORCHESTRA—
 - "Movement from Symphony" (Beethoven).
- 4.50 p.m.—Close down.

EVENING SESSION

- 5.40 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.
- 5.55 p.m.—"BILLY BUNNY" will tell the Children a special story for Good Friday.

NIGHT SESSION

- Announcer..... MAURICE DUDLEY.
- Accompanist..... AGNES FORTUNE.
- 7.50 p.m.—STATION QUARTET—"VEGIPANNON," transmitted from St. Paul's Cathedral. And they came to a plain called Gethsemane" (Tenny's Solo).
- The Agony (Hans Solo and Chorus).
- Processional to Calvary (Chorus).
- And When They Were Come (Basso Recit.)
- The Mystery of the Divine Humiliation (Hymn).
- He Made Himself of no Reputation (Rock).

The Majesty of the Divine Humiliation
 O Lord, as Moses Lifted up the serpent
 (Helen, Harp).
 God on Loved the World (Chorus).
 Litany of the Passion (Hymn).
 Jesus said, "Father, forgive Them"
 (Dinner Solo).
 O Thou Who Lifted the Divine Passion (Duet).
 The Mystery of Intercession (Hymn).
 And one of the Malefactors (Solo and Solo).

2. Adventure of the Crucified (Hymn).
 When Jesus hereafter saw His Mother
 (Duet and Chorus).
 To Be Nothing to You (Solo).
 The Supper of the Crucified (Chorus).
 After this Jesus knowing that all things
 should be accomplished (Dinner Solo).
 For the Love of Jesus (Hymn).

6. 10.00—COLLINGWOOD CITIZENS' BAND
 From Kilburn: "The Heavens are Telling"
 (Hymn). "Amen."
 DIRECTIONS FROM "ELIJAH" arranged
 by WILLIAM O. JAMES.
 Baritone.

MAE DAVIES, Soprano.
 S. ALEXANDER BROWNE, Baritone.
 IMA LILLICRAP, Contralto.
 TOM SIMPSON, Tenor.
 MELBOURNE CHORAL UNION, under
 direction of WM. O. JAMES.
 Chorus. "Do not offend."
 MELBOURNE CHORAL UNION
 Tenor Solo: "I am praying for you."
 Alto: "I will sing thee songs."
 "TO BE NOTHING TO YOU"

COLLINGWOOD CITIZENS' BAND,
 Hymn, "Serenade." Alto and Soprano.
 Baritone, Solo: "Man of God."
 Alto: "I am a sinner."

S. ALEXANDER BROWNE,
 Chorus: "The worldling ever lasteth."
 MELBOURNE CHORAL UNION
 Baritone Solo: "As I Hear as Israel."
 IMA LILLICRAP, Alto.
 Baritone Solo: "Lord God of Abraham!"

S. ALEXANDER BROWNE,
 COLLINGWOOD CITIZENS' BAND,
 Hymn as Menae.
 Contralto Solo.
 Baritone: "Amen, Elijiah."
 Alto: "O Rest in the Lord."

IMA LILLICRAP,
 Chorus: "I thank be to God."
 COLLINGWOOD CITIZENS' BAND,
 Hymn.
 "I am praying for you."
 "It is well."

10.30 p.m.—"Argo" news service. An-
 nouncementally.

10.40 p.m.—OUR GREAT THOUGHT.
 The same was once spoken of dead wood,
 and a helmsman, representing man, was sailed
 to sea, it was thought that the world,
 and trampled, and will ever flourish over
 it.—Dove.

10.50 p.m.—God Save the King.

4QG. BRISBANE Queensland Radio Service.

Wave Length, 185 Metres.

Good Friday.
 NO MIDDAY TRANSMISSION.
 NO AFTERNOON TRANSMISSION.
 NO EARLY EVENING TRANSMISSION.
 NIGHT SESSION.

The continued Presbyterian Service will
 be relayed from St. Andrew's Presbyterian
 Church. This service will be conducted by
 Mr. Roy John Cook, B.A., B.D., and the
 Rev. J. W. Wilson, M.A., Organist, Mr.
 R. Dalley, chorale, Miss—Mrs. F.T.C.L.

7.30 p.m.—Anthem: "God So Loved the
 World" (Gaviner) (Prayer, Hymn; Lesson)
 solo: "He Was Deposed" (Handel), Mrs.
 L. Kingsford; Prayer and Lord's Prayer;
 "Calvary" (Rodney), Mr. James
 Hunter; Hymn, Intercessions and Oremos;
 Anthem: "Praise His Awful Name" (Spohr),
 Bertram, Rev. N. S. Miller, B.A.; Prayer,
 solo: "There is a Green Hill" (Gounod),
 Mr. N. S. Miller, B.A.; Hymn; Benedic-
 tion.
 9.0 p.m.—Close Down.

6WF, PERTH

Westralian Farmer's.

Wave Length, 1280 Metres.

Good Friday.
 11.00 a.m.—Tune-in.
 11.10 a.m.—Service relayed from St. George's
 Cathedral, Cathedral Avenue, Perth.
 9.0 p.m.—Close Down.
 9.6 p.m.—Tune-in.
 9.8 p.m.—Children's Bedtime Stories.
 10.10 p.m.—Stainer's "Jesu Christ" by St.
 Andrew's Choral relayed from St. Andrew's
 Presbyterian Church, St. George's Terrace,
 Perth.

Saturday, April 16 2FC, SYDNEY

MIDDAY AND AFTERNOON SESSION.
 EASTER SATURDAY
 11 noon—"Big Ben" and Programme An-
 nouncements.
 11.15 a.m.—"Tally Morning Herald" News
 Service and Weather Information.
 11.30 a.m.—A talk on today's prospects by
 the 2FC Market Commission.
 12.00 p.m.—FROM RANDWICK RACE-
 COURSE—The first race described in the
 course.

INTERSTATE "A" AND "B" CLASS
 BROADCASTING STATIONS.
 2LG.—Broadcasting Company of Aus-
 tralia, Ltd., Melbourne, wavelength
 251 metres, power 5000 watts.
 4QG.—Queensland Radio Service, Bris-
 bane, wavelength 285 metres, power
 2600 watts. Broadcasters' Ltd.,
 Adelaide, wavelength 300 metres,
 power 6000 watts.
 4TF.—Western Australian, Ltd., Perth,
 wavelength 1250 metres, power 8500
 watts.
 72L.—Tasmanian Broadcasters Ltd.,
 Hobart, wavelength 335 metres, 5000
 watts.
 5AR.—Associated Radio Co., Ltd., Mel-
 bourne, wavelength 494 metres, power
 7500 watts.
 21H.—British Business and Technical
 College, Melbourne, wavelength 268
 metres, power 500 watts.
 81Z.—O. J. Nilson & Co. Melbourne,
 wavelength 315 metres, power 100
 watts.
 4GR.—Gold Radio Electric Barrier, Too-
 woomba, Queensland, wavelength 294
 metres, power 195 watts.
 8KA.—Sport Radio 3.—Broadcasting
 Station, Adelaide, wavelength 356
 metres, power 1000 watts.
 12N.—SDN Pty., Ltd., Adelaide, wave-
 length 313 metres, 160 watts.

NOTE—Each event at the Randwick
 Meeting today will be fully described by
 the 2FC Race Commission.
 During intervals of racing, music (Items
 will be rendered from the Blodan, and dance
 music from the Winton and Life.
 Sydney, played by the New Westralian
 Symphonic Dance Orchestra, under the
 baton Mr. George Latham.
 1.00 p.m.—Evening News: Midday News Ser-
 vice. During the afternoon from the
 studios: Mr. George, Miss Troubridge—
 (a) "Hello Brisbane" (Herald).
 (b) "My Bundle of Love" (Solo).
 (c) "Let Me Live and Love" (Litham).
 (d) "The Girl in the Green" (Solo).
 4.30 p.m.—A Complete Resume of the Day's
 Sporting and Racing Events.
 6.0 p.m.—"Big Ben" Close Session.

EARLY EVENING SESSION.
 8.40 p.m.—The Chimes of 1FC.
 8.50 p.m.—The "Rose Ma" Talks to the
 Children.
 9.00 p.m.—A Social Easy for the Older Ones.
 9.30 p.m.—Dance Music.
 10.00 p.m.—"Big Ben" Evening News: Late
 News Service; Weather Intelligence.
 10.15 p.m.—A complete description of today's
 major Meeting at Randwick.
 10.45 p.m.—The crowds and the dressing.

NIGHT SESSION.
 8.5 p.m.—"Big Ben" Programme Announcement.
 8.55 p.m.—FROM THE CRYSTAL PALACE
 THEATRE, GEORGE STREET, SYDNEY—
 Orchestral items, under the baton of Mr.
 Harry Stone.
 9.10 p.m.—FROM THE STUDIO: Miss Alice
 Frowse, contralto.
 9.15 p.m.—Mr. Joe Cahill, Entertainer.
 9.20 p.m.—Miss Geladys Fimister, soprano.
 9.25 p.m.—FROM THE CRYSTAL PALACE
 THEATRE, GEORGE STREET, SYDNEY—
 The vocal quartet, to the new film, "THE
 BETTER GLE," sung by the four boys.
 9.40 p.m.—FROM THE STUDIO: The 2FC
 Studio Dance Band, conducted by Eric
 Pearce, assisted by the popular baritone,
 Mr. Len Maurice, "When Banana Skins
 are Falling" (Fraser).
 9.45 p.m.—Miss Alice Frowse, contralto.
 9.54 p.m.—FROM THE CRYSTAL PALACE
 THEATRE, GEORGE STREET, SYDNEY—
 Items by the Orchestra, under the baton
 of Mr. Harry Stone.

9.5 p.m.—The Radio Revellers, directed by
 Mr. Laurence Harbert, will sing their
 anthem, "The More We Are Together."
 10.10 p.m.—Miss Geladys Fimister, in an ap-
 pealing number.
 10.14 p.m.—A Comedy Sketch: Mr. Montague-
 ery Stuart and Miss Maura Leard.
 10.24 p.m.—Miss Peggy Deal, soprano.
 10.30 p.m.—Mr. Wally Barlow, the well known
 2FC Reveller, in new comedy songs.
 10.36 p.m.—The 2FC Studio Dance Band in
 vocal numbers. Conductor, Mr. Eric
 Pearce. Vocal choruses by Mr. Len Maurice,
 (a) "Hello Aloha" (Aloha), Fox-Trot.
 (b) "Looking at the World" (Mallet), Fra-
 ser-Trot.
 10.50 p.m.—Miss Geladys Fimister, soprano.
 10.54 p.m.—Some Radio Comedy Sketches by
 Mr. Montagueery Stuart and Miss Myra
 Leard.
 10.5 p.m.—"Big Ben" The 2FC Dance Band
 and the popular baritone, Mr. Len Maurice,
 Fox-Trot, "Lonesome and Sorry."
 10.5 p.m.—Mr. Joe Cahill, Entertainer.
 10.11 p.m.—Miss Peggy Deal, soprano.
 10.16 p.m.—The 2FC Dance Band and Mr.
 Len Maurice: Fox-Trot, "Stop It I Love
 It" (Gwen).
 10.20 p.m.—Mr. Montagueery Stuart and Miss
 Myra Leard, Comedy Sketch.
 10.24 p.m.—Mr. Laurence Harbert, baritone,
 "Christie, Christie, You Goodman."
 10.29 p.m.—The 2FC Dance Band and the
 Popular Baritone, Mr. Len Maurice: Fox-
 Trot, "Squid" (Mallet).
 10.34 p.m.—Finale by the Revellers, Chorus
 "The 2FC Studio Dance Band and
 Mr. Len Maurice, popular baritone—
 (a) Fox-Trot, "My Pal Harry" (Ross).
 (b) Waltz.

- 10.15 p.m.—"Off to Buffalo" (Candulla).
- 11.1 p.m.—"Moving Picture Artists on Parade" (Horn).
- 11.30 p.m.—"The Bell"—Late News and Announcements; Racing Information.
- 11.45 p.m.—FROM THE WENTWORTH CAFE, CHURCH HILL, SYDNEY. The New Wentworth Symphony James Orchestra under the Baton of Mr. Frederick Leighton. National Anthem.
- 11.55 p.m.—Close Down.

2BL, SYDNEY

Saturday.

- 12 noon.—G.P.O. Clock and Chimes.
- 12.15 p.m.—Special Ocean Forecast for Shipping.
- 12.30 p.m.—Weather Forecast.
- 12.35 p.m.—News from the "Daily Telegraph."
- 12.45 p.m.—Musical programme from the Studio.
- 12.55 p.m.—G.P.O. Clock and Chimes.
- 1.05 p.m.—News from the "Star" Cable Edition.
- 1.15 p.m.—Weather report.
- 1.25 p.m.—Musical programme from the Studio.
- 1.40 p.m.—G.P.O. Clock and Chimes.
- 1.45 p.m.—News from the "Star."
- 1.55 p.m.—Musical programme from the Studio.
- 2.30 p.m.—Talk on sporting and athletic features for the day; Laurence, Hockey, Golf, Bowls, Turfing, Baseball.
- During the afternoon sporting information will be broadcast by way of the "Star" Newspapers, interspersed with musical programme from the Studio.
- 4.55 p.m.—Resume of night's programme.
- 5 p.m.—G.P.O. Clock and Chimes.
- 5.1 p.m.—Racing resume.
- 5.5 p.m.—Close down.

EARLY EVENING SESSION

- 5.45 p.m.—G.P.O. Clock and Chimes.
- 5.48 p.m.—"Talk to the Kids"—The Kids' Brings will talk on the kiddies.
- 5.50 p.m.—Musical programme from the Studio.
- 7.15 p.m.—Result of all sporting information including Racing, Bowls, Tennis, Swimming, sailing, Athletics, by courtesy of the "Sun."
- 7.35 p.m.—Country news from the "Sun."
- 8 p.m.—G.P.O. Clock and Chimes.
- Broadcasters' Topical Chorus.
- 8.3 p.m.—Concert from the Studio by Miss Jessica (soprano).
- Mr. Marcey Wilson (bass).
- Mr. Harold McAlloch (tenor).
- Brings will talk on "Borey."
- The Races at Macquarie Speedway will be broadcast during the evening.
- 10.15 p.m.—The Ambassadors Dance Band broadcast from the Ball Room of the Ambassadors. (During the intervals between dances news reports by courtesy of the "Sun" will be broadcast.)
- 12 midnight.—G.P.O. Clock and Chimes. National Anthem.

3LO, MELBOURNE

Saturday.

MORNING SESSION.

- VARITY IS THE SPIRIT OF LIFE
- Announcer ALFRED ANDREW
- Accompanist AGNES FORTUNE
- 11.0 a.m.—STUDIO ORCHESTRA.
- Orchestra in 4er Underwear" (Offenback).
- 11.20 a.m.—JACK KEARNS, Comedian, will sing "The Pilgrims" "I Took It."
- 11.37 a.m.—TASMA TIERNAN, 'Cello, "By the River" "Rose."
- "Nocturne" (Chopin).
- 11.54 p.m.—BILLIE LOCKWOOD, Sourette, "Foolish Questions." "Sittin' Around."

- 11.31 a.m.—NELL CRAME, Soprano. "There's a Girl in Iceland." "Somewhere Somebody's Waiting."
- 11.37 a.m.—KISA LEWIS, Violin. "Bardic" (Hoffman).
- 11.44 a.m.—STUDIO ORCHESTRA. "Musical Jokes" (Humm).
- 11.51 a.m.—MAXWELL CARRW, Comedian. "Patter Dubs" "Good Girl Now."
- 12 noon.—Time Signal. British Official Wireless News from Rugby (Reuter's) and the Australian Press Association (Cables). "Argus" and "Herald" News Services.
- 12.20 p.m.—STUDIO ORCHESTRA. "Patty Batts Plays" (Coven).
- 12.30 p.m.—BILLIE LOCKWOOD, Sourette, will accompany her songs on her Ukulele.
- 12.37 p.m.—STOCK EXCHANGE INFORMATION.
- 12.47 p.m.—STUDIO ORCHESTRA. "The Last Lullaby" (Loren).
- 12.57 p.m.—HUXHAM'S SERENADERS, Quartette. "Young Sols. Hugh Huxham." Novells. Studio Orchestra. "Serenade" (Bridge). "Quartette." Concerto Solo, Dolly Danzell. Operatic Quartette.
- 1.1 p.m.—WEATHER PICTURES.
- 1.15 p.m.—STUDIO ORCHESTRA. "Little Cavalry."
- 1.40 p.m.—KISA LEWIS, Violin. "Melody of Peace."
- 1.50 p.m.—Description of Autumn Stakes. PAWBRICK RACECOURSE, SYDNEY. Results from 1.45. Posters.
- 2.0 p.m.—Close Down.
- 2.15 p.m.—Description of Two-Year-Old Handicap. Epney Race, by "Muskat" of the "Sporting Globe." Close Down.
- 2.20 p.m.—Description of Doncaster Handicap. HANDWICK RACECOURSE, SYDNEY. Results from 2.15. Posters.
- 2.30 p.m.—Description of Epney Plate by "Muskat" of the "Sporting Globe."
- 2.55 p.m.—Close Down. Program results will be given as they come in hand of Final Penant Cricket.

AFTERNOON SESSION.

- JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS
- 3.0 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS. "Thinking of You" (Ash).

NEW ZEALAND STATIONS:

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

2YK, Wellington, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 125 Watts; Wave-length, 295 Metres.

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

4YA, Dunedin, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 750 Watts; Wave-length, 380 Metres.

2YM, The Glaborne Radio Co., Gisborne.
Power 50 Watts; Wave-length, 260 Metres.

- "Just a Bird's Eye View" (Donaldson).
- "Just One More Kiss" (Gwens).
- "Jug of Coffee, a Sandwich, and You." "Somebody's Looking at Davis."
- "Daddy Face" (Aki).
- "Ang a Ling Waltz of the Bell."
- "Mary Lou" (Luman).
- 3.15 p.m.—Description of Bush Steeple Chase Races, by "Muskat" of the "Sporting Globe."
- 3.20 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS. "The Rose We Are Together" (Campbell). "Sufferingly" (Bary). "Consolation" (Gunsky). "Let's All Hurray Ford" (Lassie). "Hello Gladys" (Bier). "The Original Black Bottom" (Henderson). "The Little Girl of my Dreams" (Reek). "By the Way of a Kiss" (Fields). "Sunday" (Miller).
- 3.45 p.m.—Description of Epney Handicap, by "Muskat" of the "Sporting Globe."
- 3.50 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS. "Aunt" (Brooks). "I Wish I Had my Old Gal Back" (Vollen). "Eye, Eye Bunsback" (Dixon). "Tonight's my Night With Bess" (Messer). "Laughing" (Wash). "In a Little Spanish Town" (Wayne). "Burgundy" (Kato). "Hi Too, Ho-Ho, Ha-Ha" (Wood). "Hi, Ho, the Merry" (Brown). "Daddy Gal" (A. Berger).
- 4.15 p.m.—Description of Epney Purse, by "Muskat" of the "Sporting Globe."
- 4.20 p.m.—JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS. "The Village Blacksmith." "Am I Wasting My Time" (Hibo). "Base Colored Glasses" (Stoiger). "You've Got to Back Shuffie" (Sawick). "That Samson and Delilah Melody" (Greg). Selected.
- 4.45 p.m.—Description Maiden Plate, Epney Races, by "Muskat" of the "Sporting Globe."
- 4.50 p.m.—"Herald" News Service; Stock & change information.
- 5.0 p.m.—Close Down.

EVENING SESSION.

- 5.30 p.m.—Sporting Results.
- 5.40 p.m.—CHILDREN'S HOUR. Answers to Letters and Birth of Impressions.
- 5.50 p.m.—HUXHAM'S SERENADERS. "Himorous Quare" "We Wonder Why." EDITH HUNT & DOLLY BURDETT. "BENN MILL" and H. HUNNAM. "All About a Bess."
- 6.2 p.m.—LITTLE MISS KOOKABURRA will tell her little "Kookaburras" a lovely Fairy Easter Story, written by "Bash-woman."
- 6.12 p.m.—HUXHAM'S SERENADERS. "Cool Melody."
- 6.20 p.m.—LITTLE MISS KOOKABURRA will tell some more about "Carol of Holly-rose School" "The Chums play the Nexton Game."
- 6.35 p.m.—"Argus" and "Herald" News Services; Weather Information; Aerial Mail information by the Australian Aerial Services, Ltd.
- 6.47 p.m.—Stock Exchange Information; Overseas Shipping.
- 6.52 p.m.—Fish Market Reports by J. R. Barrett, Ltd.
- 6.55 p.m.—Market Reports by the Victorian Producers' Co-operative Co., Ltd. Hay-market Sheep Sales; Potatoes and Onions; Market Prices of Granges and Lemons, by the Victorian Central Users Association, Pty., Ltd.; Fruit Market Reports by the Victorian Wholesale Fruiters' Association, compiled by "The Fruit World," exclusive to 11.0.

NIGHT SESSION.

- TO SUIT ALL TASTES.
- Announcer MAURICE DUDLEY
- Accompanist AGNES FORTUNE
- 7.15 p.m.—MISS MERIE SUTTON, Captain Victorian Women's Hockey Team, will speak on the visit of the English Women's Hockey Team to Australia.

4QG, BRISBANE

7.30 p.m.—**MR. P. CHAPMAN**
"A Mercurial Fish"

7.45 p.m.—**MR. C. R. LONG**
"A march with the Governor unveiling Mr. Marshall to the Towns."

8 p.m.—**COLLINGWOOD CITIZENS' BAND**
"Walks," "Love and Life in Vienna."

8.30 p.m.—**ELSA LEWIS**, soprano
"Aria," "Casta Diva"—Norma (Bellini)

8.47 p.m.—**ELSA LEWIS**, (Gipsy Violinist)
"In the Forest" (Robertson),
"Tango" (Mason)

8.55 p.m.—**COLLINGWOOD CITIZENS' BAND**
"Selection," "La Sonnambula."

9.00 a.m.—**GILBRIDE YOUTH**
"Enter Gibrade, Mr. Wm. G. James."

9.40 p.m.—**COLLINGWOOD CITIZENS' BAND**
"March," "In Absentia,"
"Gavotte" ("Pravala")

9.50 p.m.—**MR. W. M. G. JAMES**, pianoforte solo
"Polonaise—A Major" (Chopin),
"Waltz D. Flat" (Chopin),
"Basso" (Debussy)

10 p.m.—**BILLYE LOCKWOOD**, soprano,
"Pretty Little Baby,"
"Happy and Cozy"

10.10 p.m.—**COLLINGWOOD CITIZENS' BAND**
"River Through Among the Gold,"
"Soldier" (Crosby)

10.20 p.m.—**ELSA LEWIS**, soprano
"Maidie" ("West"),
"Valse"

10.30 p.m.—**ELSA LEWIS**, violin
"Scherzo" ("Whaling with Amlin"),
"Where the Cuckoo has Nested."

10.40 p.m.—**ONE ACT PLAY** "Remembrance"
Colonel de Clair—Chas. Dudley
Mrs. Neville—Mrs. Mairie Dryden

10 p.m.—**COLLINGWOOD CITIZENS' BAND**
"Selection in Nursery Rhyme,"
"Dance" ("Rag") (new service)

10.10 p.m.—**ELSA LEWIS**, soprano
"Special official address from Mrs. Bingley."
"Symphony"

10.20 p.m.—**MRS. SHERMAN**, vocalists
"I wish in your back,"
"With storms,"
"Hear even?"

10.30 p.m.—**MR. W. K. MCDONNELL**
"Pony Halls,"
"Ring the Bell, Watchman,"
"Lover's Valed,"
"How Blue is Scotland"

10.40 p.m.—**COLLINGWOOD CITIZENS' BAND**
"In a Little Spanish Town,"
"Selected."

10.47 p.m.—**Metereological information**,
"Reporting results."

11 p.m.—**OUR GREAT THOUGHT**
"Hail me in three words of praise,
Throughout ages owned,
When Christ our God, fills empire broad,
And still our hearts was throled."

11.4 p.m.—**THE BRONSON AND HIS SYNCHOPATING SYMPHONISTS**
"Blowing off steam" (Davis),
"No Facing" (Green),
"Trotting Love Dots" (Frimd),
"Bliss Marie" (Frimd),
"Gimme a little kiss, will ya huh?" (Turk)
"Any One, Thinks, Lady" (Bellard),
"Princess Betty's Lullaby" (Bingham),
"Fire, Fire, Fire" (Gaz),
"Battling" (Tobias),
"Precious" (Whiting),
"Napoleon's Night" (Zamenk),
"Hi quete d'ides" (Cron),
"At peace with the world" (Dorin),
"Baby Face" (Davis)

11.46 p.m.—Close down.

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION

2.30 p.m.—A Mailbox for Little Listeners by "Miss Warath."

4.30 p.m.—Close Down

EARLY EVENING SESSION.

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

7.15 p.m.—Sporting News.

NIGHT SESSION.

7.33 p.m.—Singing Notes by "Tiller."

7.45 p.m.—Lecture Session: a gardening talk, "Weeds and Fertilisers" by "Teena."

7.44 a.m.—Announcements.

7.43 p.m.—From the Observator: Standard Time Signal.

8.0 p.m.—From the Hall of the Muses—Violin trio, "Die Zehnvorboten" (Mozart),
"Miss Marion Wilson, Mrs. Scott and Mr. Lutz Paree (violin), Miss Gertrude Anderson (piano) violin duet, "La Cava" (Pavesi), Miss Yonkegen and Mr. Lutz Amaden Paree, baritone solo, "The Blacksmith," Mr. Tom Colledge, violin solo, "Fifth Air Vase" (Pamela), Miss Eunice Chivers—soprano solo, "Tukino," Madam Robinson, mezzo solo, Mr. Ernie Norton, violin solo, "Barcarole" (Offenbach), Master Eldy, Ravel, contralto solo, "Aldie With Me" (Ludlow), Mrs. J. Ware, pianoforte solo, "Moonlight Sonata" (first movement—Bachoven), Miss Gertrude Anderson, violin solo, "Alcorno News Visions from E-Miner" (Mendelssohn), Miss Marion Wilson, elementary item, Mr. Philip O'Brien, tenor solo selected, Mr. Hugh Herald, violin and flute duo, "Farrado" (Gounod), Mrs. W. P. A. Gray and Mr. Lutz Amaden Paree, baritone solo, selected, Mr. Tom Colledge, violin solo, Scottish Air, "Lute Argonnes" (Saracate), Mr. Lutz Amaden Paree, contralto solo, selected, Miss R. Ware, tenor solo, "Three For Jack" (Mr. Jack Inall), violin solo—"Minuet" (Vandreski-Kreuder), "Souvenir" (Della), "Canaris" (Anon), Mr. Lutz Amaden Paree, pianoforte solo.

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

NOTE: During the evening the main motor race at the Speedway will be described.

6 WF, PERTH

Saturday.

12 noon, Tune-in

12.3 p.m.—Musical Programme

1.30 p.m.—First Local News Bulletin

1.45 p.m.—Market Report, Cables, etc.

1.0 p.m.—Time Signal from Perth Observator.

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

1.20 p.m.—Close Down.

1.55 p.m.—Tune-in.

2.0 p.m.—Detailed Description of Races relayed from the Ascot Race Course, Belmont, Close down after last race.

6.45 p.m.—Tune-in.

6.50 p.m.—Uncles Perry and Rag with the Radio Band.

6.55 p.m.—Children's Story: "Real Australia" introducing "Professor Kookaburra" told by Auntie Nora.

7.10 p.m.—Sports Results supplied by courtesy of "The Mirror" Newspaper Co.

7.20 p.m.—Mark's, News and Cable.

8.0 p.m.—Time Signal from Perth Observator.

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

8.2 p.m.—FROM THE STUDIO: Musical Programme, including Articles.

10.0 p.m.—Sports News Bulletin, supplied by courtesy of "The Daily News" Newspaper Co. Sports Results supplied by courtesy of "The Mirror" Newspaper Co.

10.30 p.m.—Close Down.

**Sunday, April 17
2FC, SYDNEY**

MORNING SESSION

10.55 a.m.—Programme announcements.

1.40 a.m.—"Big Ben" FROM THE CONGREGATIONAL CHURCH, PITT STREET, SYDNEY. MORNING SERVICE.

Preacher: REV. T. E. RICH

12.15 p.m.—FROM THE STUDIO News bulletin.

12.30 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.15 a.m.—A Talk by Mr. R. Bowden: "Water line in London" interspersed with appropriate music.

3.30 a.m.—FROM THE MANLY BEACH BAND STAND: A programme by the Manly Municipal Band, Conductor: Mr. J. Frenison.

3.45 p.m.—"Big Ben" Close down.

EVENING SESSION

6 p.m.—"Big Ben" and announcements.

6.5 p.m.—"Hear, Hear" Violin solo by "Annie" from the "Specta by Strauss." Madama Evelyn sings at the piano.

6.15 p.m.—Mr. John Benjamin, baritone: "I'll Be Home Again" (Scott).

6.45 p.m.—Mr. Henri Stacci, violin, and Madame Evelyn, violin, "Maidie" (Robertson), "Maidie" (Robertson).

6.21 p.m.—Madame Evelyn, Gipsy, pianoforte solo: "Value in a Flat" (Chopin).

6.28 p.m.—Mr. John Benjamin, baritone: "The Bitterness of Love" (Quart).

6.28 p.m.—Mr. Henri Stacci, Violin Soloist (a) "Berceuse" (Chopin), (b) "Maenza" (Zaritsky).

6.35 p.m.—Mr. John Benjamin, baritone: "Serenata Rimpiano" (Quelli).

6.38 p.m.—Madame Evelyn, Gipsy, Dulciana solo: "Minuet in G" (the request) (Bachoven).

6.45 p.m.—Mr. John Benjamin, baritone: "Love's Lament" (Hend).

6.45 p.m.—FROM THE LYCEUM HALL, PITT STREET, SYDNEY: Organ Solo.

7 p.m.—"Big Ben" FROM THE LYCEUM HALL, PITT STREET, SYDNEY. The Evening Service conducted by the Central Methodist Mission. Preacher: REV. H. G. FOREMAN.

8.25 p.m.—Australia.

8.27 p.m.—FROM THE STUDIO: Mr. Lionel Lawson, violinist.

8.30 p.m.—Mr. Percy Bates, tenor.

8.40 p.m.—Mr. Victor McMahon, baritone.

8.46 p.m.—Mr. Percy Bates, tenor.

8.50 p.m.—Mr. Lionel Lawson, violinist.

8.57 p.m.—"HOW I MAKE RECORDS" by Mr. Alfred O'Shea, Australia's Foremost Tenor. An illustration in which a record recently made by Mr. O'Shea will be interrupted and the singer will continue the song, giving listeners an opportunity to see if there is any difference in the reproduction of both.

9.10 p.m.—Mr. Victor McMahon, baritone.

9.18 p.m.—Mr. Percy Bates, tenor.

9.22 p.m.—Mr. Lionel Lawson, violinist.

9.30 p.m.—In response to numerous requests a repetition of the first act of Verdi's Opera—"AIDA," using the notable cover, recorded last year by His Majesty's Voice, with explanatory remarks.

10.15 p.m.—National Anthem. Close down.

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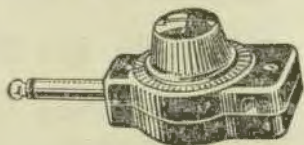


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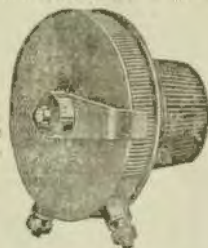


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2BL, SYDNEY

4QG, BRISBANE

Sunday.

10.45 a.m.—Special news service.
 11 a.m.—Service broadcast from Newtown Congregational Church.
 11.30 p.m.—Studio Concert.
 4 p.m.—G.P.O. Clock and Chimes.
 Close down.
 6.50 p.m.—Organ Recital.
 7 p.m.—Service broadcast from Newtown Congregational Church.
 8.00 p.m.—Mr. Lance Jeffers (tenor).
 8.17 p.m.—Miss Daisy Hooker.
 8.31 p.m.—Mr. Norman Trenvaine.
 9.1 p.m.—Duet (Mr. Jeffers and Miss Stewart).
 9.52 p.m.—Resumes of following day's programme.
 Weather report by courtesy of Govt. Meteorologist.
 9 p.m.—G.P.O. Clock and Chimes.
 9.1 p.m.—Broadcasters' Train.
 9.15 p.m.—Miss Helena Stewart (soprano).
 9.18 p.m.—Duet (Mr. Trenvaine and Miss Hooker).
 9.25 p.m.—Mr. Lance Jeffers.
 9.28 p.m.—Miss Daisy Hooker.
 9.36 p.m.—Broadcasters' Train.
 9.46 p.m.—Mr. Norman Trenvaine.
 9.53 p.m.—Miss Helena Stewart.
 10 p.m.—G.P.O. Clock and Chimes.
 10.1 p.m.—Broadcasters' Train.
 10.11 p.m.—National Anthem.

National Anthem.
 Benediction.
 4.30 p.m.—Close down.

EVENING SESSION
 4.40 p.m.—CHILDREN'S HOUR. Hymns to THE FIELD PLAYERS.
 "Jesus Christ is Born Today."
 "Easter Hymn."
 5.06 p.m.—"BILLY BUNNY"
 Parable for Little People.
 5.26 p.m.—Musical Programme by "THE FIELD PLAYERS."
 Choir: "O Gladsome Light"
 Solo: "Bird Away"
 Piano: "To a Waterbury"
 Chorus: "In the morning Early"
 Organ Solo.
 Solo and Chorus.
 "Oh! Choose to be a Disciple"
 Chorus: "Jesus, Word of God,"
 Prayers: "Prayer for the Young."
 6.22 p.m.—Answers to letters and birthday greetings.
 6.36 p.m.—"BILLY BUNNY"
 "The Life of Gordon."
 6.48 p.m.—Bells from St. Paul's Cathedral.

Sunday.

MORNING SESSION.
CHURCH SERVICE

ST. STEPHEN'S CATHEDRAL
 The complete Morning Service will be relayed from St. Stephen's Roman Catholic Cathedral, Brisbane.
 11 a.m.—Church Service.
 12.30 p.m.—Close down.

AFTERNOON SESSION

RAND CONCERT
 The Rand Concert provided in the Brisbane (Lions) Brisbane, will be relayed 3.15 p.m. Rand Concert.
 4.30 p.m.—Close down.

NIGHT SESSION

CHURCH SERVICE
ST. JOHN'S CATHEDRAL
 The complete Evening Service will be relayed from St. John's Anglican Cathedral.
 7.30 p.m.—Evening Service.
 8.30 p.m.—Benediction.

RAND CONCERT

At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park. The programme will include:
 Overture "Brighton"
 Selection from "The Faust" (Schumann)
 Selection from "The Twelfth Man" (Mozart).
 9.30 p.m.—Close down.

3LO, MELBOURNE

Sunday.

EASTER SUNDAY.

10.40 a.m.—Bells from St. Paul's Cathedral.
 10.45 a.m.—British Official Wireless News.
 Express train information.
 11 a.m.—SERVICE FROM SOUTHS CHURCH, Praeger, Rev. William Roberts, D.D., Organist, Mr. Manley Gray.
 11.30 a.m.—"The Haviour died, but rose again."
 Prayers.
 Psalm Psalms 101: "Bless the Lord, Oh, My Soul."
 Old Testament Lesson: Psalm 118.
 Roman 7:1 "Jesus Christ is risen to-day."
 Prayer of Intercession.
 New Testament Lesson: "St. John," II, 1-20.
 Anthem: "They have taken away my Lord," by Sir John Stainer.
 The Lord's Prayer. (The Congregation standing will suffice).
 Sermon: "Believers never die" (John, 11-25).
 Prayers: St. John's 11-25.
 Intercessions.
 Offering.
 Offertory Solo from "The Messiah" by Sir John Stainer.
 Hymn: 81: "Praise the Lord, Sing Hallelujahs."
 Benediction.
 12.15 p.m.—Close down.

AFTERNOON SESSION.

8 p.m.—PLEASANT SUNDAY AFTERNOON WEEKLY CENTRAL MISSION.
 Chairman: Rev. H. Calh.
 Conductors: Mr. & Mrs. M. Williams.
 Organist: Selection.
 Hymn: "All Hail the Power of Jesus' Name."
 Prayers: Rev. G. Irving Benson.
 Hymn: "Lead, Kindly Light."
 Quartette: "The Independent Male Quartette: 'The Souls of the Righteous' (Floyd).
 Organist: Selection.
 Quartette: "The Independent Male Quartette: 'O Day (It)' (Holt).
 Nominations.
 Offering.
 Organist: Selection.
 ADDRESS: REV. M. P. LONARD, D.S.O., (Federal Centre Top Mt.)

NIGHT SESSION
 8.15 p.m.—ALFRED ANDREW.
 Accompanist: AUNES FORYNE.
 9 p.m.—SERVICE FROM ST. PAUL'S CATHEDRAL.
 Evening (Choral).
 Hymn.
 Selections.
 General Confession.
 The Absolution.
 The Lord's Prayer.
 Versicles and Responses.
 Prayers.
 10.1. Lesson.
 Magnificat.
 Second Lesson.
 Nunc Dimittis.
 The Agnus Dei.
 The Collects.
 Anthem: "High Century Easter Carol: 'This joyful Easter Time'."
 Prayers.
 Hymn.
 The GOSPEL BY THE ARCHBISHOP OF MELBOURNE.
 Hymn: "Hallelujah Chorus."
 The Benediction.

8.00 p.m.—FROM THE STUDIO.
COLLINGWOOD CITIZENS BAND:
 Selection: "Elijah."
 8.40 p.m.—ELSIE DAVIES, Soprano.
 Aria: "An One a Day" La Traviata (Verdi).
 8.45 p.m.—WESLEY CHORUS under direction of Wm. G. James.
 "O howe are they" (Tchaikowski).
 (Unaccompanied).
 "I will be me down in peace" (Bach).
 8.51 p.m.—COLLINGWOOD CITIZENS' BAND.
 Sunday Evening Service.
 9.1 p.m.—KUNSELL, CALLOW, Tenor.
 "Mia Piccolina" (Com).
 "The Last Hour" (Kramer).

8.11 p.m.—COLLINGWOOD CITIZENS' BAND.
 Cornet Solo: "The Rosary," Soloist: L. Barrett.
 9.16 p.m.—ELSIE DAVIES, Soprano.
 "Wind in the Trees" (Goring-Thomas).
 "Ave Maria" (Luzzi).
 9.25 p.m.—AUGUST DI GILLO, Viola. At the Piano: Lindsay Bignone.
 "Ten Last Movements of Concertos" (Mondelucchi).
 9.55 p.m.—WESLEY CHURCH CHORUS.
 "O Kindly Light" (Buck).
 (Unaccompanied).
 "Hallelujah Chorus" (Bethoven).
 9.42 p.m.—COLLINGWOOD CITIZENS' BAND.
 March: "Australia To-day."
 9.50 p.m.—ARGENT news service. British Official Wireless news. Meteorological information. Announcements.
 9.55 p.m.—OUR GREAT THOUGHT.
 "Difficulties strengthen the mind, as well as does the body"—Seneca.
 10 p.m.—GOD SAVE THE KING.

6WF, PERTH

Sunday.

10.45 a.m.—Tune in.
 11 a.m.—Morning service relayed from St. Mary's Roman Catholic Cathedral, Murray Street, Perth.
 1.10 p.m.—Tune in.
 1.15 p.m.—Lionel-Gil, Le Souff, will give a short talk on reptiles of the Zoo.
 1.30 p.m.—R.S.L. Band and Vocal Concert relayed from the Zoological Gardens, South Perth. Conductor, Mr. Geo. S. Methel.
 3 p.m.—Close down.
 7 p.m.—Tune in.
 7.5 p.m.—Children's bedtime stories.
 1.00 p.m.—Evening service relayed from St. George's Cathedral, Perth. Preacher, Archbishop Riley.
 8.45 p.m.—Perth City Band and Vocal Concert relayed from the Government Gardens, Perth. Conductor, Mr. W. A. Halvorsen.

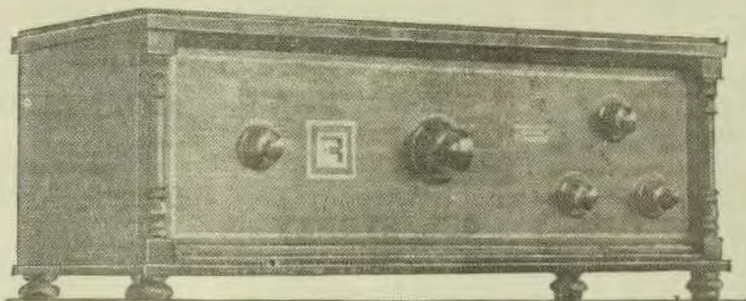
Easter Monday, April 18

2FC, SYDNEY

MIDDAY SESSION.

12 noon.—"Big Ben" and announcements.
 12.5 p.m.—Official weather forecast, rainfall, temperature, astronomical memoranda, shipping intelligence, mail services.
 12.15 p.m.—Studio music.
 12.25 p.m.—Summary of "Sydney Morning Herald" news service and cables.
 12.35 p.m.—Studio music.
 1 p.m.—"Big Ben." Weather intelligence.
 1.2 p.m.—Evening News' midday news service.
 1.30 p.m.—Studio music.
 Note.—Racing events from the Autumn Meeting at Sandwick will be fully described throughout the day direct from the Course.

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AFTERNOON SESSION.

2 p.m. Continuation of the descriptions of racing notes direct from Randwick, on the conclusion of the Saturday Meeting.
During racing intervals musical items will be given from the Westworth Symphonic Dance Orchestra under the baton of Mr. Percival King, basso.

All music will be transmitted direct from the studio.

4.30 p.m. A complete resume of the day's sporting and racing news.

6 p.m. "Big Ben." Close down.

EARLY EVENING SESSION.

8.45 p.m. The "Dance of 12C"
9.00 p.m. The "Dance of 12C" talks to the children.

9.15 p.m. Mr. Gink and "Jerry" have an argument.

9.30 p.m. A special story for the older ones.
9.45 p.m. Dinner music.

10.15 p.m. "Big Ben." Late sporting news.
10.30 p.m. Weather and shipping intelligence.
10.45 p.m. Music.

11.00 p.m. Late "Evening News" news summary.
11.15 p.m. Complete news summary of today's Autumn Meeting at Randwick until 3 o'clock.

NIGHT SESSION.

9 p.m. "Big Ben" and programme announcements.

9.30 p.m. FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY.
Items by the Haymarket Operatic Orchestra under the baton of Mr. Stanley Parker.

9.45 p.m. FROM THE STUDIO.
Mr. Oliver King, basso:

(1) "The Soldier" (Gounod).
10.00 p.m. Miss Dorothy Dewar, soprante:

"Am I wasteful too late to you" (Lalonde).
10.20 p.m. The 2FC Dance Band, conductor, Mr. Eric Pearce:

"Fox Trot, 'Nere Loo' (Lynn).
10.30 p.m. Mr. Archie Seymour, comedian:

"The Frog" (Frank Smythe, basso solo) (a) "The Clafie" (Dale) (Robin).
10.45 p.m. "The Soldier" (Gounod).
11.00 p.m. Mr. Oliver King, basso:

"Kirkwood Lea" (Edith Soutthill, basso).
11.15 p.m. "How to build a 25" (Book "Wireless" song) by Mr. Gus Carter (by request).
11.30 p.m. Miss Dorothy Dewar, soprante:

"Big White Moon" (Hubert).
11.45 p.m. Mr. Cliff Arnold, novelty pianist:
(a) "Medley Extract."
"Crying for the Moon."

"Are you here."
12.00 p.m. "Oh, Lady, be good."
(b) "Daddy, you've been a mother to me."
12.15 p.m. "Big Ben."

Miss Margaret Grimshaw, mezzo:
"Indian Love Call" (Friml).
12.30 p.m. FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY.

12.45 p.m. FROM THE STUDIO.
Mr. Oliver King, basso:

"The two last hundredweight" (Parrell).
12.55 p.m. The 2FC Studio Dance Band, conducted by Mr. Eric Pearce:

"Fox Trot, 'In a little garden'" (Jule).
1.10 p.m. Miss Dorothy Dewar, soprante:
"I'm tired of everything but you" (Jonnas) (Willeke accompaniment).

1.25 p.m. Mr. Herb Vreede, clarinetist solo:
"Homage from Concerto No. 2" (Webster).
1.40 p.m. Mr. Archie Seymour, comedian:

"The Little Coat of Courage" (Helen Maxwell).
1.55 p.m. The 2FC Studio Dance Band:
"Fox-Trot, 'We'll Be Back'" (Hartman).
2.10 p.m. Mr. Oliver King, basso:

"Beaute of the Midland" (Day).
2.25 p.m. Mr. Herb Vreede, clarinetist solo:
"Le Buissonnet" (Gounod).
2.40 p.m. Mr. Herb Vreede, clarinetist solo:
(a) "Fantasia from Opera Oberon" (arr. H. Kloss).

10.2 p.m. FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY.
10.45 p.m. FROM THE STUDIO.
Miss Dorothy Dewar, soprante:

"Brother, you've got me wrong" (Clarkson).
THEATRE, GEORGE STREET, SYDNEY:
Orchestral items.

10.30 p.m. FROM THE STUDIO.

Mr. Cliff Arnold, novelty pianist:
10.45 p.m. Late news and announcements.
10.50 p.m. Mr. Herb Vreede, clarinetist solo:
"Air from 'Der Freyschütz'" (arr. Hartman).

10.55 p.m. The 2FC Studio Dance Band, conductor, Mr. Eric Pearce:
"Fox Trot, 'Black Sheep'" (Sprack).
11.05 p.m. FROM THE HAYMARKET THEATRE, GEORGE STREET, SYDNEY.

10.47 p.m. The 2FC Dance Band, conductor, Mr. Eric Pearce, in the following popular numbers until 11 p.m.

(a) "Fox Trot, 'Bella Donna'" (Frier).
(b) "Waltz, 'Princess Betty's Lullaby'" (Stromboli).

(c) "Fox Trot, 'Sweet Hawaiian Sand,'" (O'Hara).

(d) "Big Ben." National Anthem.
Close down.

9.47 p.m. Miss Elsie Findlay

9.54 p.m. Mr. Dick Matthews

10.1 p.m. Mr. Roger Jones

10.4 p.m. Announcements, Dance Band broadcast from the "Big Ben" (The Ambassadors). During the intervals between days news reports by courtesy of the "Sun."

11 p.m. G.P.O. Checks on Chimes.
National Anthem.

3LO, MELBOURNE

Monday.

MIDDAY SESSION.

Accompanists: AGNES FORTUNE MAURICE HUDLEY INTERESTING, INSTRUCTIVE AND ENJOYABLE.

12 noon. Time Signal, British Official Wireless news from Hully, Reuter and the Australian Press Association (Cable), "Argo" and "Herald" news service.

12.25 p.m. HUXHAM'S SBRANADERS, EDITH HUXHAM, DOLLY BURBETT, RENN MILLAR, HUGH HUXHAM, Xanthippe: "Moonlight in Dixie Land" (White).

Quartet solo: "On the Sea" (Dolly Burbett) (Huxham).
STUDIO ORCHESTRA:

"Up" (Franc von Hoss).
Soprano Solo, "The Isle of Lost" (Edwards).
EDITH HUXHAM.

Quartet: "Too in Love" (Gounod).
THE SERENADER QUARTETTE.
STUDIO ORCHESTRA:

"Rockmorn" (Drigo).
Quartet: "Queen of My Heart" (from Dorothy) (Gallier).
THE SERENADER QUARTETTE.

12.40 p.m. Stock Exchange information.
12.50 p.m. "The 12C"
1.00 p.m. Mr. J. J. Maher, "Sporting Globe" will speak from Stawell, semi-final Stawell Jubilee Gift.

1 p.m. MUSICAL HALF HOUR. Arranged and announced by Mr. Ratten-Crowe.
MABEL GIBSON, Piano:

"Thapsidus B. Minor" (Brahms).
ALLAN EDDY, Bass:
"Close Prop" (Charles).

"Love a Merchant" (Carew).
STELLA BRIDGE, Soprano:
"A Brown Bird Singing" (Wood).

"Love a Merchant" (Carew).
HUXHAM'S SBRANADERS.
ALAN EDDY, Bass:
"Talia" (Ceska).

"Talia" (Leo).
MABEL NELSON, Piano:
"Fishes of Minor" (Rachmaninov).

1.30 p.m. Meteorological information, Ship quota intelligence. Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports.

1.35 p.m. STUDIO ORCHESTRA.
Selection: "Quaker Girl" (Lloyd Moughton).
1.45 p.m. "Taming Tom" (Cello).
"Wallber's Price Song" (Wagner).

1.55 p.m. STUDIO ORCHESTRA.
"United Lips" (Lott).
Description of Stawell Harle Williams, Racca, by "Musket" of the "Sporting Globe".

2.10 p.m. Description of Sydney Cup, Randwick Racecourse, Sydney, by arrangement with 2FC, Sydney.

2.20 p.m. Description of Semi-Final Spirit Handicap and Final of 600 yards Handicap, Stawell Jubilee Carnival, by Mr. J. J. Maher, of the "Sporting Globe".

2.35 p.m. Description of Juvenile Handicap, Williams, Racca, by "Musket" of the "Sporting Globe".

Progress results of Final Permanent Cricket will be given as they come to hand.

Programme continued on Page 37

2BL, SYDNEY

Monday.

DAY SESSION.

Description of the Royal Agricultural Show broadcast from the Show Grounds.
12 noon. G.P.O. Clock and Chimes.

12.1 p.m. Special Occasion Forecast for Show.
12.2 p.m. Weather Forecast.

12.3 p.m. News from the "Daily Telegraph".
12.45 p.m. Musical programme from the National Anthem.

12.50 p.m. Weather Forecast.
12.55 p.m. News from the "Sun" (Cable Edition).

1.12 p.m. Weather report.
1.24 p.m. Musical programme from the Studio.

1 p.m. G.P.O. Clock and Chimes.
1.1 p.m. News from the "Sun".
1.15 p.m. Musical programme from the Studio.

1.30 p.m. Talk on Sporting and Athletic features for the day: Golf, Hockey, Golf, Book Turning, Baseball.

During the afternoon sporting information will be broadcast by courtesy of the "Sun". Newspapers increased with musical programme from the Studio.

1.55 p.m. Resume of night's programme.
2 p.m. G.P.O. Clock and Chimes.
2.1 p.m. Lecture resume.

2.3 p.m. Close down.

EARLY EVENING SESSION.

8.45 p.m. G.P.O. Clock and Chimes.
9.00 p.m. Uncle George and the Kiddies. Bringa will talk to the Kiddies.

9.10 p.m. Musical programme from the Studio.
9.15 p.m. Results of all sporting information: croquet, racing, Bowls, Tennis, Swimming, Sailing, Athletics, by courtesy of the "Sun".

9.30 p.m. Country news from the "Sun".
9.45 p.m. Talk by Corporal Williams: "The Autograph King".

EVENING SESSION.

9 p.m. G.P.O. Clock and Chimes.
Broadcasters' Topped Column.

9.10 p.m. Miss Edna Foster (comedian).
9.20 p.m. Mr. B. M. Baxter (tenor).
9.30 p.m. Miss Ellen Gilbert (comedienne).

9.40 p.m. Miss Edna Foster (comedian).
9.50 p.m. Mr. Dick Matthews (light comedian).
10.00 p.m. Mr. Roger Jones (comedian).

10.10 p.m. Mr. Walter Humphrey (comedian).
10.20 p.m. Mrs. Miss Elsie Findlay and Mr. B. M. Baxter.

10.35 p.m. Resume of following day's programme.
Weather Report and Forecast by courtesy of Govt. Met.

9 p.m. G.P.O. Clock and Chimes.
9.1 p.m. "Sun" and Molly Owen and Jack Neuberger (In jazz numbers).

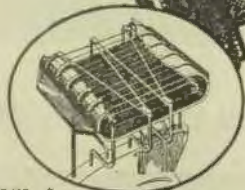
9.21 p.m. Miss Edna Foster.
9.25 p.m. Mr. B. M. Baxter.
9.30 p.m. Miss Helen Gilbert and Mr. Walter Humphrey.

There is no "just-as-good" as Burgess.

The WONDERFUL P.M. FILAMENT



Gives the right answer every time!



ARKS. 9.

to the question which every valve user should ask if he desires the best and most economical radio reception.

Is it unbreakable? Yes! except with the very roughest handling. Has it a low operating temperature? Yes! it does not even glow, thereby having a vastly increased life.

Is the emission surface of the filament generous? Yes! up to 54 times that of an ordinary filament.

Is the current consumption low? Yes! the P.M. Filament consumes only one-tenth ampere, giving a longer life to each accumulator charge.

Does this valve use the same H.T. current as ordinary valves and give greater volume? Yes!

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OBTAINABLE FROM EVERY RADIO DEALER IN AUSTRALIA.

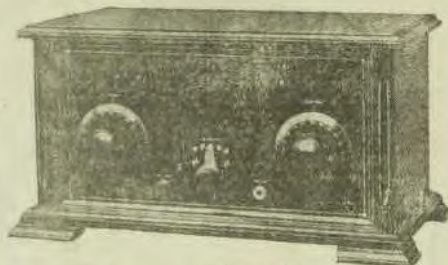
Advertisement of the MULLARD WIRELESS SERVICE CO. LTD., "MULLARD HOUSE", Denmark Street, London S.W. 2, England.

The Royalty

of Radio

Prepare for the Opening

See the



TWO-VALVE.

COLMOVOX THREE-VALVE RECEIVER.

This Receiver is very similar to the above Two-valve Colmovox, but in addition has one extra stage of Audio Frequency Amplification, which enables it to give highly satisfactory broadcast loud speaker reception over distances of 500 miles. Finished in a nicely-finished Maple Cabinet 21 inch x 10 by 10 inch deep and complete with Three Valves, 4-volt 10 amp. Accumulator, Brandoe Table Talker Speaker, 50-volt High Tension "R" Battery, Aerial and Earth Wire, Battery connections, Lightning Arrester, and Insulators.

CASH PRICE: DEPOSIT: WEEKLY:

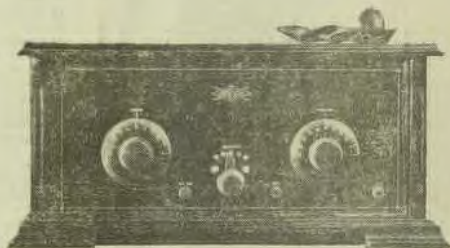
£28/10/- £5/-/- 6/9.

COLMOVOX TWO-VALVE RECEIVER.

This is a receiver which gives highly satisfactory loud speaker reception up to a distance of 50 miles. For greater distances, only "phone" reception is guaranteed. The two valves provided act as detector and one stage of Audio Frequency Amplification. Finished in a nicely polished Maple Cabinet of dimensions 18 inch by 10 inch by 10 inch deep, and complete with two valves, 4-volt 40 amp. Accumulator, and Brandoe Table Talker Speaker, 50-volt High Tension "R" Battery, Aerial and Earth Wire, Battery connections, Lightning Arrester and Insulators.

CASH PRICE: DEPOSIT: WEEKLY:

£16/10/- £3/8/- 5/6.



THREE-VALVE.

COLVILLE-MOORE WIRELESS SUPPLIES

COLMOVOX

The Royalty  of Radio

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latest in Wireless at our Show Rooms

COLMOVOX FOUR-VALVE RECEIVER.

A highly efficient long distance Receiver. The four valves provide two stages of Radio Frequency Amplification, Detector Valve and one stage of Audio Frequency Amplification. A Receiver of exceptional merit and so priced that it is within the reach of the pockets of every one. The 21 x 10 x 10 inch deep cabinet is of nicely polished Maple and complete with Four Valves, 6-volt 60 amp. Accumulator, 84-volt High Tension Battery, Amplion Loud Speaker, Aerial and Earth Wire, Battery Connections, Lightning Arrestor, and Insulators.

CASH PRICE: DEPOSIT: WEEKLY:

£27. £6. 9/-.



FOUR-VALVE.

COLMOVOX FIVE-VALVE RECEIVER.

A Neutrodyne Receiver of wonderful capabilities designed to give maximum volume over great distances. The five valves provide two stages of Radio Frequency Amplification, Detector Valve and two stages of Audio Frequency Amplification. The receiver is enclosed in a polished Maple Cabinet of 21 x 11 x 11 inches deep and complete with Five Valves, 6-v. 60 amp. Accumulator, a Large Capacity 45-volt High Tension Battery, Amplion Junior De Luxe speaker, Aerial and Earth Wire, Battery Connections, Lightning Arrestor and Insulators.

CASH PRICE: DEPOSIT: WEEKLY:

£31/10/- £7/7/- 11/4.

Complete instructions for erection and operation together with calibrated tuning chart supplied, places the novice on the same footing as the experienced listener-in, enabling him to tune in immediately and without any previous knowledge, to all Australian "A" class stations.

GUARANTEED TWELVE MONTHS.

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From the Light
Socket

Balkite
Trickle
Charger



THE BALKITE TRICKLE CHARGER.

And your "A" Battery supply "A" current from the light socket.
Model K.—The Balkite Trickle Charger is probably the most popular of all chargers for "A" batteries. During the last radio season, when it was first put on the market, over 250,000 were purchased and are now in service.

Once connected to your "A" battery the Balkite Trickle Charger may be left on permanent or trickle charge. Instead of operating intermittently at a high rate it operates continuously at a low rate, automatically keeping the battery at full power.

The Balkite Trickle Charger thus practically eliminates the attention usually required by the battery. In effect it converts your "A" battery into a complete power unit that supplies "A" current from the light socket.

It is noiseless in operation, so that in most instances it can be used during reception. It is very compact and small, and its current consumption is very low—approximately in. to 1/3c. per hour of reception.

The charger can be used as a trickle charger with any 6-volt "A" battery. With 4-volt batteries it can be used as an intermittent charger of the usual type. Or as a trickle charger, if a resistance is added to cut down the charging rate. The charging rate is approximately 5 amperes. Operates from 220-240 AC and 50 cycles.

Price :: £4/7/6

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W. E. PETERMAN, 160 Edward

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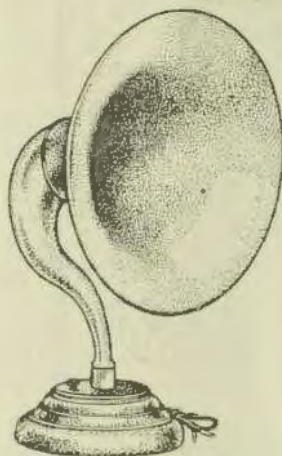
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TRIMM CONCERT



Price £6

The Trimm Concert is the Speaker with the "Natural" tone. Large Volconite Horn stands 22 inches high. Opening of sound chamber is $\frac{1}{2}$ -inch, increasing gradually to 15 inches at the bell. Extra large diaphragm gives beautiful tones over the entire range, from high of violin to low of organ. The Concert Speaker that reproduces the bass of orchestral or instrumental selections in their true tone value. For appearance, tone, results and volume on D.X. as well as Local, the Concert cannot be excelled. Standard finish black. Volume is controlled by easily accessible adjustment.

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A uniform output at 150
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PARTS:**
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Maximum amplification at
intermediate frequencies, with
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When you build your ultra-
mate set, take no chances with
parts of unknown quality. Use
the tried and dependable prod-
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So great has been the
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ALL-AMERICAN SET OF SUPERFINE PARTS. Now, £9/5/-.

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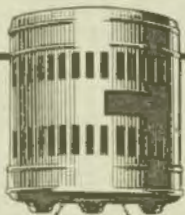
516 Collins Street, Melbourne.

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STRICTLY in accordance with Philips policy—savings resulting from economy in production and distribution of this popular little Battery Charger are now passed on to the buying public direct.

Although the price is lower—its quality, dependability and efficiency remain unchanged, this is also Philips policy.

reduced to
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No. 450 (as illustrated) charges 1 to 3 TWO VOLT cells at 13 a.m.p. Consumption 25-30 Watts. Ready for instant connection to the A.C. Lighting Mains giving full wave rectification and automatic regulation—exclusive Philips features.

Fool-proof, Silent, Simple to connect.
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— A REMARKABLE ACHIEVEMENT —

BEAUTY of TONE

*beyond
compare!*

Your Ear is the Final Judge.

Ask to hear this Philips Product at any Radio Shop. Listen to the music of your favorite quartette—piano, violin, flute or cello—and you will be thrilled by a new depth and richness of tone different from any other Speaker you have ever heard.



Greater tone range—with equal reproduction of both the high and low notes—made possible by a patented Balanced Magnet System and full floating cone—is responsible for this great improvement exclusive to Philips.

Equal distribution of sound in all directions—no mechanism to adjust and a guarantee of faithful working as long as the seals remain unbroken—are added reasons why you should choose a Philips Speaker for your set.

**It is already a world-wide
success.**

A co-product of famous Philips Lamps, Valves, "B" Eliminators, and Battery Chargers.

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LOUDSPEAKER**

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Pay 12/6 for a
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AFTERNOON SESSION.

- Accompanist: AGNES FORTUNE
 Accompanist: MAURICE DUDLEY
ART AND SCIENCE:
 3 p.m.—STUDIO ORCHESTRA:
 "The Passing Show" (Finch).
 3.10 p.m.—Description of Easter Con. Will
 Handicap Races, by "Musket," of the
 "Sporting Globe."
 3.15 p.m.—Description of Finals of the Stawell
 Gift, by Mr. J. J. Maher, of the "Sporting
 Globe."
 3.20 p.m.—Ella Lewis, Violin:
 "DeLille" from "My Garden."
 3.30 p.m.—STUDIO ORCHESTRA
 "Summer Days Suite" (Eric Coates).
 3.45 p.m.—Description of Sheepshow Will
 Handicap Races, by "Musket," of the
 "Sporting Globe."
 3.50 p.m.—Mrs. Dorothy Silk:
 "Homestead."
 4.5 p.m.—ELSIE DAVIES, Soprano:
 "Diana and Don" (Grove).
 4.15 p.m.—STUDIO ORCHESTRA
 "Samson and Delilah" (Saint-Saens).
 4.30 p.m.—Description of Federal Handicap,
 Williamson Races, by "Musket," of the
 "Sporting Globe."
 4.45 p.m.—ELSIE DAVIES, Soprano:
 "Scenerata" (Towell).
 "Kate O'Shane."
 4.55 p.m.—Description of the Two Mile Run,
 Stawell, by Mr. J. J. Maher, of the "Sporting
 Globe."
 5.00 p.m.—"Herald" news service. Stock
 Exchange Information.
 5.10 p.m.—Description of Warricbe Welter,
 Williamson Races, by "Musket," of the
 "Sporting Globe."
 5.30 p.m.—Description of Spring Handicap, Finals
 of 180 Yards Handicap, and 220 Yards Handicap,
 Stawell, by Mr. J. J. Maher, of the
 "Sporting Globe."
 5.45 p.m.—Close down.

EVENING SESSION.

- 5.45 p.m.—CHILDREN'S HOUR. Always to
 Letters and Birthdays greetings.
 5.55 p.m.—"Little Miss Kookaburra" will tell
 her tiny "Kookaburra" sisters and brothers
 the Story about "Jojo Joe and the parrot."
 6.5 p.m.—VERONICA COX, Soprano:
 "The First Primrose" (Grieg).
 "Lullaby" (Sexts).
 6.15 p.m.—HAROLD COLLIER will give some
 Southport Schooling.
 6.19 p.m.—TAPT DONALD MAULEAN will
 talk to the Children.
 6.35 p.m.—"Argus" news service. "Herald"
 news. Weather synopsis. Shipping move-
 ments.
 6.47 p.m.—Stock Exchange Information.
 6.52 p.m.—Fish Market reports by J. R. Bor-
 rent, Ltd.
 6.55 p.m.—River reports.
 6.58 p.m.—Market reports by the Victorian
 Producers' Co-operative Co., Ltd., Haymarket,
 4th Sheep sales, Poultry, Grain, Hay,
 Straw, Juice, Dairy Produce, Potatoes and
 Oatmeal.
 7.00 p.m.—Market prices of Oranges and
 Lemons by the Victorian Central Citrus
 Association Pty. Ltd. Fruit Market reports
 by the Victorian Wholesale Fruit-growers' As-
 sociation, compiled by the "Fruit World,"
 exclusive to 11.0.

NIGHT SESSION.

- Accompanist: ABEED ANDREW
 Accompanist: AGNES FORTUNE
**EASTER MONDAY A JOLLY PROGRAMME
 FOR HOLIDAY-MAKERS.**
 7.15 p.m.—Under the auspices of the Ray
 Society Association, DR. C. G. McADAM:
 "The Secret Migration Scheme."
 7.30 p.m.—Mr. E. C. H. TAYLOR will speak
 on "School life and School Sport."
 7.45 p.m.—"Memories of Anzac," by
 "A Breeze."
 8 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 March "Faden's Own."
 Feature "Homes Bunch."
 8.10 p.m.—NINA AND WINDLE, Bright.
 Brass: Brains Bravoure:
 Duologue: "The real way on the Highway."

- 8.20 p.m.—ELSA LEWIS, Violin:
 "Dole Mio" (de Capua).
 8.25 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 Selection: "The Mikado."
 8.35 p.m.—REATRICE McEVITT, Coloratura
 Soprano:
 "Cere" (Vardi).
 8.40 p.m.—One Act Play, MR. EARDLEY
 TURNER:
 "The Lonely Lover."
 8.50 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 "Cere" (Vardi).
 8.55 p.m.—WVD BUCK, Comedian:
 "Guld Lind" (George Do B.).
 9.02 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "Wah, Ho, The Merry Oh" (Brown).
 "Oh a Little Spanish Town" (Wagner).
 "Piano Solo" "Rudolfreddy" (Barger).
 9.05 p.m.—GRACK AND KEATS:
 "Daisy" (Celine) Doves.
 Song: "Granny" Song at Twilight.
 "Duet" "The Two of Us."
 9.22 p.m.—THELMA READY, Harpist:
 Popular Airs.
 9.35 p.m.—REATRICE McEVITT, Soprano:
 "Guld" (Wagner).
 "Pardillon" (Manniguel).
 9.40 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 One Act Play "All Scotch."
 "Jannet's Dance."
 9.54 p.m.—MAXWELL CAREW, Comedian:
 "Different Plays" (Original).
 10 p.m.—"Argus" news service, British Official
 Wireless News.
 10.10 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "Rose Marie" (Friml).
 "There's a Boatman on the Veldt" (Egan).
 "Tonight's my Night with Baby" (Meyer).
 10.20 p.m.—RUSSELL CALLOW, Tenor:
 "Vesti in giubba" (Leoncavallo).
 "The Hawking" (Caldman).
 10.25 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 Selection: "Faust."
 10.35 p.m.—THELMA READY, Harpist:
 "Pianissimo Melodies."
 10.44 p.m.—Meteorological information, Air
 announcements.
 10.54 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 "Bells Across the Meadows."
 11 p.m.—OUR GREAT THOUGHT:
 "Discipline is the perfection of reason,
 and a guide to win all the duties of life."
 —Aristotle.
 11.1 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "Angey" (Brown).
 "I Wish I Had my Old Gal Back" (Yellen).
 "Tye, He, Blackbird" (Dixon).
 "Tonight's my Night with Baby" (Meyer).
 "Lullaby" (West).
 "In a Little Spanish Town" (Wayne).
 "Honeydew" (Miles).
 "Tye, He, Ho! Ho! Ho!" (Wood).
 "Hi, Ho, Ho, Merrie" (Brown).
 "Aloha Ge" (Arr. Berger).
 "That's Why I Love You" (Donaldson).
 "The Village Blacksmith Owns the Village
 Now" (Koster).
 "Am I Wasting My Time" (Ribe).
 "Rose Colored Glasses" (Steiger).
 "You've Got to Black Shuffle" (Spursh).
 "The Samson and Delilah Melody" (Grey).
 11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

- Monday.
 MIDDAY SESSION.
 1.0 p.m.—Weather information supplied by
 the Commonwealth Weather Bureau; "The
 Daily Mail" and "The Daily Standard"
 News.
 1.45 p.m.—From Hotel Carltons Lunch Menu
 played by Hotel Carlton Symphony
 Orchestra.

- 1.58 p.m.—From the Observatory: Standard
 Time Signal.
 2.0 p.m.—Close Down.

AFTERNOON SESSION.

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

EARLY EVENING SESSION.

- 6.0 p.m.—News Service supplied by the
 "Daily Standard."
 6.30 p.m.—Bottom Stories by "The Sandman."
 7.0 p.m.—Stock Reports.
 7.40 p.m.—Weather News; Announcements.
 7.45 p.m.—Standard Time Signal.

NIGHT SESSION.

- 7.45 p.m.—Lectures—The Children's Moral
 Corer, conducted by "The Music Man."

GYMPIE ESTEDDFOD.

The final session of the ninth Gympie
 Esteddfod will be relayed from the Sol-
 diers' Hall, Gympie.
 In this programme it is impossible to set
 out in detail the items which will be
 furnished during the final session.
 It is expected, however, that the follow-
 ing choir will compete in the "A" grade
 competition:—Linnore, Lockmann, Bun-
 shagen, Brisbane Esteddfod Choir, Cam-
 berlain-Perth Choir, and Ipswich-Silstone
 Choir.
 The adjudicators will be as follows:—
 Musical, Mr. Armand Orlebar, Mr. S.
 Gordon Lavers; elocution, Mr. John Morris;
 literature, Professor John Stoble.
 8.0 p.m.—From the Soldiers' Hall, Gympie:
 Ninth Gympie Esteddfod.
 10.0 p.m.—From the Studio: "The Daily
 Mail" News; Weather News; Close Down.

6WF, PERTH

- Monday.
 12.30 p.m.—Time in.
 12.35 p.m.—First local news bulletin.
 Market reports:
 Cables.
 1.0 p.m.—Time signal from Perth Observatory.
 1.1 p.m.—Weather notes supplied by the
 Meteorological Bureau of Western Aus-
 tralia.
 1.2 p.m.—Musical programme, including
 articles.
 2 p.m.—Easter Races.
 Detailed description of races relayed from
 the Anson Racecourse, Belmont.
 Close down after last race.
 6.45 p.m.—Time in.
 6.50 p.m.—Children's bedtime stories, by
 Violet Henry and Duffy.
 7.00 p.m.—Stock and share intelligence.
 Market reports.
 Cables. News supplied by courtesy of "The
 West Australian" Newspaper Co.
 7.45 p.m.—See-keeping talk by Mr. C. Wal-
 shaw, under auspices of the Bee-keepers' As-
 sociation.
 8.00 p.m.—Time signal from Perth Observatory.
 8.1 p.m.—Weather notes supplied by the
 Meteorological Bureau of Western Aus-
 tralia.
 8.5 p.m.—Variety.
 Musical programme.
 Feature music described in detail, relayed
 from the West Australian Trotting Asso-
 ciation Grounds.
 10.00 p.m.—Second local news bulletin supplied
 by the courtesy of "The Daily News"
 Newspaper Co.
 Weather report and forecast.
 10.30 p.m.—Close down.

Tuesday, April 19

2FC, SYDNEY

MIDDAY SESSION.

- 10 noon.—"Big Ben" and announcements.
- 12.15 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
- 12.15 p.m.—Studio music.
- 12.35 p.m.—Summary of "Sydney Morning Herald's" news service and cables.
- 12.55 p.m.—Miss Flora Hughes, soprano: "Only a Flower" (Grieg/Wolf).
- 12.50 p.m.—Really wireless news.
- 12.55 p.m.—Last minute sporting information for the 2FC Football Commission.
- 1 p.m.—"Big Ben." Weather intelligence.
- 1.15 p.m.—"Evening News" midday news service.
- Producers' Distributing Society's Report.
- 1.20 p.m.—Studio music.
- 1.25 p.m.—Stock Exchange information.
- 1.40 p.m.—Studio music.
- 1.45 p.m.—Miss Flora Hughes, soprano: "If I might come to you" (Squire).
- 1.55 p.m.—Studio music.
- 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and announcements.
- 2.5 p.m.—Miss Dorothy Melton, contralto.
- 2.55 p.m.—4. reading.
- 3.15 p.m.—Miss Jessie Rutkows, soprano: "Auf Wieder-See" (German).
- 3.25 p.m.—Studio music.
- 3.45 p.m.—FROM FARMER'S TEA ROOMS: Miss Paula Butler, soprano: "The Dancing Queen" (Grieg/Wolf).
- 3.55 p.m.—Talk on Home Cooking and Recipes by Miss Ruth Pratt.
- 4 p.m.—"Big Ben."
- FROM FARMER'S TEA ROOMS: Miss May Craven, mezzo: "The Merry Maid" (French).
- 4.15 p.m.—FROM THE STUDIO: Miss Dorothy Melton, contralto.
- 4.15 p.m.—Studio music.
- 4.25 p.m.—FROM FARMER'S TEA ROOMS: Miss Paula Butler, soprano: "Let me sit in your garden" (Hussey).
- 4.35 p.m.—Studio music.
- 4.45 p.m.—Miss Jessie Rutkows, soprano: "Serenade" (Rachman).
- 4.55 p.m.—Studio music.
- 4.45 p.m.—FROM FARMER'S TEA ROOMS: Miss May Craven, mezzo: "White Moon" (Mantel).
- 4.45 p.m.—Stock Exchange, third call.
- 4.45 p.m.—Studio music.
- 5 p.m.—"Big Ben." National Anthem.
- Close down.

EARLY EVENING SESSION.

- 6.45 p.m.—The Chimes of 2FC.
- 6.50 p.m.—"The Hello Man" talks to the children.
- 6.55 p.m.—A social story for the older ones.
- 6.55 p.m.—Dinner music.
- 7 p.m.—"Big Ben" late sporting news.
- 7.10 p.m.—Dance's market reports (wheat, wheat and feed) and vegetable markets.
- 7.15 p.m.—Weather and shipping intelligence.
- 7.20 p.m.—Stock Exchange.
- 7.30 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.45 p.m.—Programme announcements.
- 7.45 p.m.—The final talk (arranged by the Workers' Educational Association) by Professor H. T. Lovell, Ph.D.: "The Study of Psychology."
- 8.05 p.m.—Mr. W. F. Jackson will continue his series of talks on "The Flow Great Moderns." No. 3, "Maxwell the Poet."
- 8 p.m.—FROM THE STUDIO: Mr. Gladstone Bell, cellist solo: "No. 3, 'Maxwell the Poet.'" "Reveries" (Bouliere).
- 8.15 p.m.—FROM THE CONSERVATORIUM HALL, SYDNEY: The First Concert of the 1927 Season by the Royal Sydney Apollo Clubs Concert, conductor, Mr. Arnold Mott, P.A., "Mus. Bac." "The Russian Song of Gipsy" (Bouch). ROYAL SYDNEY APOLLO CLUB. 8.20 p.m.—Securities "Rogue Wolf". MR. WILFRID THOMAS, SOPRANO. 8.25 p.m.—(a) "Forsaken Am I" (Kessiah). (b) "Ever of These" (Hall Buckley). ROYAL SYDNEY APOLLO CLUB. 8.30 p.m.—(a) "Concerto (Lalo)." Introduction. Allegro Moderato. (b) "Serenade" (Grieg). MR. JULES VAN DER KIEF, CELLIST. 8.40 p.m.—"The Young Shepherd" (Kessiah). ROYAL SYDNEY APOLLO CLUB. 8.50 p.m.—"Air d'Orpheus" (Mad Scene, "Hainleins" (Amoroso Thomas). 9 p.m.—FROM THE STUDIO: Mr. Gladstone Bell, Cellist. (a) "Vito Spanish Dance" (Poppers). (b) "Serenade" (Grieg). 9.10 p.m.—FROM THE CONSERVATORIUM HALL, SYDNEY: The second part of the Royal Sydney Apollo Clubs Concert, conductor, Mr. Arnold Mott, P.A. "The Flower's Close at Eve" (Mott). MISS GLADY VERONA, SOPRANO. ROYAL SYDNEY APOLLO CLUB. 9.20 p.m.—"Not in Spirit" (de Rosa) (Boite). MR. WILFRID THOMAS, SOPRANO. 9.25 p.m.—(a) "Hungarian Rhapsody" (Poppers). (b) "Alercio" (Goretini). MR. JULES VAN DER KIEF, CELLIST. 9.30 p.m.—(a) "The Handy Man" (Spenser). (b) "Old Farmer Jack" (Williams). ROYAL SYDNEY APOLLO CLUB. 9.42 p.m.—(a) "Soft-soled Shoe" (Straw Hat). (b) "Gathering berries" (with the shade of forest trees" (Rimsky Korsakov). MISS GLADY VERONA, SOPRANO. 9.50 p.m.—"If Dossy's Deeds" (Gobb). ROYAL SYDNEY APOLLO CLUB. 9.55 p.m.—FROM THE STUDIO: Mr. Gladstone Bell, cellist: "Riddle Dance" (Squire). 10.5 p.m.—Mr. Scott Alexander: In topical talks by Martin Bennett. 10.15 p.m.—Late news and announcements. 10.15 p.m.—FROM THE WENTWORTH CAPE, SYDNEY: The new Wentworth Symphonic Dance Orchestra in popular numbers until midnight, conductor, Mr. Frederick Leighton. NOTE.—During the intervals at the Wentworth Cape, celebrity records will be played from the studio. 11 p.m.—"Big Ben." National Anthem. Close down.

- 1.33 p.m.—News from the "Sun."
- 1.40 p.m.—Musical programme from Studio.
- 1.55 p.m.—Stock Exchange calls.
- 2 p.m.—G.P.O. Clock and Chimes.
- Having information broadcast by courtesy of the "Sun" immediately after each race.
- 2.1 p.m.—News from the "Sun."
- 2.10 p.m.—Musical programme from the Studio.
- 2.20 p.m.—WOMEN'S SESSION: Social Notes by Mrs. Jordan.
- 2.30 p.m.—Mrs. Jordan replies to correspondents.
- 2.40 p.m.—"Fashion Talk" by Beatie Durring.
- 3 p.m.—G.P.O. Clock and Chimes.
- 3.1 p.m.—Musical programme from Studio.
- 3.2 p.m.—News from the "Sun."
- 3.30 p.m.—Civil Service Stores Trips, direction, Miss de Goocher Bremer.
- 3.50 p.m.—G.P.O. Clock and Chimes.
- 4.00 p.m.—News from the "Sun."
- 4.10 p.m.—Radio results.
- 4.17 p.m.—Sporting Talk ("Sun").
- 4.21 p.m.—Weather report.
- 4.30 p.m.—G.P.O. Clock and Chimes.
- 4.35 p.m.—Civil Service Stores Trips.
- 4.40 p.m.—Serial Story.
- 4.50 p.m.—G.P.O. Clock and Chimes.
- 4.55 p.m.—Musical programme from Studio.
- 5.00 p.m.—Producers' Distributing Society's Fruit Market Report.
- 5.10 p.m.—Producers' Distributing Society's Vegetable Market Report.
- 5.20 p.m.—Racing results.
- 5.30 p.m.—House of night's programme.
- 5.55 p.m.—Announcements.
- 6.00 p.m.—Special Ocean Forecast.
- 6 p.m.—G.P.O. Clock and Chimes; close down.

EARLY EVENING SESSION.

- 6.45 p.m.—G.P.O. Clock and Chimes.
- 6.50 p.m.—Uncle George and the Waddles.
- 6.55 p.m.—The Pupils of Miss Mounia Senior will entertain the 2FC's.
- 6.55 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and Chimes. Australian Mercantile Land and Finance Co.'s Report.
- Weather Report by courtesy of Govt. Met. Producer's Distributing Society's Fruit and Vegetable Market Report.
- Stock Exchange Results.
- Grain and Poultry Report ("Sun").
- Dairy Produce Report ("Sun").
- 7.15 p.m.—Country news from the "Sun."
- 7.30 p.m.—Talk on "The Motor Car" by Mr. Martin.
- 8 p.m.—G.P.O. Clock and Chimes. Broadcasters' Typical Chorus.
- 8.1 p.m.—Broadcasters' Miniature Orchestra, under the direction of Mr. J. Knight Barrowell.
- 8.15 p.m.—Madame Phyllis Howe (soprano).
- 8.20 p.m.—Miss C. L. Robertson (alto/contralto).
- 8.25 p.m.—Mr. K. A. Morris (baritone).
- 8.35 p.m.—Miss Beryl Scott (Soprano at the Piano).
- 8.41 p.m.—Morris and Charlton (duets).
- 8.50 p.m.—Name of following day's programme.
- Weather Report by courtesy of Govt. Met. Co.'s Report.
- 9 p.m.—G.P.O. Clock and Chimes. Announcements.
- 9.05 p.m.—Broadcasters' Miniature Orchestra.
- 9.15 p.m.—Miss Madge Hellreich (contralto).
- 9.23 p.m.—Mr. Stanley R. Collett (tenor).
- 9.27 p.m.—Miss C. L. Robertson.
- 9.37 p.m.—Madame Phyllis Howe.
- 9.44 p.m.—Broadcasters' Miniature Orchestra.
- 9.54 p.m.—Mr. Robert A. Morris.
- 10.01 p.m.—Miss Beryl Scott.
- 10.9 p.m.—Miss Madge Hellreich.
- 10.15 p.m.—Mr. Stanley R. Collett.
- 10.20 p.m.—Announcers' Miniature Orchestra broadcast from the Ball Room of the Ambassadors. During the intervals between dances news broadcast by courtesy of the "Sun."
- 11 p.m.—G.P.O. Clock and Chimes. National Anthem.

2BL, SYDNEY

Tuesday.

DAY SESSION.

- Description of the Royal Agricultural Show broadcast from the Show Grounds.
- 12 noon.—G.P.O. Clock and Chimes.
- 12.15 p.m.—Special Ocean Forecast by courtesy of Mr. Mars.
- 12.2 p.m.—Weather report and forecast.
- 12.3 p.m.—News from the "Sun" and Marine resume.
- 12.15 p.m.—Musical programme from the Studio.
- 12.19 p.m.—Stock Exchange calls.
- 12.25 p.m.—Rabbit Market report.
- 12.30 p.m.—Rabbit Market report.
- 12.35 p.m.—Vegetable Market report.
- 12.40 p.m.—Fruit Market report.
- 12.45 p.m.—Dairy Produce Market report.
- 12.50 p.m.—G.P.O. Clock and Chimes.
- 12.51 p.m.—Ferm Produce Market report.
- 12.54 p.m.—Musical programme from the Studio.
- 12.40 p.m.—News from the "Sun."
- 12.45 p.m.—Hilliers Instrumental Quartette: (direction, Cyril Gostling).
- 1.15 p.m.—G.P.O. Clock and Chimes.
- 1.31 p.m.—Shipping—arrivals and departures and movements of important ships.

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3LO, MELBOURNE

Tuesday.

MIDDAY SESSION

Accompanists AGNES FORTUNE
 Announcer MAURICE DUDLEY
 Your fair daughter hath been so sweet
 MAKING THE HARD WAX SWEET AND DELICATE
 Shakespeare.

12 noon.—Times Signal, British Official Wire-
 less News from Rugby, Canberra, and the
 Australian Press Association. "Argus" and
 "Herald" news service.

12.26 p.m.—WIN AND WINDLE:

"Home Building"
 Harmonium Song "Looking Back to See."

12.27 p.m.—STUDIO ORCHESTRA:

Selection "Apple Blossoms" (Kreisler).

12.37 p.m.—Stock Exchange information.

12.47 p.m.—RUSSELL CALLOW, Tenor:

"India" (Verdi).

1.10 p.m.—"Kiss a Lover's Garden" (Barnstaple).

1.14 p.m.—STUDIO ORCHESTRA:

Selection "Tonight the Night"

1.24 p.m.—CAPT. DONALD MACLEAN:

1.27 p.m.—STUDIO ORCHESTRA:

"Ball Oriole" (Edith Piaf).

1.29 p.m.—Meteorological information. Shipping

intelligence. Weather forecast for Victoria,

Western, Southern, South Australia and

New South Wales. Ocean forecast. River

reports.

1.34 p.m.—RUSSELL CALLOW, Tenor:

"Maid, My Girl" (Lohse).

"Maiden" (Forsyth).

1.49 p.m.—C. RICHARD CHIDD, Alto:

"Meldrand" (Schubert).

1.54 p.m.—STUDIO ORCHESTRA:

"Three African Dances" (Monteux King)

..... Close down.

Progress reports will be given during the

afternoon of the Final Pennant Contest.

AFTERNOON SESSION

Accompanists AGNES FORTUNE
 Announcer MAURICE DUDLEY
 Your fair daughter hath been so sweet
 "Ode hint of joy dispels the cares"
 "And sufferings of a thousand years"
 Baptista.

2 p.m.—JOE ARONSON AND HIS SYNCO-

PATING SYMPHONISTS:

"Thinking of You" (Ald).

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

"Just One More Kiss" (Owens).

2.10 p.m.—AL FAIR—FASHION TALK.

2.22 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

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

"Somebody's Loney" (Davis).

"Baby Face" (Ald).

2.36 p.m.—WIN AND WINDLE:

Humorous Song "Wonder"
 Song "Walking at the Church"
 "Mary Lou" (Lamson).

"The More We Are Together" (Campbell).

2.45 p.m.—MARY CLAXTON, Soprano:

"Farewell—Maid of the Mountains"
 "A Strayed Suburban"
 2.52 p.m.—JOE ARONSON AND HIS SYNCO-

PATING SYMPHONISTS:

"Contentedly" (Berg).

"Constitution" (Waltz) (Ginsky).

"Let's All Hang Out" (Ludlow).

"I Was a Hero"
 3.01 p.m.—JACK KEARNS, Comedian:

"A Peculiar Thing"
 3.04 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:

"Hello Alpha" (Berg).

"The Original 'Blue Heaven'" (Henderson).

"Hello Little Girl of My Dreams" (Berk).

3.20 p.m.—MARY CLAXTON, Soprano:

"The Flower—Lilia Time.
 "A Peculiar Thing."

4.30 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "Sunday" (Miller).
 "I Wish You Were Jealous of Me"
 (Rowell).
 "Let's Talk about My Sweetie" (Sabin).
 4.55 p.m.—"Herald" news service. Stock Ex-
 change information.
 5 p.m.—Close down.

EVENING SESSION

5.40 p.m.—CHILDREN'S HOUR. Answer to

Letters and Birthday Greetings.

5.55 p.m.—STUDIO ORCHESTRA:

"Baby's Opera" (Byrd).

6.10 p.m.—"MAY GUMBLEAF" Presents:

"The Fairies' Picnic"
 "The Grey Owl"
 Story for the Blind ones:
 "The Tale of Simon Whiskers"
 6.12 p.m.—ELSA DAVIES, Soprano:

"Something Special for the Children."
 6.19 p.m.—"MARY GUMBLEAF" Presents:

"The Tale of Two Shillings"
 "Girls"
 "Have you met her yet?"
 6.30 p.m.—"Argus" and "Herald" news ser-
 vice. Weather synopsis. Shipping news.

6.45 p.m.—Stock Exchange information.

6.52 p.m.—Fish Market reports by J. R. Ber-

rett, Ltd.
 6.53 p.m.—Rice reports.
 6.58 p.m.—Market reports by the Victorian
 Producers Co-operative Co. Ltd. Dates,
 Prunes, Potatoes and Onions. Haymarket
 prices. Wool. Flour, Grain, Straw, Hax
 and Jute.

NIGHT SESSION

Accompanists AGNES FORTUNE
 Announcer ALFRED ANDREW

7.10 p.m.—RAY, Mr. ALFRED KELLY,

Vice-President, will speak on
 "The Royal Road to Canberra."
 7.30 p.m.—University Lect. Dr. O. W. Tiger,
 Senior Lecturer in Biology at the Univer-
 sity:
 "Theory of Evolution."
 7.45 p.m.—Mr. C. H. SLOCOMBE:
 "Hints on obtaining Photographic Records
 of the Royal Vint."

LAMELOH

A THRILLING NARRATIVE.
 8 p.m.—Dr. Brooke Nichols will relate the
 story of his trip to the Great Barrier Canal
 of Australia, and will now give an
 introductory talk entitled:
 "In the wake of Captain Cook."
 A MINATURE CONCERT.
 8.15 p.m.—MALVERN TRAMWAYS BAND:
 March, "Blenheim."
 8.20 p.m.—J. ALEXANDER BROWN, baritone:
 "Thou art risen, my Beloved" (Col. Tazler).
 "The olive pipe" man" (Elliott).
 8.31 p.m.—Elsa Lewis, Violin:
 "Acad. Liane"
 "Imitation of Bagpipers."
 8.34 p.m.—MALVERN TRAMWAYS BAND:
 "I'll Wear King" (Gander).

8.44 p.m.—J. ALEXANDER BROWN, baritone:

"Love the Man" (Rubini).
 "Don't you Weep" (Gander).

8.50 p.m.—A PIANOFORTE RECITAL:

MR. HAROLD ELVINE:
 "Pastoral and Capriccio" (Scriabin).
 "Nocturne" (Arago).
 "March of the Dwarfs" (Grieg).
 "Ballade of the Chateau Margaux"
 (Chabrier).
 "Prelude" (Albign).
 9.10 p.m.—VAUDEVILLE—

MALVERN TRAMWAYS BAND:

Waltz, "Amoroso"
 9.15 p.m.—ARTHUR DOUGLAS, Comedian:
 9.21 p.m.—Elsa Lewis, Violin:
 "Chanson Triste" (Tschannowsky).
 "Ballad Night" (S. Roberts).
 9.30 p.m.—MALVERN TRAMWAYS BAND:
 Characteristic. "In a Persian Market."
 9.42 p.m.—SID BECK, Comedian:
 "Do like to be in good company?"
 9.50 p.m.—GRACE AND REATS:
 Duet, "Practically Free."
 Song, "Coming through the Rye."

9.57 p.m.—"Argus" news service. Sporting
 Notes by "Olympic"
 10.17 p.m.—HUXHAM'S SERENADER'S
 Quartette, "Equino" (Alden).
 EDITH HUXHAM, HOLLY HULLBERT,
 BERN MILLER, HUGH HUXHAM
 Song, "Lorna's Laundry"
 EDITH HUXHAM
 MOANA LIA DUBO
 Waltz "Soo, Riecky" (Casane)
 HUGH HUXHAM
 Duet "Do kind foot 'em in Love"
 EDITH AND HUGH HUXHAM
 MOANA LIA DUBO
 Operatic Quartette, "The Patti Waltz song"
 (Fattion)

THE SERENADER QUARTETTE:

9.30 p.m.—MALVERN TRAMWAYS BAND:
 "Intermezzo" "Salsotto"
 March, "Hox and C. G."

10.37 p.m.—British Official Wireless news

from Rugby. Meteorological Information
 Announcements.
 10.42 p.m.—MOANA LIA DUBO: "Island
 Melodist."
 11 p.m.—OUR GREAT THOUGHT

"Can I see the future?"
 In store, and to take as a gift whatever the
 day brings forth.—Horace.
 11.1 p.m.—JOE ARONSON AND HIS SYN-

COPATING SYMPHONISTS:
 "Blowing Off Steam" (Davis).
 "No Puddin'" (Gwens).
 "American Love Call" (Ferm).
 "Rose Marie" (Ferm).
 "Give me a Little Kiss Will Ya' Hub"
 (Tark).

"Ting to Today" (Hillard).
 "Princess Betty's Lullaby" (Stephani).
 "King, Fire, Turn the Heat on Me" (Gard).
 "Fascination" (Fehling).
 "Precious" (Whiting).
 "Neapolitan Night" (Zanussi).
 "Hi, Diddle Diddle" (Glen).
 "At Peace with the World" (Berlin).
 "Baby Face" (Davis).
 11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Tuesday.

MIDDAY SESSION

1.5 p.m.—Market Reports, Weather Informa-

tion. "The Daily Mail" and "The Daily
 Standard" News.
 1.20 p.m.—From Hotel Carlton, Lunch Music
 from the Lounge, Royal Carlton, played by
 Hotel Carlton Symphony Orchestra.
 1.58 p.m.—From the Observatory: Standard
 Time Signal.
 2.0 p.m.—Close Down.

AFTERNOON SESSION

3.30 p.m.—A PROGRAMME OF MUSIC

FROM THE STUDIO: Duo Art selection,
 "Merry March" (Barnes) (German); Aeolian
 Vocalion selections—(a) contralto solo "The
 Rosary" (Nevins), Miss Elie Francis Fisher,
 (b) contralto solo, "In the Gloom" (Bar-
 rington), Miss Elie Francis Fisher; Duo
 Art selection, "Ballet des autres Heures"
 (Grieg); Aeolian Vocalion selections: violin
 solo (a) "Paraphrase on Minuet" (Kreisler),
 (b) "Berceuse" (Grieg), Miss Percy
 Cochrane; Duo Art selection, fox-trot, "Fox
 for Two" (Casuar Veumano); Aeolian Voc-
 alion selections: baritone solo (a) "The
 Blind Ploverman" (Clarke), (b) "Star of
 the East" (Clarke), Mr. Eric Marshall.
 4.15 p.m.—"The Telegraph" News.
 4.30 p.m.—Close Down.

EARLY EVENING SESSION

4.45 p.m.—"Daily Standard" News, Announce-

ments.
 6.30 p.m.—The Children's Session: Stories by
 Uncle Ben and Uncle Tim.
 7.0 p.m.—Market Reports; Stock Reports.
 7.30 p.m.—Weather News, Announcements.
 7.45 p.m.—Standard Time Signal.

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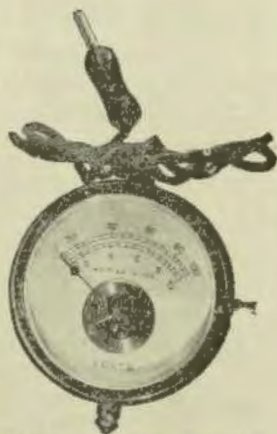


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NIGHT SESSION.

8.45 p.m.—Lectures "Photography" by Mr.
F. L. Smith (Manager Koda, Ltd.).

AN OPERATIC NIGHT.

To-night's programme has been arranged
by Mr. Erich John. It comprises extracts
from classical and modern operas.

9 p.m.—Choral "Bella's Awaia with Caro" from
"The Huguenots" (Meisner), Double
Quartette duet "Miserere Seno" (from
"The Troubadour"—Verdi), Miss Audrey
Hall and Mr. Ben Clarke, instrumental.
"Gavotte" from "Mignon" (Thomson), String
Quartette, aria "Caro Numa" (from
"Giulio"—Verdi), Miss Mabel
(soprano), choral "Tauschauer March"
from "Tannhauser", Wagner, Double
Quartette instrumental, "Luzerners" (from
"Cavalleria Rusticana"—Mascagni), String
Quartette.

9.30 p.m.—Address "Asian Day" by Cecil
Gardner, "Even Bowed Head" (from
"Faust"—Gounod), Mr. Chas. J. Lawless,
duet "Home to Our Mountains" (from
"The Troubadour"—Verdi), Mrs. Thelma Cham-
pion (soprano) and Mr. Geo. Williams
(tenor) instrumental "Hula March" (from
"Lohengrin"—Wagner), String Quartette,
choral "Kacapi" (from "The Daughter
of the Regiment"—Donizetti), Double Quar-
tette.

9.5 p.m.—Meteorological Weather Forecasts; In-
strumental "Batacorle" (from "The Tales
of Hoffman"—Offenbach), String Quartette,
choral "Come Old Comrades" (from "Faust"
—Gounod), Double Quartette, a.m. "Gotta
Awake My Heart" (from "Sam-
son and Delilah"—Saint Saens), Miss Mil-
licent Hill (contralto), instrumental "The
greatest Value" (from "Faust"—Gounod),
String Quartette, aria "Woman a Plecter"
from "Pagliotti"—Verdi, Mr. Geo. Will-
iamson (tenor) duet "Lover's Vow" (from
"Marta"—Fosco), Miss Mabel Melnot
(soprano), and Miss Clarice Cox (contralto),
instrumental "Hallel Miahi" (from "Holo-
fernis"—Schubert), String Quartette,
choral "Angels That Around Us Hover"
(from "Marta"—Wallace), Double Quar-
tette, aria "Torch Song" (from "Cae-
sar"—Bisni), Mr. Ben Clarke (baritone),
choral "Aveil Uchuu" (from "The Trou-
badour"—Verdi), Double Quartette.

10 p.m.—"The Daily Mail" News; Weather
News; Close Down.

6WF, PERTH

Tuesday.

12.30 p.m.—Tune in.
10.35 p.m.—First local news bulletin.
Market reports.
Cables.

1 p.m.—Time signal from Perth Observatory.
1.15 p.m.—Weather notes supplied by the
Meteorological Bureau of Western Aus-
tralia.

1.30 p.m.—Musical programmes, including
articles.
2 p.m.—Close down.
2.30 p.m.—Tune in.

3.35 p.m.—Pianoforte selection by Mr. Leslie
Lodson.
Musical programme, including articles.
4.30 p.m.—Close down.

6.45 p.m.—Tune in.
8 p.m.—Stories for tin tale by Auntie
Kale.

7.5 p.m.—Uzelle Leslie will talk to the boys.
7.50 p.m.—Stock and Share Intelligence.
Market reports.

8 p.m.—News supplied by courtesy of "The
West Australian" Newspaper Co.
7.15 p.m.—Talk: "Tales of a Fish Parson"
by Mr. Hamish Mackenzie.

8.15 p.m.—Time signal from Perth Observa-
tory.
8.1 p.m.—Weather notes supplied by the
Meteorological Bureau of Western Australia.
7.5 p.m.—Band night.
8.5 p.m.—By the R.R.I. Band. Conductor:
Mr. Geo. S. Mellow.

10 p.m.—Second local news bulletin supplied
by the courtesy of "The Daily News"
Newspaper Co.

Ships whose name announcement.
Weather report and forecast.
10.40 p.m.—Close down.

Wednes., April 20 2FC, SYDNEY

MIDDAY SESSION.

12 noon—"Big Ben" and programme an-
nouncements.
12.15 p.m.—Stock Exchange, first call.
12.30 p.m.—General weather forecast, rainfall
temperatures, astronomical observations, am-
plify intelligence, mail service.

12.45 p.m.—Studio music.
1.15 p.m.—"The Morning"
"Bertie" (from "The Merry Widow")
singing news.

1.25 p.m.—Studio music.
1.35 p.m.—"The Merry Widow"
"The Merry Widow" (Hood).

1.45 p.m.—Big Ben—weather intelligence.
1.55 p.m.—"Evening News" Sunday news ses-
sion.
Producers' Distributing Society's Report.

1.55 p.m.—Studio music.
2 p.m.—Stock Exchange, second call.
2.05 p.m.—Miss Faith Mallory, mezzo.
"Love is a Strange Companionary."

2.15 p.m.—Studio music.
2.30 p.m.—"The Merry Widow" will be devoted to
the coming by the 2FC Racing Commis-
sioner on the occasion of the third day of
the Autumn Meeting at Randwick.

AFTERNOON SESSION.

2.35 p.m.—"Big Ben." Continuation of the de-
votionary of the first day of the Autumn
Meeting at Randwick; the programme will be
conducted by the Chairman by the 2FC Racing
Commissioner.

3 p.m.—The following items
will be heard:
FROM THE STUDIO:
Miss Faith Mallory (soprano):
(a) "White Coward Grave" (Philips).
(b) "Here to Love" (Rubato).

3.30 p.m.—A talk on Home Cooking and Re-
cipes by Miss Ruth Pugh.
FROM FARMER'S TEA ROOMS:

3.45 p.m.—Miss Peggy Dunbar, contralto.
"For your dear sake" (Tennant).
4 p.m.—Miss Florence Grant, soprano.
"The Succinea" (Tosti).

4.15 p.m.—A talk arranged by the Country
Women's Association.
4.30 p.m.—Miss Peggy Dunbar, contralto.
"Just a Tap of Nighting" (Soprano).

4.45 p.m.—Miss Florence Grant, soprano.
"Moonlight Glow" (Sempia).
4.45 p.m.—FROM THE STUDIO:
Miss Faith Mallory (soprano):
(a) "White Coward Grave" (Philips).
(b) "Here to Love" (Rubato).

5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.15 p.m.—The Officers of 2FC.
5.30 p.m.—"The Hello Man" talks to the
children.
6.00 p.m.—A serial story for the older ones.
6.15 p.m.—Dinner music.

7 p.m.—"Big Ben." Dalgety's market reports
(wheat, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.
7.30 p.m.—Weather and shipping intelligence.
Rural Exchange.

7.45 p.m.—"Evening News" late news service.
7.50 p.m.—A complete review of today's
Autumn Meeting at Randwick (third day).

NIGHT SESSION.

7.55 p.m.—Programme announcements.
7.55 p.m.—"My Impressions of Piping" by Mr.
W. W. Tyler.

8 p.m.—"Big Ben." FROM THE LYRIC
WINTER GARDEN THEATRE: GEORGE
STREY, STICK, and
Items by Jimmy Elkin's Orchestra with the
Grand Opera.

8.10 p.m.—FROM THE STUDIO:
Mr. Alfred Cunningham, baritone.
"In Hammerlute on Bredon" (Paël).

8.14 p.m.—Mr. Jack Lumsdaine:
Songs at the Piano.

8.18 p.m.—Items by the Randwick Municipal Band.

8.30 p.m.—Mr. Alfred Cunningham, baritone:
"The Widdow" (Nelson).

8.34 p.m.—The Randwick Municipal Band.

8.38 p.m.—Madame Emily Marks, soprano.

8.42 p.m.—Mr. Jack Lumsdaine, entertainer.

8.46 p.m.—The Randwick Municipal Band.

8.50 p.m.—Mr. Alfred Cunningham, baritone:
"Eleanor" (Mullmann).

8.54 p.m.—Mr. St. Quentin Downer, pianist:
(a) "Capriccio" (Paganini-Schumann).
(b) "Fatorials" (Szeriatti).
(c) "Erl-King" (Schubert-Liszt).

9.00 p.m.—Mr. Jack Lumsdaine, entertainer.

9.04 p.m.—The Randwick Municipal Band.

9.08 p.m.—Mr. Alfred Cunningham, baritone:
"A Jolly Old Cavalier" (Dix).

9.12 p.m.—Madame Emily Marks, soprano.

9.16 p.m.—"Big Ben."

The Randwick Municipal Band.

10.10 p.m.—FROM THE LYRIC WINTER GARDEN THEATRE, GEORGE STREET, SYDNEY.
Items by Jimmy Elkin's Orchestra with the Grand Organ.

10.20 p.m.—Madame Emily Marks, soprano.

10.24 p.m.—FROM THE LYRIC WINTER GARDEN THEATRE:
Orchestral Items.

10.30 p.m.—FROM THE STUDIO:
Late news and announcements.

10.32 p.m.—Mr. St. Quentin Downer, pianist:
(a) "Nocturne—F. Sharp Major" (Chopin).
(b) "Pavane in A Flat" (Chopin).

10.42 p.m.—FROM THE WENTWORTH CAFE, CHURCH HILL, SYDNEY:
The Wentworth Symphonic Dance Orchestra, conducted by Mr. Frederick Leighton.
NOTE.—During the intervals at the Wentworth, celebrity records will be played from the studio.

11 p.m.—"Big Ben."
National Anthem.
Close down.

2BL, SYDNEY

Wednesday.

DAY SESSION

Description of the Royal Agricultural Show broadcast from the Show ground.

12 noon.—G.P.O. Clock and chimes.

12.1 p.m.—Special Ocean Forecast by courtesy of Mr. Morris.

12.2 p.m.—Weather Report and forecast.

12.3 p.m.—Racing Resume and News from "Sun."

12.15 p.m.—Musical programme from the studio.

12.19 p.m.—Stock Exchange Calls.

12.23 p.m.—Rabbit Market Report.

12.27 p.m.—Fish Market report.

12.31 p.m.—Vegetable Market report.

12.35 p.m.—Fruit Market report.

12.39 p.m.—Dairy Produce Market report.

12.43 p.m.—G.P.O. Clock and chimes.

12.47 p.m.—Fairs Report.

12.51 p.m.—Musical programme from the studio.

12.55 p.m.—News from the "Sun."

1.0 p.m.—Ships in call by wireless.

1.05 p.m.—Market Intelligence and Overseas.

1.08 p.m.—Shipping—arrivals and departures and movements of important ships.

1.12 p.m.—News from the "Sun."

1.15 p.m.—G.P.O. Clock and chimes.

1.18 p.m.—Fianforte Lecture Recital by Arnold R. Mote B.A. broadcast from the Fine Art Gallery, Anthony Horderna.

1.20 p.m.—News from the "Sun."

1.23 p.m.—Musical programme from the studio.

1.26 p.m.—Stock Exchange report.

1.30 p.m.—G.P.O. Clock and chimes.

1.33 p.m.—News from the "Sun."

1.36 p.m.—Musical programme from the studio.

1.39 p.m.—Women's Session. Talk on "Golf" by Miss Gwen Varley Broadcasters Women's Sports Authority.

1.42 p.m.—Social Notes by Mrs. Jordan—replies to correspondents.

1.45 p.m.—Talk by Dr. Morris.

1.48 p.m.—G.P.O. Clock and chimes.

1.51 p.m.—News from the "Sun."

1.54 p.m.—Musical programme from the studio.

1.57 p.m.—Serial Story.

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		Marco, D.C.	2 0
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Crossley (Porc.)	1 2		
Crossley (Bak.)	1 2	Switches.	
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		Framingham Series	1 6
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3.35 p.m.—News from the "Sun."
3.45 p.m.—Racing Results.
3.57 p.m.—Sporting Talk "Sun."
4.02 p.m.—Weather report.
4.10 p.m.—G.P.O. Clock and chimes.
4.15 p.m.—Musical programme from the studio.
4.30 p.m.—Shipping information.
4.35 p.m.—Musical programme from the studio.
4.45 p.m.—News from the "Sun."
4.50 p.m.—G.P.O. Clock and chimes.
4.55 p.m.—Musical programme from the studio.
4.63 p.m.—Producers Distributing Society's Fruit Market report.
4.65 p.m.—Producers Distributing Society's Vegetable Market report.
4.68 p.m.—Racing results.
4.75 p.m.—Recome of birds programme.
4.84 p.m.—Amusements.
4.96 p.m.—Special Ocean Forecast.
5 p.m.—G.P.O. Clock and chimes. Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes.
5.55 p.m.—Little Willie and Dandy Longlegs will entertain the kiddies.
6.30 p.m.—Musical programme from the studio.

SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and chimes.
7.05 p.m.—Australasia, Merrettville Land and Finance Live Report.
Weather report by courtesy of Guy Me. Producers Distributing Society's Fruit and Vegetable Market report.
Stock Exchange reports.
Grain and Poultry report (Sun).
Daily produce report (Sun).

7.15 p.m.—Country News from the "Sun."
7.30 p.m.—Talk by a member of the St. John Ambulance Brigade.

8 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical chorus.
8.3 p.m.—Miss Ethel Friend (contralto).
8.39 p.m.—Mr. Douglas Graham (Scottish comedian).

8.47 p.m.—Miss Winifred Jenner (Mexco soprano).
8.54 p.m.—Mr. Stan Cartmel (comedian).
9.01 p.m.—Carmen Due (Duet).
9.16 p.m.—Broadcasters' Instrumental Trio.

9.26 p.m.—Resume of following day's programme weather report and forecast by courtesy of Guy Me.
9.35 p.m.—G.P.O. Clock and chimes.

9.42 p.m.—Mr. A. G. Steel (baritone).
9.50 p.m.—Miss Eily Dalgleish (soubrette).
9.58 p.m.—Miss Katha French.
10.03 p.m.—Mr. Douglas Graham.

10.30 p.m.—Mr. Hoyce Carter (cellist).
10.37 p.m.—Miss Winifred Jenner.
10.44 p.m.—Broadcasters' Instrumental Trio.

10.54 p.m.—Mr. Stan Cartmel.
10.61 p.m.—Mr. A. G. Steel.
10.68 p.m.—Miss Eily Dalgleish.
10.15 p.m.—Amalansandus Dance Band broadcast from the Ballroom of the Ambassadors. During the intervals between dances news reports by courtesy of the "Sun".

11 p.m.—G.P.O. Clock and chimes.
National Anthem.

3LO, MELBOURNE

Wednesday.

Announcer MAURICE DUDLEY
Accompanist AGNES FORTUNE
12 noon.—Time Signal. British Official Wireless News from Bagby. Home's and the Australian Press Association Cables. Stock Exchange information. "Argus" and "Herald" news service.
12.10 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
"Moonlight on The Ganges" (Wallace).
"Sweet Other Bird Whistles a Tune" (Byron).
"While the Years go Drifting By" (Kahn).
12.20 p.m.—SYD BENCE, Comedian.
"Archibald, Certainly not."
12.27 p.m.—Stock Exchange information.
12.37 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
"Clap Hands Here Comes Charlie" (Meyer).
"Mignonette" (Donaldson).
"If Made You Happy" (Donaldson).
12.57 p.m.—RUSSELL CALLOW, Tenor.
"O Paradise" (Meyerbeer).
"Thank God for a Garden" (Rago).

1.4 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
"Speech" (Graham).
Piano Solo: "Goin' in the Piano" (Grodby).
"Homes" (Hull) (Stankard).

1.44 p.m.—WEATHER REPORT.
1.59 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
"Bye Bye Times".
"You Need Someone to Love" (Olson).

1.50 p.m.—ARTHUR DOUGLAS, Comedian.
"Mary Walks" (Stankard).
1.57 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.

"I Want a Pardon for Daddy" (Rog).
"That's My Girl" (Davis).
4.01 p.m.—GRACE AND BEATS.
Song: "Bowl of Roses".
Duet: "Sweet Dreams".

4.04 p.m.—JOE ARONSON AND HIS SYN-COPATING SYMPHONISTS.
"By The Waters of Minnetonka" (Levanon).
"On the Riviera" (Rich).
"There'll Come a Sometime" (Comar).

MIDDAY SESSION.

2 p.m.—Description of All Aged Bikes. Randwick Racecourse, Sydney, by arrangement with JFC Sydney.
2.15 p.m.—Description of Hurdle Race, Kyneton Races, by "Muskat," of the "Sporting Globe".

2.45 p.m.—Description of Trial Handicap, Kyneton Races, by "Muskat," of the "Sporting Globe".

AFTERNOON SESSION.

Announcer MAURICE DUDLEY
Accompanist AGNES FORTUNE
3 p.m.—"Two Novelists" (Armfield).
3.10 p.m.—HUXLIAM'S SERENADERS:
"Quarantine," "I Never Want to Live in Dain" (soprano).

EDITH HUXHAM, DOLLY BURETT, RENN MILLAR, HUGH HUXHAM.
Bass Solo, "Go to Sea".
3.20 p.m.—STUDIO ORCHESTRA:
"Nuit d'Amour".

3.25 p.m.—Huxham's Quartette, "The Tale of a Flea".
THE REFERRER QUARTETTE.
Old Coon Quartette, "Poor Old Joe".
THE SERENADER QUARTETTE.
STUDIO ORCHESTRA:
"Holiday Sketches".

3.30 p.m.—"Ave Maria" (Mussorgsky).
THE SERENADER QUARTETTE.
3.35 p.m.—Description of Turf Club Handicap, Kyneton Races, by "Muskat," of the "Sporting Globe".

3.40 p.m.—STUDIO QUARTETTES:
"No." (Walter Robl).
3.45 p.m.—Description of Pony Race, Kyneton Races, by "Muskat," of the "Sporting Globe".

3.50 p.m.—Description of Cumberland Stakes, Randwick Racecourse, Sydney, by arrangement with JFC Sydney.
4.00 p.m.—KAKA LEWIS, Violin:
"Love will find a way".

4.07 p.m.—STUDIO ORCHESTRA:
"Merrie England" (Ed. German).
4.15 p.m.—Description of Distance Handicap, Kyneton Races, by "Muskat," of the "Sporting Globe".

4.20 p.m.—WIN AND WINDLE:
4.30 p.m.—LITTLE CHAT, "Fun in the Courts".
4.35 p.m.—FRANKLIN STONHAM, Clarinet.
Koverland—Waher.
4.40 p.m.—SIEBE FRICK, "Mothcrheart".

4.45 p.m.—Description of Encourage Mile, Kyneton Races, by "Muskat," of the "Sporting Globe".
4.50 p.m.—"Herald" News Service. Stock Exchange Information.
5 p.m.—Close down.

EVENING SESSION.

5.40 p.m.—CHILDREN'S HOUR. Answers to letters and hints and good suggestions.
8.55 p.m.—STUDIO ORCHESTRA.
"The Magic and the Fairies" (Bendici).
9.2 p.m.—"MARY, MARY, QUAY CON-TARY." Story for the little ones.
"Teeny Duck".

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4QG, BRISBANE

Wednesday.

EARLY MORNING SESSION

4.30 a.m.—Physical Culture Section.
7.0 a.m.—Close Down.

MIDDAY SESSION.

1.0 p.m.—Market Reports, Weather Information, "The Daily Mail" and "The Daily Standard" News.
1.30 p.m.—From the G.P.O.: Lunch Hour Music played by the Postal Institute Orchestra.
1.50 p.m.—From the Observatory: Standard Time Signal.
3.0 p.m.—Close Down.

AFTERNOON SESSION.

3.30 p.m.—From Hotel Carltons: Afternoon Music from the Lounge played by Hotel Carlton Symphony Orchestra.
4.15 p.m.—From the Studio: "The Telegraph" News.
4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—"Daily Standard" News; Announcements.
6.30 p.m.—"The Children's Hour—Stories by 'Little Miss Brisbane'"
7.0 p.m.—Market Reports; Stock Reports.
7.30 p.m.—"Weekly News" Announcements.
7.45 p.m.—Standard Time Signal.

NIGHT SESSION.

10 p.m.—Lecturette: "X-Ray for the Layman"—the latest of a series by Mr. R. W. Sagar.

**STUDIO CONCERT—SCOTTISH
ENTERTAINERS.**

8.0 p.m.—Overture: "Fest of Lanterna" (Bennett); the Studio Orchestra (conductor, Mr. A. B. Featherstone); contralto solo, "Little Brown Cottage" (Dickson), Miss Hilda Cooper; A. Thought for To-night (Will H. Lister); "The Plough", soprano solo, "Indian Love Call" (Prince), Miss Marion Carey; solo, "Sounds from the Giegs" (Werner); the Studio Orchestra; contralto solo, "Beyond the Dawn" (Sanderson), Miss Vera Parker; tenor solo, "Cairn's Blues" by "Rab"; monologue, "Lost Her Way" (Sylvester), Miss Agnes Finney; tenor solo, "Hanna" by "Tam"; Scotch comic, "This" by "Jack"; extracts, "Two Guitars" (Harlick), the Studio Orchestra; soprano solo, "Believe Me If All" (Moffatt), Miss Jill Manning.

8.0 p.m.—Metropolitan Weather Forecast; Vocal Duet, "The Celebrated Goodness Duet"; "Rab" and "Tam" monologue; "A Little Bit of a Boy" (Stanton), Miss Agnes Finney; soprano solo, "Rose Marie"; Miss Marion Carey; tenor, "Black and Blue" (Nichols); the Studio Orchestra; bass solo, "Downshire Ocean and Caler" by "Rab"; Scotch comic, "Looking for a Hearty Lass to Love Me" by "Jack"; tenor solo, "Why Should I?" by "Tam"; waltzette, "Fancies" (Gobb), the Studio Orchestra; contralto solo, "Thinking of Thee" (Carr Bonas); Miss Vera Parker; vocal duet, "All's Well" by "Rab" and "Tam"; soprano solo, "Valse Rom" (Gurnell), Miss Jill Manning; violin solo, "Serenade D'Amour" (Van Riel); Mrs. N. C. Williams (accompanied by the Studio Orchestra); contralto solo, "Paddy" (Bohrendt), Miss Hilda Cooper; march, "Independence" (Hull), the Studio Orchestra.
10.0 p.m.—"The Daily Mail" News; Weather News; Close Down.

6WF, PERTH

Wednesday.

12.00 p.m.—Tune in.
12.35 p.m.—First local news bulletin, Market reports, Cables.

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

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

1.2 p.m.—Studio Reports.

2 p.m.—Close down.

2.30 p.m.—Tune in.

2.55 p.m.—Musical programme.

4 p.m.—Studio Trio.

4.20 p.m.—Close down.

4.45 p.m.—Tune in.

6.40 p.m.—Children's playette, "Uncle Tom's Cabin" by Uncle Duffy with Annetta Kate Perry and Evelyn, and Uncles Henry Leslie, Perry and Duffy.

7.0 p.m.—Stock and Share Intelligence.

Market reports.
Cables: News supplied by courtesy of "The West Australian" Newspaper Co.

7.45 p.m.—Talk.

8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.

8.2 p.m.—Variety Musical programme, including articles.

10 p.m.—Second local news bulletin supplied by courtesy of "The Daily News" Newspaper Co.

10.30 p.m.—Close down.

Thursday, April 21

2FC, SYDNEY

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.
12.30 p.m.—Stock Exchange, first call.
1.28 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.

1.15 p.m.—Studio music.

1.25 p.m.—Summary of "Sydney Morning Herald" news service and cables.

1.35 p.m.—Wireless news.

1.45 p.m.—Studio music.

1.55 p.m.—The 2FC Hearing Commissioner: "Latest sporting information."

2.05 p.m.—Miss Myrtle Gilman, lyric soprano;

"Wings" (D'Harleuil).

2 p.m.—"Big Ben" Weather intelligence.

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

Producers' Distributing Society's Report.

2.30 p.m.—Studio music.

2.50 p.m.—Miss Freda Fish, violinist.

2.58 p.m.—Studio music.

3.05 p.m.—Miss Myrtle Gilman, lyric soprano.

"A Japanese Love Song" (Deake).

3.20 p.m.—Studio music.

3.30 p.m.—Miss Freda Fish, violinist.

3.38 p.m.—Miss Loretta Leacock, soprano;

"June Music" (Trent).

3.50 p.m.—Studio music.

4.00 p.m.—Miss Freda Fish, violinist.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.3 p.m.—Studio music; Pianoforte recital.

3.10 p.m.—Miss Freda Fish, violinist.

3.18 p.m.—Miss Loretta Leacock, soprano;

"June Music" (Trent).

3.20 p.m.—Studio music.

3.30 p.m.—Miss Freda Fish, violinist.

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Despite the fact that Ever-Ready Radio Batteries are made in Sydney, and are thus assuredly fresh, they must all undergo a severe test before leaving the factory. Thus, apart from breakages in transit, every battery carries a guarantee from the makers as being fully up to the high standard of construction and efficiency demanded by Ever-Ready enthusiasts throughout the Commonwealth.

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The Ever-Ready Radio "Standard" Dry Cell, as illustrated, is fitted with two screw terminals, and since its introduction has met with great success, users recognising its immense superiority over any imported cell. Size, 2 1/2 x 6 1/2. Weight, 2lbs. Also for bells, telephones, signalling and electro-medical apparatus, &c.



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This illustrates the new radio high-tension "B" Battery, which can be obtained 31, 42 or 63 volts—fitted with a Wanda plug, and 2 screw terminals.

PRICE:

Small size, type WF, 31.5 volt	9/0
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Extra large size, type Super Service, 42 volt	28/6

If unobtainable locally, write for address of nearest source of supply to

The Ever-Ready Co. (Gt. Britain) Ltd.

163 Pitt Street = SYDNEY

- 3.40 p.m.—FROM FARMER'S TEA ROOMS:
Miss Mesmore Morris, mezzo-soprano:
"Tree Blinds" (Sanderson).
3.45 p.m.—A Dickens Reading by Mr. A. S. Cochrane.
4 p.m.—"Big Ben."
FROM FARMER'S TEA ROOMS:
Miss Jeanette Rooney, contralto:
"My Treasure" (Trevaila).
4.15 p.m.—FROM THE STUDIO:
Popular Records.
4.15 p.m.—Miss Lotys Locant, soprano.
4.20 p.m.—FROM FARMER'S TEA ROOMS:
Miss Mesmore Morris, mezzo-soprano:
"Minnny" (Purcell).
4.25 p.m.—A talk arranged by the Country Women's Association.
4.40 p.m.—FROM FARMER'S TEA ROOMS:
Miss Jeanette Rooney, contralto:
"Boat Song" (Ware).
4.45 p.m.—Stock Exchange, third call.
4.48 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION

- 5.45 p.m.—The Chimes of 2FC.
5.50 p.m.—The "Hello Man" talks to the children.
6.00 p.m.—A serial story for the older ones.
6.40 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.15 p.m.—Dalgely's market reports (wheat, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.
7.20 p.m.—Weather and shipping intelligence.
Stock Exchange.
7.25 p.m.—Late "Evening News" news bulletin.

NIGHT SESSION

- 7.40 p.m.—Programme announcements.
7.45 p.m.—A talk on Jersey Cattle by Mr. E. J. Van de Velde.
8 p.m.—"Big Ben."
Mr. Harold Tollemache, baritone:
"The Longshoreman" (Chesham).
8.4 p.m.—Mr. W. F. Kay talks on "Poverty's Point."
8.15 p.m.—FROM PALING'S CONCERT HALL: A Programme by the Sydney Madrigal, conducted by Mr. Arnold Mote, B.A., Mus.Bach.
8.50 p.m.—FROM THE STUDIO:
Mr. Harold Tollemache, baritone:
A Chanty, "The Lowestoft Boat" (Elszer).
8.54 p.m.—Mr. F. W. Swain, flute solos:
(a) "Solers" (Kohler).
(b) "By the Brook" (Wetzneger).
9 p.m.—"Big Ben."
Miss Mabel Batchelor, soprano:
(a) "The Willow Tree" (Kahn).
(b) "When the Thrush sings" (Garna).
9.4 p.m.—Mr. Joe Cahill, entertainer.
9.14 p.m.—Mr. F. W. Swain, flute solos:
(a) "Papillon" (Kohler).
(b) "Scherzato" (Goodall).
9.50 p.m.—Miss Mabel Batchelor, soprano:
(a) "Song of the Elfin" (Galloway).
(Obbligato by Mr. F. W. Swain).
(b) "Lost Song by Ha Dyal" (Batten).
9.25 p.m.—The 2FC Studio Dance Band, conducted by Mr. Eric Pearce:
Fox Trot, "Precious" (Paustrmark).
9.35 p.m.—Mr. Harold Tollemache, baritone:
(a) "Bound the Galley Fire" (Oliver).
(b) "Go to Sea" (Trotter).
9.40 p.m.—Captain Frank Hurler will give the final of his Adventure Talks, taking as his subject:
"Windjammer and Sea Chantey," with descriptive effects arranged by Mr. Laurence Halbert.
9.45 p.m.—The 2FC Studio Dance Band, conducted by Mr. Eric Pearce:
Fox Trot, "Mr Carmichael" (Dureval).
Waltz, "Blame it on the waltz" (Kahn).
9.49 p.m.—Mr. Joe Cahill, entertainer.
9.49 p.m.—The 2FC Dance Band in popular numbers until 11 p.m., including:
(a) Fox Trot, "Proud" (Schenberg).
(b) Fox Trot, "Calling me home" (Monroe).
(c) Fox Trot, "Blackbottom" (Kenderson).
10 p.m.—"Big Ben."
National Anthem.
Close down.



The Canberra Boomerang

When I had surfeited myself for weeks on the press publicity about the Canberra celebration, I pictured a deserted Sydney with grass growing in Pitt-street, and, at least, one empty seat per tramcar.

Myriads of cars, touts by the ten thousand, food and drink for a dozen army corps, fire extinguishers, special licenses, speed limits, warnings, etc., etc., it was like a film story of the great war.

Now I read that one tent has been rented from a distributor who might reasonably have expected to lease hundreds!

What's wrong with Canberra? Well, I figure it out in two ways. In the first place all this emphasis on drastic restrictions and regulations caused car owners to cut Canberra out of their schedule—the boomerang has come back unexpectedly.

Secondly the spread of radio has given everyone the opportunity of listening to the Duke's speech and hearing Melba sing, without moving from an easy chair. Therefore, why go to Canberra?

Just here may I issue my own priorities before the day arrives—otherwise, you may as well go blue-bathing at the Leura baths in the Blue Mountains.

If you have a Burgess battery you can set your mind at rest. The battery which went over the Pole with Byrd, into New Guinea with Hurley, was chosen by the Canadian Government to endure nine months isolation in the frozen North-west, and is standard equipment in the American Navy, will see you through Canberra.

On the other hand, if you have a cheap imitation of this famous dry cell battery, you will be wise to call up New System Telephones Pty., Ltd., 2th Castlereagh-street (M 3230), and order a Burgess Battery at once.

You owe it to Royalty to give them a good hearing, when they open the first Federal Parliament at the National Capital, of which we are deservedly proud.

2BL, SYDNEY

Thursday.

- Description of the Royal Agricultural Show broadcast from the Show Grounds.
- 12 noon—G.P.O. Clock and chimes.
- 12.15 p.m.—Social Gleaners Foreword by courtesy of Mr. Maize.
- 12.2 p.m.—Weather report and forecast.
- 12.25 p.m.—News from the "Sun" and Racing resume.
- 12.35 p.m.—Musical programme from the studio.
- 12.40 p.m.—Stock Exchange Calls.
- 12.42 p.m.—Rabbit Market report.
- 12.43 p.m.—Fish Market report.
- 12.44 p.m.—Vegetable Market Report.
- 12.45 p.m.—Fruit Market report.
- 12.46 p.m.—Dairy Produce Market report.
- 12.50 p.m.—G.P.O. Clock and chimes.
- 12.55 p.m.—Farm Exchange Market report.
- 12.58 p.m.—News from the "Sun."
- 1.02 p.m.—Hillier's Instrumental Quartet. Director—Carl Gustaf.
- 1.03 p.m.—G.P.O. Clock and chimes.
- 1.04 p.m.—Shipping—arrivals and departures and movements of important ships.
- 1.05 p.m.—News from the "Sun."
- 1.06 p.m.—Musical programme from the Studio.
- 1.10 p.m.—Beach Exchange Calls.
- 2 p.m.—G.P.O. Clock and chimes.
- Racing information broadcast by courtesy of the "Sun" immediately after each race.
- 2.15 p.m.—News from the "Sun."
- 2.18 p.m.—Musical programme from the studio.
- 2.20 p.m.—Women's Section. Social notes by Mrs. Jordan.
- 2.24 p.m.—Mrs. Jordan replies to correspondents.
- 2.25 p.m.—Talk by Mrs. Jordan.
- 2.30 p.m.—G.P.O. Clock and chimes.
- 2.31 p.m.—Country Women's Section.
- 2.35 p.m.—News from the "Sun."
- 2.40 p.m.—Social Notes.
- 2.40 p.m.—News from the "Sun."
- 2.44 p.m.—Racing Resumes.
- 2.47 p.m.—Sounding Talk (Sun.)
- 2.47 p.m.—Weather report.
- 4.00 p.m.—G.P.O. Clock and chimes.
- 4.05 p.m.—Musical programme from the studio.
- 4.10 p.m.—Shipping information.
- 4.15 p.m.—Musical programme from the studio.
- 4.22 p.m.—News from the "Sun."
- 4.28 p.m.—G.P.O. Clock and chimes.
- 4.31 p.m.—Musical programme from the studio.
- 4.41 p.m.—Producers' Distributing Society's Fruit Market report.
- 4.44 p.m.—Producers' Distributing Society's Vegetable Market report.
- 4.45 p.m.—Racing Resumes.
- 4.52 p.m.—Resume of night's programme.
- 4.54 p.m.—Announcements.
- 4.58 p.m.—Special Green Forecast.
- 5.00 p.m.—G.P.O. Clock and chimes. Close down.

EARLY EVENING SESSION.

- 5.15 p.m.—G.P.O. Clock and chimes.
- 5.18 p.m.—Little Wally and Daddy Longlegs will entertain the kiddies.
- 5.40 p.m.—Musical programme from the studio.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and chimes.
- Australian Mercantile Land and FIREBRICK Co's report.
- Weather report by courtesy of Govt. Met. Department. Distributing Societies Fruit and Vegetable Market report.
- Stock Exchange reports.
- Grain and Foodstuffs report (Sun).
- Dairy Produce Report (Sun).
- 7.15 p.m.—Country News from the "Sun."
- 8 p.m.—G.P.O. Clock and chimes—
- 8.05 p.m.—Miss Hazel McClelland (mezzo contralto).
- 8.10 p.m.—Mr. Norman Wright (tenor).
- 8.17 p.m.—Fashion notes by Bessie Dorrington, broadcast from the Ambassadors.
- 8.23 p.m.—Miss Dorrie Ward (soprano).
- 8.29 p.m.—Abad Duo (steel guitar).
- 8.35 p.m.—Mr. W. E. Lewis (baritone).
- 8.43 p.m.—Miss Nellie Ferguson (contralto) at the piano.
- 8.59 p.m.—Duet Miss Dorrie Ward and Mr. W. E. Lewis.
- 9.05 p.m.—Resume of following day's programme weather report and forecast by courtesy of Govt. Met.

- 9 p.m.—G.P.O. Clock and chimes.
- 9.1 p.m.—Mr. Stan Hudson and Mr. A. J. Lawrence.
- 9.25 p.m.—Fashion notes by Bessie Dorrington broadcast from the Ballroom of the Ambassadors.
- 9.30 p.m.—Miss Hazel McClelland.
- 9.35 p.m.—Mr. Norman Wright.
- 9.40 p.m.—Miss Ferguson.
- 9.47 p.m.—Miss Dorrie Ward.
- 9.54 p.m.—Duet Duo.
- 10.01 p.m.—Mr. W. E. Lewis.
- 10.08 p.m.—Ambassadors Dance Band broadcast from the Ballroom of the Ambassadors. During the intervals between dances news reports by courtesy of the "Sun."
- 11 p.m.—G.P.O. Clock and chimes. National Anthem.

3LO, MELBOURNE

Thursday.

MORNING SESSION.

- 7.30 welcome, Royal Henry, Duke of York, Elizabeth of Hanau, welcome too.
- Free Will for all the sunny days.
- We send a warm aura for both of you.
- 10 a.m.—Description of progress of H.M.S. "Renown," escorted by H.M.A.S. "Sedona" and "Albatross" and arrival report by Royal Australian Air Force, stationed and from "Akana" interspersed by musical items.
- 11 a.m.—Description of H.M.S. "Renown" berthing at Station Pier, Port Melbourne. Salute of 21 guns from H.M.A. Squadron.
- 11.28 a.m.—Close down.

MIDDAY SESSION.

- Announcer, MAURICE DIDDLEY, Accompanied by AGNES FORTUNE.
- 12 noon—Time Signal.
- British official wireless news from Rugby-Hosiery and The Australian Press Association.
- 1.14 a.m.—
- "Argus" and "Herald" news service.
- 1.20 p.m.—HUXHAM'S SERENADES. Quartet. "Mr. Diddle, Diddle."
- EDITH HUXHAM, "LILLY BURDETT," KENN MILLARD AND HUGH HUXHAM. Contralto solo.
- "Kashmiri Song."
- DOLLY BURDETT. Studio Orchestra.
- "Dance Lente" (Cesar Franck).
- Soprano solo.
- "A heart that's free."
- EDITH HUXHAM. Duet.

- "Is that so?"
- EDITH AND HUGH HUXHAM. Studio Orchestra.
- "Vive le danse" (Finck).
- Operatic Quartet.
- "Beautiful Rose" (Watan). SERENADE QUARTET.
- 12.30 p.m.—Stock Exchange information.
- 12.35 p.m.—Studio Orchestra.
- "Two Sons Free" (John Ireland).
- 1 p.m.—CAPT. J. PALMER, Pilot for deep sea boats, will describe his experiences while piloting the H.M.S. "Renown" into port.
- 1.17 p.m.—ELSIE DAVIES, soprano.
- Artia "Melistote" (Botta).
- 1.18 p.m.—Meteorological information.
- 1.20 p.m.—STUDIO ORCHESTRA.
- Selection, "Widow's" (Yonname).
- 1.30 p.m.—ELSA DAVIES, Soprano.
- "Sogni" (Schtra).
- ROSEMARY MARY OF ARGYLE (Scottish).
- 1.37 p.m.—STUDIO ORCHESTRA.
- "Sullivan Selection" (Higgs).
- 1.47 p.m.—GRACE AND KHATS. In Harmony.
- 1.54 p.m.—STUDIO ORCHESTRA.
- "A Hillside Melody" (Montague Phillips).
- 2 p.m.—Description of the landing of their Highnesses, The Duke and Duchess of York at St. Kilda Pier. Salute of 21 guns from 10th Battery, Royal Field Artillery.

The Guard of Honor will be furnished by the Royal Australian Navy (Flinders Depot) and Royal Australian Garrison Artillery. Their Royal Highnesses will be received by His Excellency the Governor-General, His Excellency the Governor of Victoria, Lieutenant Governor Sir Wm. Irvine, the Rt. Hon. the Prime Minister, Hon. Premier of Victoria, etc., at the shore end of St. Kilda Pier. They will also be received by the Mayor and Councillors of St. Kilda and be presented with an address of loyalty and welcome—transmission from St. Kilda Pier.

2.15 p.m.—Description of the Royal progress, transmitted from the Portico of the Town Hall and later, as the procession turns into Collins-street, from the window of 310 Strand.

AFTERNOON SESSION.

- Announcer MAURICE DIDLEY.
Accompanist AGNES FORTUNE.
- 3.10 p.m.—STUDIO ORCHESTRA.
"Two light syncopated pieces" (Eric Coates).
- 3.40 p.m.—ALICE MADIGAN, pianoforte recital:
"Cradle Song"
"Mélodie in E" (Bachmannhoff).
"Polchinelle" (Bachmannhoff).
- 3.52 p.m.—MAYWELL CAREW, comedian:
"Naughty Yodel."
"When You and I were young, Maggie."
- 4 p.m.—STATION TRIO.
"Trio in A for clarinet, 'cello and piano" (Brahms).
- 4.10 p.m.—RUSSELL CALLOW, tenor:
"Celeste Aida" (Verdi).
"The Living Bird" (O'Hara).
- 4.17 p.m.—MISS FRANCES FRASER:
"In classic Italy."
- 4.30 p.m.—"Herald" news service.
Stock Exchange information.
- 4.46 p.m.—EVENSONG, from St. Paul's Cathedral.
- 5.10 p.m.—Close down.

EVENING SESSION.

- 5.40 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.
- 5.51 p.m.—RUXHAM'S SERENADERS will sing a funny duxset for the children.
- 6.1 p.m.—"MARY GUMLEAF," poems:
"The Cat's Lament."
"When Juggie listened in."
Story for the littlest ones.
"Bunny Huntings."
- 6.12 p.m.—RUXHAM'S SERENADERS once again.
- 6.19 p.m.—"MARY GUMLEAF," Story for the bigger children.
Robin Hood's Guests.
- 6.35 p.m.—"Argus" and "Herald" news service.
Weather synopsis.
Shipping movement.
- 6.47 p.m.—Stock Exchange information.
- 6.52 p.m.—Fish market reports by J. R. Borell, Ltd.
- 6.55 p.m.—River reports.
- 6.58 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd.
Newmarket sheep sales.
Woolly grain, hay, straw, jute, dairy produce, potatoes and onions.
- 7.4 p.m.—Market reports of Fruit, by the Victorian Fruitlers' Association, compiled by "The Fruit Worm" exclusive to 3LO.

NIGHT SESSION.

- Announcer ALFRED ANDREW.
Accompanist AGNES FORTUNE.
- 7.15 p.m.—A trio under the auspices of the Railway Department.
- 7.30 p.m.—MR. H. R. GOLLAN:
"Aesop's Day, 1827."
- 7.45 p.m.—MR. LEON GORDON, now appearing in "Too for Two" at the Theatre Royal, will speak to you from his dressing-room, by permission of J. C. Williamson.
- 8 p.m.—DR. BROOKE NICHOLLS:
"Landing on the Island."
THERE WAS A SOUND OF REVERBY BY NIGHT.

Put your set in order— FARMER'S have everything you need.

The opening of Parliament at Canberra! Only the fortunate few can be actually present on this historic occasion, but the official broadcasting makes it open to all. And now is the time to put your set in proper order, to replace doubtful or defective parts,



The "Radiokes" Radio Frequency Kit.

"Radiokes" Radio Frequency Kit, as used in the Browning Drake circuit. One blue print diagram is supplied with each kit. Price 42/-

The "Jefferson" Audio Frequency Transformer

Jefferson No. 41 Audio Frequency Transformer, with a ratio of 3.75-1, ideal for adding to a single valve receiver when desirous of converting it into a two-valve set. Price 18/6



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Both UX and UV 201A Valves may be used in Benjamin Sockets. Assembled. Price 5/-. Unassembled, 3/6



"Mars" Aerial Wire, 84-strand, super aerial cable, has the lowest ohmic resistance yet obtained; 100-ft. lengths. Price 12/6

"B" Batteries, Burgess, 45-volts, large capacity, 28/-
Volton, 45 Volts, large capacity 22/6

Ever Ready, WP40, 12/6; XP40, 21/-; WP60, 18/-;
XP60, 31/6; No. 126, 2/9.

FARMER'S, SYDNEY

Box 497 AA, G.P.O.

Farmer's do not Pay Carriage on Wireless Goods.

tenor solo, "In the Garden of My Heart" (Ball), Mr. C. R. Kelly; bass solo, "Blow, Blow Thou Winter Wind" (Sargenti), Mr. R. Pike; male quartette, "Pussy in the Well" (Herbert), the Anglo Male Quartette; soprano solo, "Chanson Indoue" (Rimsky-Korsakov), Miss Evelyn Grice; intermezzo, "Secrets" (Ancliff), the Clarwin Orchestra; baritone solo, "Just a Cottage Small," Mr. A. F. Studdert; tenor and bass duet, "Larkspur Watch" (Williams), Messrs. C. Kolb and R. Pike; soprano solo, "Continuity" (Carandini), Miss Evelyn Grice; male quartette, "The Last Rose of Summer" (Parks), the Anglo Male Quartette; popular items, selected, the Clarwin Orchestra.

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

GWF, PERTH

Thursday.

12.30 p.m.—Tune in.
 12.35 p.m.—First local news bulletin.
 Market reports.
 Cables.
 1 p.m.—Time signal from Perth Observatory.
 1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 1.2 p.m.—Studio Quintette.
 2 p.m.—Close down.
 3.30 p.m.—Tune in.
 3.35 p.m.—Musical programme, including pianoforte selections by Mr. Leslie Judson.
 4 p.m.—Studio Trio.
 4.30 p.m.—Close down.
 6.45 p.m.—Tune in.
 6.50 p.m.—Stories for tiny tots by Auntie Kate.
 7.5 p.m.—Uncle Duffy will talk to the kiddies.
 7.20 p.m.—Stock and Share intelligence.
 Market reports.
 Cables. News supplied by courtesy of "The West Australian" Newspaper Co.
 7.45 p.m.—Talk.
 8 p.m.—Time signal from Perth Observatory.
 8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 8.2 p.m.—Orchestral Night.
 4 W.F. Station Orchestra. Conductor, Mr. Ronald E. Moyle, A.T.C.L.
 10 p.m.—Second local news bulletin supplied by courtesy of "The Daily News" Newspaper Co.
 10.30 p.m.—Close down.

Friday, April 22

2FC, SYDNEY

MIDDAY SESSION.

12 noon—"Big Ben" and programme announcements.
 12.5 p.m.—Stock Exchange—first call.
 12.8 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
 12.15 p.m.—Studio music.
 12.25 p.m.—Summary of "Sydney Morning Herald" news service and cables. Rugby news.
 12.35 p.m.—Studio music, a pianoforte reproduction on the "Behning" Player Piano.
 12.45 p.m.—Some popular records.
 12.55 p.m.—Miss Genevieve Eppel, soprano: "Wake up" (Philips).
 1 p.m.—"Big Ben." Weather intelligence.
 1.0 p.m.—"Evening News" midday news service. Producers' Distributing Society's report.
 1.20 p.m.—Studio music.
 1.30 p.m.—Miss Nancy McGilchrist, Violin Solo.

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To Easter Visitors to Sydney

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INVITED TO INSPECT THE
Igranic Six-Valve
Supersonic-Heterodyne
Receiver

which has been hailed everywhere with enthusiasm and is recognised as the finest Radio Set yet offered on the markets of the world.

You will be able to have these Receivers demonstrated to better advantage and in greater comfort in our Showroom away from the Royal Agricultural Show, where there is so much bustle and distraction.

Nothing will give you greater satisfaction, happiness, and social pleasure than one of these Receivers, which is as necessary to the man on the land as a Tractor or Cream Separator.

You can secure market, stock and weather reports every day—all the news of the world as almost as soon as events are happening; comprehensive programmes of Musical, Vocal and Educational Items.

Please Call and inspect, even although you may not be thinking of immediate purchase.

If in meantime you would like further particulars, Please Write for Booklet W.W.

Noyes Bros. (Sydney) Limited

115 Clarence St., Sydney

11 Wall St., Newcastle

Perry House, Elizabeth St., Balmain

2.40 p.m.—Miss Genevieve Kipnel announces
"This is the Maxims" (Duke)
4.45 p.m.—Popular records
4.55 p.m.—Miss Nancy McGilchrist, Violin Solo
5 p.m.—"Big Ben." Close down.

AFTERNOON SESSION

3.45 p.m.—And programme announcements.
4 p.m.—Miss Nancy McGilchrist, Violin Solo
4.15 p.m.—Miss Elvira Aubin, Soprano:
"Come to the Fair" (Marrin)
4.27 p.m.—Studio music
4.35 p.m.—Miss Nancy McGilchrist, Violin Solo
4.40 p.m.—Studio music
4.45 p.m.—FROM FARMERS TEA ROOMS—
Miss Ellen Moran, Soprano:
"The Song of Beulah" (Phillips)
4.45 p.m.—A Talk on Home Cooking and Recipes by Miss RUTH FURST
4.55 p.m.—"The Day" — FROM FARMERS TEA ROOMS—
Miss Ellen Moran, soprano, contralto:
"A Dream" (Harriott)
4.55 p.m.—Studio Music, Miss Elvira Aubin, Soprano:
"Hallelujah—Blowing" (German)
4.55 p.m.—A Short Talk on Music by Mr. Ewart Chaplin
4.55 p.m.—FROM FARMERS TEA ROOMS—
Miss Ellen Moran, Soprano:
"If I Could Come to You" (Squire)
4.55 p.m.—A Talk arranged by the Counties Women's Association
4.55 p.m.—FROM FARMERS TEA ROOMS—
Miss Ellen Moran, Soprano:
"Ivanhoe" (Royalist)
4.55 p.m.—Studio music, third call.
4.55 p.m.—Studio music, third call.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION

6.45 p.m.—The Chimes of 2PC
6.50 p.m.—"The Hello Man" Talks to the Children
6.55 p.m.—A Social story for the older ones.
7.00 p.m.—Studio music
7.10 p.m.—"Big Ben." Late Sporting information by the 2PC Racing Commissioner
7.10 p.m.—Hullaby's Market Reports (Wool, Wheat and Stock)
7.15 p.m.—Fruit and Vegetable Markets
7.20 p.m.—Weather and Shipping Intelligence.
7.25 p.m.—Exchange
7.35 p.m.—Late "Evening News" news service.

NIIGHT SESSION

7.50 p.m.—Programme announcements.
7.55 p.m.—Musical items from the Studio
8.00 p.m.—"Big Ben." FROM THE CRYSTAL PALACE THEATRE, GEORGE STREET, SYDNEY. Items by the Orchestra, under the baton of Mr. HARRY STONE.
8.10 p.m.—FROM THE STUDIO—Miss Ellen Boyd, contralto:
"These Fingers" (Hullah)
8.15 p.m.—A Talk on the Gilbert and Sullivan songs by Miss Nina de Lathie
8.20 p.m.—FROM THE CRYSTAL PALACE THEATRE:
Orchestral items
8.40 p.m.—FROM THE STUDIO:
Mr. Ad Drey, Scotch Comedian
8.45 p.m.—Mr. Charles Alfred (Tener Horn):
"Sardalla" (Pitts)
8.45 p.m.—Act in the House" A Talk by Mr. Eric Lainger
8.50 p.m.—"Big Ben." Miss Ellen Boyd, contralto:
(a) "Polon Altkah" (Thomas)
(b) "Where Flames were Raging" (from "Il Trovatore") (Verdi)
8.55 p.m.—Mr. Charles Lawrence, Entertainer:
"If I don't know your husband" (Sears)
8.55 p.m.—Mr. Eugene Despard, Russian burlesque
9.15 p.m.—The Honolulu Trio (Steel Guitar, Spanish Guitar and Ukulele)
9.20 p.m.—Miss Ellen Boyd, contralto:
"Far Across the Desert Sands" (Fendlin)
9.25 p.m.—Mr. Ad Cree, Scotch Comedian
9.30 p.m.—Mr. Eugene Despard, Russian burlesque.

8.50 p.m.—Mr. Charles Lawrence, Entertainer:
"When the road's up" (Deller)
9.00 p.m.—Mr. Charles Alfred (Tener Horn):
"Intermezzo" ("Saxofonia Italiana") (Montini)
9.50 p.m.—Mr. Ad Cree, Scotch Comedian
9.55 p.m.—The Honolulu Trio (Steel Guitar, Spanish Guitar and Ukulele)
10.10 p.m.—"Big Ben." Mr. Eugene Despard (Hullaby Solo)
10.4 p.m.—Mr. Charles Lawrence, Entertainer:
"Fiction's Fact" (Grey)
10.52 p.m.—FROM THE CRYSTAL PALACE THEATRE, GEORGE STREET, SYDNEY:
Orchestral items
10.55 p.m.—FROM THE STUDIO:
The Honolulu Trio
10.55 p.m.—Late news and announcements
10.55 p.m.—FROM THE WESTWORTH CAFE CHURCH HILL, SYDNEY:
The Westworth Symphonic Dance Orchestra in popular numbers. Conductor, Mr. Frederick Schiller
10.55 p.m.—FROM THE STUDIO:
Cabrera's records
10.55 p.m.—The Westworth Symphonic Dance Orchestra with 11 pieces
11 p.m.—"Big Ben"
11.05 p.m.—"National Anthem"
Close down.

3LO MELBOURNE

Friday

MIDDAY SESSION

Announcer MAURICE DUDLEY
Accompanist AGNES PORTUNE
12 noon—Time Signal, British Official Wireless News from Radio's Radio's and the Australian Press Association, Cable, "Arco" and Herald News Services
12.10 p.m.—Late News, Radio's and "The Silent Wave"
12.30 p.m.—STUDIO ORCHESTRA:
"Carnegie" "Suite of Five Dances" (Monsieur Remy)
12.40 p.m.—Stock Exchange Information
12.50 p.m.—RUSSELL CALLOW, Tenor.
E. Lanchester, Baritone (Duo):
"Pale Moon" (Logan)
12.55 p.m.—STUDIO ORCHESTRA:
"The Merry Lark" (Hendel)
1.5 p.m.—JESSIE SMITH, Contralto:
"A Fat Lil' Feller"
"Princess Betty's Lullaby" (Stenham)
1.14 p.m.—Meteorological Information
1.20 p.m.—Studio Orchestra:
"Miss Hook of Holland" (Buland)
1.20 p.m.—RUSSELL CALLOW, Tenor,
"A Brittle Song" (MacFadyen)
"Only the River Running By" (Hopkins)
1.35 p.m.—WALTER SMITH, Cornet.
"The Herd" (Hendel)
1.45 p.m.—STUDIO ORCHESTRA:
Overture, "Mirella" (Gianni)
1.50 p.m.—JESSIE SMITH, Contralto:
"Angels Guard Thee"
"Songs My Mother Taught Me"
1.55 p.m.—STUDIO ORCHESTRA:
Overture, "Fingert's Eyes" (Hendel-Hall)
2.0 p.m.—Close Down.
Results of Pyramid Race will be given at close of the Meeting.

AFTERNOON SESSION

Announcer MAURICE DUDLEY
Accompanist AGNES PORTUNE
2.45 p.m.—Description of the Association at the Public Reception to the Duke and Duchess of York, transmitted from the Exhibition Building
2.50 p.m.—STUDIO ORCHESTRA:
"The Show" (Edlet Suite, Ansell)
3.40 p.m.—"A FAT" "Fashion Talk"
3.45 p.m.—STUDIO ORCHESTRA:
"La Traviata" Part I (Verdi)
4.15 p.m.—Results of Waags Races (Gold Cup Meeting)
4.15 p.m.—GRACE END KEATS:
Song, "Ye Banks and Brees"
Duet, "Silver" (Sells)
4.20 p.m.—STUDIO ORCHESTRA:
"La Traviata" Part II (Verdi).

4.30 p.m.—MRS. M. CALLAWAY MAHOOD, Actress in "Open Life."
 4.45 p.m.—"Telex" News Service, Stock Exchange & Information.
 5.0 p.m.—Results of Wanga Races; Gold Cup Meeting; Close Down.

EVENING SESSION

5.10 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.
 5.25 p.m.—WIN AND WINDLE will entertain the children for a few minutes.
 5.5 p.m.—"BILLY BUNNY" has a lovely story for the kiddies.
 6.15 p.m.—THELMA READY, Radio Selections.
 6.22 p.m.—"BILLY BUNNY," "Tales from the Forest."
 6.35 p.m.—"Arcus" and "Herald" News Service, Weather Synopsis, Shipping Movement.
 6.47 p.m.—Stock Exchange Information.
 6.52 p.m.—Fish Market Reports, by J. R. Barrett, Ltd.
 6.55 p.m.—River Reports.
 6.58 p.m.—Market Reports of Fruit, by the Victorian Fruiteers' Association, compiled by "The Fruit World," exclusive to 3LO.

NIGHT SESSION

Announcer ALFRED ANDREW
 Accompanist AGNES FORTUNE
 7.15 p.m.—Under the auspices of the Department of Agriculture, MR. J. T. RAMSAY, Potato Expert, "Selection of Seed Potatoes."
 7.30 p.m.—STUDIO ORCHESTRA,
 "Martial Moments" (Aubrey Winter).
 7.40 p.m.—ARTHUR DOUGLAS, Comedian,
 "She's the Lass for Me" (Lauder).
 7.47 p.m.—ELSA LEWIS, Violin,
 Novelty, "Whistling With Violin."
 7.54 p.m.—TONGVOX QUARTETTE,
 "Viking Song" (Coleridge-Taylor).
 "Sleeping" (Edward German).
 8.0 p.m.—DR. BROOKE NICHOLLS,
 "A Wonderful Isle."
 8.15 p.m.—COLLINGWOOD CITIZENS' BAND, Overture, "Diamond Cross."
 8.25 p.m.—JACK KEARNS, Comedian,
 "The Green Grass Grew All Round."
 "My Mother Said."
 8.32 p.m.—TANNA TIERNAN, Cello,
 "Adagio Cantabile from Septet" (Brahms).
 8.40 p.m.—COLLINGWOOD CITIZENS' BAND, Selection, "Songs of England."
 8.50 p.m.—GRACE AND KEATS,
 Duets, "My Moon."
 "Simple Wedding."
 8.57 p.m.—MR. H. K. LOVE,
 "Technical Talk."
 9.1 p.m.—STUDIO ORCHESTRA,
 "Selection of J. L. Malloy's Songs" (Haynes).
 9.17 p.m.—ELSIE DAVIES, Soprano,
 Aria, "Softly Awakes My Heart" (Saint Saens).
 9.24 p.m.—MAXWELL CAREW, in a humorous mood.
 9.30 p.m.—COLLINGWOOD CITIZENS' BAND,
 Duet, "A Night in Venice."
 March, "Carnival King."
 9.40 p.m.—RUSSELL GALLOW, Tenor,
 "The Great Awakening" (Kramer), Selected.
 9.47 p.m.—C. RICHARD CHUGG, Flute,
 "Faust Fantasy" (Gounod-de Jong).
 9.54 p.m.—TONGVOX QUARTETTE,
 "The Old Police Melody" (Sheridan).
 "In a Gondola" (Karl Linders).
 10.0 p.m.—"CARDIGAN"—Mr. H. A. Wolfe, Chortling Editor of the "Arcus" and "Australasian," will speak on Saturday's Races.
 10.10 p.m.—WIN AND WINDLE,
 "Impressions of the late Albert Chevalier."
 10.20 p.m.—STUDIO ORCHESTRA,
 "Suite—Indian Summer" (Lakel).
 10.30 p.m.—"Arcus" News Service; British Official Wireless News from Rugby; Meteorological Information.
 10.40 p.m.—ELSIE DAVIES, Soprano,
 "See" (Dessau).
 "The Minstrel Boy" (Moore).
 10.47 p.m.—Announcements; Road Notes, supplied by the Automobile Club of Victoria.
 11.0 p.m.—OUR GREAT THOUGHT
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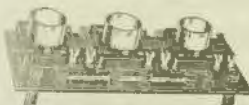


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11.1 p.m.—**JOE ARONSON AND HIS SYNCOPIATING SYMPHONISTS.**
"That Samson and Delilah Melody."
"How's Got in That Shuffle" (Sparks).
"How Colored Glasses" (Schiele).
"Are I Waiting my Time" (Bibi).
"The Village Blacksmith" (Mawer).
"That's Why I Love You" (Sanderson).
"Aloha Oe" (Arr. Berger).
"Hi Ho, the Merble" (Brown).
"The Yes, Ho, Ho, Ho-He-He" (Woods).
"Burgundy" (Malle).
"It's a Little Spanish Town" (Wayne).
"Fiddling" (Went).
"Society's new Night with Baby" (Myer).
"Rise, You Blackbird" (Dixon).
"I Wish I Had my Old Gal Back" (Vielin).
"Irene" (Brown).
11.40 p.m.—**GOD SAVE THE KING.**

4QG, BRISBANE

Friday

MIDDAY SESSION.

1.0 p.m.—Market Reports; Weather Information; "The Daily Mail" and "The Daily Standard" News.
1.20 p.m.—From Hotel Carlton Lunch Hour Music played by Hotel Carlton Symphonic Orchestra.
1.45 p.m.—From the Observatory: Standard Time Signal.
2.0 p.m.—Close Down.
3.30 p.m.—**ATLANTIC OCEANION.**
4.00 p.m.—From Hotel Carlton: Afternoon Tea Music, played at Hotel Carlton Symphonic Orchestra.
4.15 p.m.—From the Studio: News Service supplied by "The Telegraph."
4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—"Daily Standard" News; Weather Information; Announcements.
6.15 p.m.—Bottom Time; "The Sandman."
7.0 p.m.—Market Reports; Stock Reports.
7.30 p.m.—Weather News; Announcements.
7.45 p.m.—Standard Time Signal.

NIGHT SESSION.

W.E.A. MUSIC CLASS.

The Workers' Educational Association "National Classes in Music" are being held in the reception hall at 4QG this season and are being conducted by Mr. Geo. Sampson, F.R.C.O., Musical Examiner and Adviser, Department of Public Instruction; Lecturer in Music, Teachers' Training College. Each lecture will be followed by chamber music.

The object of holding the classes at 4QG is to broadcast both the lectures and the music, and so make available to a large audience the educational matter planned before the students. The classes will extend over a period and will be held each Friday night.

The military lecture session, which begins at 7.45 p.m., will be dispensed with, and the classes will begin at that hour. The tutor, Mr. Sampson, will lecture during the first portion of each evening, and chamber music will be played after each lecture.

7.45 p.m.—W.E.A. Music Class.
8.00 p.m.—Metropolitan Weather Forecast; week-end forecast information officially supplied by the Royal Astronomical Club of Queensland.

ST. GEORGE'S CONCERT.

The second portion of St. George's Church Concert, will be relayed from Beulah.
8.15 p.m.—**FROM DEENLEIGH:** Voice, "The Macquerries" (Sudds); 4QG Orchestra; vocal solo, "The Prince of Denmark" (Ruckell); Mrs. Leslie G. Murray; tenor solo, "I'll Sing The Songs of Araby" (Clay); Mr. E. E. Moran; saxophone solo, "Saxophone" (Widhach); Mr. E. Hansen (accompanied by 4QG Orchestra); recitation, selected, Mr. Harry Horradale; contralto solo, "In the Great Unknown" (Hartelot); Miss Dorothy

Brown; tenor solo, "Mattinata" (Tozzi); Mr. Geo. Williamson; duet, "April Morn'" (Baker); Mr. and Mrs. E. L. Moran; burlesque solo, selected, "Tom Colledge"; march, (consecration) (Allen); 4QG Orchestra.
10.0 p.m.—From the Studio: Football Notes; "The Daily Mail" News; Weather News; Close Down.

6WF, PERTH

Friday.

12.30 p.m.—Time in.
12.35 p.m.—First local news bulletin.
Market report.
Cables.
1.00 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
2.7 p.m.—Studio Quintette.
3.00 p.m.—Close down.
3.15 p.m.—Musical programme.
4.10 p.m.—Close down.
6.45 p.m.—Time in.
6.50 p.m.—Musical evening for the kiddies by Aunt Kate and Uncle Henry, Leslie, Perry, Duffy and Max.
7.10 p.m.—Stock and Share Intelligence; Market reports.
Cables News supplied by courtesy of "The West Australian" Newspaper Co.
7.45 p.m.—Talk, "Books of the Month," by Mr. J. F. Huthwaite.
8.00 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
8.2 p.m.—A Relay.
Lectures, No. 2, "The Sonata and Its Development," by Miss Florence Hoed, L.R.A.M.
No. 3, "Sonata from Spuria in D" (Beethoven), Miss Florence Hoed, L.R.A.M.
No. 2, "Sonata in D" (Beethoven), Miss J. Huthwaite, L.A.B.
9.0 p.m.—From the Studio.
Talk: "Handwriting Notes," by Mr. E. A. Higgins, representing Messrs. Dawson and Harrison.
Items by Misses Dixon and De Beaulieu, instrumental duo, of the sax katecombs.
10.00 p.m.—Second local news bulletin supplied by courtesy of "The Daily News" Newspaper Co.
10.30 p.m.—Close down.

Saturday, April 23

2FC, SYDNEY

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.
12.15 p.m.—Studio music.
12.16 p.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
12.20 p.m.—Studio music.
12.25 p.m.—Summary of "Sydney Morning Herald" news service and cables.
12.35 p.m.—Studio music.
12.40 p.m.—A gardening talk by Mr. G. J. Luskley ("Religion").
12.55 p.m.—Studio music.
1.00 p.m.—Big Ben; Weather Intelligence.
1.1 p.m.—"Evening News" midday news service. Daily wireless news. Stock Exchange.
Notes.—Hating events in the running will be described by the 2FC racing commentator direct from the Randwick course, interspersed with musical items from the Studio at intervals.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben."
- Continuation of descriptions of racing events in the paddock, direct from the Randwick Racecourse.
- During racing intervals, musical items will be given from the Studio and the Westworth Cafe Dance Orchestra, under the baton of Mr. Frederick Leighton, will be heard in popular numbers.
- 4.30 p.m.—A complete resume of the day's sporting events.
- 5 p.m.—"Big Ben."
- Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The chimes of 2PC.
- 6.00 p.m.—The "Hello Man" talks to the children.
- 6.30 p.m.—A serial story for the older ones.
- 6.40 p.m.—Dinner music.
- 7 p.m.—"Big Ben."
- "Evening News" late news service.
- Weather information.
- 7.20 p.m.—Studio music.
- 7.30 p.m.—A complete resume of today's racing events at Randwick.

NIGHT SESSION.

- 7.50 p.m.—"Commodie Française," a talk by Captain Fred Hayes.
- 8 p.m.—"Big Ben."
- Mr. Joseph Holm, tenor, "The Blind Blackman" (Clayton).
- 8.4 p.m.—Mr. Wally Baynes, comedian, in popular numbers.
- 8.8 p.m.—Miss Daisy Richards, violinist.
- 8.12 p.m.—A selection of old English melodies for the Dulcetto, in commemoration of St. George's Day, arranged and played by Madame Evelyn Grieg.
- 8.20 p.m.—Madame Vera Tanna, soprano, in English items:
 - (a) "Nymphs and Shepherds" (Parodi).
 - (b) "Should he upaid" (Blount).
- 8.28 p.m.—Madame Evelyn Grieg, pianoforte solo:
 - "Trump and Circumstances" (Egar).
 - (Introducing "Land of Hope and Glory")
- 8.32 p.m.—Mr. Joseph Holm, tenor:
 - (a) "I did not know" (Tratzer).
 - (b) "Morning" (Speake).
- 8.40 p.m.—Miss Louella Elliott, entertainer:
 - (a) "Woman costs less than a man" (Low).
 - (b) "My cigarette" (Elliott).
- 8.47 p.m.—Mr. Fred Harman, baritone.
- 8.55 p.m.—Mr. Wally Baynes, comedian, in popular numbers.
- 9.1 p.m.—Miss Daisy Richards, violinist.
- 9.10 p.m.—Mr. Montgomery Stuart and Miss Myra Leard in a comedy sketch.
- 9.21 p.m.—Continuation of St. George's Day programme arranged by Madame Evelyn Grieg.
 - Two English airs played on the Dulcetto.
 - (a) "Silver threads among the gold."
 - "Wally Boyne," Madame Evelyn Grieg.
- 9.28 p.m.—Madame Vera Tanna, soprano:
 - (a) "Lullaby" (Cyril Scott).
 - (b) "Nightingales of Lincoln's Inn" (Olliver).
 - (c) "Home, Sweet Home" (Blount).
- 9.36 p.m.—Madame Evelyn Grieg, pianoforte solo:
 - "Dance Nocturne" (Cyril Scott).
- 9.40 p.m.—Mr. Joseph Holm, tenor:
 - "Dear dreamy eyes" (Holiday).
- 9.44 p.m.—Miss Louella Elliott, entertainer:
 - (a) "Oh, Perez" (Blount).
 - (b) "Childhood's Dreams" (Elliott).
- 9.48 p.m.—Mr. Fred Harman, baritone.
- 9.56 p.m.—Mr. Wally Baynes, comedian, in popular numbers.
- 10 p.m.—Miss Daisy Richards, violinist.
- 10.15 p.m.—Mr. Montgomery Stuart in a comedy sketch, assisted by Miss Myra Leard.
- 10.25 p.m.—From the Westworth Cafe, Church Hill, Sydney. The new Westworth Symphony Dance Orchestra, under the baton of Mr. Frederick Leighton.

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- 10.25 p.m.—From the Studio.
Mr. Montgomery Stuart, recitations:
(a) "The Game of Life."
(b) "Before and After."
10.42 p.m.—From the Westworth Cafe. The Westworth Embroider Dance Orchestra in popular numbers.
10.42 p.m.—From the Studio—Celebrity records. Late news and announcements.
10.50 p.m.—From the Westworth. The Westworth Symphonic Dance Orchestra, conducted by Mr. Frederick Longtin.
11 p.m.—"Big Ben."
Musical outflow.
Close down.

3LO, MELBOURNE

Saturday.

- MORNING SESSION.
- Announcer: MAURICE DUDLEY
Accompanist: AUNEE FORTUNE
- 11 a.m.—STUDIO ORCHESTRA.
"Romantic Ballad" (Schubert).
11.10 a.m.—ARTHUR DOUGLAS, Canadian.
"I just went for the day."
11.15 a.m.—FRANKLIN FOSHAM, Clarinet.
"Old Strain" (Lingens).
"Adagio from Concerto" (Opus).
11.24 a.m.—STUDIO ORCHESTRA.
"The Orchestral Suite" (Bendis).
11.34 a.m.—HUXHAM'S SERENADES.
Quartet. "Close your eyes."
EDITH HUXHAM, DOLLY BURDETT,
RENN MILLAR AND H. HUXHAM
Contralto Solo.
"There's the Auld Melodist."
DOLLY BURDETT.
Studio Orchestra.
Andante from Violin Concerto" (Bach, recent).
Quartet. "Funiculi Funicula."
SERENADE QUARTET.
Nocturne Song. "Where I belong."
EDITH HUXHAM.
Besme Ginnason, Violin.
"Prairie Flower" (McMullan).
Poetico Solos from:
"Cavalleria Rusticana."
SARAH KATH MOTT.
12 p.m.—Time for Official Wireless news from Rugby, Reuters and the Australian Press Association Cables. "Arzo" and "Herald" news services.
12.20 p.m.—STUDIO ORCHESTRA.
"Columb Castle" Part I. (Lisa Lehman).
12.30 p.m.—SIL BECK, Canadian.
"Gold Lined Gourd du R."
12.35 p.m.—Description of the arrival of the Duke and Duchess of York at Flemington Race Course.
12.50 p.m.—Stock Exchange Information.
1 p.m.—Description of Empire Building, Flemington, by "Musket" of the Sporting Globe.
1.5 p.m.—Russell Callow, Tenor.
"La Donna Mobile" (Verdi).
"The Little Birds" (Hewson).
1.12 p.m.—Meteorological information.
1.17 p.m.—Studio Orchestra.
"Serenita" (Valse Espagnole) (Stejpal).
1.27 p.m.—Maxwell Cairns in Previous Moments.
1.37 p.m.—Description of Duke of York Stakes, Flemington Races, by "Musket" of the Sporting Globe.
1.40 p.m.—RUSSELL, CALLOW, Tenor.
"Selected."
1.47 p.m.—STUDIO ORCHESTRA.
Selection. "Macy" (Bischo).
2 p.m.—Close down.
Results of Warracknabeal, Dipper, Carnival will be given as they come to hand.
2.35 p.m.—Description of King's Cup, Flemington Races, by "Musket" of the Sporting Globe.
- AFTERNOON SESSION.
- JOE ARONSON AND HIS SYNCOSYMPHONISTS
- 2 p.m.—JOE ARONSON AND HIS SYNCOSYMPHONISTS.
"Sunday" (Miller).
"By the Sign of a Rose" (Fléda).
"Hello Little Girl of my Dreams" (Berkt).
"The Oriental Black Bottom" (Henderson).
"Hello Aloha" (Bass).

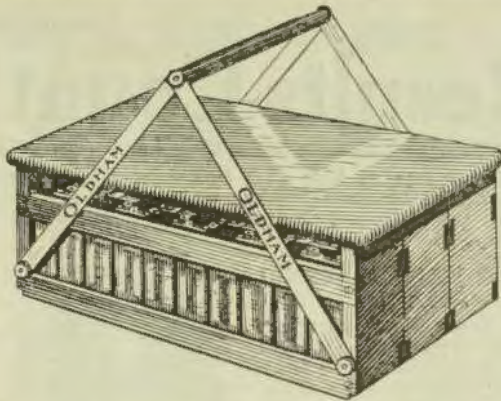
- 8.35 p.m.—Description of Renown Steeple, Flemington Races by "Musket" of the Sporting Globe.
- 8.50 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
"Taps all Home Front" (Leslie).
"Carnations" (Gunsley).
"Ruffe-puffe" (Piano Solo) (Bury).
"The more we are together" (Cunnebell).
"Mary Lou" (Lyman).
- 9.00 p.m.—Description of the the Eds' (Britt).
Flemington Races, by "Musket" of the Sporting Globe.
- 9.10 p.m.—Description of A.J.C. Plate, Randwick Race Course, Sydney, by arrangement with R.F.C. Club.
- 9.10 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
"Baby Face" (Davis).
"Somebody's Lately" (Davis).
"A Cup of Coffee, a Sandwich and You" (Neyer).
"Just the more Kiss" (Hewens).
"Just a Bird's Eye View" (Donaldson).
"Thinking of You" (Ash).
- 9.20 p.m.—Description of Canberra Welter, Flemington Races, by "Musket" of the Sporting Globe.
- 9.25 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
"Baby Face" (Davis).
"At Peace with the World" (Berlin).
"Hi Diddle Diddle" (Coch).
9.45 p.m.—"Herald" news service Stock Exchange information.
- 9.50 p.m.—Close down.

EVENING SESSION.

- 9.50 p.m.—Sporting results.
- 9.50 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.
- 9.55 p.m.—MAXWELL CAREW has something awfully funny to tell you!
- 9.57 p.m.—"LITTLE MISS KOOKABURRA" will tell you about—
"Daddy's nifty voyage."
"The Gongs' party."
- 9.58 p.m.—VENONICA COX will sing two of her songs—
"The Gongs' party."
- 9.59 p.m.—"LITTLE MISS KOOKABURRA" will tell the other children more about "Carol of Hollydune School" (Judith, the Gongs confesses).
- 9.59 p.m.—"Herald" and "Herald" news services. Weather information. Aerial Mail information by the Australian Aerial Services Ltd.
- 9.59 p.m.—Stock Exchange information. Overseas shipping.
- 9.59 p.m.—Fish market reports by J. R. Borrett Ltd.
- 9.59 p.m.—Market reports by the Victorian Producers Co-operative Co. Ltd. Newmarket sheep sales. Potatoe and Onions. Fruit market reports by the Victorian Wholesale Fruitgrowers Association, compiled by "The Fruit World," exclusive to 3LO.

NIGHT SESSION.

- Announcer ALFRED ANDREW.
- Accompanist AGNES FORTUNE.
- 7.15 p.m.—MR. H. HOWLETT ROSS.
"Battle of Zebraugers."
- 7.30 p.m.—MR. F. PESCOTT.
"Australian Autumn Orchids"
- 7.45 p.m.—DR. LEACH.
"Garnets or Booties."
- 8 p.m.—DR. BROOKE NICHOLLS.
"An Island Boy."
- 8.15 p.m.—BRUNSWICK CITY BAND.
"The Thistle and the Rose."
- 8.25 p.m.—HUXHAM'S SERENADERS.
Quartet, "Do a-binnies make good mothers?"
EDITH HUXHAM, DOLLY BURDETT.
KENN MILLAR AND H. HUXHAM.
Piano Solo, "The Lowland Sea" (Franciscomby).
KENN MILLAR.
Brunswick City Band.
March, "The Colonel's Parade" (Home).
Tenor Solo, "Old Mate" (Edwards).
HUGH HUXHAM.
Quartet, "Cairo."
THE SERENADER QUARTET.
Cornet Solo, "The Lost Chord."
HUGH NIVEN.
Operatic Quartet.
"Castellano" (Richards).
SERENADE QUARTET.
8.45 p.m.—FIFTEEN MINUTES from the STADIUM, Melbourne.



The only portable H.T. Accumulator

NOW comes the latest Oldham product—a really portable High-Tension Accumulator. Always to the fore in any important development in Accumulator design, Oldham once more leads the way. The advantages of an H.T. which is really portable need not be unduly stressed—they will commend themselves to you. No more troublesome, and perhaps painful, struggles with inconvenient, ugly carriers; the minimum of trouble in transferring your accumulator from place to place.

In addition, the strong, well-made case in which the stout glass cells are contained eliminates all risk of breakage or spills. An Oldham H.T. Accumulator is much cheaper in the long run than H.T. dry batteries. It will last for years, and will keep its charge for months. For a cost of two or three shillings it is again equal to new. Your set will work better and with a silent background, free from annoying cracklings.

Tapped at every two volts.

In six volt units, each cell can be tapped. For critical long distance reception this is essential. Grid bias also available from the same accumulator.



Compact and Portable.

Fitted with stout carrying handle. Each six volt unit supplied with published wooters lid to prevent accumulation of dust.

1/6 per volt

60 volts	£4 10 0
80 volts	£6 0 0
100 volts	£7 10 0
120 volts	£9 0 0

Sole Agents, NOYES BROS. (Sydney) LTD., 115 Clarence Street, And at Melbourne, Brisbane, Newcastle, Adelaide, Perth and Hobart

Special Activation Process

OLDHAM

ACCUMULATORS

Results Count!

Would you like to hear 3LO 4QG, 5CL, and 3AR, and many other inter-State stations as well as all local stations on the Loud Speaker? You would if you could afford it, you say!

WELL, YOU CAN AFFORD IT!!

The Resco Neurodyne is a five-valve receiver, which will give these results consistently every night. And it is simple to tune. Just set the three vernier dials to the figures corresponding to the log, and in will come the desired station.

LOOK AT THE PRICES!

Table Model (a) . . . £19/10/-

Floor Model (b) . . . £27/10/-
Polished Maple or Oak.

Floor Model (c) . . . £29/10/-
Polished Rosewood.

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

Easy Terms. Easy Terms.

A Small Deposit permits you to take one home.

The Resco Neurodyne is equipped with Clyde Accumulator, large capacity Winchester "B" Batteries for long life, Phillips' Valves, Headphones, Aerial Gear, etc. There is no experiment about the Resco Neurodyne. Our sales during the last three months have been enormous and complete satisfaction is expressed by all users.

AT LAST!

THE RESCO BATTERYLESS 3-VALVER.

No Batteries Required—simply plug into electric light mains and press the switch. Excellent loud speaker reception free from hum.

No Fuss. No Mess. Economical.

We are the Sole Agents for Australasia, and have big Shipments landing. Call and Hear it NOW!

Radio & Electrical Supply Co.

40 PITT STREET — (near Quay) — SYDNEY

Phone B1817



- 9 p.m.—BRUNSWICK CITY BAND.
Pavely "Maid of Orleans."
9:10 p.m.—LULA LEWIS Vocal.
"I'd like to see" (D. Graham).
9:15 p.m.—GRACE AND BEATS.
Duet, "You Ought to See"
Song "You and Me."
Melody.
9:25 p.m.—MOANA LUA DUO.
"Hawaiian Melody."
9:30 p.m.—RED BEAR, Comedian.
"The General Outlook."
9:35 p.m.—BRUNSWICK CITY BAND.
"Tribute" (S. J. Lane).
"The Joy-bunch."
March, "King's Guard."
9:40 p.m.—RUSSELL CALLOW, Tenor.
"A Birthday Song" (Madame).
"Only the River Running By" (Rokini).
9:50 p.m.—MOANA LUA DUO. Hawaiian Instrumentals.
10:3 p.m.—Argyll News Service; British Official Wireless News; Announcements.
10:15 p.m.—BRUNSWICK CITY BAND.
Intermission, "A Night in June."
March, "The Great Little Army."
10:25 p.m.—RUSSELL CALLOW, Tenor.
"The Golden Mantle" (Puccini).
Intermission.
10:30 p.m.—WIN AND WINDLE.
"Before and After the Racecourse."
10:40 p.m.—MOANA LUA DUO.
Selected.
10:45 p.m.—Meteorological Information; Sporting Results.
11:0 p.m.—OUR GREAT THOUGHT.
"Let us have faith that right makes might, and in that faith let us, to the end, have in us our duty as we understand it."
—Abraham Lincoln.
11:1 p.m.—JOE ARONSON and HIS SYMPHONIZING SCOPHONISTS.
"Baby Face" (Dustin).
"At Peace With the World" (Berlin).
"Hi Diddle-Dee" (Cooze).
"Noneshipan Nights" (Zemsenik).
"Freckles" (Whiting).
"Kathleen" (Coburn).
"Eyes, Fire, Fish" (Gay).
"Princess Betty's Lullaby" (Stromberg).
"Any Joe Tuesday, Lady" (Turk).
"Glimmer a Little Kiss Will Ya, Mub?" (Holland).
"Bessie" (Friedl).
"Indian Love Call" (Friedl).
"No Keville" (Owens).
"Blowing Off Steam" (Dustin).
11:40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Saturday

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

- 2:25 p.m.—Tune-In.
3:30 p.m.—A Matinee for 1916 Listeners by "Miss Waratah."
4:30 p.m.—Close Down.

EARLY EVENING SESSION.

- 6:50 p.m.—Children's Session: Bedtime Stories by "Uncle Tom" and "Uncle Jim."
7:15 p.m.—Sailing News; Football Results.
7:30 p.m.—Sailing Notes by "Tiller."

NIGHT SESSION.

- 7:45 p.m.—Gardening Talk "Some Choice Varieties of Roses" by "Tecomia."

GALEITY ORCHESTRA—NATIONAL STEERWAY.

- 8:0 p.m.—From Gaiety Theatre, Townsville: Orchestral Music.
8:10 p.m.—From the National Steerway: Major Gude Bases.
8:20 p.m.—From Lennon's Ballrooms: Dance Music.
10:0 p.m.—From the Studio: "The Sunday Mail" News Service; Weather News; Close Down.

All Readers' Queries Answered Here

H.W.W.J. (WEST MAITLAND).—Q: I have a "Tidias" (9) valve set, which gives excellent results during daylight of stations 2PC and 2BL in the evening sets in after sundown, these stations combine a muffled sound and are not clear, only at intervals are they any good, these results continue until closing time. My aerial is 80 feet long and 25 feet high. The above results only occur when these stations are on. Interstate stations 3LO, 4QG, 6CL, are always good. Can your expert give me any help through your paper?

A: I am very sorry indeed, but I am afraid I can't help you. See reply to E.A. (NEWCASTLE).

M.E. (LEICHHARDT).—Q: (1) Re the accumulator B battery, by placing the glass tubes in a suitable box with only cardboard separators between them, I would gain compactness, would I lose in efficiency? (2) The above illustration would shorten the flat top portion of the lead plates, would this have any ill-effects on the operation of the battery?

Q: (3) If I included in the box a separator of 4 tubes as a C battery and equipped it in series with the B unit for charging purposes, would this be any improvement over a dry C battery? By tapping I would then have at hand a 2, 4, 6 or 8 volt grid bias.

A: Your idea is quite good but immersing the cardboard first in paraffin wax. Don't worry with the C battery. Dry C batteries last for months and are cheap enough.

E.G.M. (ARMIDALE).—Q: Could a station, situated on dial readings between 4QG and 3LO be a Jap? I was unable to cut out the howl, the voice seemed peculiar. This was at 10.30 a.m. last week. There was also a very faint howl between 3AR and 2PC about 4.00 metres. Who would that be?

A: The station between 4QG and 3LO would probably be 30CK, Japan. Can't identify the other station.

K.B.F. (HAZELBROOK).—Q: On page 11 of "Wireless Weekly," 15-1/21, you published a two valve circuit. Will you kindly inform me the number of turns of wire on the coils.

A: This is the Neutralized Two Valve of "W.W." 10/11/26, with an aperiodic aerial coil of 25 to 35 turns for greater selectivity.

J.B. (THANGGOOL, Q.).—Q: Does the Sydney G.P.O. clock chime and strike at the hour?

A: The G.P.O. chimes and strikes at the hour and chimes at the half hour. The exact time is generally accepted as being the first stroke of the hour.

H.N.P. (ANNANDALE).—Q: I am using 2 V. Condensers, 1 a Quaker and the aerial condenser an Ormrod, each 5000, but find 10 dB only about one degree difference from 2BL with a very heavy background. I also hear 2PC in the background when on 4QG. Is there any way of separating the stations?

A: Try a 5001 fixed condenser in series with the aerial.

L.N.S. (GRANVILLE).—Q: (1) Which of the 2 valve reflex receivers recently described in "Wireless Weekly" would give me the best intermediate results, using my present components? (2) Would the Marconi reflex with another valve, but less the 2 L.M.F. fixed condensers give satisfactory results?

(3) Could the principle of the split secondary receiver be satisfactorily applied to a reflex set?

A: The Harkness Reflex or the Elstevitz Two-valve set will give you the best results. The Marconi Reflex is more for local stations. The split secondary principle is used in the Marconi.

M.C.A. (CARAHITA).—Q: I have built the "Two-Valve Reflex" of "W.W." 15/16/26. The stations logged on this set are 2PC, 2BL, 20H, 3KY, but no sign of interstate at all. My aerial is about 90 feet.

QUERIES

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

A: Providing you have built your receiver correctly and your components are good this resolves itself into a matter of tuning. Read over the Tuning Hints of "W.W." recent. Hundreds of congratulatory letters have been received on the distance getting qualities of this receiver.

R.G.V. (BOTANY).—Q: I have made up a Leclanche B battery as described some time ago and find it very successful, but have had to use the very thin sheet zinc, as I cannot find a place in Sydney that will cut a small piece of the heavier stuff. Can you tell me where I can buy more suitable zinc, as of course the very thin sheet material only lasts a few weeks and then has to be renewed.

A: Write to some photo engraving company, such as McEee Woods, Roma House, Sydney, for some heavier zinc.

J.R. (HALMANS).—Q: I have two 50's and one 75 coil but I cannot get interstate stations on my 3 valve. What coils must I use to receive them?

A: Use 35, 50, and 75, in that order. Read articles on tuning in recent issues.

T.G. (BLACKALL, Q.).—Q: I have built the Harkness Reflex two valve receiver as described in your issue of October 18, but find it very hard to tune out the carrier, so that unless I am very careful the music is a little distorted. As the night gets later this difficulty is not so marked.

A: This can be overcome by finding another spot on the crystal. Use the Haefle Detector.

C.R.L. (SOMERTON).—Q: I built the Neutrodyne published in "Wireless Weekly" of October 22nd, 1926, exactly as described, except that I used 3 Rheostats as shown in circuit in "Radio" in "Radio" of 21st January, 1927. I am well pleased with the results, but on rather dubious about one or two things. I am using 3 P.M. 5 valves in the radio and detector stages and 2 P.M. 5 valves in the audio, in combination with a 6 coil C.A.V. 50 amp. hour accumulator. I have 3 30 ohm rheostats, are these correct for these valves? The makers state 10 ohms. I have used a 50025 grid condenser, is this O.K. or should I use 50025 condensers for these valves? I am using a "C" battery of 4½ volts, should I use more volts than 4½ to get better results? I am using 2 A.W.A. transformers, ratio of 5 to 1 in first stage and 2½ to 1 in second stage and have an Amplion speaker model A.R. 35, but notice a hum when the audio rheostat is turned on, at all settings of the dial. Please tell me how to overcome this. I find that I have to give the full 90 volts to the Radio stage to get speaker strength. Should this be so?

A: The rheostats are O.K., so is the grid condenser and C battery, and also B battery. The hum you are experiencing is probably caused by an open circuit in the audio end. Test the transformer and the wiring.

M.R. (DONGARRIE).—Q: Thinking of making the Hamill Crystal receiver, described in "W.W." November 12th last. Would it take two pair phones, strong strength and a

small loud speaker? If not, would the 2000 coil one valve, described in "W.W." somewhere in December, take a loud speaker?

A: The Hamill Crystal Receiver will take two pairs of phones comfortably and will prove entirely selective, it is hardly possible to consistently work a loud speaker from any one valve set save perhaps the Marconi Reflex.

BEEDKE (HYDE).—Q: (1) Would a variable Linsen Leak be O.K. for the Browning Drake?

A: One 5-amp. valves such as the Onosee Print One or Mullard P.M. 1 using, of course, the required types of each, suitable for this circuit?

(2) Which of the above two makes of valves would give best results?

(3) I intend winding the Regenerators' Kit myself and would be glad if you would let me have particulars of the aerial inductance. I know that the secondary of this coil consists of 37 turns of No. 30 steel wire on a 3in. former, but I am not sure of the winding of the primary nor its position on the secondary. In your first publication of this circuit you state that the primary consists of 14 turns of 30 gauge wire on a spiderweb former placed inside the secondary coil immediately underneath the first turn of the secondary, or an alternative of winding the primary over the secondary winding. Are either of these methods applicable to the circuit published a few months back? If so, which is preferable?

A: (1) and (2) Yes.

A: (3) Both the same.

A: (4) The first method is correct. Try up to 30 turns.

J.F. (BROOKVALE).—Q: Would you please let me know if it is possible to add a range of radio frequency to the three valve set published by you in "Wireless Weekly" under date October 29th last?

A: Yes. See new issue of "Radio."

G.H. (ROSEVILLE, Q.).—Q: Having used a single slider crystal receiver for nearly two years which gives good volume on 2PC and fair volume on 2BL, but it not selective enough. I have decided, to build the Hamill Crystal Receiver, "W.W." 12/10/26, as the most suitable for my requirements of maximum volume without interference. I have thought that I might get more volume by building the selective Crystal receiver, "W.W." 8/9/26, but am doubtful whether it would be selective enough in this locality, and if any increase in volume would be worth the loss of selectivity. Can you advise me on this point?

A: Can you recommend a good crystal detector for the Hamill?

A: Build the Hamill. Try a Harlin, or a Lion Moore.

H.V. (RYDE).—Q: (a) Is this receiver (Marconi Reflex) selective enough to eliminate 2PC here at Ryde? (b) Is intermediate reception possible on phones, aerial and earth being really first class?

(c) Would condenser reading be the same for the different stations irrespective of voltage applied to valve?

A: This receiver should be selective enough, but it is not recommended for interstate reception. The condenser readings would be the same.

L.K. (POKATAROO).—Q: Is there any device in existence, which either by mechanical or electrical means is capable of changing the pitch of music, in the form of electric currents, to any considerable extent?

A: None that I know of. To alter the tone of reception in your receiver install a Macfarlane Tone Purifier.

A Radio Bargain

3 Valve Set in handsome cabinet, complete in every detail, including—

Loud Speaker
Exide Accumulator
84 Volt B Battery
40 Volt C Battery
Large Valves (the best)
Aerial Gear

A guarantee with every Set

Two Prices:

Price - £16 17 6 Price - £19 17 6
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The easy terms also apply to country customers.

Take one home to-night!

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QUERIES Continued

G.A. (LITHGOW)—Why is it when using 1 000V S.L.F. Val. Condenser, with Radco's Neutralizer, the 2nd Condenser to receive station at maximum strength is about 15 degrees out of the dial different from the 1st and 2nd? For instance, to receive 231, it is necessary for me to place the dials 10, 60, 70, and to receive 120, the dials read 60, 85, 100. I cannot receive 120 at all because the 2nd Condenser on 120 waythrough is out of tune.

A.—All I can do is to suspect the condenser of the neutralizer. Respectfully mix 1 ounce and 7/2 and help yourself. But transferring the third transformer in the middle of first section and make observations for yourself. Write I to Lithgow this is all I could do, and from observations and by process of elimination get down to the trouble. Sitting at my table here it is impossible to locate several possible faults, hence the fault-finding Articles which recently appeared in "W.W." Your second question is governed by the first.

F.H.T. (BREMBA HERBERTS)—The 28, 32 and 50 in that order to receive 2K1.

H.M. (GROSE VALLEY)—Build the two valve receiver described in "W.W." 2.3.27. P.S. (BRANFILL)—There is an open circuit somewhere causing the hum. Check wiring and transformers. Never use two 2 to 1 transformers; use one 2 to 1 and one 2 to 1, or two 2 to 1.

P.H.S. (ROZELLE)—Your queries will be covered by an article in "W.W." shortly.

M. (LOWER SOUTHGATE)—See article in "Radio" 7.1.27 on how to charge your accumulator from your car.

G.H.W. (DARVA)—10, 00, 10, 00, 0, 10, 0, 0.—Your own connections are therefore wrong.

SANDON (BULL)—You are asking the impossible. Only a Super Heterodyne has two detector valves, and as you don't want radio frequency and circuit loss to two stages of middle I can't do anything for you. Still don't you see you can load all intermediate stations on loud speaker with your present 3 valve set?

M.R. (MARRICVILLE)—See "W.W." January 7, 1927.

A.W.W. (BRISBANE)—Tuning in your difficulty. Read the Tuning Hint recently published in "W.W." Try a 5000 fixed condenser in series with your aerial or earth loop.

P.W. (SANDGATE, Q.)—See "W.W." 7.1.27.

A.J.L. (MT. MORGAN)—The transformers are suitable, but not the condensers. Stick to the specifications. Your reception was indeed splendid.

R.B. (COLLAROY)—Radio-tuning 2 inches in diameter, obtainable from any of our advertisements, would be suitable for growing on a lattice and would be an substantial tuning 2K1 and also 2G1. Cut down the coupling turns if interference is still. Your aerial is 40 feet long with 50 feet lead in. Follow out the hints exactly.

A.W.L. (NORTH SYDNEY)—No difference in the coils need be made with the valves you mention. I have used them.

J.H.Y. (EASWORTH)—Use silver valve and add a few turns to L2. Can't understand C battery trouble at all.

F.L.L. (YARRA)—Use your parts to construct a Browning Drisk Receiver. See "Radio" 2.3.27.

L.J. (LITHGOW)—I am afraid this is beyond me without having the receiver at hand. Bend over Fairbridge and Tuning Articles which appeared in recent issues.

J.R. (RUDFERN)—See that your lead runs down to properly connected. Test this circuit thoroughly.

L.W.W. (BRISBANE)—Reduce L4 to 22 turns. Perhaps 25 turns would help. Try for yourself. Install a 5000 fixed condenser in the aerial lead.

E.G.A. (ATLAND)—Who told otherwise with your present receiver? It is better than the one you request. Try 50 turns on the secondaries.

RUFUS (AURHARE)—We are sold out of the ones you ask, and I personally don't remember the circuit.

QUERIES—Continued

H.H.W. (CLYDE).—No.
 F.W. (WOOLWICH).—Look for a loose connection. Failing this, get a new valve. It seems defective.
 S.P.A. (SYDNEY).—Build the Hamil Crystal Set of 12/11/26.
 R.W.S. (MOSMAN).—I wouldn't swear to a comparison of a set I haven't built and one I have built. Both sets are good, but if you are getting good results then be satisfied.
 G.R. (THE SUMMIT, Q.).—A. Browning Diode would be worth while building. It is a much more modern receiver.
 D.F. (CAMPSIE).—Write to Mr. W. J. Stott, Sandhurst Street, Hull, for the issue of "W.W." that you require.
 A.S. (LEICHHARDT).—Your difficulty lies in knowing how to tune. Read over the articles on Tuning.
 H.K. (PADDINGTON).—Change your set into the Hamil Crystal Receiver.
 M.D. (KOGARAH).—I should say your detector valve is faulty now.
 W.E.H. (HARRIS PARK).—The rectifier is alright but only make 28 cells.
 B.B. (BRIGHTON LE SANDS).—Connect a 2 m.f.d. fixed condenser across the B battery from positive to negative.
 F.W. (CONDOLINI).—Fading is beyond explanation. No one can account for it. Everything else is right.
 F.M.N. (IPSWICH).—This will form the subject of an article in "W.W." shortly. The materials are not available in Australia yet.
 W.F. (CHARTERS TOWERS, Q.).—Write Radio Inspector, Sydney.
 S.N.S. (TOOWONG, Q.).—The condensers are O.K. Persevere.
 O.S. (GRIFFITH).—Build the 3-valve Harkness of "W.W." April 8th, 1927.
 H.G.F. (NEWTON, TAS.).—No. Thanks for kind remarks.
 D.G. (CROYDON PARK).—Build the 3-valve Harkness of "W.W." 8/4/27.
 R.G.F. (GUILDFORD).—Try for yourself. Thanks for remarks.
 A.H.B. (WILLOUGHBY).—Leave off the 661 and connect the 2 m.f.d. condensers across the B battery.
 J.J. (MANDAMAR).—You omitted the sketch. Daylight reception is not nearly so good as night time. Lower voltage of B.F. valve to control oscillations.
 H.H.M. (HOMEBUSH).—Sorry but I can't.
 A.P. (BUCCA).—No.
 W.L. (NORTHMEAD).—You are rather close to 2FC. Reduce the coupling busbar in size.
 F.G. (MEREWETHER).—Interview Mr. Weston, Economic Radio Stores, Newcastle.
 A.D.P. (NORTHBRIDGE).—The switching arrangement is O.K., but shielding is not practicable.
 C.H.G. (KYOGLÉ).—Install another Radio Lyrin. Don't worry with radio.
 R.R. (MUDGE).—Build the Harkness 2-valve of "W.W." 8/4/27.
 C.J.J.T. (LANE COVE).—Don't.
 F.H. (HURSTVILLE).—Use Advance Neutralising Condensers and all the same, make of valves throughout.
 K.E.S. (WAGGA).—Daylight reception is difficult with any receiver in the country.
 W.F. (TOOWOOMBA).—Use a DEB valve in last stage and increase C battery to 17 volts.
 P.S. (SOUTHERDEN).—Obtain a Bradleys class 25. Your other observations are correct. The valves mentioned are O.K.
 G.W.D. (BRISBANE).—This seems to be a matter of tuning. You haven't told me just how long your aerial is. Don't exceed 90 feet. Apply to Gordon and Gutch, Queen Street, Brisbane.
 G.G. (IPSWICH).—Look to your grid leak and watch your tuning carefully. Aerial length 50 feet overall.

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STAND
120.
R. A. Show

STANDARD EQUIPPED IN ALL THE MARCONI'S SYSTEMS THROUGHOUT THE WORLD.

Made by the oldest and largest Battery Makers in the World. The Chloride Electrical Storage Co. Ltd., England.

Exide "A" BATTERIES IN 2 VOLT UNITS.

Type	Capacity	Price each Cell fully charged.
		£ s. d.
C.Z.2	40 amp. Hours intermittent	1 1 0
C.Z.3	60 amp. Hours intermittent	1 5 0
C.Z.4	80 amp. Hours intermittent	1 9 6
C.Z.5	100 amp. Hours intermittent	1 14 0
C.Z.6	120 amp. Hours intermittent	1 19 0

Exide "A" BATTERIES IN 2 VOLT UNITS.

Suitable for Dull Emitter Valves.

Type	Capacity	Price each Cell fully charged.
		£ s. d.
D.T.G.	20 amp. Hours intermittent	0 8 6
D.F.G.	45 amp. Hours intermittent	0 16 0

Exide "B" BATTERIES.

Type	Capacity	Price for bat. fully charged.
		£ s. d.
W.J.	20 volts, 2,500 milliamp. Hours	1 10 0
W.H.	24 volts, 5,000 milliamp. Hours	2 15 0

All Batteries when discharged can be recharged.

If these cells are not fully discharged and left idle, they will stand six months without sulphating.

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JAPAN.

Although the use of wireless for official purposes is of long standing in Japan, the first public broadcasting station was not erected until March, 1925. Before this there were twenty-two transmitting stations sending official news mainly to ships at sea. Since the erection of the Tokyo broadcasting station there has been an enormous development in wireless throughout Japan, so that in less than two years the number of licensed listeners has grown to 250,000.

The stations at Osaka and Nagoya were completed in June and July of 1925 respectively. Further stations are now in course of construction at Kamamoto, Sendai, Sapporo and Hiroshima, and several smaller stations.

Wireless is under State control, and the license fee is high, being from 500-500 Yen (£30-40) for the possession of a set, as well as a subscription to private companies licensed by the Government to provide popular programmes. The license sum varies with the wavelength of the station received. Wavelengths range from 125-235 m. in Class 1, and from 235-290 m. in Class 2.

The remarkable desire for education among the Japanese public is responsible for the phenomenal growth of the listening habit and the industry in so short a time. Even the difficult climatic conditions which have to be combated have been unable to damp the ardour of the Japanese enthusiast. The official figures at the close of 1926 of licensed listeners served by the three existing stations were:—Tokyo, 125,000; Osaka, 55,000; Nagoya, 30,000.

By the end of this year the new stations, all of which will serve densely populated districts, will have greatly increased the total of one listener per 2,200 of the population. The unlicensed listener is probably very numerous, as would be expected with so high a license fee.

CRYSTAL SET RECEPTION.

Long distance reception by crystal set is becoming quite a common thing with the various Stations. Looking through 2PC's letter file, we find since their reduction in wave length to 442 metres, an increasing number of letters are daily reaching the Studio from interstate listeners. Letters from three Adelaide listeners have been received, and there are about fifty listeners in Victoria who keep regularly in touch with the Station.

2BL WILL BROADCAST daily from the Show Grounds interesting descriptions of the scenes. Listeners will be able to visualize events in the ring as well as happenings among the cattle pens. Judging results, too, will be given.

RADIOKES presents still another startling achievement!

Watch for the Wonderful SOLODYNE Receiver to appear shortly in this Journal—Build it and receive Japan and California in Daylight.



After considerable developmental work we are pleased to announce that we have perfected, and now have stocks of the Radiokes Solodyne Coil Kit.

The assembly consists of three screened R.F. Transformers, made to the standards adopted by the International Radio manufacturers.

One of the Radiokes Shielded R.F. Transformers are depicted above, and as can be noticed, are excellently designed, from a mechanical as well as an electrical viewpoint, and are beautifully finished in black crystalline lacquer. A product of which we are justly proud, and one that you will also be proud to let your friends see, as well as hear, performing in your new set.

Radiokes Solodyne Coil Kit is specified for this marvellous receiver, and was chosen on grounds of quality—so to guarantee duplicating results you must insist on nothing but the genuine "Radiokes."

25/- per unit, or 75/- per kit of three units, packed with explanatory diagrams, etc.

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2FC PERSONALITIES.

Several more radio artists have joined the big trek to London. The latest to go is Mlle. Marie Segur, the well-known French Soprano, who leaves next Monday for the "Big Smoke." "Imito" (Corporal Phillips) the remarkable bird and animal imitator, has felt the call from the other side, and he is off to try his luck in London. He leaves very shortly, and hopes to take some Kookaburras with him, so that he can work a novel act throughout England with the birds. He is certainly the most wonderful imitator of the Kookaburra ever heard in Australia. At 2FC recently he had a "Jackie" and a parrot, and his imitations were so much like the real thing the Kookaburra had to be taken away from the Studio so that "Imito" could be heard by the listeners. His items on the musical saw are remarkably good from a transmission point of view. By bending an ordinary saw, and drawing a resigned bow across the edge, music is produced of the quality of the human voice. Another of his items on the air comes from the mammoth mouth organ he uses, and organ like notes are obtained from this very unusual instrument.



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**The new prices come into effect on
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