

WIRELESS WEEKLY

Broadcast Programmes a Week in advance

VOLUME 9

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NUMBER 23

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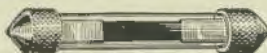
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WIRELESS WEEKLY

VOL. 10, No. 23.

FRIDAY, APRIL 1, 1927.

Sharing the Good Things

BY linking-up and sharing the broadcast description of the arrival of the Royal visitors at Sydney, 2FC and 3LO have set a precedent which should be followed on the occasion of every broadcast of national interest.

Such an arrangement permitted thousands of listeners in Victoria and Tasmania to hear a highly interesting description which might have been beyond their range. How many thousands more could have heard the transmission had it been shared in the same fashion by 4QG and 5CL?

There was no practical objection to such an arrangement, but every reader can understand the view taken by 2FC, which station bore the cost of the transmission, that it would be a little too much of a good thing. The stations might have agreed upon certain terms, but then the Interstate Broadcasters would have demanded a hand in the design of the apparatus, the time schedule, the choice of the announcers, and other details, which would probably have led to such confusion as to ruin the transmission.

Nevertheless, the sharing of broadcast programmes of national interest between the main broadcasting stations is a development which must come if wireless is to progress as a national service or entertainment. By co-operating, the main stations would make available to Australians occasional programmes unequalled elsewhere in the world; together they could pay large fees demanded by

world-famous artists for broadcast recitals.

The possibilities are unrestricted by technical problems, for the long land-line transmission has been carried out too often in Australia to cause our engineers any serious difficulty. Other objections raised on the score of transmission can be reduced to mere quibbles, for the simultaneous broadcast has been proved by the success of the British Broadcasting Company, and has lately been adopted by the National Broadcasting Company of America.

There does not exist a definite objection on the part of our broadcasters to such an arrangement in Australia; it is merely a lack of cohesion between the stations. Practically all important broadcasts take place in Sydney and Melbourne, and neither 2FC nor 3LO can see any advantage in increasing the licenses in the other States, by sharing their important programmes with the smaller stations, when they do not share the license fees. Their only advantage in simultaneous broadcasts would be in cases such as a Paderewski concert, when they could secure financial assistance from the other stations by sharing the programmes, but at the present time these smaller stations would find it hard to give any financial assistance whatever, the cost of the land line being their limit.

Maybe the Wireless Commission will find a solution of this problem, which, with the smaller parallel of the relay stations, is holding up Australian development.

We reproduce on our front cover this week a remarkable photograph taken during one of the most exciting broadcasts made by 3LO for some time. It shows Mr. Tulley describing the fire which destroyed Messrs. Stewart Dawson's building, on the corner of Swanston and Collins streets, Melbourne. As shown, the blaze was in full view of 3LO's studio window.



Between You And Me And The Microphone

Conducted by Jack Plugge



HAVE YOU NOTICED the presence of a new announcer at 3L07 During the holidays of Mr. Alfred Andrew his place at the microphone has been taken by Mr. Hugh Huxham, whose Serenaders are well known. Mr. Huxham's lengthy stage experience has given him faultless enunciation, and a personality which is felt even across the ether. His announcing work does not interfere with the serenading concerts.

THE TALL TOWERS which support 4QG's aerial system require a considerable amount of attention. The fact that the towers are built on the top of the State Insurance Building (eight floors from the street) considerably amplifies the necessity for frequent inspections. The recent heavy rains have brought out rust patches in many places, and these must be chipped and repainted. Almost daily now 4QG's chief engineer (Mr. F. W. Stevens) may be seen at work up aloft.

THE ENDEAVOUR to find a parallel between nervous and electrical activity has continued since the first discovery of galvanic electricity. In late years the idea that the brain might be a source of magnetic waves has been a theme for many investigations. Prof. Fernando Cazzamalli, of the University of Milan, Italy, has made public experimental tests with a wavemeter in a shielded room, leading him to the conclusion that the mental wavelength is between 1 and 100 metres. This will be read sceptically by most "amateurs."

AN ENTHUSIASTIC LETTER has been received by the New Zealand station 1YA from a listener in Wellington, who states that there was tremendous excitement on a recent occasion, when, seeking for Adelaide, 1YA came in at splendid strength and the unforgettable voice of "Uncle Jack" was heard. As the winter app- roaches it is certain that Auckland will be heard to greater advantage, but as "Uncle Jack" (Mr. J. M. Prentice) is constantly on the move there is no certainty that he will be the announcer to be heard.

MANY COUNTRY HOSPITALS are anxiously awaiting the time when they will have their own radio sets. Movements have been initiated by the local newspapers at Singleton, Deniliquin, Muswellbrook and Hay. A successful conclusion of the campaign for radio in the Singleton Hospital is already in sight.

A NEW Spanish station will probably shortly be on the air. The Union Radio Espanola has founded a high-powered station at Scville, which will probably start broadcasting very soon.

UNITED STATES budget estimates for the coming fiscal year, as presented to Congress, include items of £1,545,000 to be devoted to radio apparatus and work. Of this sum, about £1,000,000 is for the navy, and £445,110 for the army.

TOMORROW.

Thousands of requests have been received by the Stations of the National Broadcasting Company of America's Red network to broadcast the following poem by Charles Hanson Towne, which has for some reason made a particular appeal to listeners:-

*Around the corner I have a friend,
In this great city that has no end;
Yet days go by and weeks rush on,
And before I know it, a year is gone,
And I never see my old friend's face;
For life is a swift and terrible race.
He knows I like him just as well
As in the days when I rang his bell
And he rang mine. We were younger then,
And now we are busy, tired men—
Tired with playing a foolish game,
Tired of trying to make a name.
"Tomorrow, say, I will call on Jim,
Just to show that I'm thinking of him."
But tomorrow comes—and tomorrow goes,
And the distance between us grows and grows;
Around the corner, yet miles away,
"Here's a telegram, Sir." "Jim died today!"
And that's what we get—and deserve—in the end,
Around the corner, a vanished friend.*

ON THE FIRST DAY of this year 671 broadcast stations were in licensed operation in the United States, while 132 transmitting plants were under construction. About seven more broadcasters have been added to the list for every one who had withdrawn since licenses could be had for the asking. In addition to this, 134 had increased their power; so that there are now over a hundred stations of more than 500 watts power.

THE OLD-FASHIONED birthday book has faded from popularity, but 3L0 still maintains the old custom with what is probably the world's largest birthday book. Over 10,000 names of children and their birthdays are entered in a special ledger, and every day the Children's Hour entertainers broadcast their messages to the little members of the Birthday Club. The business of sending happy little messages to children requires the full-time services of two clerks, coping with the huge influx of mail and birthday messages. Thousands of letters are received weekly by "Billy Bunny," "Mary Gumleaf," "Mary Mary" and "Miss Kookaburra," and the other members of the Children's Hour Staff. This staff has also to look after the response to various appeals made to the children. For instance, the Jam appeal for the Founding Hospital, Berry Street, resulted in 1,100 pots of jam flowing into the Studio, and over £35 in cash. A large section of the floor space covered in jam was decidedly embarrassing for the Studio. For the Melbourne Hospital Birthday League over £450 was raised.



"There she is," Mr. Anderson sights the "Renown."

THE early-morning sunlight bathed the frowning cliffs of North and South Head in a silver radiance; cold grey turned to aspic and warm brown with a streak of bright green where the dew-laden grass met the cliff edge; leaden water caught the rays and hung back scintillating flashes of light. A blue sky broke overhead, but out to sea a light mist haze still lingered.

Except for a lone tram making South-East and a solitary sailing skiff the wide expanse of water lay unbroken as the s.s. Hunter breasted the easy swell last Saturday bearing the 2FC broadcasters. Every eye was strained Eastward. A microphone hung suspended over the rail of the bridge and sharing several pairs of binoculars, Mr. Anderson, Mr. Chapple, Mr. Van de Velde, and Uncle Russ Garling (Jerry was absent for once) gathered ready to begin the description for which some fifty thousand listeners were waiting to hear.

In their cheerful chatter there was a professional ease. It was hard to find a trace of nervousness, but beneath the outward expressions of indifference there was a hidden expectancy. Others untroubled with the need of maintaining a professional bearing showed excitement openly.

Joe Reed, the stalling operator, exchanged pleasantries with all within his call while busying himself in a maze of instruments. A cinematograph cameraman cheerfully mounted his camera on the roof of the bridge.

The captain, naked eyed, was the first to sight the "Renown."

"There she lies," he cried, and a vast bulk could be seen looming out of the mist. "The Renown" was perhaps seven miles distant, but sea vision is deceptive, for as the mist

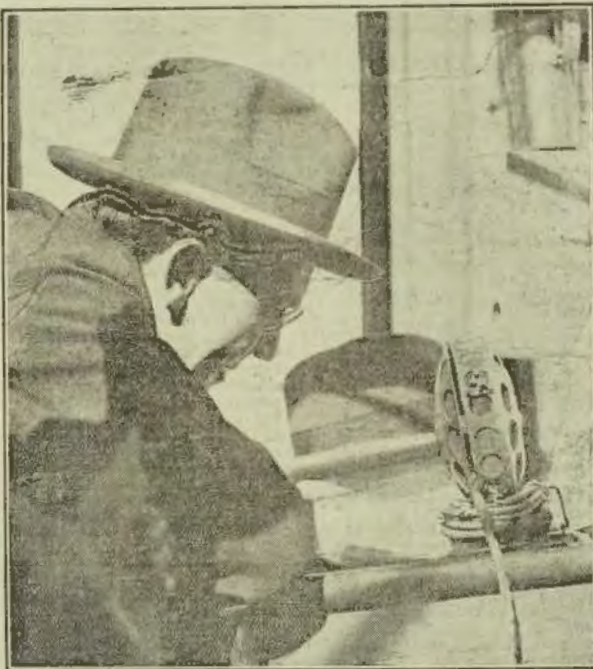
First to Welcome the Duke and Duchess.

How 2FC broadcast the description of the arrival of the Royal Visitors—an historical transmission which will be remembered by listeners for a long time to come.

rose she seemed not more than a few hundred yards distant. Mr. Anderson turned to the microphone and gave Australia the first news of the arrival of the Royal visitors in Australian waters.

As he spoke, there could be discerned three lithe grey vessels which

slid along before the "Renown"—her Australian envoy, the "Success," the "Anzac," and the "Swordsmann. Two seaplanes hovered overhead, and were even then joined by a group of large land planes which swept dangerously low over the massive battleship. Silently and swiftly she advanced,



From his point of vantage on the port side of the bridge of the S.S. "Hunter," Mr. Anderson had a clear uninterrupted view of the "Renown."

Philcos have Visible Charge Indicator



There was more in the air than wireless, spotting the 21 aeroplanes circling around the "Renown."



Mr. Van de Velde who, between photographing and broadcasting had a busy time.

and her approach was at once hastily described by Mr. Anderson.

A flying boat soared overhead, and Mr. Van de Velde took the microphone, followed by Uncle Russ, who asked to keep up a running fire of laughter as well as expectant interest, said he couldn't see anything funny in the situation except the weather report, which predicted showers of rain.

Unhappily the four grey vessels swung past the Hunter and a signalman wig-wagged the first greeting from the Australian public, more appreciated perhaps, because of its unofficial nature. Every listener-in-

knows now how the Duke and Duchess were seen side by side watching for their first glimpse of Australia and how the Duke had heliographed back to the Hunter a reciprocal greeting, the first given in Australia.

It was an historical broadcast unequalled even by the description of the arrival of the American fleet. The words of the describers, if hasty and halting, were none the less expressive, and if the silent majesty of the scene left them with a paucity of adjectives it conveyed to listening thousands with a sense that the scene was indescribable. Although hackneyed, the words, beautiful, wonderful and fine, express a definite meaning which long phrases cannot cover without confusion in a running description.

While the Hunter lay at the mouth of Sydney Harbor unable to enter until signalled to by the water police, the

broadcast was taken up by Mr. Halbert at Farmers' strong post on the corner of Market and Pitt Streets, and listeners obtained a minute mind picture of carnival let loose in the streets of Sydney. A scene of gaiety and brilliance was presented with an economy of words at once expressive and clear. Personally, Mr. Halbert told listeners at one juncture, he failed to see anything strong about the strong post, as one of the bandmen had fallen through it.

The transmission was taken up again by the Hunter as she lay off the corner in full view of landing stage and the "Renown" anchored off Kirribilli. The sky seemed thick with aeroplanes, circling, banking, climbing, their white bodies catching the sunlight at every turn. One large seaplane swept down and landed in the Harbor within a stone throw of the Hunter, greatly to the joy of Mr. Van de Velde, who registered the whole happening with one of his four or five cameras.

But there was more in the air than wireless and aeroplanes. An electric magic seemed to fly from onlooker to onlooker, culminating in a burst of shouting as the "Renown" fired her 21 guns in return salute as the Duke stepped aboard the Royal pinnace and skimmed along the laneway of five hundred be-decked craft. The spirit was caught by Mr. Anderson, and Mr. Van de Velde at the microphone, and even the fact that B.G.O. listeners were now tuned in failed to halt their sentences.

Continued on Page 13.



Joe Reed, the operator, technically responsible for the transmission.

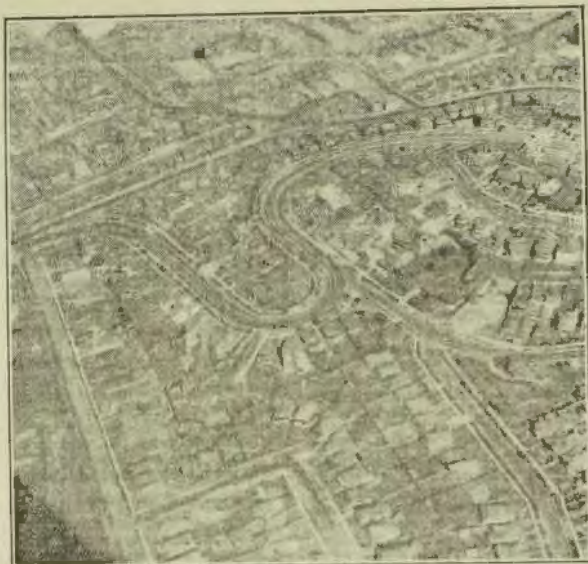
IT'S ALL IN THE AIR

Coming Features in the Broadcasting Programs

MR. ALLEN'S POLICY SPEECH: Rather a new departure in the way of political broadcasting will be made by 3LO on Wednesday, April 6, when the Premier of Victoria, Mr. Allen, will deliver his policy speech from the Studio. This is not quite the first time a political speech has been delivered in such a "safe" atmosphere, as Sir Arthur Robinson spoke some time ago from the same place on the Referenda questions, but it has much to commend it, as there must be a fair sprinkling of open-minded listeners who would prefer to give the leader of a party a hearing undisturbed by heckling and humorous interludes and the inevitable elbowing of a crowded house.

"TROTTS" ON THE AIR: Special arrangements have been made by 2BL with the N.S.W. Trotting Association for the description from Epping of the races at every meeting. Listeners through an expert from Broadcasters will be able to follow each race, and will know the result as soon as the numbers are posted.

A NEW AUSTRALIAN NATIONAL ANTHEM: Much as Australians are attached to the British National Anthem, there is a feeling that the Commonwealth still requires a typical and distinctive anthem. There are many claimants to the title, but none has caught the popular fancy. The well-known Australian journalist, C. J. Dennis, whose books have been recognised as the most distinctively Australian literature of the day, has written the words of a new anthem, "Oh! Favored Isle," the music for which has been composed by Mr. W. G. James. The anthem was broadcast by 3LO on Sunday, March 27, in a special programme arranged by the Rev. J. H. Cain. 3LO is now waiting to see whether the anthem has "caught on."



WHERE IS IT? To any reader of "Wireless Weekly" guessing correctly what part of Sydney is the subject of this aerial photograph Mr. E. J. Van de Velde, the photographer, will give a large photograph of the city as seen in an aeroplane 1000 feet above Circular Quay. The competitor should name one of the streets seen in the photograph, and address his solution to "Where is it?" etc Editor, "Wireless Weekly," whose decision will be final.

Mr. Van de Velde delivers another talk on "Touring in an Aeroplane," from 2FC on April 4. He will tell readers how he obtained the material for his talk, in an article in "Wireless Weekly" next week.

MR. WALTER HUNT, examiner in elocution at the Conservatorium, will broadcast from 2GB every Friday evening at 9 o'clock. He will speak on the Musical Element in Speech.

DURING APRIL relays from points distant from 4QG will include the broadcasting of a description of the arrival of the Duke and Duchess of York, the Vice Regal Ball, and other functions in connection with the Duke's visit and the Gympie Elstedd-fod.

STRELLA WILSON AND JAMES HAY TO BROADCAST: By the courtesy of J. C. Williamson 2FC listeners will have an opportunity on Sunday, April 3, of hearing the two principal singers of the Gilbert and Sullivan Opera Company, Strella Wilson and James Hay, in solos and duets, and half an hour's delightful music is eagerly anticipated.

BELLS are always a fitting prelude to any church service, and N.S.W. listeners will shortly be able to bring them in from the famous old "St. James' Cathedral," West Melbourne, Vic., which in the past (before the New St. Paul's) was attended by all State and Federal Governors. The bells are put on the air by 3AR every Sunday morning at 10.30 and in the evening at 6.45.

THE AUSTRALIAN LIGHT HORSE BAND will visit Sydney on April 2 and 3 to carry out a broadcasting engagement with 2FC. On Saturday night, April 2, they will play from the Showground, in connection with the Boy Scouts' Corroboree which has been specially prepared for the deletion of the Duke of York, and on Sunday evening, April 3, they will give a programme from the Studio at 2FC.

"SWEET NELL OF OLD DRURY": The return of Nellie Stewart in this historic part will be welcomed by theatre-goers, old and young. A talk on "Sweet Nell" has been arranged by 2FC prior to the production of the play in Sydney. On Wednesday afternoon, April 6, and again on Saturday evening, April 9, Miss Mabel Webb, who has been closely associated with Nellie Stewart as her private secretary for many years, will tell listeners to 2FC some interesting reminiscences.

Mr. GINK: In one of Sydney's Sunday comic supplements there is a well-known identity in the shape of "Mr. Gink," a much-harassed and henpecked gentleman, whose escapades are entertainingly dealt with by the well-known cartoonist, Harry Julius. Mr. Julius has been so struck with the possibilities of "Jerry," the ventriloquist doll who works with Rex Garling at 2FC, that he is introducing this cheeky personality into the home life of the "Gink" family. Much flattered with the compliment, "Uncle Rex" is going to introduce on the air, through 2FC, some Mr. and Mrs. Gink stories. It is a well-known fact that ventriloquists cannot work without their dolls. They become part and parcel of the act, and it seems quite impossible to carry out their usual routine before the microphone without having the personality of the doll to help him through. So Mr. Garling is having made "Mr. and Mrs. Gink" in miniature, and with a little doll on each knee he will commence the new series on Monday night, 4th April, and will talk us—as far as we know—of the domestic priviances of the famous couple. There are not the first trials to be "aired."

MISS MARY CLAXTON: Just as the theatre has its established favorites and old friends, broadcasting audiences are pleased to welcome back their favorites. Miss Mary Claxton, a soprano who was most successful during her recitals from 3LO last September, has been re-engaged and will be in this week's programmes. In her forthcoming concerts Miss Claxton will feature songs of the Bushland.

"ART IN THE HOME": Ever since the inauguration of the series of talks at 3LO on "Art" in connection with Home Life, keen interest has followed the instruction and hints broadcast weekly by Mrs. Cullaway Mahood. She has a fresh series of lectures in preparation dealing with the "Use and application of color" in which she has cleverly combined Art and Utility, so that her instructions may be followed by the voracious amateur.

LADY DE CHAIR TO BROADCAST: On Thursday evening, April 7, Lady de Chair will give a short address from Government House dealing with the activities of the Red Cross Society. On the same evening a programme will be broadcast from on board the "Renown"—items to be supplied by 2FC artists.

CAPTAIN FRANK HURLEY IS BACK AGAIN: To appear exclusively at 2FC in a series of five special adventure talks. Arrangements have been made with the management to place these talks early in the evening, and as they will be limited to a duration of forty-five minutes, the Captain will be able to condense his subject, and hold the complete interest of his listeners right through. The series is as follows:—

(1) "An Odyssey of the Polar Sea."
(2) "The Cross and the Savage."
Captain Hurley has visited practically every Mission station in Papua, and Dutch New Guinea. He will speak on the work done by the various Missions, and give a glimpse of Mission life in the more remote and lonely outposts.

(3) "A-Whaling We Will Go," a descriptive talk about whales generally, and Captain Hurley's amusing and exciting experience when he harpooned his first whale.

(4) "Windjammers and Sea Chanties."

(5) "An Evening with Captain Hurley at Home." The fifth and last of the series is the outcome of an original idea conceived in the Studio. On Tuesday evening, April 26, the whole of the 2FC transmission will be taken from Captain Hurley's residence, situated in a commanding position at Potts Point, overlooking the Harbor. His home is replete with wonderful memoirs, and is full to the roof with priceless mementos and curious collected during his adventurous life. The programme will open at 8 p.m. with the Captain receiving his guests, who, of course, in reality are well-known 2FC artists. Although the entertainment will seem an impromptu one to listeners, the whole story will have to be carefully written out and rehearsed beforehand. Here is an ideal setting for a description by Captain Hurley of how he came to possess some of the most valuable curios. He simply tells his story in a natural manner to his guests, as they wander all through the house. Then, of course, musical items are called for, supper is served, general conversation ensues, and the 2FC Dance Band, playing on the wide verandah, just gives the added touch so that the guests may "trin the light fantastic." This is a bold idea, but in the safe hands of Captain Hurley and the 2FC management, it should make a most enjoyable and interesting evening.

"BILLY BUNNY": "Billy Bunney," who most surely have more young friends than anyone else in Australia, continues to receive interesting descriptions of the English trip, posted regularly to him by "Mrs. Bunney," and he, in his turn, reads them out to his young listeners, after the birthday greetings have been "despatched." Among his mail may frequently be found Birthday announcements from the Royal Victorian Institute for the Blind, and the Children's Orphanage, Middle Brighton, and, if anything, they perhaps get a little more attention than the rest of the young folks, who, judging from their letters, seem to have everything they wish for.

THE ASSOCIATION of two such eminent composers as Wagner—master of the technique of the orchestra and opera—and Liszt—grant of the piano—naturally leads one to expect a production of unusual interest in 4QG's programme of April 4. The Liszt adaptation to the piano of the Tannhauser overture by Wagner will be broadcast by Mr. Erich John.

THE APRIL forecast of attractions for 4QG contains the following items:

April 1: Commencement of the Workers' Educational Association Tutorial classes in music. These will be held at 4QG by Mr. George Sampson, F.R.C.O., and will be illustrated by stringed trios and quartettes composed of Brisbane's leading instrumentalists.

April 4: Pianoforte recital by Mr. Erich John.

April 5: A programme in three parts. Part 1, A recital by Mr. A. Sharmar; Part 2, Choral numbers by the Brisbane Apollo Club; Part 3, A short studio concert.

April 6: Arrival of the Duke and Duchess of York described.

April 7: Vice-Regal Ball.

April 8: Grand State Reception to the Duke and Duchess.

April 11: Mayoral Reception to the Duke and Duchess.

April 12: Slamer's "Crucifixion" relayed from St. Andrew's Church of England.

April 13: Special Easter Choral Recital from the City Tabernacle.

April 15: Good Friday services.

April 18: Elsteddedd relayed from Gympie.

April 19: Full concert by a party under the leadership of Mr. Erich John.

April 22: The second W.E.A. Tutorial music class.

April 25: The Citizens' Commemorative Anzac Night Meeting relayed from the Exhibition Hall.

April 27: Full Choral Recital.

April 29: The Third W.E.A. Tutorial music class.



Some Melbourne News and Notes

I WAS taken a day or two ago to inspect the big building that is to be 3LO's new headquarters. Its palatial aspect was inspiring. When the first studio was put into commission, 3LO was feeling its way. Its progress to scarcely more than two years ago may be measured by its new quarters. There are two broadcasting chambers, the smaller of which would rank as the largest in Australia. The bigger room is like a ballroom, and will be occasionally used as such.

The building stands up a lane, well screened off from all traffic noise, in a backwater of Melbourne's stream. It contains rest room, rehearsal room, practice rooms, as well as fine staff offices. There is nothing extravagant about the appointments, but comfort has been the first consideration, rather than ostentation.

BEAM WIRELESS.

The other day I went to Ballan to inspect the new plant that is to operate Beam Wireless. The chief engineer, Mr. A. S. McDonald, was very patient in explaining the wonders housed there, but my non-technical brain could not take in a tithe of what he told me.

I was chiefly interested in the towers and their wondrous network of rigging, designed to hold the whole absolutely rigid in all weathers. I marvelled anew at man's ingenuity, when I saw the devices for reflecting back the escaping energy and directing it in one continuous beam that reached round the world.

Special quarters have been designed and built for the staff. Eight pretty houses, complete with every comfort, stand on the outside of a circle of gardens, specially kept up by a professional. In addition a large bachelor block, with clubroom and communal hall, is built in Moorish design at the entrance to the compound. The contrast of this beautiful block of modern brick buildings with the

The New Studio at 3LO—Beam Wireless—Preparations for Duke's arrival. Above is pictured the Huxham Serenaders, well known 3LO performers. Mr. Hugh Huxham (left) has been acting as announcer at that station during the absence of Mr. Andrew on vacation.

By H. ELLO

flat, lovely Ballan table-land, on which the station is erected is striking.

The whole conception now translated into reality, marks another milestone on the swift road of wireless progress.

BROADCASTING THE ROYAL TOUR.

The resources of 3LO will be severely tried, not only the mechanical, but the human element, when the Duke arrives. 3LO will have the same problems to face. People in the backblocks will learn now, if they have not realised before, that a wireless set is almost a necessity. The ideal to be aimed at by these broadcasting companies is that every describable movement of the Duke and Duchess in public should be broadcast to the thousands of folk whose only chance of participation is through the enterprise of broadcasters.

The art of description is comparatively rare. Something more than a good voice is necessary. A ready command of language, a quick, observing eye, a knowledge of the personnel of public gatherings—all these are indispensable.

The technical difficulty of getting a microphone into such a position that an observer may see without being jostled by the crowd, or "jammed"

by the vociferous clamor of the streets is a great one. Official "regret that it will be impossible" is another force to be reckoned with. It will be seen that the broadcasting companies have to learn not to take "no" for an answer, to be daunted by no difficulties, however insurmountable they appear, to be "go-getters" in the strictest sense of the phrase.

The description of the formalities at Canberra will be easier. These are the concern of the Federal postal authorities, and will be arranged by them.

I learn that 3LO has been consulted about these, however, and their great experience used. From the time the first people begin to arrive for the great, historic ceremony, a broadcast running commentary and description will be given, continuing, with intervals for the official proceedings, down to the close of the great occasion.

By special arrangements, this description will be relayed all over Australia. It is not yet known whether it will be possible to transmit them to England through the medium of the beam. If that can be done, it will make wireless, no less than Australian history.

MOANA LUA DUO: Repetition does not appear to dim the popularity of either the Ukelele or Steel Guitar, and it is safe to say that among the most popular items broadcast from 3LO are the Steel Guitar Solos and Duets rendered by the well-known Moana Lua Duo, who were among the very early artists to "sign on" with the good ship 3LO. Judging from the batch of correspondence that arrives from New Zealand, the Steel Guitar possesses special broadcasting qualities, for our New Zealand listeners are continually stressing the fact that the transmission of the Hawaiian melodies played by this clever Duo, comes through very clearly.

The Safety Valve

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



GENERALLY PLEASED.

Dear Sir,—I have just ridden 20 miles to get my copy of "Wireless Weekly," and consider it well worth the trip. There seems to be dissatisfaction here—in, but I at least am able to say I am quite satisfied. By air line, I am 400 miles from Sydney, 200 from Brisbane, and about 450 or 700 from Melbourne. On my two-valve two-coil set, using dry cell valves, I can get all these stations clearly and loudly on the phone. I have had no difficulty in cutting one station out from another. My set is built on the Low Loss principle, and only the best parts were used. Is it likely that these fault-finders are blaming the broadcasting stations for something unless in their set or themselves? I am not really satisfied, as I am an experimenter, and am always trying to improve reception, but I do know when I am receiving well enough to enjoy a programme.

Another point that has struck me is that those who condemn the programmes are a little bit selfish. Before "listening-in" I consult the programmes of all the four stations—4QG, 2BH, 2FC, and 3LO—mark off the items I wish to listen to, make up my own programme from this, and enjoy my listening-in. Everyone cannot enjoy the same music, and I think we should exercise a bit of the give and take principle. Personally, I like Jazz music, plays and speedways, on the broadcast, and can always find one station that is suited to my taste.

Yours, etc.,
R.E.A.

Gangara, via Dorrigo.

HEARS 2FC 500 MILES ON CRYSTAL.

Dear Sir,—I have a crystal set and I often pick up 2FC after 3LO closes down. The music from the Wentworth Cafe is very good and I regret that I can only get 1 hour of it. I have an Ormond condenser, 00050 taped coil, and I thought it may interest you to know in view of the many complaints about that station that they can be logged with a crystal set here.

Yours, etc.,
P. ALFORD.

Ripponlea, Vic.

LIKED MIKADO ON RADIO.

Dear Sir,—To-night's performance of the "Mikado" came through very well, although at times lousy, but not enough to be unpleasant. I sat with the score of the "Mikado" and followed the opera from the beginning of the overture to the last note of the first act, and forgot I was listening to wireless. Having seen the "Mikado," I could just imagine I saw the actors and actresses, and it was indeed a treat to sit all at home to hear the performance. Congratulations on such an eventful season.

Yours, etc.,
W. JORDAN.

Inawich, Qld.

YES—RECORDS.

Dear Sir,—I cannot agree with No Records ("Wireless Weekly" 11/3/27) who wonders why he should pay 27/6 license fee and listen to gramophone records, as he could buy a gramophone and records if he wanted to. How many of these would he purchase for 27/7? I think we could do with more Celebrity records. I am the possessor of a gramophone, and over a hundred Celebrity records, but there are many more I have not heard and would very much enjoy hearing. The beauty of these records is that repetition makes them sweeter, apart from the fact that they are an education. How else can some of us hear the really good music not only of today, but of centuries of the past? Personally, I would prefer more good records, less sopranos, and less comic artists, as the latter mostly fall flat.

Yours, etc.,
R. C. BALE.

Wallacia, *

TALKED DOWN.

Dear Sir,—Talk—talk—talk. If we must have radio lectures, let them be at least by chosen speakers who can articulate clearly and correctly—a virtue not universal with broadcast speakers. Some talks are made enjoyable by the speaker, and we may miss much good to mind, body, or soul, by having to switch off unintelligible talk. Much could be said in this connection concerning our spiri-

tual fathers who are wont to address us on Sunday evenings. Sufficient is this. There is a want of short, clear, simple, concise addresses as can be had without the charitable drivel; there are some of our intoning clergy who can no more get away from that dreadful drivel than our girls can get away from the Charleston.

Yours, etc.,
B. J. AXTEN.

Mount Lefty, S.A.

PLAIN "B" INEXPRESSIVE.

Dear Sir,—I have for some time studied the programme of 2FC by the aid of the old schoolboy method of pencilling against each item heard the letters V, G, F, B, these indicating the varied degrees of satisfaction derived. Latterly I have added a more recent three-letter abbreviation, as the plain "B" hardly meets some exceptional cases. This, I find, gives me a clear and general view of my own ideas of the fare that is meted out, and also affords some degree of pleasure.

Those possessed of multi-valve sets are fortunately able to vary their programmes at will by switch on over to another station.

There are, however, the thousands of listeners with crystal sets who are bound to their local station, and these deserve consideration. They comprise every class of the community—the hard-working toilers of the land, many situated in the remote countryside; the factory workers in their prim homes in congested centres; the workers in shops and behind counters; clerks, office workers; and last, but not least, the business man. What do all these multitudes want? They want to get away from work, worry, care, and everything else that dampens their spirits and fogs their brain, and lose thought of business worries and cares in light pleasure; be that the theatre, the music hall, the pictures or wireless. The latter could be the most popular seeing it is at their own fireside.

Yours, etc.,
J.C.

Powell.



Another Comic Opera from 2FC

TO the string of comic operas lately broadcast by 2FC will be added "Gipsy Love," produced by the Roseville Musical Society on Tuesday, April 5, when the first act will be broadcast. The second and third acts will be heard on April 7.

"Gipsy Love" is considered to be among the best of the later operas of Franz Lehár, the composer of the music in the "Merry Widow." The words are by Adrian Ross.

Those listeners who have not seen the opera will be able to follow the movements of the actors and thus preserve the continuity of the performance from the following details.

In Act 1 the curtain rises on the garden of Dragotin's Castle in Roumania, where guests are assembling for the betrothal ceremony of Ilona, his beautiful daughter. Jonel, the envied bridegroom-to-be, is in Dragotin's opinion everything that a son-in-law should be—wealthy and "respectable." But to Ilona, who is restless and adventurous, Jonel's "respectability" does not appeal; she likes a man to have a little bit of the devil in him.

Jozsi, the impudent Gipsy Musician, realising Ilona's mood, casts a spell on her with his fiddle and his flattery. She decided against Jonel and safety in favor of Jozsi and adventure and runs away with her Gipsy Lover.

In the second act, we find the runaway pair arriving at Andor's Inn

Read this short article before tuning-in to "Gipsy Love" from 2FC on April 5 and 7.

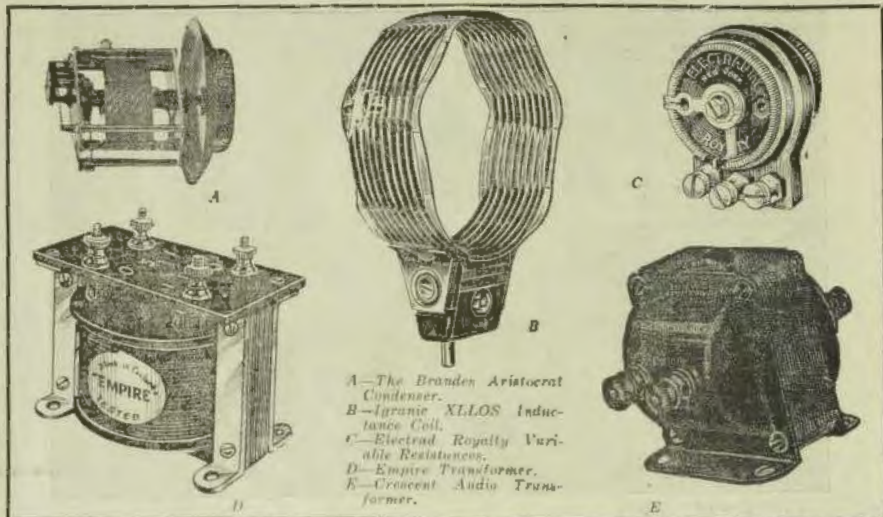
where Jozsi's Gipsy Band are making merry. Ilona, tired and dusty after walking for 20 miles, is beginning to lose her illusions about a life of adventure. She is frightened by the coarse familiarity of the men and hurt by Jozsi's attentions to the girls. Still fancying that she loves the fiddler she tries to persuade him to marry her, but Jozsi has no intention of getting himself married and will only agree to a Gipsy Wedding, which as he confidentially tells Andor, "Will not hurt him." Ilona will not have a Gipsy Wedding and finally Jozsi and Andor between them decide her into believing she will have a real wedding in the Church. At this stage of the proceedings, Dragotin turns up accompanied by Lady Babby, an attractive English widow, for whom he has a sentimental failing. He is so interested in the fact that he is "alone" with Lady Babby "at last" that he forgets that he has come in search of his runaway daughter. Lady Babby takes the rescuing of Ilona into her own hands and decided the best thing is not to try and get Ilona away from Jozsi, but to get Jozsi away from Ilona,

and she promptly proceeds to make love to the fiddle fiddler.

In the third act Jozsi deserts Ilona to follow Lady Babby back to Dragotin's house. Ilona decides that after all Jonel is the better proposition, and Jonel, being a forgiving old soul, everything ends as it should.

MISS GRACE JACKSON: Miss Grace Jackson, the popular contralto, who is broadcasting from Studio 3LO, comes before the microphone with an enviable reputation as a concert artist—being well known in Melbourne musical circles. Her rich voice seems admirably adapted for radio work, and in transmission, loses nothing of the sympathetic quality, which, together with perfect diction, make this artist's contributions to the programme reach a high-water mark of excellence.

MR. ARTHUR DOUGLAS: Returning after a very successful concert tour throughout Australia, an old friend in the shape of Arthur Douglas, the well-known Scottish comedian, will again broadcast from the studio for a short season. As a lad of 14, he practised secretly in a top back room with a quilt over his head to stifle the sounds, and incidentally carried off the prize in a Glasgow competition for vaudeville artists.



A—The Brandes Aristocrat Condenser.
 B—Igranite XLLOS Inductance Coil.
 C—Electrad Royalty Variable Resistances.
 D—Empire Transformer.
 E—Crescent Audio Transformer.

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They are variable in 150 approximately equal steps, contact at each step being made between a nicked phosphor-bronze blade and an alloy resistance winding. They may be calibrated for resistance against the 150 divisions dial and may be reset to within ordinary engineering accuracy.

The capacity and inductance between terminals at maximum resistance position for all 150 measure two micro-microfarads and .05 Micro-microhenrys respectively.

Type A 100,000 to 7,000,000 ohms.

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Type C 500 to 50,000 ohms.

Type D 10,000 to 300,000 ohms.

(Det. control for B Elm.)

Type E 500,000 ohms (Compensation).

Empire Transformer.

Messrs. W. Harry Wiles have submitted a sample of a new audio frequency transformer that is quite new on this market. The terminals are mounted on the top, and are easily accessible. The Empire carries a 12 months' guarantee, has a nice appearance, and, although small, is economically priced. Ratio is 4 to 1, and the core is made of best Stalloy iron.

Brandes' "Aristocrat."

Shown here is the latest product of Brandes, Ltd., of London. It has been named the "Aristocrat," and a short description of its capabilities and features is given herewith. It has a 50-1 Vernier Dial; any shake or backlash is impossible. The whole thing is made of solid brass, and is very small, being about half the size of the usual condenser. This quality is obtainable by a credible engineering feat in the method of spacing the vanes accurately.

It has a ball bearing cone thrust, and is provided with both pigtail and plate contacts—a feature found in only the best condensers. Two sizes are available—S.L.F. .0005 and S.L.F. .0003.

Messrs. International Radio Co., Ltd., are the factory representatives.

Igranite "Xllos" Inductance Coils.

"XLLOS" Coils represent a new departure in tuning coil design and are ideal for all coil users who wish to obtain the utmost efficiency in tuning between wavelengths of 220 and 3,200 metres.

The low distributed self-capacity results in this coil has an extremely wide wavelength when shunted by a variable condenser of .0005 m.f.d.

The adaptability in mounting of "XLLOS" Coils will appeal to all radio experimenters because of the numerous applications for which the coils are suitable. The methods of mounting may be summarised as follows:—

1. Standard pin and socket mounting (9-16in. centres).
2. Low capacity mounting, any spacing up to 2in.
3. Two-pin and two socket mounting any spacing (an additional contact pin is provided).
4. Pivot mounting (low capacity) to provide for angular movement without the use of separate coil holder units.

The pin and socket are separated by an air space, a feature which is of additional value in confining the self-capacity of "XLLOS" Coils to a very low value.

Continued from Page 12

A moulded Bakelite case of handsome appearance affords adequate protection to the coil windings and excludes dust and damp, which would have a detrimental effect upon the performance of the coil.

Our sample from Noyes Bros. (Sydney), Ltd.

CRESCENT AUDIO TRANSFORMER.

Audio frequency transformers have undergone many improvements during the past few years over early types, however the completely shielded type transformer has become by far the most efficient and popular transformer available to-day. The Crescent Audio frequency transformer was designed by experts of years standing in the art of transformer building. In this type of transformer is combined all the very latest developments that scientific research and engineering skill have been able to develop. Special effort has been directed to producing a transformer that would yield the very utmost volume of amplification in a practically flat top audibility curve over the entire range of useful frequencies.

It is seldom necessary to use more than two stages for the very greatest amplification with the Crescent.

Crescent Audio Transformers are made in ratios of 6 to 1 and 33 to 1, and are sold by The Economic Radio Stores, 25 Royal Arcade, Sydney.

Continued from Page 6

The broadcast was unspilt by a single mistake and will be remembered by thousands of listeners for many years to come. Congratulations are to be offered to Mr. Anderson, whose grey hairs are greater in number by several score as a direct result of the responsibility, and to Joe Reed, the technical genius of the transmission, who has gone practically unmentioned thus far. The portable transmitter and the receiver were of his own design, and although a technical description would interest fans, it is enough to say here that the efficiency of his instruments was proved by one fact. While transmitting the description on an aerial not more than a few feet long, seemingly careless strung between two iron stanchions, the receiver which picked up the same transmission on a different wavelength after it had been received by VIS, sent by land line through the studio, and retransmitted at Pennant Hills, worked on an aerial not six feet from the first. Nor was interference experienced when the receiver was tuned into direct communication with La Perouse, via 600 metres.

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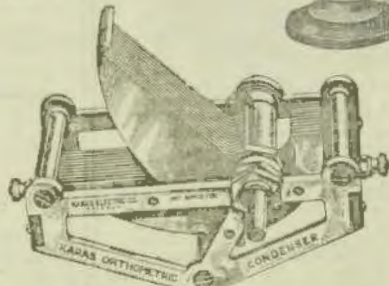


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17 Plates, 00035 33/6
23 Plates, 0005 34/9

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Advance S.L.F. Condensers: 00025, 0/6, 00035, 10/-, 0005	0	10	0
Certified Lowloss Condensers: Plain, 001, 15/9; 0005	0	12	0
Aircraft Lowloss Condensers: Brass plates, 0005	0	11	0
Econotron Audio Frequency Transformers: 51 to 1	0	8	6
Crescent Audio Frequency Transformers: 8 to 1 and 13 to 1	0	10	6
Voltmeters: 0 to 50, pocket type, 4/3; The Volton double range meter	0	12	6
Hydrometers: Range, 3/6; The Debyy, Small 0	2	3	

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Headsets: The Ambassador, 3000 ohms, pr. Econotron 201A Valves: Equal the higher priced article	0	12	6
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Porcelain Earthing Switches: With Arrestor Combined	0	2	0
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Ornamental Vernier Dials: Beautifully made in black bakelite	0	2	3
	0	7	9

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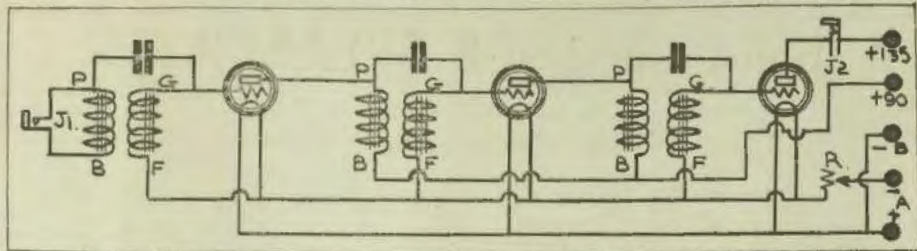
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How to make a Double Impedence-Coupled Amplifier and add it to your receiver.

LAST week there was described the Cockrill Four Circuit Tuner, in the form of a one valve set. Many people prefer earphones to a loud speaker, on the other hand others desire loud speaker reception always. Realising this we promised to describe a mobile unit which would be capable of building up the strength of signals to loud speaker pitch.

There are three popular forms of note magnification or audio frequency amplification, and they are (a) the usual standard audio frequency transformer method, (b) resistance coupled method, and (c) the impedance or choke coupled system. Most of us are familiar with the A.F. transformer method and some with the resistance coupled system, but few know the impedance or double impedance type, and it is this latter type which we propose describing here.

The double impedance unit is similar in many respects to an audio frequency transformer. It comprises two coils of a low D.C. or direct current resistance shunted with a fixed condenser. The two coils are wound on one laminated iron core and have bypass iron between them, thus enabling each coil to act separately, without outside magnetic fields. This is an advantage worth while from the tone quality point of view, and after all this is something all are striving for. It is hoped that the day of raucous reception is gone it is hoped that the old expression, "If that is wireless, none of it for me!" will not be said as often as heretofore. It is not our intention to convey the impression that all transformed coupled stages of audio frequency produce imperfect quality of music, but we wish to emphasise that the system about to be described is far better in many ways.

To those who are interested in theory a few more words of explanation will not be out of place. It is a well known fact that when a transformer is used the grid potential has to be kept negative. When this is done no grid currents are present. The reason that grid currents are not permissible with transformers is due to the fact that it soon goes positive, there is a partial short circuit of the secondary of the transformer and a temporary reduction of the magnetic coupling. The result is distortion evidenced by the presence of an over emphasised first harmonic. With the double impedance method there is no magnetic coupling.

The circuit diagram shows the condensers through which the audio frequencies pass directly from the plate of the preceding valve to the grid of the following valve. The effect of this coupling condenser is not changed by grid currents. With the well-known impedance circuit it is not possible to obtain large volumes without blocking or choking the valve. The usual circuit consists of a plate impedance, a coupling condenser and a resistance grid leak. This plate impedance often takes the form of the

secondary of an ordinary A.F. transformer.

If the coupling condenser is made large enough to pass the low frequency, then the grid leak must be made with a low enough resistance to keep the volume limit above that desired in operation. When this is done very little amplification per stage is obtained. That is why in the speech amplifiers of broadcasting stations they use so many stages of amplification and special types of valves which have high amplification characteristics. That is why the single impedance method is not practical for receiving sets.

The double impedance system completely eliminates this trouble, by replacing the resistance grid leak with a low D.C. resistance impedance coil. This coil is a happy combination affording a volume limit 250 times that of the single impedance circuit using a β megohm grid leak and at the same time the signal is over a million ohms at ordinary frequencies.

The preceding paragraphs may seem a bit advanced to the beginner, but to those who know something of theory an appeal will be made. Still to the beginner, realize that this system is worthy of incorporation in any receiver, and the unit described may be used with any set immediately after the detector whether crystal or valve, and the output will be perfect quality music.

Another well-known fact is that more than two stages of transformer coupled audio frequency amplification is never advisable, as the results are poor indeed—howling forms the greater part of the output of the speaker. With double impedance audio amplification any number of stages can be used without howling. This is worth while from the point of



A single rheostat dial and two plug jacks are the only features on the front panel.

view of extracting a little more volume from the speaker on that distant station which is quite weak, and remember when this last ounce of energy is taken purity of signals is a corollary.

To construct this amplifier is a very simple matter indeed. The parts used are these:—

- 1-Radiation or Dibecco Panel 12x7x 3-16ths.
- 2-F.M.C. Double Impedance Units.
- 3-Radiat. Sockets.
- 1-Radiat. Terminal Board.
- 1-0 ohms Rheostat.
- 2-H.M.S. S.C. Jacks.
- 8 feet of Forte Wiring Wire.
- 1 Baseboard 11x8x1.

There are many different makes of double impedance units on the market, but we have chosen the F.M.C. The panel it will be used, is just the same size as the panel used for the Cockaday last week and may be easily coupled to this,—the whole forming a nice neat and pleasing four valve receiver of which everyone should be proud.

The panel is simplicity itself—only a B ohms rheostat set or mounted in the centre with a single circuit jack in each bottom corner. One of these jacks is for coupling to the detector and one for the output of the whole four valves on the speaker. Three holes must be provided for mounting the panel to the baseboard, three nickel screws being just the thing for the purpose.

The baseboard is prepared by sand-papering and varnishing. Shellac varnish is good for this, as it is very quick in drying, thus preventing any

delays in construction. Shellac varnish is very easily made. Procure a large-mouthed pickle bottle and fill three parts full with the dry orange shellac which is obtainable from any ironmonger or paint store. Pour into this same bottle sufficient methylated spirits to cover this shellac and shake well. Leave overnight and in the morning it will be found that all the shellac has dissolved, making a perfect, golden, quick, smooth-drying varnish, which is useful for many household as well as radio purposes. If it is desired black a pinch of nigroscene added will lend this effect. Shellac is a very good insulator, and the baseboard, which is treated to one or two coats, is rendered impervious to moisture.

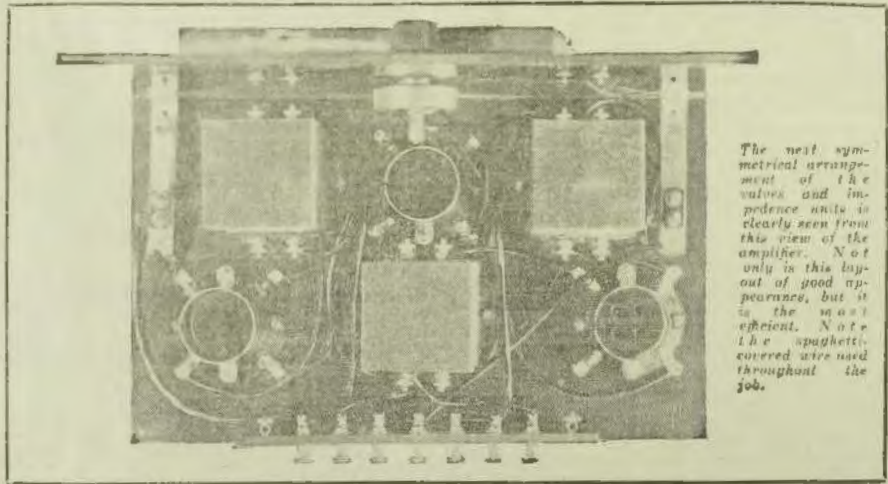
The back of panel wiring diagram is indicative of the manner of placing the components on the baseboard. This is, indeed, very simple, but pay strict attention to the direction in which each unit faces and also each valve socket. Screw the parts firmly in position on the baseboard and start the wiring.

For this purpose the writer used Bolden Forte wiring wire as it is nice and easy to work. Point to point wiring has been resorted to, and all the wires are kept low on the baseboard. So simple is the wiring that it is hardly worth while describing such connection, the back of panel wiring diagram being sufficient. The circuit diagram is in itself clear enough and the companion article in the issue on reading a circuit diagram will assist those who at the present time don't understand the symbols of a circuit diagram. Here is practice for you.

When the wiring is completed check over for any errors, and if any are found rectify them straightaway. Now plug the valves in their sockets and connect the A battery to their respective terminals, making sure that the positive from the A battery is connected to the positive terminal on the terminal board and the negative to the negative terminal. Turn the rheostat and the valves if 201a type or D.L.S.'s (De Forest) will light up. Now connect up the B battery. Up to 135 volts is permissible on the last stage, but if this power is not available connect 90 volts to the two B positive terminals, the B negative to its respective terminal. No C battery is necessary.

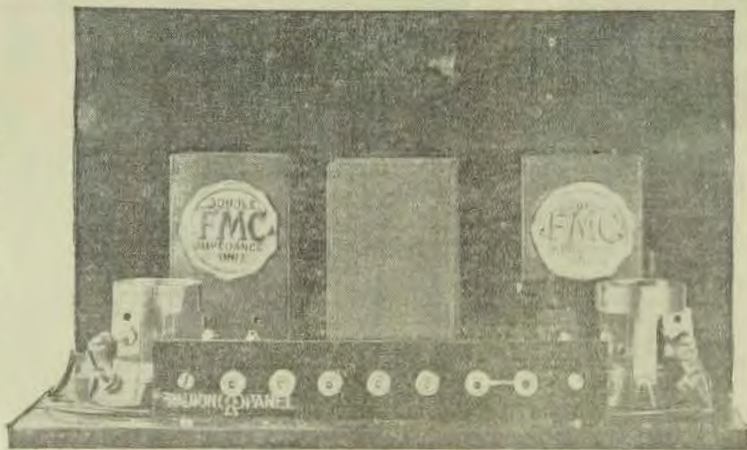
To connect this amplifier to a crystal receiver simply connect the telephone terminals of the crystal set to a short length of twin flexible wire at the other end of which is fitted a loud speaker plug. Insert this plug into Jack J1 and plug the loud speaker into Jack J2. Now tune the set and listen to glorious clear music. Sounds as if the piano were in the room, doesn't it? Beautiful!

When it comes to a single valve receiver, say the Cockaday, connect up the batteries to the amplifier as usual or take two more leads from the A battery to the A battery terminals on the Cockaday or any other single valve for that matter. Leave the B terminal on the single valve without any connection, but take a tapping of the B battery at 22 volts—yes, the same one or two as used on the amplifier—and join this to the Bx terminal of the single valve.



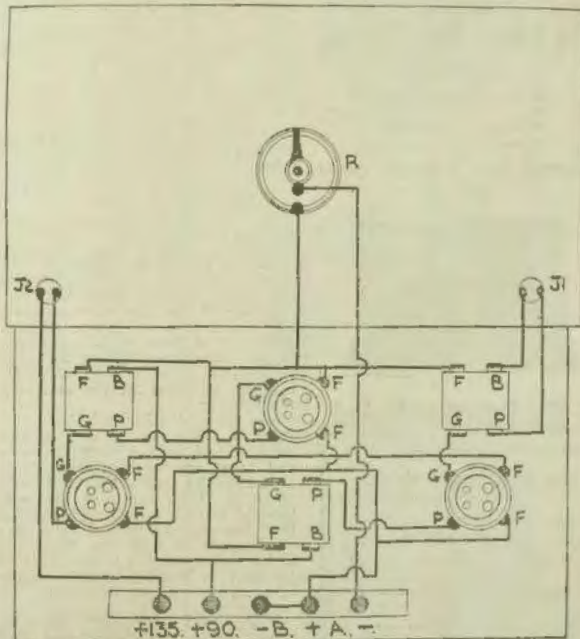
The neat symmetrical arrangement of the valves and impedance units is clearly seen from this view of the amplifier. Not only is this layout of good appearance, but it is the most efficient. Note the spaghetti-covered wire used throughout the job.

The back elevation of this receiver. The *14* cm in a board is seen in the foreground, while the rheostat and the third valve socket are hidden by the centre impedance transformer.



Procure two loud speaker plugs and connect them together with the usual short length of twin flex in the orthodox manner. Insert one plug into the jack of the single valver and the other plug into J1 of the amplifier. Plug the speaker into J2 of the amplifier, and tune in with the controls of the single valver. The amplifier needs no tuning whatever. If desired, the two connecting plugs may be dispensed with and a soldered connection from the top of the jack in the valve set to the job of the jack J1 in the amplifier, another connection from the bottom to the bottom of each respective jack completes the arrangement. If it is desired to hear on the 'phones with the single valver only at any time simply plug into the jack in the single valver and this will be made possible.

Of course, if the detector is preceded with one or two stages of radio frequency this amplifier is quite suitable. Browning Drakes, Neutrodyne and Super Heterodynes all will be improved enormously in tone quality if this amplifier is used after the detector, the second detector in the Super Heterodyne. The unit is mobile; it may be connected to any receiver provided no transformer coupled audio stages follow the detector. To replace the standard audio transformers with these impedance units is a matter of a few moments, the connections on the units being precisely the same as on the transformers. And the music is wonderful! Try it for yourself!



The Wiring Diagram.

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THOUSANDS have made this 3-Valve Set, and now enjoy perfect reception—quite undistorted reproduction, without a trace of coarseness. If you can use a screw-driver, you too, can make it—in less than 3 hours. Ample volume—simple control—easy dial to operate—this set is truly remarkable. And it costs only

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Paton



W. Harry Wiles' comprehensive display at the Radio Exhibition.

THAT BATTERY.

A lot of interest was created at the recent Sydney Radio Exhibition, where a Clyde Battery submerged in a large glass jar of water and lighting a small lamp mystified many people. The puzzle was, "Why Doesn't the Battery Short Circuit?"

Several fans have written in asking why. The answer, of course, is that distilled water containing no impurities is a non-conductor. That jar contained distilled water.

A NUMBER of Antarctic whalers have been fitted this season with Marconi wireless telephone apparatus, which has enabled them to adopt tactics in finding and killing walrus which would be impossible without this means of inter-communication.

If one of the vessels so equipped sights a number of whales, perhaps after two or three weeks' searching, it can immediately inform the other ships in the same fleet by telephone, and all can make for the best spot for hunting.

The Marconi 4-k.w. telephone is fitted to all the ships of the Southern Whaling and Sealing Company, Ltd., and to other whaling fleets, have been specially designed for this class of work. Their operation has been reduced to such a simple proposition that they may be worked by a harpoon-punner in full kit. Reception is by loud-speaker, so that there is no need to remove head coverings in order to use the telephone.

THE MOST interesting feature at present being broadcast through 20B is the series of lectures by Mr. Walter Hunt on "Vowel Melody."

Mr. C. A. Wiles, of W. Harry Wiles, has just returned from a two weeks' camping trip to Lake Illawarra and Lake Caniela, near Milton. Mr. Wiles reports the latter place a paradise for oysters and swimming, with bait in abundance. As for the fish—well, if one may believe him, there are no fish left since Mr. Wiles visited the place.

"BEAUTIFUL TASMANIA": The series of "Talks" that are being broadcast via 3LO by Mr. Webb, the Melbourne Manager of the Tasmanian Government Tourist Bureau, are followed with keen interest by listeners, and through this entertaining medium we are speedily becoming better acquainted with the delightful beauty spots with which that island abounds.

A reader of "WIRELESS WEEKLY," living at Coledale, New South Wales, has written to the manager of the Electroleon Company, Sydney, giving enthusiastic reports of reception using the well-known Electroleon Wire.

This fan uses the Marco Four, which was described in "WIRELESS WEEKLY." Using this Receiver he constructed a rough frame aerial about 2ft. in diameter and wound the Electroleon Wire around it. A clip was then soldered to the loose end and clipped on to the aerial terminal. The results have been remarkable, interstate stations and IYA coming in at loud speaker strength. He attributes the success of his reception entirely to Electroleon Wire.



THERE'S no fun in radio when your set emits the myriad small noises known as mush. You may blame the broadcaster but that does not cure it. The first thing to do is to examine the four parts vital to good reception, the headphones, the rheostat, the valve socket and the transformer. Having located the trouble throw out the faulty part and replace with EMMCO.

EMMCO TRANSFORMER.

Designed and manufactured to the highest degree of electrical and engineering efficiency, the Emmco transformer amplifies music and speech without any of the distortion so frequently met with in other types. It is guaranteed not to burn out. Ratio 2 to 1, $2\frac{1}{2}$ to 1, 5 to 1, $7\frac{1}{2}$ to 1. PRICE, 21/-.

EMMCO RHEOSTAT.

Constructed with the new style metal frame and with a bakelite knob. The double inside grip of the sliding arm ensures continuous contact and a firm grip, making its adjustment even and sure the whole way round. PRICE, 5/6.

EMMCO HEADPHONES.

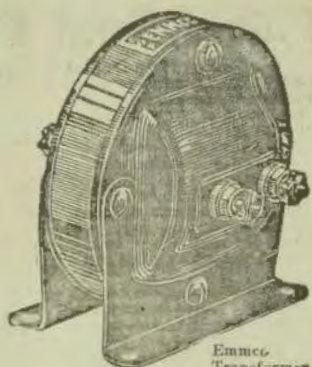
Every detail is manufactured to the highest standard of efficiency. A light spring head-band, with sliding adjustment, on each earpiece, enables them to be worn with the utmost comfort. PRICE, 21/-.

EMMCO VALVE SOCKET.

Made of moulded bakelite, the Emmco valve socket is adaptable for all standard valves, UX or UV type. Springs make positive contact and cannot become displaced by long usage. PRICE, 4/6.

AT ALL RADIO DEALERS

Manufactured by
Electricity Meter Manufacturing Co. Ltd.
 Sydney, N.S.W.



Emmco
Transformer,
21/-.

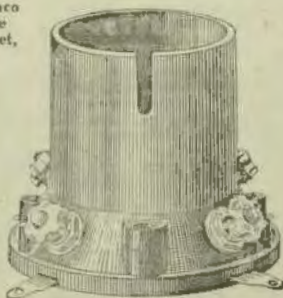


Emmco
Rheostat,
5/6.



Emmco
Headphones,
21/-.

Emmco
Valve
Socket,
4/6.



Valves, and Valves and their Uses.

The choice of valves for a certain type of set, which is required to work under various conditions, calls for careful consideration if the best results are to be obtained.

Because your neighbor next door secures remarkable results with a certain type or combination of types in his receiver, it does not necessarily follow that the same types will give equal success in your receiver, nor is it due to any discrepancy or deterioration of the actual valve components.

A few words regarding the correct application of the better-known types manufactured by the well-known firm of Philips, for instance, will no doubt be appreciated by our readers and assist them in selecting suitable valves for their receivers.

Attention might first be drawn to the significance of the Serial Notation employed by this firm. For example, the notation "B400"—known to practically every radio-enthusiast in this country—was not chosen at random just as a means of identifying this particular type. The letter "B" signifies that the filament draws 1 of an ampere; the first figure "4" signifies the filament voltage (approximately) and the last two numbers denote the Amplification Factor, which in this case is 8.

All Philips "Minivatt" Valves have a similar significant notation. The letter "A" signifies that the valve belongs to the "A" class, such as the new A609, which draws .06 of an amp. on the filament at 6 volts approximately, and has an Amplification Factor of 9. Once the reader is familiar with this system, it is extremely simple to glean the main characteristics of the Philips "Minivatt" Valves from its serial notation.

Reverting to that popular type—the B405—it is interesting to note that its advent marked a distinctly new departure in valve design. Apart from the low filament voltage and consumption and the fact that no glow whatever is discernible when the valve is functioning, it gives very excellent results under almost all conditions.

It possesses a remarkable Amplification Factor considering its low impedance—4,300 ohms—and on account of this latter characteristic—the manufacturers stressed at great length the importance of using correct grid bias, no matter for what purpose the B405 was employed. It was generally accepted, however, as an excellent last stage audio valve. In this country, surprising results have been obtained when using the B405 as a radio frequency amplifier, and few people realise the reason for this.



The general trend in many sets of American manufacture and also of Australian construction is to sharpen the tuning of receivers by reducing the number of turns on the windings of R.F. transformers with a consequent reduction of impedance. Where this is the case, it is essential, if maximum efficiency is to be obtained, that a low impedance valve be used, and the B405 is, therefore, highly suitable. In order to limit the plate current consumption which would then be collectively high and impose a considerable drain on the "B" current supply, grid bias must be applied. Since the cost of grid bias batteries is extremely low and no current is actually drawn from them, this involves little extra expense considering the advantages which accrue. The new "Minivatt" 6-volt valve—B405—is equally satisfactory under conditions set out above.

Philips practically pioneered this departure in valve design, and it is interesting to note that other valve-manufacturers are following this lead and that grid biasing is recommended by all leading set manufacturers, as well as by technical writers in this and other journals.

Where the impedance in the radio frequency stages is high, in many English sets, for instance, or where it is not desired to use grid bias for one reason or another, and also for detection purposes, there are several high impedance "Minivatt" valves which are specially applicable.

The A409 (4-volt) and the A509 (6-volt) are equally efficient, both for high frequency amplification and first stages of low frequency amplification, as well as being magnificent detectors. The impedance of these valves is 3000 ohms and 7500 ohms respectively, so that when using them as detectors with grid leak rectification the "B" battery consumption is not high.

While on the matter of detector valves, we would like to stress the point that it is advisable wherever "grid leak rectification" is used, that the "grid return" lead be connected to the positive leg of the valve filament. This then ensures that the grid will receive a negative bias by reason of the condenser, which is placed in the grid lead, causing a reversal of polarity.

There are also two Philips "Minivatt" valves in the 4-volt series which are designed for more special application, namely, the A425 and the B403. The A425 with its high amplification factor (25) and high impedance (25,000 ohms.), is specially suitable for intermediate stages of super-heterodynes and for resistance capacity or short impedance coupling. The B403 is, in reality, a super B406 having an impedance of only 2500 ohms, and an amplification factor of 3. It is essentially a last stage audio valve and can be grid biased up to 30 volts when using 150 volts on the plate. This latter feature is a very desirable quality if true audio amplification over a wide range of frequencies at great volume is desired, there being little possibility of the grid becoming positive. Although it would seem paradoxical, this B405 Power Valve, in certain types of circuits where the impedance is very low, makes an excellent High Frequency Amplifier.

A very efficient 10-Watt Tube—TB 04/10—is still more powerful for last stage amplification, where considerable volume without distortion is required. It is a 6-volt valve taking 1.25 amps. and from 250 to 400 volts on the plate. This valve is particularly applicable to Public Address Systems where several Speakers are required to be worked from the one amplifier. It is also equally efficient as a Rectifier for general purposes, or as a Modulator or Oscillator in Transmitting Sets.

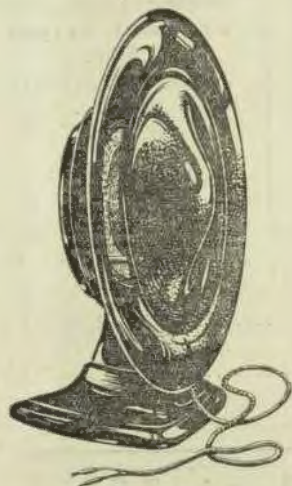
For portable sets, where dry batteries are employed for filament supply, the 1-volt types—A109 and B105 "Minivatt"—are recommended; the total consumption of the former being .06 Watts while the latter is really a Power Amplifier with a total consumption of .15 Watts.

It is a big step from these most economical Dull Emitters to the 20 kilowatt valves—Z83's—which Philips manufacture for transmitting purposes. These take 77 amps. on the filament at 17 volts, give an emission of 8 amps, and require for cooling purposes 3 gallons of water per minute circulating in a special Water-jacket in addition to an air blast of 8 cubic feet per second.

For the eyes and ears of the millions

S*SIXTY famous scientists—many of International repute—are continuously engaged in Philips Laboratories. Philips Lamps bear world-wide testimony to their undisputed leadership in modern Light research. Their combined genius has now been productive in a kindred field—that of electrical sound re-creation—materialised by a Loud-Speaker beyond compare.*

A new natural-tone SPEAKER



A Patented Balanced Magnet System

actuating a floating cone of perfect acoustic properties—free to vibrate at its edges—provides in effect a mirror of the human voice or a perfectly proportioned sound image of a full orchestra.

The truest variations in color or tone—the full round notes of the 'cello and bass and the highest treble of the violin or piccolo—all are re-created with a realism beyond belief.

A new beauty in line and colour (there is a choice of six glossed new-art finishes) lends dignity and grace to any Radio set in keeping with its surroundings.

No adjustment is required—every instrument being tested, sealed and guaranteed by Philips.

Arrange to hear this new natural tone Loud Speaker at the nearest Radio Dealer—or better still—in your own home.

"HEAR IT ONCE—THEN ALWAYS"

A co-product of famous Philips' Valves, H.T. Supply Units and Battery Chargers.

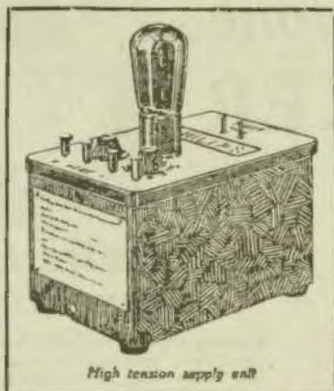
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A Real "B" Battery Eliminator

The Philip "B" Battery Eliminator will eliminate your "B" Battery troubles entirely. No more faulty reception; no more disappointment or spoilt programmes. Phillips unit gives an ample supply of High Tension current from your A.C. lighting circuits at an infinitesimal cost.

Will Last
a
Lifetime.
Needs No
Attention.
No A.C.
Hum.



High tension supply unit

Separate Terminals for
Detector and Low
Frequency Circuits, with
a Rheostat on each
Circuit.
Price, £9/15/- each,
Complete.

"A" Battery Chargers:

X Philips "A" Battery Chargers, 6-volts, 1.3 amps.	£6/-/-
Philips "A" Battery Chargers, 6-volts, 6 or 3 amps.	£8/10/-
Balkite "A" Battery Charger, 6-volt, 3 amps.	£8/10/-

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Mail Order Dept.: 60 Goulburn Street.

BROADCASTING PROGRAMMES

For the COMING WEEK

Friday, April 1

2FC, SYDNEY

Farmer's Broadcasting Service.
Wave Length, 442 Metres.

EARLY MORNING SESSION.

- 7 a.m.—"Big Ben" and announcements.
7.5 a.m.—Studio music.
10 a.m.—Official weather forecast, rainfall, temperatures, astronomical, memoranda, shipping intelligence, mail services.
10.25 a.m.—Investment market, mining share market, metal quotations.
10.50 a.m.—Wool sales, breadstuffs markets, Inter-State markets, produce markets.
11.45 a.m.—"Sydney Morning Herald" news service.
8 a.m.—"Big Ben" Studio music.
8.15 a.m.—Close down.

MORNING SESSION.

- 9.30 a.m.—Marching music for school children.
9.40 a.m.—Studio music.
10 a.m.—"Big Ben" and announcements.
10.8 a.m.—Late "Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.45 a.m.—A serial story.
11 a.m.—"Big Ben." Australian Press Association and Butcher's cable services.
11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Furst.
11.30 a.m.—Marching music for school children.
11.45 a.m.—Close down.

MIDDAY SESSION

- 12 noon—"Big Ben" and announcements.
12.5 a.m.—Stock Exchange, first call.
12.8 p.m.—Studio music.
12.50 p.m.—Rugby wireless news.
12.55 p.m.—Miss Anna Luciano, soprano.
1 p.m.—"Big Ben." Weather intelligence.
1.5 p.m.—"Evening News" midday news service.

- Producers' Distributing Society's report.
1.25 p.m.—Studio music.
1.28 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Studio music.
1.45 p.m.—Miss Anna Luciano, soprano.
1.49 p.m.—Studio music.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Programme announcements.
2.35 p.m.—A pianoforte recital by pupils of Mr. S. Gordon Lavers:
1. "The Helvidres," overture (Mendelssohn).
Miss Jessie Russell and Mr. S. Gordon Lavers.
2. "Tocatta" (Debussy).
Miss Lwely Beynoid, L.A.B.
3. "Squidilla" (Albeniz).
Miss Ruth King.
4. "Andante and Ronco Capriccioso" (Mendelssohn).
Miss Rachel, A.T.C.L.
5 p.m.—"Big Ben." A Reading.
3.10 p.m.—Pianoforte items by the pupils of Mr. S. Gordon Lavers:
5. "Dance in E. Major" (Debussy).
Miss Gladys Hewitt, L.T.C.L.

6. "La Filleau" (Haff).
Miss Mary Simpson.
7. "New Angliana" (Rubinstein).
Miss Ethel Turner, A.L.C.M.
8. "Valse in F Op. 34 No. 2" (Chopin).
Miss Lily Green.
9. "Polonaise" (Rachmannoff).
Miss Jessie Russell, A.L.C.M.
9.30 p.m.—Marching music for school children.
1.10 p.m.—FROM FARMER'S TEA ROOMS:
Miss Ethel Muller, contralto:
"A Little Less Nest" (Lohr).
5.45 p.m.—Studio music.
6 p.m.—"Big Ben"
FROM FARMER'S TEA ROOMS:
Miss Kileen Murray, soprano:
"Sincerely" (Chabrel).
4.8 p.m.—A Music Talk by Mr. Ewart Chapple.
4.15 p.m.—Studio music.
4.30 p.m.—FROM FARMER'S TEA ROOMS:
Miss Ethel Muller, contralto:
"A Little Less Nest" (Lohr).
4.25 p.m.—Studio music.
4.40 p.m.—FROM FARMER'S TEA ROOMS:
Miss Kileen Murray, soprano:
"Hobbes" (from "High Jack").
4.45 p.m.—Stock Exchange, third call.
4.48 p.m.—Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The Chimes of 2FC.
5.48 p.m.—The "Hello Man" talks to the children.
5.50 p.m.—Mr. Ted Orbell continues his series of stories to the young folk.
6.40 p.m.—FROM FARMER'S DINING HALL:
Instrumental and vocal items.
7 p.m.—"Big Ben." Last minute sporting information by the 2FC Racing Commissioner.
7.10 p.m.—Disgusty's Market Reports (wheat, wheat and stock).
7.18 p.m.—Fruit and vegetable markets.
7.20 p.m.—Weather and shipping intelligence.
7.25 p.m.—Late "Evening News" news service.

NIGHT SESSION.

- 7.40 p.m.—Programme announcements.
7.45 p.m.—A talk by Miss Theo Cowan, the well-known Sculptress:
Subject: "World Famous Pictures"
8 p.m.—"Big Ben."
FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:
Orchestral items.
8.12 p.m.—FROM THE STUDIO:
Mr. Alec Whitson, baritone:
"The Fisherman of Enghien" (Philipp).
8.10 p.m.—Mr. Victor Goulet in Comic Opera Memories.
8.18 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:
8.30 p.m.—FROM THE ROYAL AGRICULTURAL SOCIETY'S GROUNDS, SYDNEY:
Description of the Barbecue organised by the Sydney Hospital and Boy Scouts' Association.
A Brass Band supplied by 2FC will provide selections during the evening.
8.45 p.m.—FROM THE STUDIO:
Mr. Alec Whitson, baritone:
"The Venus of Brundisi" (German).
"The Flag" (Halkburt).
8.52 p.m.—Mr. Victor Goulet in Comic Opera Memories.

- 9 p.m.—"Big Ben." Music and descriptions from the R.A.S. Grounds.
9.15 p.m.—Miss Margaret Grimshaw, mezzo.
9.14 p.m.—The Honolulu Trio—Steel Guitar, Spanish Guitar and Ukulele:
(a) "My Hills Girl" (Smith).
(b) "Hawaiian Smile" (Mary Ke).
9.25 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:
Orchestral numbers and vocal set.
9.32 p.m.—THE R.A.S. GROUNDS:
Further descriptions of the Historic Pageant and Barbecue, interspersed with band items.
9.45 p.m.—FROM THE STUDIO:
Miss Margaret Grimshaw, mezzo.
9.52 p.m.—The Honolulu Trio—Steel Guitar, Spanish Guitar and Ukulele:
"Old Time Melody" Moley.
10 p.m.—Mr. Victor Goulet in Comic Opera Memories.
10.2 p.m.—Miss Margaret Grimshaw, mezzo.
10.10 p.m.—FROM THE LYCEUM THEATRE, PITT STREET, SYDNEY:
Orchestral numbers.
10.17 p.m.—FROM THE R.A.S. GROUNDS, SYDNEY:
Descriptions of the Historic Pageant and Barbecue, with brass band items.
10.30 p.m.—FROM THE WENTWORTH CAFE, SYDNEY:
The New Wentworth Symphonic Dance Orchestra, conducted by Mr. Frederick Leighton.
10.55 p.m.—FROM THE STUDIO:
Celebrity recitals.
10.55 p.m.—Late news and announcements.
11 p.m.—"Big Ben." The New Wentworth Symphonic Dance Orchestra in popular numbers until midnight.
12 midnight—"Big Ben."
National Anthem.
Close down.

2BL, SYDNEY

Broadcaster's Ltd.

Wave Length, 353 Metres.

Friday.

EARLY MORNING SESSION.

- 7.15 a.m.—G.P.O. Clock and Chimes.
7.45 a.m.—Macmillan Weather Forecast.
8.17 a.m.—Musical Programme from the Studio.
8.23 a.m.—Physical training and health exercises.
8.30 a.m.—G.P.O. Clock and Chimes.
8.31 a.m.—Hints on Health.
8.38 a.m.—Physical Training and Health Exercises.
8.45 a.m.—G.P.O. Clock and Chimes.
8.48 a.m.—Weather Report.
8.47 a.m.—Broadcaster's special news service.
8.57 a.m.—G.P.O. Clock and Chimes; Close Down.

MORNING SESSION.

- During this session, descriptions will be broadcast from Denola Caves.
10.0 a.m.—G.P.O. Clock and Chimes.
10.1 a.m.—Weather Report.
10.15 a.m.—Musical Programme from the Studio.
10.20 a.m.—News Service from the "Daily Telegraph."

Every Radio Boy knows the Burgess.

10.35 a.m.—Musical Programme from the Studio.
 11.0 a.m.—G.P.O. Clock and Chimes.
 11.05 a.m.—News from the "Daily Telegraph."
 11.15 a.m.—Rabbit Market Report.
 11.17 a.m.—Fish Market Report.
 11.19 a.m.—Vegetable Market Report.
 11.21 a.m.—Fruit Market Report.
 11.23 a.m.—London Dairy Farm, Egg and Poultry Market Report.
 11.25 a.m.—London Stock Quotations.
 11.29 a.m.—Ships in call by wireless.
 11.31 a.m.—Information re Interstate and Overseas Mail.
 11.35 a.m.—Shipping Information—arrivals and departures.
 11.35 a.m.—Women's Session—Talk by Miss Gwynn Harley, Broadcasters Women's Sports Authority.
 11.45 a.m.—Social News by Mrs. Jordan.
 11.45 a.m.—Mrs. Jordan replies to correspondents.
 12.0 p.m.—Talk on "Principle Foods which furnish Protein," by Miss D. Bowden, R.A.
 12.30 a.m.—G.P.O. Clock and Chimes.
 12.31 a.m.—Sudley Stock Exchange Calls.
 12.33 p.m.—"Sun" Newspaper News Service.
 12.40 p.m.—Hillier's Instrumental Quintette—direction, Carl Gilling.
 1.30 p.m.—G.P.O. Clock and Chimes.
 1.31 p.m.—Weather Report.
 1.34 p.m.—Sudley Stock Exchange Calls.
 1.35 a.m.—News from the "Sun."
 1.45 p.m.—Musical Programme from the Studio.
 2.0 p.m.—G.P.O. Clock and Chimes: Close Down.

AFTERNOON SESSION.

Racing information broadcast immediately after each race.
 2.0 p.m.—G.P.O. Clock and Chimes.
 2.1 p.m.—Weather Report.
 2.15 p.m.—Comments from the Studio for the "The H. Movement" arranged by Miss Kathleen Jordan.
 2.30 p.m.—G.P.O. Clock and Chimes.
 2.31 p.m.—News from the "Sun."
 2.45 p.m.—Musical Programme from the Studio.
 3.0 p.m.—G.P.O. Clock and Chimes.
 3.1 p.m.—Civil Service Stores Firm—direction, Miss de Cources Brown.
 3.15 p.m.—Sudley Stock.
 3.19 p.m.—G.P.O. Clock and Chimes.
 3.21 p.m.—Musical Programme from the Studio.
 3.45 p.m.—Producers' Distributing Society's Fruit and Vegetable Market Report.
 4.00 p.m.—Shipping Information when available.
 4.15 p.m.—Day's racing resume on race days.
 4.30 p.m.—Resume of night's programme.
 4.40 p.m.—G.P.O. Clock and Chimes: Close Down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.
 5.46 p.m.—LITTLE WILLY and LADY LEGGERS will entertain the kiddies.
 5.50 p.m.—The pupils of Miss Mervin Seilly will entertain the kiddies.
 6.00 p.m.—Musical Programme from the Studio.

SPECIAL COUNTRY SESSION.

7.0 p.m.—G.P.O. Clock and Chimes: Australia Mercantile Land and Finance Co.'s Report: Weather Report and Forecast: Inter-Exchange Cables: Produce: Distributing Society's Fruit and Vegetable Market: Livestock, Grain and Poultry Report: Dairy Produce Report ("Sun").
 7.15 p.m.—Country News from the "Sun."
 7.30 p.m.—Talk on "Gardening Success" by Mr. Cooper, Park Superintendent City Council.
 7.40 p.m.—G.P.O. Clock and Chimes: Broadcasters' Topical Chorus.
 7.45 p.m.—Broadcasters' Trio.
 7.53 p.m.—Miss Edna Lister (Centralist).
 7.58 p.m.—Mr. W. E. Lewis (Baseline).
 8.00 p.m.—Miss Dorrie Ward (Soprano).
 8.02 p.m.—Mr. Phil Mountain (Comedian).
 8.04 p.m.—Duet, Miss Dorrie Ward and Mr. W. E. Lewis.
 8.45 p.m.—Broadcasters' Trio.

8.55 p.m.—Resume of Following Day's Programme: Weather Report and Forecast by courtesy of Mr. C. J. Marx, Government Meteorologist.
 9.0 p.m.—G.P.O. Clock and Chimes.
 9.1 p.m.—Kinsey and Graham (Comedy and Harmony).
 9.15 p.m.—The Sporting Editor of the "Sun" will talk on the Prospects of Saturday's Racing.
 9.20 p.m.—Broadcasters' Trio.
 9.24 p.m.—Miss Edna Lister.
 9.25 p.m.—Mr. W. E. Lewis.
 10.0 p.m.—G.P.O. Clock and Chimes.
 10.3 p.m.—Miss Dorrie Ward.
 10.4 p.m.—Mr. Phil Mountain.
 10.15 p.m.—The Ambassadors Dinner Band Broadcast from the Palladium of the Ambassadors, during the intervals between the "Sun" News Reports by courtesy of the "Sun" will be broadcast.
 12. midnight.—G.P.O. Clock and Chimes: National Anthem.

3LO, MELBOURNE

Broadcasting Co. of Aust.

Wave Length, 371 Metres.

Friday

MIDDAY SESSION.

"QUIT YOUR FOOLING."
 THE STUDIO ORCHESTRA.
 JOHN D. FITZER, Baritone.
 THELMA READY, Bass.
 OSBORNE AND PERRYER.
 THE PREMIER FOUR.
 Accompanist..... AGNES FORTUNE
 12.00 p.m.—TIME SIGNAL, British Official Wireless News from Radio, Reports and Special Australian News Association Cables: Stock Exchange Information: "Arms" and "Herald" news service.
 12.30 p.m.—STUDIO ORCHESTRA!
 "Interlude" (Percy).
 12.40 p.m.—JOHN D. FITZER, baritone of the Ross Music Company, by permission of J. C. Williamson Ltd.,
 "Lullaby" (Cassidy) (Tenor).
 "The Link District" (Percussion).
 12.47 p.m.—THELMA READY, Duet.
 Plantation Melodist.
 12.50 p.m.—OSBORNE AND PERRYER: "Cuckoo Comedy Camps."
 1.0 p.m.—STUDIO ORCHESTRA: "Serenade" (Rubenstein).
 1.11 p.m.—THE PREMIER FOUR: "I will love you more than ever."
 "Mother's Mine."
 1.22 p.m.—Weather report.
 1.25 p.m.—JOHN D. FITZER, baritone "Mattinate" (Teal).
 "A Yare-Ye"
 1.30 p.m.—STUDIO ORCHESTRA: "Le Soir" (Gounod).
 1.45 p.m.—THE PREMIER FOUR: "Mighty Yes"
 "O My Yes"
 1.55 p.m.—THE STUDIO ORCHESTRA: "In a Chinese Temple Garden" (Kretzsch).
 2.0 p.m.—Close down.

AFTERNOON SESSION.

FASHIONS AND FUGUES.
 Speakers:
 "AU FAIT."
 MRS. M. CALLAWAY MAHOOD.
 THE STUDIO ORCHESTRA.
 "CHECK" HAYES, The Talkative Chorus.
 DOROTHY ROXBURGH, Viola (Solo).
 MARGIÖRE VERE, Soprano.
 ADRIAN DOUGLAS, Comedian.
 Accompanist..... AGNES FORTUNE
 3.0 p.m.—STUDIO ORCHESTRA!
 "La Source Saine" (Reboul).
 3.10 p.m.—AU FAIT in a "Fashion Talk."
 3.25 p.m.—MARGIÖRE VERE, Soprano: "A little Pink Pettie" (Hemans).
 "My Moon" (Pettibon).
 3.32 p.m.—STUDIO ORCHESTRA: "Scalp Dance" (Leder).

3.40 p.m.—"CHECK" HAYES, The Talkative Chorus.
 Will try to be serious.
 3.45 p.m.—DOROTHY ROXBURGH, Viola: "Spring's Awakening" (Bach).
 3.52 p.m.—MARGIÖRE VERE, soprano: "The Reason" (del Riego).
 "Fairings" (E. Martin).
 4.0 p.m.—STUDIO ORCHESTRA: Selection, "A Country Girl" (Geoffrey).
 4.10 p.m.—ARTHUR DOUGLAS, comedian: "The Fight Too" (Pyle).
 4.15 p.m.—STUDIO ORCHESTRA: New Italian Selection.
 4.30 p.m.—MRS. M. CALLAWAY MAHOOD: "As I Was Born" (Lied).
 4.45 p.m.—"Herald" news service, Stock Exchange Information.
 5.0 p.m.—Close down.

EVENING SESSION.

8.45 p.m.—CHILDREN'S HOUR: Answers to letters and birthday greetings.
 8.55 p.m.—"Rainy Monday" has a little song for you.
 9.0 p.m.—"G.P.O. CLOCKS AND CHIMES" and music for the night ends.
 9.10 p.m.—"Silly Songs."
 "The Spinnin' Wheel."
 "The Black Princess."
 9.17 p.m.—"GRACE" JACKSON, contralto: "Lullaby of a Baby" (Schubert).
 "Gladly through the Day" (Old Scotch).
 9.20 p.m.—"Arms" and "Herald" news service: Weather synopsis: Shipping movements.
 9.27 p.m.—Stock Exchange Information.
 9.32 p.m.—Fruit Market reports by J. R. Bockert, Ltd.
 9.35 p.m.—AGNES reports.
 9.38 p.m.—Market reports by the Victorian Producers' Co-operative Co. Ltd. Haymarket sheep sales: Poultry, Grain, Hay, Straw, Tann. Dairy Produce, Potatoes and Onions.
 9.40 p.m.—Market reports of Fruit, by the Victorian Fruitgrowers' Association, compiled by the "Fruit and World" committee (3L). Market sheep sales: Poultry, Grain, Hay, Victorian Central Citrus Association 3L, Ltd.

NIGHT SESSION.

"HARMONIALITY."
 (No. Remarks not held on it.)
 Speakers:
 MR. G. H. BAKER.
 MR. H. K. LOVE.
 "CARIBBIAN."
 THE STUDIO ORCHESTRA.
 COLLINGWOOD CITIZENS' BAND.
 THE PREMIER FOUR.
 THE MORANA LIDA DUO.
 ADRIAN DOUGLAS, Soprano.
 ARTHUR DOUGLAS, Comedian.
 HASTINGS AND ADRIAN OSBORNE AND PERRYER.
 TAYLOR AND SUMMERS, English Comedians.
 Announcer..... MAURICE DEMPSEY.
 Accompanist..... AGNES FORTUNE.
 7.15 p.m.—Under the auspices of the Agricultural Department, MR. G. H. BAKER, Secretary Dairy Sub-committee:
 "The Bulk of the Better Farming Train."
 7.30 p.m.—THE STUDIO ORCHESTRA: "Merry Wives of Windsor" (Nicola).
 7.40 p.m.—THE PREMIER FOUR: "After the Dance."
 "Summer Rain."
 7.47 p.m.—"MOANA LIDA DUO: "Kaitiaki Waite."
 "Lullaby."
 7.57 p.m.—ADEL INMAN, soprano: "Last Rose of Summer."
 "I Love You" (Archer).
 8.01 p.m.—"COLLINGWOOD CITIZENS' BAND: "Overture," "Golden Sceptre," "March," "Stars and Stripes."
 8.05 p.m.—ADRIAN DOUGLAS, Comedian: "I just went for the Day" (Lorimer).
 "It's a fine thing too fine" (Lauder).

Canada chose Burgess for her outposts.

A 'CLYDE'
can be easily carried!



Costs Less--Lasts Longer

Every standard Clyde battery is guaranteed to be free from defects in either material or workmanship. Should any repairs be necessary within 90 days of the battery having been purchased, the owner may have such repairs carried out at any one of the hundreds of Clyde Service Stations throughout Australia without cost, if it is apparent that the breakdown has not been due to neglect or abuse. Clyde batteries are guaranteed for a further period of 12 months after the 90 days free service period.

THE CLYDE ENGINEERING CO. LTD.

Clyde batteries are made at the largest and one of the oldest engineering and electrical workshops in Australia, covering 13 acres of ground and giving employment to 1,600 skilled Australian workmen.

- 8.21 p.m.—HASTINGS AND ADAIR: "Showed him the way to go home." "Vat, Vat, Vat." Comedy. (Bury Sign.) Inst. "After All."
- 8.31 p.m.—STUDIO ORCHESTRA: Selections. "Wear."
- 8.41 p.m.—BOHME AND PERRYER in Cuckoo Circus.
- 8.51 p.m.—COLLINGWOOD CITIZENS' BAND "Birds Over the Bay."
- 9.01 p.m.—TAYLOR AND SUMMERS: English comedians. Songs and Improvisations.
- 9.11 p.m.—STUDIO ORCHESTRA: "Oh, Arnie! Ev'!" (College Taylor).
- 9.21 p.m.—"CARRIGAN"—Mr. H. A. Wolfe: Sporting Editor of the "Argus" and "Australasian" will speak on Saturday's Race.
- 10.00 p.m.—COLLINGWOOD CITIZENS' BAND: Concert solo. "Daddy Boy." J. Branswell.
- 10.30 p.m.—"Argus" news service. British Official Wireless. Australasia.
- 10.40 p.m.—STUDIO ORCHESTRA: "How Marry" (Frost).
- 10.50 p.m.—"CRACK" HAYES: The Talkative Chat will entertain.
- 10.55 p.m.—COLLINGWOOD CITIZENS' BAND: March. "Under the Banner of Victory."
- 11.01 p.m.—THE PREMIER FOUR: "The World is Waiting for the Sunrise." "Caroline."
- 11.10 p.m.—Meteorological information. Road Notes supplied by the Royal Automobile Club of Victoria.
- 11.31 p.m.—OUR GREAT THOUGHT: "He has in our midst, in ourselves, it is not qualified for discussion." Bishop Whately.
- 11.41 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS: "Aunt" (Bruscia). "I wish I had my old Gal back" (Ye'nal). "I'm, You, Blackbird" (Gibson). "Tonight's my Night with Baby" (Mayer). "Mildred" (Ward). "It's a Little Spanish Tune" (Waynes). "Me too I-I-o" (Ha-Ha) (Wood). "He Ho the Murrin" (Brown). "A Little Joe" (Joe Berger). "Phyllis (Deppen). The Studio Orchestra hereinae solo. "The Adjutant" (Pitner). Mr. J. Aronson's concert for tonight, 12. Will H. Lister. "Planting a Flower" (Montague). "The Birth of the Opera" (Wilson). Miss Foy Todd: concert solo. "Somebody Somebody" (Sheffon and Lawrence). Mrs. C. T. Yarnes: novelties. "Springtime" (Aberdeen). The Studio Orchestra: contra-tenor solo. "Garden of Sunshine" (Licht). Miss Vera Parker: march. "The Sultanar" (Himmels). The Studio Orchestra.
- 11.50 p.m.—The "Daily Mail" news. Weather news. Close down.

the Commonwealth. Mr. J. F. F. Reid Editor of "Queensland Agricultural Journal".
 1.30 p.m.—Weather notes. Announcements.
 1.40 p.m.—Standard Time signal.

NIGHT SESSION
W.E.A. MUSIC CLASS.
 The Workers' Educational Association's Tutorial Classes in Music will be held in the Reception Hall at 8.40 this evening, and will be conducted by Mr. George Sampson, P.E.A.O. (City Organist).
 The object of holding the classes at 8.40 is to broadcast both the lectures and the music and to make available to a large audience the educational matter placed before the students.
 The classes will extend over a period of five months, and will be held twice on or two exceptions each Friday night.
 The ordinary lecture session which commences at 7.45 p.m. will be dispensed with and the classes will commence at that hour. The latter (Mr. Sampson) will lecture during the first portion of each evening, and the lessons will be illustrated by chamber music played by a stringed quartet as follows: Quartette: 2 Violins, viola, cello and piano; (Ramael Corbridge Taylor, Misses Valia Jefferson, Edith Lorrain, Gwen de Grant, Mary Jefferson, and Lorraine Collie); cello solo, Miss Mary Jefferson.
 Quartette: "Adagio Brillante" (Schumann), pianoforte; 2 violins, viola and cello.

7.45 p.m.—W.E.A. Tutorial Music Class, No. 1.

2.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
 2.30 p.m.—A RELAY: "The Sonata and its Development" by MISS FLORENCE HOOD. I.R.A.M.
 Note: "Symphony in D" (Haydn). WEST GULDFORD ORCHESTRAL SOCIETY (Hon. conductor, MISS WRIGHT, I.R.A.M. 2.0 p.m.—FROM THE STUDIO.
 Musical entertainments, including articles. "The 'Gardening News'" by MR. E. A. HARTNET, representing Moore, Dawson & Hartnett.
 3.00 p.m.—Special Local News Bulletin supplied by starting of "The Daily News" Newspaper Co.
 3.55 p.m.—Close down.

Saturday, April 2 2FC, SYDNEY

- EARLY MORNING SESSION.**
- 7 a.m.—"Big Ben" and announcements.
 - 7.15 a.m.—Studio music.
 - 7.40 a.m.—Official weather forecast, rainfall, temperatures, astronomical memoranda, shipping intelligence, mail services.
 - 7.55 a.m.—Live direct market, mining share market, retail quotations.
 - 7.55 a.m.—Wool sales, butcher's markets, interstate markets, produce markets.
 - 8.00 a.m.—"Spines Morning Herald" news service.
 - 8 a.m.—"Big Ben" Studio music.
 - 8.15 a.m.—Close down.
- MORNING SESSION.**
- 9.30 a.m.—Programme announcements.
 - 9.35 a.m.—Studio music.
 - 9.45 a.m.—25 minute sporting information by the JFC Racing Commissioner.
 - 10 a.m.—"Big Ben" and announcements.
 - 10.05 a.m.—"Spines Morning Herald" news service.
 - 10.30 a.m.—Studio music.
 - 10.45 a.m.—A serial story.
 - 11 a.m.—"Big Ben." Australian Press Association and Reuter's cable services.
 - 11.10 a.m.—Studio music.
 - 11.15 a.m.—A talk on Gardening by Mr. G. T. Lockley ("Redgum").
 - 11.50 a.m.—Close down.

4QG, BRISBANE

Queensland Radio Service.

Wave Length, 385 Metres.
 Friday

- MIDDAY SESSION**
- 1 p.m.—Market reports; weather information supplied by the Commonwealth Weather Bureau; News service supplied by "The Daily Mail" and "The Daily Standard".
 - 1.24 p.m.—From Hotel Carlton.
 - 1.30 p.m.—Lunch hour music played by Hotel Carlton Symphony Orchestra.
 - 1.35 p.m.—From the Observatory.
 - Standard Time signal.
 - 2 p.m.—Close down.
- AFTERNOON SESSION.**
- From Hotel Carlton.
 - 2.10 p.m.—Afternoon Tea Music, played by Hotel Carlton Symphony Orchestra.
 - From the Studio.
 - 2.45 p.m.—News Service supplied by "The Telegraph."
 - 3.00 p.m.—Close down.
- EARLY EVENING SESSION.**
- 6 p.m.—"Daily Standard" news. Weather information. Announcements.
 - 6.30 p.m.—"The Children's Service" Stories by "The Sandman."
 - 7.00 p.m.—Market reports. Stock reports. Lectures, "Agricultural Organisation within

6WF, PERTH

Westralian Farmer's.
 Wave Length, 1250 Metres.

- Friday.
- 12.30 p.m.—Tune in.
 - 12.35 p.m.—First Local News Bulletin.
 - 1.25 p.m.—Market reports. Cable.
 - 1.30 p.m.—Time signal from Perth Observatory.
 - 1.35 p.m.—Weather Notes supplied by the Meteorological Bureau of Western Australia.
 - 1.40 p.m.—Close down.
 - 1.45 p.m.—Musical programme.
 - 1.50 p.m.—Close down.
 - 2 p.m.—Tune in.
 - 2.05 p.m.—Musical evening for the kiddies by Aunt Evelyn and Uncle Henry, Leslie, Perry and Duff.
 - 2.35 p.m.—Stock and Share Intelligence. Market reports.
 - 2.45 p.m.—News supplied by courtesy of "The West Australian" Newspaper Co.
 - 3.00 p.m.—Time signal from Perth Observatory.

- MIDDAY AND AFTERNOON SESSION**
- 12.35 p.m.—Programme announcements.
 - 1.00 p.m.—"Big Ben." Weather intelligence.
 - 1.15 p.m.—Swek Exchange information.
 - 1.15 p.m.—"Evening News" midday news service.
 - 1.20 p.m.—Studio music.
 - NOTE: DIRECT FROM THE COURSE the Rossell Racing Club's Meeting will be described by Mr. E. J. Ball.
 - During the intervals of racing events, musical items will be given from the Studio and the Westworch Symphonic Jazz Orchestra, under the baton of Mr. Frederick Leighton, will play popular numbers.
 - 4.30 p.m.—Complete resume of the afternoon's events.
 - 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.—Mr. Tal O'Neill continues his series of stories for the young folk.
 - 6.40 p.m.—Dinner music.
 - 7 a.m.—"Big Ben." Complete sporting resume of the day's events.
 - 7.30 p.m.—"Evening News" late news service.
 - 7.55 p.m.—Weather intelligence. Studio music.

NIGHT SESSION.

7.40 p.m.—Programme arrangements.
 7.45 p.m.—FROM THE ROYAL AGRICULTURAL SOCIETY'S GROUNDS, SYDNEY.
 A description of the Corroboree which is being organised by the Sydney Hospital and Red Cross Association.
 Items by the Australian Light Horse Band, specially engaged from Goulburn, will play: (a) March, "Action Front" (Birkenborg); (b) Waltz, "Golden Grail" (Trusler).
 8 p.m.—"Big Ben."
 FROM THE MOSMAN TOWN HALL.
 Heard on the air for the first time Gulliver's delightful Comic Opera, "LILAC ROMANCE" (by arrangement with J. G. Williamson Ltd.), produced by the Mosman Musical Society.

9 p.m.—"Big Ben."
 FROM THE ROYAL AGRICULTURAL SOCIETY'S GROUNDS, SYDNEY.
 Further description of the Howbush Corroboree, interspersed with the following items played by the Australian Light Horse Band (Goulburn):
 (a) March, "Dawn of Freedom" (Himmer); (b) Selection, "The Sandstone Girl" (Robson).
 9.20 p.m.—FROM THE STUDIO.
 Miss Ellen Boyd, contralto.
 9.24 p.m.—Mr. Jack Lamsdaine, Songs at the Piano.
 9.28 p.m.—FROM THE ROYAL AGRICULTURAL SOCIETY'S GROUNDS, SYDNEY.
 Descriptions of the Corroboree and items by the Australian Light Horse Band:
 (a) Fox Trot, "Sweet Child" (Whitely); (b) Transverse Whistle, "Gullion Clock" (Hilbert).

(c) March, "B.R. and C.P." (Hime).
 9.40 p.m.—FROM THE STUDIO.
 Miss Ellen Boyd, contralto.
 9.53 p.m.—FROM THE WENTWORTH CAPE, CHURCH HILL, SYDNEY.
 The Wentworth Symphonic Dance Orchestra, conducted by Mr. Frederick Leighton.
 10 p.m.—"Big Ben."
 FROM THE STUDIO.
 Mr. Jack Lamsdaine, entertainer.
 10.8 p.m.—Celebrity records.
 10.15 p.m.—Miss Ellen Boyd, contralto.
 10.22 p.m.—FROM THE WENTWORTH CAPE, CHURCH HILL, SYDNEY.
 The Wentworth Symphonic Orchestra in popular numbers.

10.32 p.m.—Mr. Jack Lamsdaine, entertainer, from the Studio.
 10.45 p.m.—Celebrity records.
 11 p.m.—"Big Ben." Late sporting news and announcements.

11.10 p.m.—The Wentworth Symphonic Dance Orchestra in popular numbers until midnight.

12 midnight—"Big Ben."

National Anthem.

Close down.

2BL, SYDNEY

Saturday.

EARLY MORNING SESSION.

7.15 a.m.—G.P.O. Clock and Chimes.
 7.18 a.m.—Metropolitan Weather Forecast.
 7.17 a.m.—Musical Programme from the Studio.
 7.23 a.m.—Physical Training and Health Exercises.
 7.30 a.m.—G.P.O. Clock and Chimes.
 7.31 a.m.—Hints on Health.
 7.36 a.m.—Physical Training and Health Exercises.
 7.45 a.m.—G.P.O. Clock and Chimes.
 7.46 a.m.—Weather Report.
 7.47 a.m.—Broadcasters Special News Service.
 7.51 a.m.—G.P.O. Clock and Chimes, Close Down.

MORNING SESSION.

11.0 a.m.—G.P.O. Clock and Chimes.
 11.1 a.m.—Weather Report and Forecast by courtesy of the Government Meteorologist.
 11.1 a.m.—Sydney "Daily Telegraph" News Service.

11.20 a.m.—Women's Session, conducted by Mrs. Jordan; social notes.

11.30 a.m.—Mrs. Jordan replies to correspondence.

11.40 a.m.—Talk on "Simple Cooking for Children" by Mrs. Jordan.

12.0 p.m.—Musical Programme from the Studio.

12.10 p.m.—News from the "Sun" Cable Edition.

12.15 p.m.—G.P.O. Clock and Chimes.

12.31 p.m.—London Metal Quotations.

12.40 p.m.—Steam in rail by wireless.

12.50 p.m.—Weather report and forecast.

12.57 p.m.—Shipping information, arrivals and departures.

12.58 p.m.—Information re Interstate and Overseas Mail.

12.41 p.m.—News from the "Sun".

1.0 p.m.—G.P.O. Clock and Chimes.

1.1 p.m.—Musical Programme from the Studio.

1.14 p.m.—News from the "Sun".

1.20 p.m.—G.P.O. Clock and Chimes.

1.21 p.m.—Musical Programme from the Studio.

1.25 p.m.—Talk on sporting and athletic fixtures for the day, Lacrosse, Hockey, Golf, Football, Tennis, Baseball. During the afternoon sporting information will be broadcast by courtesy of the "Sun" Newspaper, interspersed with musical programme from the Studio.

4.20 p.m.—Resume of night's programme.

5.0 p.m.—G.P.O. Clock and Chimes.

5.1 p.m.—Resume of day's racing.

5.2 p.m.—Close down.

EARLY EVENING SESSION.

5.42 p.m.—G.P.O. Clock and Chimes.

5.47 p.m.—Dinah George and the Kiddies. Items will talk to the kiddies.

5.49 p.m.—Musical Programme from the Studio.

5.18 p.m.—Result of all sporting information, including Racing, Football, Tennis, Swimming, Sailing, Athletics, by courtesy of the "Sun".

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

5.30 p.m.—Programme broadcast from the Jemalan Caves.

3LO, MELBOURNE

Saturday.

MORNING SESSION.

THE STUDIO ORCHESTRA.

ARTHUR DOUGLAS, comedian.

HASTINGS AND ADAIR.

JOHN D. FITZGER, baritone.

CARTHY BROS.

THE PREMIER FOUR.

WALTER SMITH, contralto.

ADELE INMAN, soprano.

C. RICHARD CHUGG, flute solo.

Accompanied by ALFRED FORTUNE.

11.0 a.m.—STUDIO ORCHESTRA.

"Morning, Noon and Night in Vienna" (Ruppe).

11.10 a.m.—ARTHUR DOUGLAS, comedian:

"You glad I've married the wife" (Fyfe).

11.11 a.m.—HASTINGS AND ADAIR:

"Pal of my crane days" (Fyfe).

Factor:

Parody: "Sims' in a corner."

Dinah: "Don't say good-bye."

11.27 a.m.—JOHN D. FITZGER, baritone of the Rose Marie Company, by permission of J. Williamson, Ltd.:

"I've got a girl."

11.34 a.m.—STUDIO ORCHESTRA:

"Nuit d'Amour" (Nebel).

"Bygone Days" (Coates).

11.44 a.m.—CARTHY BROTHERS, in "Fun and Fiel."

11.51 a.m.—STUDIO ORCHESTRA:

"The Little Denmark" (Novello).

12 noon—TIME SIGNAL, British Official wireless news from Bighty. Radio's and the Australian Press Association Cables, Stock Exchange information, "Argus" and "Herald" news services.

12.30 p.m.—STUDIO ORCHESTRA:

"Altogether Suite" (Strauss).

12.40 p.m.—THE PREMIER FOUR:

"Magnolia Bloom" (Selected).

12.47 p.m.—WALTER SMITH, Contralto:

"Give me back my Heart" (Hartmann).

12.51 p.m.—ADELE INMAN, soprano:

"The Little Denmark" (Novello).

"Take your lute and sing" (Garke).

1.4 p.m.—STUDIO ORCHESTRA:

"Valse Tiberienne" (Haron).

1.24 p.m.—STUDIO ORCHESTRA:

"Summer Day Suite" (Coates).

1.34 p.m.—THE PREMIER FOUR:

Popular airs.

1.41 p.m.—C. RICHARD CHUGG, flute:

"Serenade" (Drigo).

1.48 p.m.—ADELE INMAN, soprano:

"Night Bird's Gooey" (Helf).

"Boat Song" (Ware).

1.55 p.m.—STUDIO ORCHESTRA:

"A Summer Day" (Wright).

2 p.m.—CLOSE DOWN.

Results of Westford, Dimboola, Mairdumple, Maindample and Wangaratta Races will be given as they come to hand.

2.30 p.m.—Description of Two-Year-Old Handicap, Epomeu Races, by "Market" of the "Sporting Globe."

AFTERNOON SESSION.

JOE ARONSON AND HIS SYNCO-SYMPHONISTS.

3 p.m.—Description of Epomeu Plate, by "Market" of the "Sporting Globe."

3.4 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Thinking of You" (Ash).

"Just a Little Love" (Donaldson).

"Just one more Kiss" (Owen).

"A cup of Coffee, a Sandwich and You" (Heger).

"Somebody's Lonely" (Davis).

"Mary-Ling Waltz of the Belis" (Britt).

"Ting-a-Ling" (Hysman).

3.10 p.m.—Description of Handicap Dash Steeple, Epomeu Races by "Market" of the "Sporting Globe."

3.15 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"The music we are together" (Campbell).

"Ruffeneddy, Piano Solo" (Bargy).

"Consolation" (Ginkley).

"Let's all Hooray" (Leslie).

"Hello Aloha" (Hear).

"The Original Black Bottom" (Henderson).

4 p.m.—Description of Epomeu Handicap by "Market" of the "Sporting Globe."

4.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Hello, Little Girl of my Dreams" (Berk).

"By the Sign of a Rose" (Fields).

"Sunday" (Miller).

(Selected).

4.30 p.m.—Description of Epomeu Purse, by "Market" of the "Sporting Globe."

4.35 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Angry" (Hranen).

"I wish I had one of Gal' hark" (Yellen).

"Bye, Bye, Blackbird" (Hixon).

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

4 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Sporting results.

5.40 p.m.—ALLEN'S HOOR, Answers to letters and birthday greetings.

5.55 p.m.—LITTLE MISS KOOKABURRA has a new name for her tiny friends, "Dear Kookaburra!" How do you like it? To-day, "Skurry" (the scent kittens) goes to a picnic; what happens? Well, Miss Kookaburra will tell you.

6.2 p.m.—GRACE JACKSON, contralto, has two little songs for you.

6.40 p.m.—THE MOANA LIA DUO will play to the children on this Hawaiian instruments.

4.17 p.m.—GRACE JACKSON will sing just once more.

THE TRUTH

ABOUT L.F. TRANSFORMER IMPEDANCE

- (a) Amplification with any valve and transformer depends greatly on the transformer impedance; the higher the transformer impedance the better the reproduction, particularly of the lower notes.

HENCE IT IS UNNECESSARY TO VARY THE IMPEDANCE OF THE TRANSFORMER TO MATCH THAT OF THE VALVE USED, ON THE CONTRARY, THE HIGHEST POSSIBLE TRANSFORMER IMPEDANCE SHOULD BE USED AT EVERY STAGE.

- (b) IMPEDANCE DEPENDS ON FREQUENCY, AND TO STATE TRANSFORMER IMPEDANCE WITHOUT STATING THE FREQUENCY AT WHICH IT IS MEASURED CONVEYS NOTHING.

A good transformer has a high impedance even at low frequencies to reproduce low notes satisfactorily. A transformer may have a high impedance at a comparatively high frequency, say 500, and yet be a bad transformer because the whole range of male and female speaking voices, as well as most of the fundamental musical notes, are at frequencies below 500.



RATIO 3.5 to 1
FOR USE IN BOTH
FIRST AND SECOND
STAGES

42/6

FERRANTI

INTERVALVE TRANSFORMERS

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6.24 p.m.—"LITTLE MISS KOOKABURRA" will now tell the next instalment of "Carol of Hollycane School." (Carol fails the Hookey team.)

6.35 p.m.—"Argus" and "Herald" news reviews. 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. S. Barrett, Ltd.

6.55 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd., Haymarket, Melbourne, and various Market prices of oranges and lemons, by the Victorian Central Citrus Association, Pty., Ltd. Fruit market reports by the Victorian Wholesale Fruitgrowers' Association, compiled by "The Fruit World," exclusive to B.I.O.

NIGHT SESSION.

Sponsors:

Mr. PYKE.
MR. F. CHAPMAN.
DR. LEACH.
REV. KENNETH HENDERSON.
THE BRUNSWICK CITIZENS' BAND.
"CHECK" HAYES, The Talkative Chap.
OSBOURNE and PERRYER.
TAYLOR and SUMMERS.
GRACE JACKSON, Contralto.
THE PREMIER FOUR.
ADELE INMAN, Soprano.
HASTINGS and ADAIR.
THE STUDIO ORCHESTRA.
Announcer..... MAURICE BUDLEY.
Accompanist..... AGNES FORTUNE.

7.15 p.m.—MR. PYKE, Delegate to the Danzig Republic Congress.
"Espanola."

7.30 p.m.—MR. F. CHAPMAN.
"Port Philip—Sunderland—Zabour."

7.44 p.m.—DR. J. A. LEACH.
"Chromatics or Shags."

8 p.m.—BRUNSWICK CITY BAND, conductor, Mr. Hugh Brown.
Overture, "Piano Duet" (Suppe).

8.10 p.m.—"CHECK" HAYES, The Talkative Chap.
"Hints to Homopriests."

8.17 p.m.—STUDIO ORCHESTRA:
"Belle Romanette" (Kretzky).

8.27 p.m.—OSBOURNE and PERRYER:
Cockney Canon.

8.37 p.m.—BRUNSWICK CITY BAND:
March, "The Black Night" (Rimmer).

8.45 p.m.—TAYLOR and SUMMERS, English comedians.
Songs and Impromptus.

8.52 p.m.—REV. KENNETH HENDERSON:
"Wireless in Schools—Stimulating the Pupil."

9 p.m.—STUDIO ORCHESTRA:
"By Desert Ways" (Loughboro).

9.12 p.m.—GRACE JACKSON, contralto:
"My Dear Soul" (Sanderson).
"Philosophy" (Kammell).

9.19 p.m.—BRUNSWICK CITY BAND:
Selection, "British Crown of Song" (Rimmer).

9.30 p.m.—THE PREMIER FOUR:
"Where'd you get those eyes?"
"There never was a pal."

9.41 p.m.—STUDIO ORCHESTRA:
"First Symphony" (Beethoven).

9.51 p.m.—British Official Wireless News from Rugby. Meteorological information. Announcements.

10 p.m.—ADELE INMAN, soprano:
"Old-fashioned Wif" (J. Kern).
"Now sleeps the crimson petal" (Quilter).

10.5 p.m.—BRUNSWICK CITY BAND:
Fantasia, "Three Blind Mice" (Douglas).

10.16 p.m.—THE PREMIER FOUR:
"Modern Melodies."

10.23 p.m.—BRUNSWICK CITY BAND:
Selection, "The Chic Choo."

10.33 p.m.—HASTINGS and ADAIR:
"A little nonsense and a Sketch."

10.43 p.m.—STUDIO ORCHESTRA:
"Hymn" (Handel).

10.50 p.m.—"Argus" News service. Sporting results.

11 p.m.—OUR GREAT THOUGHT:
A sound direction is not so much indicated by never making a mistake as by never repeating it.—Bovee.

11.3 p.m.—JOE ARONSON and HIS GYMNASTICISTS:

"Two 11s Be Happy" (Friend).
"Pleas'dly" (Friend).
"Blowing off steam" (Dave).
"No Feelin'" (Grove).
"Indian Love Call" (Friend).
"Rose Marie" (Friend).
"Gimme a Little Kiss, Will Ya Dink" (Arthur).
"Any Ice today, Lads?" (Ballard).
"Princess Retta's Lullaby" (Schaum).
"Pie, Fire, Fire: turn the Time on Me" (Gaz).
"Kalinka" (Tobias).
"Froggie" (Whiting).
"Nephtalian Nights" (Zamenchik).
"Smiling Eyes" (Howard).
"Hi Diddle Diddle" (Conn).
"At Peace with the World" (Darwin).
"Inside a Little Bit" (Schenk).

NO MIDDAY TRANSMISSION.

AFTER-NOON SESSION.
CHURCH SERVICE.

The complete service will be relayed from the Seventh Day Adventist Church at Burwood.

3.30 p.m.—Opening hymn, "Psalm of Praise" (Samuel Smith); Invocation; Offertory Organ solo; Scriptures reading, Luke 21: 20-28; Prayer; Welcome, "Thee, Me" (Broadbent); sermon, "Time's Mighty Foundation," Mr. W. Muelin hymn, "Let His Gospel" (Hastings); quartette, selected hymn, "Lead Me, Saviour" (Davies); Benediction.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.35 p.m.—Children's session, Bedtime stories by "Uncle Ben" and "Uncle Jim".

7.15 p.m.—Sporting news.

NIGHT SESSION.

7.30 p.m.—Sailing Notes by "Tiler".

7.40 p.m.—Announcements.

7.45 p.m.—Pym, the Observatory:
Standard time signal.

7.45 p.m.—From the National Speedway:
A description of the motor cycle races.

7.55 p.m.—From the Gaiety Theatre, Townsville:
Orchestra music.

8.30 p.m.—From the National Speedway:
Motor cycle races.

9.20 p.m.—From Lygon's Ballroom:
Dance music.

10 p.m.—From the Studio.
"The Sydney Mail" news service. Weather news.
Close down.

6WF, PERTH

11 noon.—Time in.

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

1.15 p.m.—"Local News Bulletin," Market reports.

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

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

1.30 p.m.—Close down.

7 p.m.—Time in.

7.15 p.m.—"Heads Perry" with the Radio Bird.

7.28 p.m.—Children's story, "Road Australian," introducing "Professor Kookaburra," told by "Auntie Nora."

7.30 p.m.—Sports results supplied by courtesy of "The Mirror" Newspaper Co.

7.35 p.m.—Sailing reports.

7.45 p.m.—Forecast by courtesy of "The West Australian" Newspaper Co.

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

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

8.30 p.m.—Talk, "Economic Value of Leds" (Part 1), by MR. F. LAWSON-WHITELOCK.

8.45 p.m.—COMFORT NIGHT.
Concert relayed from the Billy Edwards Music Warehouse, Murray Street, Perth.

10 p.m.—Second Local News Bulletin, supplied by courtesy of "The Daily News" Newspaper Co.

Sports results, supplied by courtesy of "The Mirror" Newspaper Co.

Ship's weather gauge announcements.
Weather report and forecast.

10.30 p.m.—Close down.

Sunday, April 3
2FC, SYDNEY

MORNING SESSION.

6.55 a.m.—Programme announcements.

11 a.m.—Big Ben.—From St. Stephen's Presbyterian Church, Phillip Street, City. The morning service conducted by the Rev. Hugh Patten.

12.15 p.m.—From the Studio—News Rem.

12.30 p.m.—Close down.

AFTERNOON SESSION.

2.00 p.m.—Programme announcements.

2.35 p.m.—The Rev. J. McKelvie, M.A., President of the Australian National Sunday School Council, will give a talk in connection with the National S.S. Convention.

2.50 p.m.—From the Bond Studio, Zoological Gardens, Taxonomy Park.

A musical programme by the H.M.S. "Resolute" Band, by arrangement with the Trustees of the Zoological Gardens.

4.35 p.m.—From the Studio.—
Mr. Walter Thurston, well-known musician, will continue his series of travel talks, dealing on this occasion with his visit to Europe.

6 p.m.—"Big Ben." Close down.

EVENING SESSION.

6 p.m.—"Big Ben." Programme announcements.

9.3 p.m.—Mr. Clyde Thorpe, violinist, "Seven notes" (Drdak).

9.18 p.m.—Mr. H. Willis, violinist, "Minuet" (Pepuro-Kreutzer).

9.35 p.m.—Mr. Clyde Thorpe and Mr. H. Willis, violin duet:
"Sole of Spring" (Beach).

9.50 p.m.—Eric Langar, well-known painter will commence a series of art talks. His subject tonight is: "How to paint a picture."
"Picasso."

10.30 p.m.—Mr. Clyde Thorpe, violinist, "Rise Lagoon" (Müllerer Winterthurn).

10.45 p.m.—Mr. Herman Willis, violinist, "Gokarner" (Drdak).

10.55 p.m.—Mr. Clyde Thorpe and Mr. H. Willis, violin duet:
"Minuet" (old style) (Wentzel).

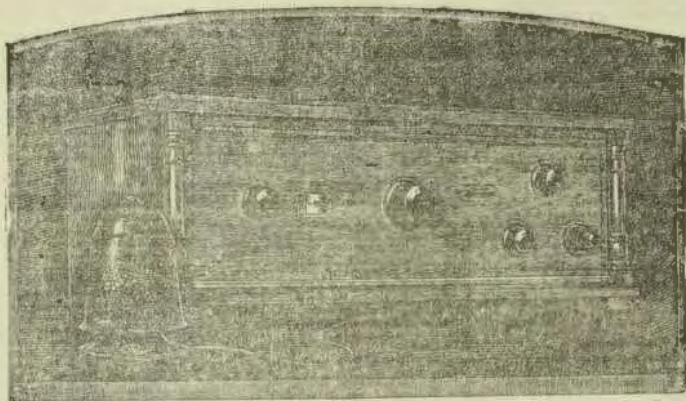
11.05 p.m.—From the Lygon Hall, Pitt Street, Sydney.
Organ Solo.

7 p.m.—The Evening Service of the Central Methodist Mission, conducted by the Rev. H. C. Ferguson.

8.30 p.m.—From the Studio.—The Australian Light Horse Band (Goulburn):
March, "Washington Grows" (Gratfalls).
Descriptive Fantasia, "The Smiddy in the Woods" (Mauristin).

8.41 p.m.—Mr. Stella Wilson, Principal soprano of the Gilbey and Sullivan Company (the arrangement with J. C. Williamson, Ltd.).

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DAVID JONES'

For Service

Sydney

8.50 p.m.—The Australian Light Horse Band (Goulburn).
 Overture, "The Midway" (Sullivan).
 "Marching '90, God Our Hero" (Grove).
 9.1 p.m.—Mr. James Hay, principal tenor of the Gilbert and Sullivan Company (by permission of J. C. Williamson, Ltd.).
 9.12 p.m.—The Australian Light Horse Band (Goulburn).
 Cornet solo, "The Pilgrims" (Hullis).
 Overture, "Pots and Peasants" (Suppe).
 9.20 p.m.—Miss Stella Wilson, principal soprano of the Gilbert and Sullivan Company.
 9.25 p.m.—The Australian Light Horse Band (Goulburn).
 "William Tell" (Rooster).
 9.50 p.m.—Mr. James Hay, principal tenor of the Gilbert and Sullivan Company.
 9.54 p.m.—The Australian Light Horse Band (Goulburn).
 Cornet solo, "Crescra" (Diemer).
 9.55 p.m.—Miss Stella Wilson and Mr. James Hay, vocal duet.
 10.2 p.m.—The Australian Light Horse Band (Goulburn).
 Fantastic Pastoral, "A Rural Wedding" (Cape).
 10.11 p.m.—National Anthem.
 Close down.
 At the piano (Sunday night only), Mr. Horace Keata.

2BL, SYDNEY

Sunday.

10.45 a.m.—Special News Service.
 11.0 a.m.—Service Broadcast from Bandwick Presbyterian Church.
 11.15 p.m.—Lentini Broadcast from Bandwick Presbyterian Church.
 11.45 p.m.—Lecture by Cornelia Williams.
 12.0 p.m.—Bible Class Conducted by Mr. W. Coffey (Herald).
 1.15 p.m.—Class Solo.
 1.45 p.m.—Children's Service.
 1.50 p.m.—Service Broadcast from Petersham Baptist Church.
 2.30 p.m.—From the Bible, Miss Elsie Findlay (Soprano).
 2.47 p.m.—Broadcasters' Tea.
 2.47 p.m.—Mr. Peter Sutherland (Bass).
 2.54 p.m.—Duet, Miss Elsie Findlay and Mr. R. M. Baxter.
 3.55 p.m.—Resume of Following Day's Programme.
 5.0 p.m.—G.P.O. Clock and Chimes; Weather Report and Forecast by courtesy of Mr. E. J. Hayes, Government Meteorological.
 5.2 p.m.—Miss Amy Gutting (Contralto).
 5.5 p.m.—Mr. Bruce Carter (Cello Solo).
 6.16 p.m.—Mr. R. M. Baxter (Tenor).
 5.23 p.m.—Inst. Miss Amy Gutting and Mr. Peter Sutherland.
 6.35 p.m.—Broadcasters' Tea.
 6.57 p.m.—Miss Elsie Findlay.
 6.44 p.m.—Mr. Peter Sutherland.
 7.41 p.m.—Miss Dulcie Blair (Violin Solo).
 7.58 p.m.—Miss Amy Gutting (Soprano).
 8.12 p.m.—Mr. R. M. Baxter.
 8.22 p.m.—National Anthem.

3LO, MELBOURNE

Sunday.

MORNING SERVICE.

10.30 a.m.—BELLS OF ST. PAUL'S CATHEDRAL.
 10.45 a.m.—British Official Wireless News from Rugby, and Express Train information.
 11 a.m.—SERVICE FROM FIRST CHURCH OF CHRIST, SCIENTIST, Melbourne.
 Voluntary (Organ), "Invocation" (Salmo), Hymn, No. 162; "God thy heavenly armor on."
 Sentential Reading, Daniel 4: 1-5, 15-17.
 Silent Prayer, followed by the audible recitation of the Lord's Prayer, with its spiritual interpretation from page 10 of the

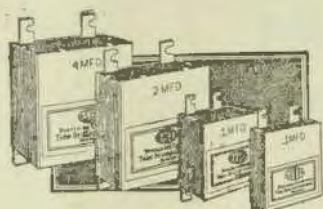
Christian Science Text Book, "Science and Health, with Key to the Scriptures," to be read.
 Hymn, 195, "Almighty, show me how to go" (Words by Mary Baker Eddy).
 Announcements.
 Solo, "HOTTY HIMPHERYS" (Words by my Secretary).
 (Written by Mary Baker Eddy).
 LESSON SERMONS: "OMNIAITY," Offertory (Organ), "Adrian F. Major" (Haydn).
 Hymn, 271, "Praise be to His Congregation," Reading: Scientific Statement of Being from page 468, of the Christian Science Text Book, and the extractive Scripture according to 1 John 3: 1-4.
 BENEVOLENCE.
 1. Pines, 3; 10, 11.
 PRAISE (Organ), "Ardable C. Minor" (Watts).
 12.18 p.m.—Close down.

AFTERNOON SESSION

2 p.m.—Pleasant Sunday Afternoon Service (Invitation from CENTRAL MISSION).
 WELSHY GUTHRIE, Lorraine Street, Melbourne.
 Chairman, REV. J. H. CAIN.
 Organist, Selection (Mr. G. M. WILLIAMS, Contributor).
 Hymn, "King of Kings, O Lord of Hosts" (Fryer, REV. C. J. VAN BENSON).
 Hymn, "God Bless the Native Land" (Solo, MISS MAY ALBERTA).
 Organist, Selection.
 Solo, MISS MAY ALBERTA.
 Nations, Offering and Liturgical Selection.
 Address, Rev. J. H. CAIN, 20-21, 22-23, 24-25, 26-27, 28-29, 30-31, 32-33, 34-35, 36-37, 38-39, 40-41, 42-43, 44-45, 46-47, 48-49, 50-51, 52-53, 54-55, 56-57, 58-59, 60-61, 62-63, 64-65, 66-67, 68-69, 70-71, 72-73, 74-75, 76-77, 78-79, 80-81, 82-83, 84-85, 86-87, 88-89, 90-91, 92-93, 94-95, 96-97, 98-99, 100-101, 102-103, 104-105, 106-107, 108-109, 110-111, 112-113, 114-115, 116-117, 118-119, 120-121, 122-123, 124-125, 126-127, 128-129, 130-131, 132-133, 134-135, 136-137, 138-139, 140-141, 142-143, 144-145, 146-147, 148-149, 150-151, 152-153, 154-155, 156-157, 158-159, 160-161, 162-163, 164-165, 166-167, 168-169, 170-171, 172-173, 174-175, 176-177, 178-179, 180-181, 182-183, 184-185, 186-187, 188-189, 190-191, 192-193, 194-195, 196-197, 198-199, 200-201, 202-203, 204-205, 206-207, 208-209, 210-211, 212-213, 214-215, 216-217, 218-219, 220-221, 222-223, 224-225, 226-227, 228-229, 230-231, 232-233, 234-235, 236-237, 238-239, 240-241, 242-243, 244-245, 246-247, 248-249, 250-251, 252-253, 254-255, 256-257, 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1118-1119, 1120-1121, 1122-1123, 1124-1125, 1126-1127, 1128-1129, 1130-1131, 1132-1133, 1134-1135, 1136-1137, 1138-1139, 1140-1141, 1142-1143, 1144-1145, 1146-1147, 1148-1149, 1150-1151, 1152-1153, 1154-1155, 1156-1157, 1158-1159, 1160-1161, 1162-1163, 1164-1165, 1166-1167, 1168-1169, 1170-1171, 1172-1173, 1174-1175, 1176-1177, 1178-1179, 1180-1181, 1182-1183, 1184-1185, 1186-1187, 1188-1189, 1190-1191, 1192-1193, 1194-1195, 1196-1197, 1198-1199, 1200-1201, 1202-1203, 1204-1205, 1206-1207, 1208-1209, 1210-1211, 1212-1213, 1214-1215, 1216-1217, 1218-1219, 1220-1221, 1222-1223, 1224-1225, 1226-1227, 1228-1229, 1230-1231, 1232-1233, 1234-1235, 1236-1237, 1238-1239, 1240-1241, 1242-1243, 1244-1245, 1246-1247, 1248-1249, 1250-1251, 1252-1253, 1254-1255, 1256-1257, 1258-1259, 1260-1261, 1262-1263, 1264-1265, 1266-1267, 1268-1269, 1270-1271, 1272-1273, 1274-1275, 1276-1277, 1278-1279, 1280-1281, 1282-1283, 1284-1285, 1286-1287, 1288-1289, 1290-1291, 1292-1293, 1294-1295, 1296-1297, 1298-1299, 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2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090

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S-B.

6WF, PERTH

Sunday.

- 10.45 a.m.—Tune in.
11 a.m.—Morning Church service.
8.10 p.m.—Tune in.
8.15 p.m.—Lionel Logg, Joe Sogoff will give a short talk on "History of the Zoo."
8.30 p.m.—R.E.L. Band and Vocal Concert relayed from the Zoological Gardens, South Perth. Conductor, MR. GEO. E. MELLIOR.
9 p.m.—Close down.
9.5 p.m.—Tune in.
7 p.m.—Children's Bedtime Stories.
7.30 p.m.—Evening Church Service.
8.45 p.m.—Perth City Band and Vocal Concert relayed from the Government Gardens, Perth. Conductor, MR. W. A. HALLVORSEN.

Monday, April 4
2FC, SYDNEY

MIDDAY SESSION.

- 12 noon.—"Big Ben" and programme announcements.
12.30 p.m.—Stock Exchange, 3rd ed.
12.45 p.m.—Official weather forecast, rainfall, temperature, astronomical phenomena, shipping intelligence, mail services.
12.45 p.m.—Radio music.
12.55 p.m.—Summary of "Today's Sporting Herald" news section and tables.
12.55 p.m.—Studio music.
1.00 p.m.—Miss Eva Webb-Jones, soprano.
1.05 p.m.—"Big Ben" Weather Intelligence.
1.10 p.m.—"Evening News" midday news review.
Producers' Distributing Society's report.
1.20 p.m.—Studio music.
1.25 p.m.—Rick Ketchum, 2nd ed.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Miss Eva Webb-Jones, soprano.
1.45 p.m.—Studio music.
1.50 p.m.—"Big Ben" Close down.

AFTERNOON SESSION.

- 2.0 p.m.—"Big Ben" and programme announcements.
2.5 p.m.—Mr. Lillie Haddy, violinist, "Scherzo-Tarantelle" (Wolfgang).
3.10 p.m.—Mr. S. H. Hradsky will deliver a talk on "Horns and its Allies."
3.15 p.m.—Miss Joyce Gillespie, soprano, "When You Are There" (Tate).
3.30 p.m.—Marching music for school children.
3.40 p.m.—From Farmer's Ten Rooms—Miss Frances Butler, soprano, "The Hills of South" (Fletcher).
3.45 p.m.—Mr. Bill Hanny, violinist, "Casamento" (Donizetti). From the Studio.
3.50 p.m.—Vocal recital.
3.55 p.m.—"Big Ben" From Farmer's Ten Rooms—Miss May Craven, mezzo, "Good Bye You" (Dikshoff).
4.5 p.m.—Studio music.
4.10 p.m.—Miss Joyce Gillespie, soprano, "The Sky and the Clouds" (V. Harold).
4.15 p.m.—Studio music.
4.20 p.m.—From Farmer's Ten Rooms—Miss Frances Butler, soprano, "My Bird of April Years" (Bosley).
4.25 p.m.—Studio music.
4.40 p.m.—From Farmer's Ten Rooms—Miss May Craven, mezzo, "Love's Conversation" (Hayward).
4.45 p.m.—Stock Exchange, 3rd ed.
4.48 p.m.—Studio music.
5 p.m.—"Big Ben" Close down.

EARLY EVENING SESSION.

- 8.45 p.m.—The changes of 2FC.
9.00 p.m.—The "Radio Man" talks to the children.
9.20 p.m.—A story for the older ones.
9.40 p.m.—Dance music.
7 p.m.—"Big Ben" Late sporting news.

- 7.10 p.m.—Dulcetto's market report, wool, 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 section.

NIGHT SESSION.

- 8.00 p.m.—Programme announcements.
8.10 p.m.—The final talk on the "Art of Public Speaking" by the Rev. F. H. Howard. Subject: "The Use of the Voice."
8.20 p.m.—"Big Ben" From the Haymarket Theatre, George Street, Sydney. Theme by the Operatic Orchestra under the baton of Mr. Stanley Foster.
8.32 p.m.—From the Studio—Mr. Ernest Archer, tenor, "Karloli Home" (German).
8.40 p.m.—The Austral Trio—Miss Daisy Richards, violinist, Mr. Alexander Sverjinski, piano, Mr. Van der Klei, cellist.
(a) "Minna in E-Flat" (Boethoven).
(b) "Hondo Alla Turca" (Mozart).
8.45 p.m.—Mr. J. Van de Velde introduces Mr. and Mrs. Gidd.
8.48 p.m.—Mr. Ernest Archer, tenor, "In the Garden of My Heart" (Hall).
8.55 p.m.—Mr. E. J. Van de Velde, in connection with his series of public talks, "Know Your Own Country" will give an illustrated lecture covering his recent flight in an aeroplane over Sydney. This account will be detailed in four parts, and pictures of the prominent views have been published in today's issue of the "Evening News."
9.0 p.m.—From the Haymarket Theatre, vocal part.
9.20 p.m.—From the Studio—The Austral Trio.
Miss Daisy Richards, violin.
Mr. Alexander Sverjinski, piano.
Mr. Van der Klei, cellist.
(a) "Slow Valse" (Carmel).
(b) "Polish Dance" (Schubert).
9.30 p.m.—Mr. E. J. Van de Velde, "Know Your Own Country," Part Two.
9.40 p.m.—The Austral Trio.
Miss Daisy Richards, violin.
Mr. Alexander Sverjinski, piano.
Mr. Van der Klei, cellist.
(a) "Serenade" (Haydn).
(b) "Melody" (Mozkowsky).
(c) "The Woodymph" (Lind).
9.52 p.m.—Mr. Ernest Archer, tenor.
(a) "Hills of Bellary" (Phillips).
(b) "Bedouin" (Schubert).
10.0 p.m.—Mr. E. J. Van de Velde, "Know Your Own Country" talk, Part Three.
10.17 p.m.—Miss Dorothy Dewar, soloist:
(a) "Sweet Hawaiian Serenade" (O'Haugan).
(b) "Be Made You Happy when You Made Me Cry" (Donaldson).
10.20 p.m.—From the Haymarket Theatre, George Street, Sydney. Orchestral Roma under the direction of Mr. Stanley Foster.
10.30 p.m.—From the Studio—Mr. E. J. Van de Velde's final installment of the "Know Your Own Country" talk.
10.40 p.m.—Miss Dorothy Dewar, soloist.
"Mary Lou" (Faire).
10.48 p.m.—Dance Music. Late news and entertainment.
11 p.m.—"Big Ben" National Anthem.
Close down.

2BL, SYDNEY

Monday.

- EARLY MORNING SESSION.
7.25 a.m.—G.P.O. Clock and Chimes.
7.40 a.m.—Melropolitan Weather Report.
7.45 a.m.—Musical Programme from the Studio.

- 7.55 a.m.—Physical Training and Health Exercises.
7.58 a.m.—G.P.O. Clock and Chimes.
8.01 a.m.—Hime on Italy.
8.04 a.m.—Typical training and Health Exercises.
8.06 a.m.—G.P.O. Clock and Chimes.
8.10 a.m.—Weather Report.
8.15 a.m.—Broadcasters' Special News Service.
8.20 a.m.—G.P.O. Clock and Chimes; close down.

MORNING SESSION.

- 8.40 a.m.—G.P.O. Clock and Chimes.
8.41 a.m.—Weather Report.
8.43 a.m.—Musical Programme from the Studio.
8.48 p.m.—News Service from the "Daily Telegraph."
8.50 a.m.—Musical Programs from the Studio.
8.55 a.m.—G.P.O. Clock and Chimes.
8.57 a.m.—News from the "Daily Telegraph."
8.58 a.m.—Radio Market Report.
8.59 a.m.—Fish Market Report.
9.00 a.m.—Vegetable Market Report.
9.01 a.m.—Fruit Market Report.
9.02 a.m.—London Dairy P.M. Egg and Poultry Market Report.
9.05 a.m.—Shipping call by wireless.
9.10 a.m.—Information re Interstate and Overseas Mail.
9.12 a.m.—Shipping Information—arrivals and departures.
9.15 a.m.—Women's Section. Talk by Miss Gwen Varley. Broadcasters' Women's sports Assembly on Archery.
9.15 a.m.—Social Notes by Mrs. Jordan.
9.16 a.m.—Mrs. Jordan replies to correspondents.
9.20 a.m.—Talk by Mrs. Jordan on "How to choose a good fur."
9.24 p.m.—G.P.O. Clock and Chimes.
9.25 a.m.—Stock Exchange Calls.
9.28 p.m.—"Sun" Newspaper News Service.
9.35 a.m.—Hiller's Instrumental Quartet—Attention, Varsity Chorus.
9.36 a.m.—G.P.O. Clock and Chimes.
9.37 p.m.—Weather Report and Forecast.
9.38 p.m.—Stock Exchange Calls.
9.39 p.m.—News from the "Sun."
9.41 a.m.—Musical Programme from the Studio.
9.45 p.m.—G.P.O. Clock and Chimes; close down.

AFTERNOON SESSION.

- Racing information broadcast by courtesy of the "Sun."
9.55 p.m.—G.P.O. Clock and Chimes.
9.57 a.m.—Weather Report.
9.58 p.m.—Social Notes from the "Sun."
9.59 a.m.—News from the "Sun."
10.00 a.m.—Musical Programme from the Studio.
10.05 p.m.—News from the "Sun."
10.10 p.m.—Musical Programs from the Studio.
10.15 p.m.—News from the "Sun."
10.18 p.m.—G.P.O. Clock and Chimes.
10.20 p.m.—Musical Programme from the Studio.
10.25 p.m.—Serial Story entitled "The Durdur."
10.30 p.m.—G.P.O. Clock and Chimes.
10.31 p.m.—Musical Programme from the Studio.
10.45 p.m.—Producers' Distributing Society's Fruit and Vegetable Market Report.
10.50 p.m.—Shipping Information when available.
10.55 p.m.—Day's Racing Results on Race Day.
10.58 p.m.—News from the "Sun."
1.00 p.m.—Review of public programmes.
1.05 p.m.—G.P.O. Clock and Chimes; close down.
EARLY EVENING SESSION.
5.45 p.m.—G.P.O. Clock and Chimes.
5.48 p.m.—Dance George and the kiddies.
6.40 p.m.—Musical Programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7.0 p.m.—G.P.O. Clock and Chimes. Australian Mercantile Land and Finance Co.'s Report: Weather Report: Producers' Distributing Society's Fruit and Vegetable Market Report: Stock Exchange Report: Oats and Potatoes Report: "Sun" Dairy Producer Report ("Sun"); Primary Producers' Newspaper Report on Linton Butter Market.
7.15 p.m.—Country News from the "Sun."

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EVENING SESSIONS.

- 8.0 p.m.—G.P.O. Clock and Chimes; Broadcasters' Typical Chorus.
 8.45 p.m.—Newtown Hand Broadcast from Industrial Hall, Newtown.
 9.23 p.m.—Mr. Robert A. Morris (Tenor).
 9.30 p.m.—Mills, Jessie (Soprano).
 9.37 p.m.—Mr. Dan Osborne (Descriptive Vocalist).
 9.45 p.m.—Miss Jessie Cooke (Contralto).
 9.52 p.m.—Mr. Bert Warne (Comedian).
 9.59 p.m.—G.P.O. Clock and Chimes; Resumé of Following Day's Programme; Weather Report and Forecast by courtesy of Mr. C. J. Mars, Government Meteorologist.
 10.4 p.m.—Mr. Stan Cartmel (Comedian).
 10.15 p.m.—Newtown Hand.
 10.19 p.m.—Mr. Robert A. Morris.
 10.29 p.m.—Mills, Jessie.
 10.48 p.m.—Osborne and Warne.
 10.55 p.m.—Miss Jessie Cooke.
 11.5 p.m.—Mr. Stan Cartmel.
 10.12 p.m.—The Amateurs' 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

Monday.

MID-DAY SESSION.

- THE STUDIO ORCHESTRA.
 HUXHAM SERENADES.
 UNIVERSITY CONSERVATORIUM STUDENTS.
 GRACE JACKSON, contralto.
 TARMA TIERNAN, Cello.
 BERTHA JORGENSEN, Violin.
 Accompanists: AGNES FORTUNE
 Arranger: EUGENE HIDDLEY
 "FROM OUT OF THE SILENCE."
 12 noon.—Time Signal. British Official Wireless News from Rugby, Berlin and the Australian Press Association Cables, Stock Exchange Information, "Argus" and "Herald" news service.
 12.29 p.m.—HUXHAM SERENADES:
 Quartet: "Roses"
 EDITH HUXHAM, DOLLY BURDETT,
 BERN MILLAR, HUGH HILTHAM.
 Bass Solo, "Mourning of Mourning"
 BERN MILLAR.
 BERTHA JORGENSEN, violin:
 "Polonaise" (Hamm).
 Romantic Quartet, "What Mary Had"
 THE SERENADE QUARTETTE.
 Soprano Solo, "Thank God for a Garden"
 EDITH HUXHAM.
 STUDIO ORCHESTRA.
 "Bismarck" (Schubert).
 Operatic Quartet:
 "The Fatti Varsi" (Patterson)
 THE SERENADE QUARTETTE.
 12.40 p.m.—Stock Exchange reports.
 12.50 p.m.—A MUSICAL HALF-HOUR. Arranged and animated by MR. J. BUTTON. CROW of the Melbourne University Conservatorium.
 MARSHALL SUMNER, Pianoforte:
 "Devotion" (Schumann-Liszt).
 "Robinson Danco" (Naxos).
 ETHEL FORSHAW, soprano:
 "Chanson de Erlanr" (Goldard).
 EUNICE GREGORY, violin:
 "The Swan" (Naxos).
 "Gavotte" (Gosse).
 ETHEL FORSHAW, soprano:
 "Page's Road Song" (Kovell).
 "The Violin Player" (Horn).
 EUNICE GREGORY, violin:
 "Tramont" (Schumann).
 "Memento" (Horn).
 MARSHALL SUMNER, Pianoforte:
 "Naisa Waltz from Ballet Music" (Heller-Dubnany).
 1.10 p.m.—STUDIO ORCHESTRA:
 "Raymond Overrize" (Thomas).
 1.20 p.m.—Meteorological information, Shipping Intelligence, Weather forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports.

- 1.24 p.m.—GRACE JACKSON, contralto:
 "Carissima" (Penn).
 "A Bowl of Honey" (Connaghy Clarke).
 1.33 p.m.—TARMA TIERNAN, Cello:
 "Favourite" (Vieuxtemps).
 1.40 p.m.—STUDIO ORCHESTRA:
 Evening on the Ranch (Hahlberg).
 1.45 p.m.—GRACE JACKSON, contralto:
 "By the Waters of Minnetonka" (Lizars).
 "Oh, Whistle" (Old Scotch).
 1.52 p.m.—Description of AGMILLIAN HANDICAP HURDLE, Moonee Valley Races by "Market" of the "Sporting Globe."
 2.0 p.m.—Description of HOLLYMOUNT HURDLE, Moonee Valley Races, by "Market" of the "Sporting Globe."
 Class down.

AFTERNOON SESSION.

- Speakers:
 MRS. DOROTHY WALK, MISS FLORA PELL.
 THE STUDIO ORCHESTRA.
 TAYLOR AND SUMMERS, English Comedians.
 ALICE MADIGAN, pianoforte.
 ELLEN STARR, soprano.
 BERTHA JORGENSEN, violin.
 Accompanists: AGNES FORTUNE
 Arranger: EUGENE HIDDLEY
 "THE WALRUS SAID."
 2 p.m.—Description of BOTHWELL HANDBALL STEEPLE, Moonee Valley Races, by "Market" of the "Sporting Globe."
 2.05 p.m.—STUDIO ORCHESTRA:
 "Ballet Suite" (Ramus-Monier).
 2.15 p.m.—MRS. DOROTHY WALK:
 Homeric.
 2.30 p.m.—TAYLOR AND SUMMERS:
 English Comedians:
 "Bite of Fish."
 2.40 p.m.—Description of EIGHT HOURS' DAY HANDBALL, by "Market" of the "Sporting Globe."
 2.48 p.m.—ALICE MADIGAN, pianoforte recital:
 "Etude Mignonne" (Schubert).
 "Concert Waltz" (Schubert).
 "Prelude in E Minor" (MacDowell).
 "Hexatonic" (MacDowell).
 2.55 p.m.—STUDIO ORCHESTRA:
 "Rubevile Suite" (Lask).
 3.05 p.m.—ELLEN STARR, soprano:
 "Shadow Song" (Meyerbeer).
 "The Wren" (Benedict).
 3.15 p.m.—BERTHA JORGENSEN, violin:
 "Fratric Fencer" (McMillan).
 3.20 p.m.—Description of KNOW HANDICAP, Moonee Valley Races, by "Market" of the "Sporting Globe."
 3.25 p.m.—STUDIO ORCHESTRA:
 "La Espagnola" (Moses-Tobias).
 3.30 p.m.—MISS POKAL PELL, Inspector of Schools, Education Department, Melbourne:
 "Domestic Economy."
 3.45 p.m.—"Herald" news service. Stock Exchange information. Accidents for SUNBURY.
 3.50 p.m.—Description of MACDONOLD WELTER HANDICAP, Moonee Valley Races, by "Market" of the "Sporting Globe."
 4 p.m.—Class down.

EVENING SESSION.

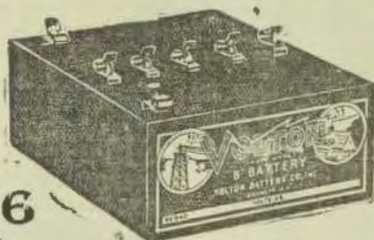
- 8.40 p.m.—CHILDREN'S HOUR.
 Answers to Letters and Birthday Greetings.
 8.45 p.m.—GRACE JACKSON, contralto:
 ELSIE BRADSHAW, Accompanist.
 "So Little Time" (Lohr).
 "Annie Laurie" (Old Scotch).
 9.3 p.m.—"Little Miss Kookaburra" will tell her tiny Kookaburra's another tale about "Saurry, the Stout Kitten," and also how good the naughty kitten "Cresney" became, and then these little kitties bid you au-revoir for awhile for they are going to be busy boys little acorns trying to help everyone.
 9.12 p.m.—THELMA READY, basist:
 "Tiny Ails for Tiny People."
 9.19 p.m.—GRACE JACKSON, contralto, will sing two more little songs.
 9.24 p.m.—"Little Miss Kookaburra" has another instalment ready of "Carol of Hollydene School." (Carol disappears.)

- 9.35 p.m.—"Argus" news service. "Herald" news service. Results of ROCHESTER JOCKEY CLUB RACES. Weather synopsis. Shipping movements.
 9.47 p.m.—Stock Exchange information.
 9.48 p.m.—Fish Market reports by J. R. Barrett, Ltd.
 9.51 p.m.—River reports.
 9.54 p.m.—Market reports by the Victorian Producers Co-operative Co. Ltd. Haymarket. Sheep sales. Poultry. Grain. Hay. Chaff. Straw. Juice. Dairy Produce. Potatoes and Onions.
 10 p.m.—Market prices of Oranges and Lemons by the Victorian Central Citrus Association Pty. Ltd. Fruit market reports by the Victorian Wholesale Fruitgrowers' Association, compiled by the "Fruit World," exclusive to 3LO.

NIGHT SESSION.

- Speakers:
 COMMISSIONER W. D. KENNEDY.
 W. R. TAYLOR.
 Mr. W. J. YULL.
 MR. W. A. EDMUNDS.
 TIM HANMER AND FRANK SCHULTZ.
 THE STUDIO ORCHESTRA.
 TAYLOR AND SUMMERS.
 JOE ARONSON AND HIS SYMPHONIZING ACCOMPANISTS.
 AGNES FORTUNE
 Announcer: ALFRED ANDREW
 7.15 p.m.—Under the auspices of the Rodentia Association, COMMISSIONER W. D. KENNEDY, "Kastler Idles."
 7.40 p.m.—MR. E. C. H. TAYLOR:
 School Life and Sport.
 7.45 p.m.—Under the auspices of the Department of Agriculture, MR. W. J. YULL, Senior Dairy Supervisor:
 "Dairy Food Feeding—methods successfully practised."
 "MORS ET VITA."
 8 p.m.—AUTUMN GARDEN WEEK LECTURE, presented from World's Olympic, MR. W. A. EDMUNDS:
 "The Value of Garden Weeds to the Community."
 8.10 p.m.—STUDIO ORCHESTRA:
 "Mercedes."
 8.20 p.m.—CARTNY BROS.
 "Fun and Fancy."
 8.30 p.m.—BERGBERG DISTRICT MUSICAL SOCIETY.
 Conductor, MR. GRAHAM BURGIN.
 Organist, OLIVE STOTT.
 Pianist, LOUISE DEAN.
 SELECTIONS FROM GOINOD'S ORATORIO.
 "MORS ET VITA."
 Soloist:
 MISS RUBY DUNSTAN, soprano.
 MR. NORMAN BRADSHAW, tenor.
 MISS D. WALKER, contralto.
 MR. ERNEST SAGOR, bass.
 PROGRAMME.
 FIRST PART—"MORS" (Death).
 Chorus: "A Fearful Thing it is to Fall"
 Baritone Solo and Chorus:
 "I am the Resurrection"
 Requiem.
 Chorus: "Tollit and Eryit"
 Chorus: "Day of Anger"
 Duet and Chorus: "Paint and Worn, Thou art has Song, I"
 Tenor Solo: "With the Faithful design to place us."
 Chorus and Quartet: "While the Wicked are Confounded"
 Chorus and Solo: "Day of Weeping"
 Epilogue (Orchestra).
 Chorus: "The Day of Judgment."
 Epilogue (Chorus): "Resurrection of the Dead"
 Baritone Solo: "But when the Son of Man Shall Come."
 The Judge (Organ and Chorus): "To God High enthroned."
 The Judgment of the Elect.
 Baritone Solo: "Before Him for Judgment."
 Solo (Chorus): "Dona."
 (Soprano and Alto): "The Righteous Shall Enter."

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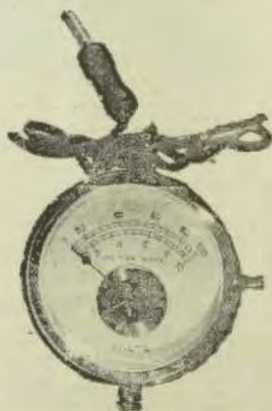
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THEIR PART—VITA (Lafé).
 Vision of the Jubile.
Harding Solo 'I Saw a Snow Haven'
 Heavenly Jerusalem; 'And I, John, Inhabited
 the Holy City.'
Chorus 'Hail O Lord God Omnipotent'
 Quartet: 'Yes, and God Almighty then will
 wipe away.'
Harmonie Solo and Chorus 'Then says He, in
 His Throne.'
Celestial Chorus 'I am Alpha and Omega,
 Chorus 'Lo, The Tabernacle of God's
 Orchestra 'Hymnus in the Highest Places'
 10 p.m.—**SHORT DANCE** by THE BANQUET
 World's Professional Jive Orchestra, and
FRANK SCHULTZ, the all-around Champion.
 10.15 p.m.—**STUDIO ORCHESTRA**.
 10.20 p.m.—**LA TRAVIATA** (Verdi).
 10.25 p.m.—**TAYLOR AND HUMPHREY**, Eng-
 lish Comedians, in 'Farwell Wood'.
 10.35 p.m.—**STUDIO ORCHESTRA**.
 "Showering Beauty Shower."
 10.45 p.m.—**British Official Wireless news from**
Rugby Announcements—'Augs' news
 service. Announcements. Meteorological In-
 formation.
 11 p.m.—**OUR GREAT PRODUCTIONS**.
 "The Inborn Personality of some people
 remains so constant."
 11.15 p.m.—**JOE ARBONSON AND HIS SYN-
 COPATING SYMPHONISTS**.
 "That Rascally and Drollish Melody."
 "I Wish You were Father of Mine."
 "You're Got to Think Hard!"
 "Rose Colored Glasses."
 "An I Waxing My Time."
 "The Village Blacksmith Owns the Village
 News."
 "That's Why I Love You."
 "Alpha, De."
 "B, M, the Merle."
 "Me Too, Ho-Ho, Ho-De."
 "Bergdorf."
 "To a Little Spanish Town."
 "Indisposed."
 "Foolish My Night with Baby."
 "Yes, Yes, Huckleberry."
 "I Wish I Had My Old Gal Back."
 11.30 p.m.—**God Save the King**.

4QG, BRISBANE

Monday.
MIDDAY SESSION.
 1.0 p.m.—Market Reports. Weather informa-
 tion supplied by the Commonwealth Weather
 Bureau's News Service supplied by "The
 Daily Mail" and "The Daily Standard."
 1.20 p.m.—From Hotel Carltons Lunch Music
 played by Hotel Carlton Symphony
 Orchestra.
 1.35 p.m.—From the Observatory: Standard
 Time Signal.
 1.50 p.m.—Close Down.
AFTERNOON SESSION.
 2.30 p.m.—From Hotel Carltons Afternoon
 Tea Music played by Hotel Carlton Sym-
 phony Orchestra.
 4.15 p.m.—From the Studio: News Service sup-
 plied by "The Telegraph."
 4.50 p.m.—Close Down.
DAILY EVENING SESSION.
 6.0 p.m.—News Service supplied by "The
 Daily Standard."
 6.30 p.m.—Bedtime Stories by "The Radio
 Plane": (a) Maxieka (in B-274) (Schopie),
 (b) Neutrons, Omega 77 No. 3
 (Chopie), (c) What is a Comet? (Chopie)
 soprano solo, "In the Great Unknown"
 (Hardeol), Miss Ivy Jones.
PART II.
STUDIO CONCERT.
 6.50 p.m.—From the Studio of 4QG—Meteoro-
 logical Weather Forecast Overture, "The
 Rehearsers" (Hend), The Gaiety Orchestra
 conductor, Miss Joan Taylor; soprano
 solo, "Cafémet" (R. C. Clarke), Miss N.
 Thompson; Monologue "The Fall Among
 Threes" (Newell), Miss Doris Adam; violin
 solo, selected, Miss G. Furey; soprano solo,
 "Lisea Domino," Miss Marjorie Carey, a

thought for to-night, by WIL H. Linder,
 "Self Righteousness," Fox-Scott, "Rose Marie"
 (Fried), the Ladies Orchestra; monologue,
 "The First Long Trouser" (Blacklock),
 Miss Doris Adams; soprano solo, "Love's a
 Mischief" (Carver), Miss M. E. Bowring;
 soprano solo, "Souvenir de la Folle Paris"
 (Liberal), Mr. E. Bowser (accompanied by
 the Gaiety Orchestra); contralto solo,
 "Heart to Heart" (Hains), Mrs. N. Thomp-
 son; studio solo, selected, Miss G. Furey;
 soprano solo, "Love's Own King," Miss
 Marjorie Carey; tenor, "That Night in
 Aachen" (Gardner), the Gaiety Orchestra.
 10.10 p.m.—"The Daily Mail" News; Weather
 News; Close Down.
 10.15 p.m.—**Market Reports; Stock Report;**
 Lecturers—Friends we have made by
 Radio; Mr. E. J. Shelton (Instructor in
 Pig Raising).
 10.30 p.m.—Weather News; Announcements.
 10.45 p.m.—Standard Time Signal.

NIGHT SESSION

7.01 p.m.—**Organ Recital—The Children's**
Music Centre, conducted by "The Music
 Man."
PART I.
ORGAN RECITAL.
 8.0 p.m.—A short Organ Recital by Mr.
 Leo Sampson, F.R.C.O. (Lyle Organist),
 will be given from the Exhibition Hall.
PART II.
PIANOFORTE RECITAL.
 The second portion of to-night's pro-
 gramme will comprise a Pianoforte Recital
 by Mr. Keith John.
 8.30 p.m.—From Mr. John's Studio: Sonata
 in G Major (Mozart)—Airs with Vari-
 ations, (H. Menzel), (c) Rondo (alla turca),
 soprano solo, "Carnations" (Pagan), Sixty by

6WF, PERTH

Monday.
 12.30 p.m.—Time in.
 1.30 p.m.—Market report.
 Food Local News Bulletin.
 2.00 p.m.—Time signal from Perth Observatory.
 2.15 p.m.—Weather Notes, supplied by the
 Meteorological Bureau of Western Australia.
 2.30 p.m.—STUDIO QUINTETT.
 3.0 p.m.—Close down.
 3.20 p.m.—Time in.
 3.25 p.m.—Musical programme.
 4.00 p.m.—STUDIO TRIO.
 4.20 p.m.—Close down.
 4.30 p.m.—Time in.
 4.35 p.m.—Children's Bedtime Stories by Uncle
 Henry, Lolly Perry and Duffy.
 4.55 p.m.—Stock and share intelligence,
 Market reports.
 5.00 p.m.—Cables, news supplied by courtesy of "The
 West Australian" Newspaper Coy.
 5.10 p.m.—Time signal from Perth Observatory.
 5.15 p.m.—Weather Notes, supplied by the
 Meteorological Bureau of Western Australia.
 5.25 p.m.—CONCERT NIGHT.
 Musical programme, including arias.
 10 p.m.—Second Local News Bulletin, supplied
 by courtesy of "The Daily News" Newspaper
 Coy.
 10.30 p.m.—Close down.

Tuesday, April 5 2FC, SYDNEY

MIDDAY SESSION.
 12 noon.—"Big Ben" and announcements.
 12.3 p.m.—Stock Exchange, first call.
 12.9 p.m.—Official weather forecast, rainfall,
 temperature, astronomical memoranda, ship-
 ping, and general public services.
 12.15 p.m.—Studio music.
 12.25 p.m.—Summary of "Sydney Morning
 Herald" news service and cables.
 12.45 p.m.—Studio music.

12.45 p.m.—A cooking talk by Miss Ruth
 Purdy.
 12.55 p.m.—Miss End D'Arcy, soprano, "A
 Japanese Love Song" (Ishibe).
 1.00 p.m.—"Big Ben" Weather intelligence.
 1.2 p.m.—"Evening News" middle news ser-
 vice.
 Producers' Distributing Service's report,
 1.30 p.m.—Studio music.
 1.35 p.m.—Exchange service call.
 1.36 p.m.—Marching music for school children.
 1.40 p.m.—Miss Enid D'Arcy, soprano
 "Mighty Lak a Rose" (Newin).
 1.50 p.m.—Studio music.
 2.00 p.m.—"Big Ben" Close down.

AFTERNOON SESSION.

2.0 p.m.—"Big Ben" and programme announce-
 ments.
 2.15 p.m.—Studio music.
 2.16 p.m.—Miss Mill Meyer, visitor from over-
 seas, will commence a series of talks. Her
 subject this afternoon will be "Patience."
 2.25 p.m.—Miss Eileen Crowley, soprano,
 "Emancipation" (Ishibe).
 2.30 p.m.—Marching music for school children.
 2.40 p.m.—From Farmer's Ten Rooms—Mr.
 Frank Holman, baritone, "Come to the Fair"
 (Manning).
 2.45 p.m.—Miss Eileen Crowley, soprano (from
 the Studio), "Greens Green" (Oliver).
 2.50 p.m.—Studio music.
 2.55 p.m.—From Farmer's Ten Rooms—Mr.
 Frank Holman, baritone, "If I might Come
 to You" (Squire).
 3.0 p.m.—Radio music.
 3.20 p.m.—From Farmer's Ten Rooms—Miss
 Muriel Humphries, contralto, "The Little
 Coat of Courage" (Maxwell).
 3.25 p.m.—Studio music.
 3.40 p.m.—A popular record.
 3.45 p.m.—From Farmer's Ten Rooms—Miss
 Muriel Humphries, contralto, "Just Because
 the Violets" (Russell).
 3.48 p.m.—Stock Exchange. Studio music.
 3.50 p.m.—Close down.

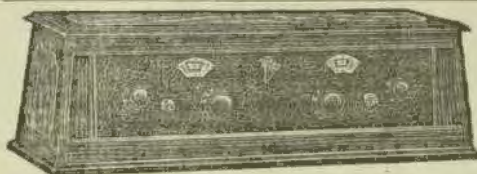
EARLY EVENING SESSION.

3.50 p.m.—The changes of T.F.C.
 4.00 p.m.—"The Hello Man" spoke to the chil-
 dren.
 4.10 p.m.—A story for the elder ones.
 4.20 p.m.—Dinner music.
 4.30 p.m.—"Big Ben" Late sporting news.
 4.40 p.m.—Dalgely's market reports (wool,
 wheat, and stock).
 4.50 p.m.—Fruit and vegetable markets.
 5.00 p.m.—Weather and shipping intelligence.
 Stock Exchange.
 5.25 p.m.—Late "Evening News" news ser-
 vice.

NIGHT SESSION.

5.40 p.m.—Programme announcements.
 5.45 p.m.—A talk by Mr. F. A. Glend, M.A.,
 1st Sec. of the Workers' Educa-
 tional Association. Subject: "Australia's
 Constitutional Problems."
 6.0 p.m.—"Big Ben."
 From "Hovis" Theatre (late Piesandouche
 Theatre), Chairovood: Act one of the
 popular musical comedy, "Gipsy Love,"
 introduced by the Roseville Musical Society,
 conductor, Mr. Ernest Mowle.
 Musical Numbers.
 Overture.
 Song, "The Wild Bird," Gwen Taylor.
 Duet, "The Garden of Love," Gwen Taylor
 and John Byson.
 Song, "I Can't Keep Away from the Girls,"
 Victor J. Kelly.
 Entrance number, "Lads Bah."
 Song, "Cocomelon," Dorothy Bennett.
 Song and Song, "The Wild Rose."
 Duet, "Kissin', Mamin Leslie and John
 Hogan.
 Duet, "What I Like About You," Dorothy
 Bennett and Victor J. Kelly.
 Final, "The Moon has Blown Now," the
 Company.
 9 p.m.—From the Studio—Miss Phyllis Ray-
 mond, mezzo.

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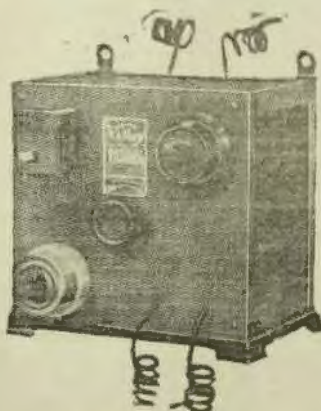


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- 8.4 p.m.—The ZPC Studio Dance Band, conducted by Mr. Eric Pearson:
 - (a) Fox trot, "Who" (Kern).
 - (b) Walks, "I Wish You were Jealous of Me" (Hartigan).
- 9.14 p.m.—Mr. W. E. Jackson will continue his talk of the "Five Great Moderns."
- 9.20 p.m.—Mr. Wally Baynes, comedian, "I'd Love to be a Holly Aard" (Went).
- 9.24 p.m.—Mr. Arthur Ash, saxophone solo.
- 9.30 p.m.—Miss Phyllis Baynes, mezzo.
- 9.41 p.m.—Mr. Wally Baynes, comedian, "I'm Tight, Too" (Egan).
- 9.52 p.m.—Mr. Sydney Ardener and company will give the final instalment of the Radio Serial Farce, "The Man Who Wouldn't Quail."

From the solutions sent in on or before mid-day, to-day, the prize-winners have been selected, and the names will be announced this evening. The competitors who sent in guesses as to the correct solution will have an opportunity of comparing their answers with the actual finish of the story.

- 10.25 p.m.—Miss Phyllis Baynes, mezzo.
- 10.29 p.m.—The ZPC Studio Dance Band, conducted by Mr. Eric Pearson, and consisting with vocal choruses, by the popular baritone, Mr. Leo Maclean:
 - (a) Fox trot, "Goodbye" (Darius).
 - (b) Fox trot, "I Made You Happy" (Donaldson).
- 10.34 p.m.—Mr. Wally Baynes, comedian:
 - (a) "Gee" (Wynn and Lee).
 - (b) "Could Lord George Do It?" (Lee).
- 10.41 p.m.—The ZPC Studio Dance Band and the popular baritone, Mr. Leo Maclean:
 - (a) Fox trot, "One Way Street" (Thorn).
 - (b) Fox trot, "Sweet Hawaiian Sand" (O'Hagan).
- 11 p.m.—"Big Ben," National Anthem. Close down.

2BL, SYDNEY

Tuesday.

EARLY MORNING SESSION.

- 7.15 a.m.—G.P.O. Clock and Chimes.
- 7.36 a.m.—Metropolitan weather forecast.
- 7.51 a.m.—Musical programme from the Studio.
- 7.53 a.m.—Physical training and health exercises.
- 7.56 a.m.—G.P.O. Clock and Chimes.
- 7.59 a.m.—Hints on health.
- 7.56 a.m.—Physical training and health exercises.
- 7.48 a.m.—G.P.O. Clock and Chimes.
- 7.48 a.m.—Weather report.
- 7.47 a.m.—Broadcasters' special news service.
- 8 a.m.—G.P.O. Clock and Chimes. Close down.

MORNING SESSION.

- 10 a.m.—G.P.O. Clock and Chimes.
- 10.1 a.m.—Weather report.
- 10.3 a.m.—Musical programme from the Studio.
- 10.30 a.m.—News from the "Daily Telegraph."
- 11.13 a.m.—Rabbit market report.
- 11.17 a.m.—Fish market report.
- 11.19 a.m.—Vegetable market report.
- 11.21 a.m.—Fruit market report.
- 11.23 a.m.—Report on London dairy, farm, egg and poultry market.
- 11.25 a.m.—London metal quotations.
- 11.30 a.m.—Hints in call by wireless.
- 11.31 a.m.—Information re interstate and overseas mails.
- 11.33 a.m.—Shipping information—arrivals and departures.
- 11.35 a.m.—Women's Session.—Social notes by Mrs. Jordan.

- 11.42 a.m.—Mrs. Jordan replies to correspondence.
- 11.53 a.m.—Talk by Mrs. Jordan on "Tales of Hints."
- 12.20 p.m.—Musical programme from the Studio.
- 12.30 p.m.—G.P.O. Clock and Chimes.
- 12.31 p.m.—Weather report and forecast.
- 12.33 p.m.—"Sun" newspapers' news service.
- 12.45 p.m.—H.M.S. Instrumental Quartet—Direction, Carl Gilling.
- 1.00 p.m.—G.P.O. Clock and Chimes.
- 1.01 p.m.—Weather report and forecast.
- 1.05 p.m.—H.M.S. Instrumental Quartet.
- 1.10 p.m.—News from "The Sun."
- 1.45 p.m.—Musical programme from the Studio.
- 2 p.m.—G.P.O. Clock and Chimes. Close down.

AFTERNOON SESSION.

- Having information broadcast by courtesy of the "Sun."
- 3.1 p.m.—G.P.O. Clock and Chimes.
- 3.1 p.m.—Weather report.
- 3.1 p.m.—Social notes from the "Sun."
- 3.15 p.m.—News from the "Sun."
- 3.25 p.m.—Civil Service Stores Trio—direction, Miss de Courcy Bremer.
- 3.30 p.m.—News from the "Sun."
- 3.35 p.m.—Musical programme from the Studio.
- 4 p.m.—G.P.O. Clock and Chimes.
- 4.1 p.m.—Civil Service Stores Trio.
- 4.15 p.m.—Social notes.
- 4.30 p.m.—Musical programme from the Studio.
- 4.45 p.m.—Producers' Distributing Society's fruit and vegetable market report.
- 4.52 p.m.—The "Sun" remains on race days.
- 4.53 p.m.—News from the "Sun."
- 4.58 p.m.—Resume of night's programme.
- 5 p.m.—G.P.O. Clock and Chimes. Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.
- 5.46 p.m.—Circle George and the Kiddies.
- 5.49 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. Clock and Chimes.
- Australian Mercantile, Land and Finance Co's report.
- Weather report and forecast.
- Stock Exchange reports.
- Producers' Distributing Society's fruit and vegetable market report.
- Dairy produce report ("Sun").
- Grain and fodder report ("Sun").
- 7.15 p.m.—Country news from the "Sun."
- 7.20 p.m.—Talk on "The Motor Car," by Mr. Martin.
- 8 p.m.—G.P.O. Clock and Chimes.
- Broadcasters' Topical Chorus.
- 8 p.m.—Broadcasters' Miniature Orchestra, under the direction of Mr. J. Knight Barrett.
- 8.13 p.m.—Miss Ethel Friend, contralto.
- 8.20 p.m.—Mr. Fraser Coxs, baritone.
- 8.25 p.m.—Miss Beryl Scott, soprano.
- 8.34 p.m.—Duets by Morris and Charlton.
- 8.40 p.m.—Mr. Henri Penn, pianist.
- 8.45 p.m.—G.P.O. Clock and Chimes.
- 8.45 p.m.—Broadcasters' Miniature Orchestra. Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
- 8.57 p.m.—Broadcasters' Miniature Orchestra.
- 9.17 p.m.—Miss Hilda Walker, soprano.
- 9.24 p.m.—Mr. Fraser Coxs.
- 9.31 p.m.—Broadcasters' Miniature Orchestra.
- 9.41 p.m.—Miss Ethel Friend.
- 9.48 p.m.—Miss Beryl Scott.
- 9.55 p.m.—Mr. Henri Penn.
- 10.2 p.m.—Miss Hilda Walker.
- 10.12 p.m.—The Ambassadors' Dance Band broadcast from the ballroom of the Ambassadors. During the interval between dances, news reports by courtesy of the "Sun" will be broadcast.
- 11 midnight.—G.P.O. Clock and Chimes. National Anthem.

3LO, MELBOURNE

Tuesday.

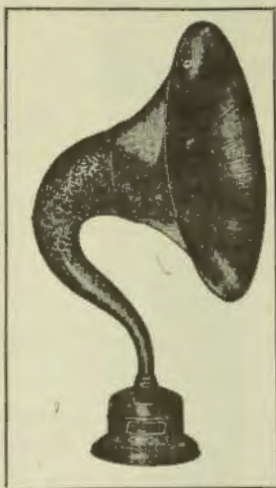
MIDDAY SESSION.

- THE STUDIO ORCHESTRA.
- TAYLOR AND SUMMERS, English Comedians.
- JOHN D. FITZGER, baritone.
- MARIE LE VAURE, soprano.
- CHECK' HAYES, The Talkative Chap.
- Accompanists AGNES FORTUNE.
- Announcer MAURICE DUDLEY.
- 12 noon.—Time Signal.
- 12.05 p.m.—First Signal.
- 12.10 p.m.—News from Right, Center's and (no Australian) from Australian cables. "Ages" and "Herald" news services.
- 12.30 p.m.—TAYLOR AND SUMMERS, English Comedians.
- "Winnies."
- 12.35 p.m.—STUDIO ORCHESTRA: "Le Solo Prince" (Luttrell).
- 12.40 p.m.—Stock Exchange information.
- 12.50 p.m.—JOHN D. FITZGER, baritone: (a) "The Kiss Maker" Company, by permission of J. C. Williamson, Ltd.; "Let's Dance" (Drevelle-Sault); "Red Fuchsia Tree" (Went).
- 1 p.m.—STUDIO ORCHESTRA: "Wedding March" (Mendelssohn). The "Wedding March" is being played for the benefit of a luncheon at Embury.
- 1.17 p.m.—MARIE LE VAURE, Comedienne; "Don't be a Fool, You Fool."
- 1.14 p.m.—STUDIO ORCHESTRA: "Winnies" (Luttrell).
- 1.20 p.m.—Metropolitan information: Shipping Intelligence, Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports.
- 1.10 p.m.—"CHECK' HAYES, The Talkative Chap": "Well, he just talks!"
- 1.21 p.m.—AGNES FORTUNE, "Novelists" (Schumann).
- 1.40 p.m.—JOHN D. FITZGER, baritone: "The Doctor by the Sea" (Clare West); "A Castilian Lament" (Del Riego).
- 1.47 p.m.—STUDIO ORCHESTRA: "Ballad Music from Faint" (Gounod). 2 p.m.—Close down.

AFTERNOON SESSION.

- Speakers:
- "AU FAIT" MR. JAS. ALLEN.
- JOE ARONSON AND HIS SYMPOCATING SYMphonISTS.
- MARY CLAXTON, soprano.
- "CHECK' HAYES, The Talkative Chap.
- CARLY BROS, comedians.
- Accompanists AGNES FORTUNE.
- Announcer MAURICE DUDLEY.
- 8 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMphonISTS: "Sunday"—"By the Sign of the Rose." "Hello, Little Girl of My Dreams."
- 8.10 p.m.—"AU FAIT" will give a Fashion Talk.
- 8.24 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMphonISTS: "The Original Black Bottom." "Hello, Aloha." "Let's All Hurray Ford." "Consolation" (Waltz).
- 8.35 p.m.—MARY CLAXTON, soprano: "This is the Island of Gardens" (Gelebrug Taylor). "The Dawn Has a Song" (Montauk Phillips).
- 8.40 p.m.—JOE ARONSON AND HIS SYMPOCATING SYMphonISTS: "Ruffenreddy" (Piano Solo). "The More We are Together."
- "Mary Jane."
- 8.51 p.m.—"CHECK' HAYES insists on talking again.
- 9 p.m.—AUTUMN GARDEN WEEK LECTURE—transmitted from Wirth's Olympia. MR. JAS. ALLEN: "Successful Race Culture."

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lion selections, (b) fox-trot, "Pretious" (Fosterbrook) Don Parais and his band, (c) orchestral "Laughing Music" (Sagony), tenor solo, orchestra, Day Art association, "Voices of Spring" (Strand); AVOILA VOICE (two selections), (a) overture, "The Barber of Seville" (two), (b) metropolitan orchestra, (c) same as (a), (d) overture in G major, (Suzuki), Mr. Edmund MURPHY; Day Art association, "Ballet Box" (Gardner) (Rock).

4.10 p.m.—Lecture: Talk No. 3 on "Haceball" by a representative of the Australian Ladies' Rowing Association.

4.20 p.m.—"The Telegraph" News.

4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.3 p.m.—"Daily Standard" News; Announcements.

6.50 p.m.—The Children's Session: Stories by Uncle Ben and Uncle Jim.

7.1 p.m.—Market Reports, Stock Reports; Lectures: "A Year on the Sugar Industry," Mr. W. H. Denery (Secretary Queensland Cane Growers' Council).

7.40 p.m.—Weather News; Announcements.

7.45 p.m.—Standard Time Signal.

NIGHT SESSION.

7.45 p.m.—Lecture Session, "Photography," by Mr. F. L. South (Manager, Kowalski).

PART I.

PIANOFORTE AND VOCAL RECITAL.
The first portion of to-night's programme has been arranged by Mr. Arthur Kowalski, L.A.B.

8.0 p.m.—Pianoforte solo, "Valse E-Majeur" (Mozkowsky), Miss Iva Ness; soprano solo, "The Rives of Pan" (Munkton), Miss Ivy Paine; pianoforte solo, "Rhapsody No. 2" (Liszt), Mr. Arthur Sharman; solo, "Whatever is in Best" (Lohe), Mr. Bryth Evans; pianoforte solo, "Havanilla" (McDowell), Miss Beatrice Gunnison, L.F.C.I.; soprano solo, "Thought" (Flecher), Miss Ivy Paine; pianoforte solo, "Fantasia Impromptu" (Chopin), Miss Iva Ness; vocal duet, "Love is Meant to Make us Glad" (German), Miss Ivy Paine and Mr. Bryth Evans; pianoforte solo: (a) "At the Donnybrook Fair" (Scott), (b) "Valse Coprie" (Grodzki), Mr. Arthur Sharman; pianoforte solo, "Impromptu A-Flat" (Schubert), Miss Dorothy Gausman.

PART II.

BRISBANE APOLLO CLUB.
8.45 p.m.—From the School of Arts: Three choral numbers by the Brisbane Apollo Club (conductor, Mr. Leonard French): (a) "Trelawny" (Thayer), (b) "Hymn to Night" (Beethoven), (c) "Viva" (Riser).

PART III.

STUDIO CONCERT.
9.0 p.m.—From the Studio: Orchestral "Pep D'Amour" (Silent), the Regent Symphony Quartette (conductor, Miss Phyllis Planery); soprano solo, "Spring's Awakening" (Sanderson), Miss Evelyn Grace; orchestral, "Soleil D'Amour" (Elgar), the Regent Symphony Quartette; a thought for tonight by Will H. Lister—"The Envious"; mezzo-soprano solo, "When Song is Sweet" (Rita Succi), Miss R. G. Husband; orchestral, "Tonight's My Night With Baby," the Regent Symphony Quartette; soprano solo, "The Captive Lark" (Romald), Miss Evelyn Grace; orchestral, "Chans" (Munkton), the Regent Symphony Quartette; mezzo-soprano solo, "Love's Garden of Roses" (Rutherford), Miss R. G. Husband; tenor solo, "I Wish You Were Jealous of Me" (Hansblich), the Regent Symphony Quartette.

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

400—

6WF, PERTH

Tuesday.

12.30 p.m.—Tune in.

12.45 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 TRIG.

1.30 p.m.—Close down.

2.30 p.m.—Tune in.

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3.25 p.m.—Musical programme, including Pianoforte Selections by MISS EVELYN WILLIAMS, A.R.C.M.
4 p.m.—STUDIO MUSIC.
4.30 p.m.—Close down.
7 p.m.—Done In.
7.3 p.m.—Stories for Tiny Tots by "Auntie Kate" and "Uncle Duffy."
7.45 p.m.—Stock and share intelligence. Market reports.
Cables, news supplied by courtesy of "The West Australian," Newspaper Co.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
8.2 p.m.—BAND NIGHT.
8.30 p.m.—Concert by the Perth City Band. Conductor, MR. W. A. HALVORSEN.
10 p.m.—Second Local News Bulletin, supplied by courtesy of "The Daily News" Newspaper Co.
10.30 p.m.—Close down.

Wednes., April 6 2FC, SYDNEY

MIDDAY SESSION.

12 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.
12.25 p.m.—Summers of "Sydney Morning Herald" news service and cables.
12.45 p.m.—Studio music.
12.45 p.m.—Talk on home cooking and recipes, by Miss Ruth Furedi.
12.55 p.m.—Miss Anne Mills, mezzo: (a) "Pluck the Little Flower" (Ronald). (b) "Love, I Love You" (Ronald).
1 p.m.—"Big Ben." Weather intelligence.
1.5 p.m.—"Evening News" holiday news service.
Prestoliers' Distributing Societies' report.
1.30 p.m.—Studio music.
1.35 p.m.—Stock Exchange second call.
1.50 p.m.—Marching music for school children.
1.50 p.m.—Miss Anne Mills, mezzo, "A Canadian Lament" (Riego).
1.55 p.m.—Studio music.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—An aboriginal recital by the pupils of Miss Grace Stafford.
3.20 p.m.—Pianoforte solo.
3.25 p.m.—Talk on "Sweet Nell" by Miss Mabel Wadd.
3.35 p.m.—Marching music for school children.
3.40 p.m.—From Farmer's Tea Rooms. Miss Florence Grant, soprano, "Wake up" (Pah-liss).
3.45 p.m.—Elocutionary items by the pupils of Miss Grace Stafford.
4 p.m.—"Big Ben." From Farmer's Tea Rooms. Miss Peggy Dunbar, contralto, "Prize" (Wood).
4.5 p.m.—Studio music.
4.10 p.m.—Miss Alice Pomery, soprano, "The Snowman" (Poppet).
4.15 p.m.—Studio music.
4.20 p.m.—From Farmer's Tea Rooms. Miss Florence Grant, soprano, "The Hallowed Host" (Wood).
4.35 p.m.—Studio music.
4.40 p.m.—Miss Alice Pomery, soprano, "I Heard You Singing" (Coates).
4.45 p.m.—Studio music.
4.45 p.m.—From Farmer's Tea Rooms. Miss Peggy Dunbar, contralto, "To You" (Speaks).
4.45 p.m.—Stock Exchange, third call.
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.
6.30 p.m.—A serial story for the older ones.
6.40 p.m.—Dinner music.
7 p.m.—"Big Ben." Late sporting news.
7.10 p.m.—Daileys' market reports (wool, wheat and stock).
7.15 p.m.—Fruit and vegetable markets.
7.30 p.m.—Weather and shipping intelligence. Stock Exchange.
7.35 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.40 p.m.—Programme announcements.
7.42 p.m.—Mr. R. K. Bailey will talk on "The screen as a career for a girl."
7.50 p.m.—Miss Thea Sheehan, the well-known Australian sculptress, will give a final talk on British art.
8 p.m.—"Big Ben."
8 p.m.—Mr. Norman Jansson, baritone.
8.5 p.m.—Mr. Gordon Rodda, pianist (a) "The Jugglers" (Moslowski). (b) "Dragonets" (Berger).
8.15 p.m.—Cantata by Frank Hurley will commence a series of four studio adventure tales on the following nights:—
Wednesday, 5th April.
Sunday, 10th April.
Thursday, 14th April.
Thursday, 21st April.
His subject to-night is "An Odyssey of the Polar Seas," being an account of one of the greatest open boat voyages ever made in the annals of exploration. This heroic undertaking was made by the late Sir Ernest Shackleton, who, with four companions, set out in a small twenty-foot boat, from Elephant Island to cross the most turbulent sea in the world, to the island of South Georgia. Their mission was to bring relief to the remaining twenty-two members of his expedition, who were cast away under most desperate circumstances at Elephant Island.
9 p.m.—"Big Ben." Mr. Norman Jansson, baritone.
9.5 p.m.—Mr. Gordon Rodda, pianist (a) "Bird Song" (Palmerini). (b) "Etude de Concert" (Fauré).
9.15 p.m.—From the Moosman Town Hall: Act two of Gulliver's Romantic Opera, "Lilac Domino." Produced by the Moosman Musical Society, conducted by Mr. Alfred Norman.
10.15 p.m.—From the Studio.—Mr. Mayo Hunter, steel guitar items: (a) "Hawaiian Hotel" (Old March. (By request). (b) "Sweet Violet" (arr. Hunter).
10.25 p.m.—From the Moosman Town Hall.—Act three of "Lilac Domino." Produced by the Moosman Musical Society, Conductor, Mr. Alfred Norman.
10.50 p.m.—From the Studio.—Mr. Mayo Hunter, steel guitar items: (a) "Bye, Bye Blackbird" (Henderson). (b) "I'm Wasting My Time on You."
11 p.m.—"Big Ben."
National Anthem.
Close down.

2BL, SYDNEY

Wednesday.

EARLY MORNING SESSION.

7.15 a.m.—G.P.O. Clock and Chimes.
7.15 a.m.—Metropolitan weather forecast.
7.21 a.m.—Musical programme from the Studio.
7.30 a.m.—Physical training and health exercises.
7.34 a.m.—G.P.O. Clock and Chimes.
7.41 a.m.—Hints on health.
7.46 a.m.—Physical training and health exercises.
7.45 a.m.—G.P.O. Clock and Chimes.
7.46 a.m.—Weather report.
7.47 a.m.—Broadcaster's special news service.
8 a.m.—G.P.O. Clock and Chimes.
Close down.

MORNING SESSION.

- 11 a.m.—G.P.O. Clock and Chimes.
 11.1 a.m.—Weather report.
 11.2 a.m.—Musical programme from the Studio.
 11.3 a.m.—Sydney "Daily Telegraph" news service.
 11.12 a.m.—Rabbit market report.
 11.17 a.m.—Fish market report.
 11.19 a.m.—Vegetable market report.
 11.21 a.m.—Fruit market report.
 11.25 a.m.—London dairy, farm, egg and poultry market.
 11.28 a.m.—London metal quotations.
 11.30 a.m.—Ships in call by wireless.
 11.32 a.m.—Information re interstate and overseas mails.
 11.34 a.m.—Shipping information—arrivals and departures.
 11.35 a.m.—Women's Session—Talk by Miss Varley, Broadcasters' women's sports authority on "Hooky."
 11.45 a.m.—Social notes by Mrs. Jordan.
 11.52 a.m.—Mrs. Jordan replies to correspondents.
 12.3 p.m.—Talk on "Tunis and Alenodis," by Dr. Morris.
 12.36 p.m.—G.P.O. Clock and Chimes.
 12.37 p.m.—Sydney Stock Exchange calls.
 12.38 p.m.—News from the "Sun."
 12.45 p.m.—Musical programme from the Studio.
 1 p.m.—G.P.O. Clock and Chimes.
 1.1 p.m.—Pianoforte lecture recital by Mr. Arnold R. Mose, R.A., broadcast from the Fine Art Gallery, Anthonis Bordenes.
 1.40 p.m.—News from the "Sun."
 1.49 p.m.—Sydney Stock Exchange calls.
 2 p.m.—G.P.O. Clock and Chimes.
 2.1 p.m.—Weather report and forecast.
 2.3 p.m.—Social notes from the "Sun."
 2.8 p.m.—Musical programme from the Studio.
 2.25 p.m.—Racing resume.
 2.30 p.m.—G.P.O. Clock and Chimes.
 2.31 p.m.—News from the "Sun."
 2.45 p.m.—Musical programme from the Studio.
 3 p.m.—G.P.O. Clock and Chimes.
 3.1 p.m.—Racing resume.
 3.1 p.m.—News from the "Sun."
 3.20 p.m.—Musical programme from the Studio.
 3.45 p.m.—News from the "Sun."
 4 p.m.—G.P.O. Clock and Chimes.
 4.1 p.m.—Musical programme from the Studio.
 4.15 p.m.—Serial Story.
 4.30 p.m.—G.P.O. Clock and Chimes.
 4.31 p.m.—Musical programme from the Studio.
 4.45 p.m.—Producers' Distribution Society's fruit and vegetable market report.
 4.50 p.m.—Shipping information when available.
 4.52 p.m.—Day's racing resume.
 4.55 p.m.—News from the "Sun."
 4.59 p.m.—Remainder of night's programme.
 5 p.m.—G.P.O. Clock and Chimes.
 Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. Clock and Chimes.
 5.45 p.m.—Little Willie and Daddy Lambless will entertain the kiddies.
 6.40 p.m.—Musical programme from the Studio.
 SPECIAL COUNTRY SESSION.
 7 p.m.—G.P.O. Clock and Chimes.
 Australian Mercantile, Land and Finance Co. report.
 Weather report and forecast by courtesy of Government Meteorologist.
 Producers' Distribution Society's fruit and vegetable market report.
 Stock Exchange reports.
 Grain and Fodder report ("Sun").
 Dairy produce report ("Sun").
 7.15 p.m.—Country news from the "Sun."
 7.30 p.m.—An address from a member of St. John's Ambulance.

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- 8.15 p.m.—G.P.O. Clock and Chimes.
 8.20 p.m.—Musical broadcast from the Straube Piano salon.
 8.30 p.m.—Mr. Dick Matthews, comedian.
 8.40 p.m.—Mr. Douglas Graham, Scotch comedian.
 8.47 p.m.—Miss Edy Dalgleish, soloist.
 8.54 p.m.—Recess of following day's programme.
 Weather report and forecast by courtesy of Mr. C. J. Munn, Government Meteorologist.
 9 p.m.—G.P.O. Clock and Chimes.
 9.1 p.m.—Professor Rastall Woodhouse, tenor.
 9.2 p.m.—The Abad Duo (two guitars).
 9.18 p.m.—Miss Gladys Verona, soprano.
 9.52 p.m.—Interval.
 10.10 p.m.—Mr. Dick Matthews.
 10.17 p.m.—Mr. Douglas Graham.
 10.24 p.m.—The Abad Duo.
 10.31 p.m.—Miss Edy Dalgleish.
 10.38 p.m.—Professor Rastall Woodhouse.
 10.45 p.m.—The Ambassadors' Dance. Band broadcast from the ballroom of the Antinucleaders. During the intervals between dances, news reports by courtesy of the "Sun" will be broadcast.
 10.55 p.m.—G.P.O. Clock and Chimes.
 National Anthem.

3LO, MELBOURNE

Wednesday.

MIDDAY SESSION.

LENTEN SERVICE.

- JOE ARONSON AND HIS SYNCOFATING COPATING SYMPHONISTS.
 GRACE JACKSON, contralto.
 ARTHUR DOUGLAS, comedian.
 Speaker: MR. G. GODDARD.
 Accompanist: AGNES FORTUNE.
 Announcer: MAURICE DUDLEY.
 12 noon—Time Signal, British Official Wireless news from Hurky, Reuters and The Australian Press Association cables, Stock Exchange information, "Argus" and "Herald" news reviews.
 12.15 p.m.—SPECIAL LENTEN MIDDAY SERVICE, transmitted from St. Paul's Cathedral.
 12.45 p.m.—JOE ARONSON AND HIS SYNCOFATING SYMPHONISTS:
 "Hush! on the Ganges."
 "Some Other Bird Whistled a Tune."
 "While the Yeans go trifling by."
 1.15 p.m.—GRACE JACKSON, contralto:
 "The Ferry Dance" (Mulloly).
 "Just Because the Violet" (Russell).
 1.42 p.m.—JOE ARONSON AND HIS SYNCOFATING SYMPHONISTS:
 "Chap Handa, Here Comes Charlie."
 "That Night in Araby" (Minnotts).
 "I Made Me Happy."
 1.52 p.m.—Meteorological information, Shipping intelligence, Weather forecast for Victoria, Tasmania, South Australia, and New South Wales, Ocean forecast, River reports.
 1.59 p.m.—JOE ARONSON AND HIS SYNCOFATING SYMPHONISTS:
 "March."
 "Excite the Piano" (Piano Solo).
 "Grave."
 2.19 p.m.—ARTHUR DOUGLAS, comedian:
 "Number Wan" (Douglas).
 2.40 p.m.—JOE ARONSON AND HIS SYNCOFATING SYMPHONISTS:
 "How Many Times."
 "You Need Someone to Love."
 "Hi, Ho, the Merrie."
 "Lads, Lads."
 "I Want a Parson for Daddy."
 "That's My Girl."
 "By the Waters of Minnesota."
 2.59 p.m.—Close down.
 3.00 p.m.—AUTUMN GARDEN WEEK LECTURES, transmitted from Wirth's Gardens, MR. G. GODDARD:
 "Demonstration with Seeds and Seedlings."

- 2.45 p.m.—Result of Handicap Trial Stakes, SUNBURY RACES.
 2.50 p.m.—Close down.

AFTERNOON SESSION.

- MR. E. G. GIBSON, SISTER PECK, THE STUDIO ORCHESTRA.
 EILEEN STARR, soprano.
 C. RICHARD CRUGG, Solo.
 MARIE LE VARRE, comedienne.
 GERTRUDE ARMSTRONG, piano.
 CATHY BROS., entertainers.
 Accompanist: AGNES FORTUNE.
 Announcer: MAURICE DUDLEY.
 ENJOY THE PRESENT DAY, TRUSTING VERY LITTLE TO THE FUTURE.
 3 p.m.—Results of Red Rock Welter, SUNBURY RACES, by "Musket" of the "Sporting Globe."
 3.5 p.m.—STUDIO ORCHESTRA:
 "Unfinished Symphony," Part I, (Schubert).
 3.15 p.m.—"CHECK" HAYES, The Talkative Chap, is still talking.
 3.20 p.m.—STUDIO ORCHESTRA:
 "Spanish Serenade" (Friml).
 3.30 p.m.—Result of Autumn Handicap, SUNBURY RACES.
 3.35 p.m.—EILEEN STARR, soprano:
 "Farsi Amir" (Mouart).
 "Fierrot."
 3.40 p.m.—C. RICHARD CRUGG, Solo:
 "Dance of the Bessad Spirit" (Gluck).
 3.45 p.m.—MARIE LE VARRE, comedienne:
 "It's a Good Thing Cow's Don't Fly."
 3.52 p.m.—STUDIO ORCHESTRA:
 "Unfinished Symphony," Part II.
 4 p.m.—Result of 143 Handicap, SUNBURY RACES.
 4.5 p.m.—AUTUMN GARDEN WEEK LECTURE, transmitted from Wirth's Gardens, MR. E. G. GIBSON:
 "The Art of Growing Vegetables."
 4.15 p.m.—GERTRUDE ARMSTRONG: Piano Selections.
 4.17 p.m.—CATHY BROS., in a mirthful moment.
 4.25 p.m.—STUDIO ORCHESTRA:
 "Danse Lette" (Franck).
 4.30 p.m.—Result of Encourage Mile, SUNBURY RACES.
 4.35 p.m.—SISTER PECK:
 "Motherhood."
 4.45 p.m.—"Herald" news service, Stock Exchange information.
 5 p.m.—Result of Jumper's Flat Race, SUNBURY RACES.
 Close down.
 EVENING SESSION.
 5.49 p.m.—CHILDREN'S HOUR, Answers to Letters and Birthday Greetings, by "MARY, MARY."
 6.05 p.m.—SPECIAL MUSICAL PROGRAMME, arranged for the Children by MR. FRITZ HART:
 MELLICENT OSMOND, mezzo-soprano:
 "Where the Sheeeps" (Idol).
 "I Know a Bank" (Marlin Shaw).
 "The Fairies' Complaint" (Gunnings-Clarke).
 "The Brownie" (Frasar Simson).
 "Lullaby" (from "Where the Rainbow Ends" (Quilter).
 MURIEL CALVERT, Violin:
 "Imbride" from Fairy Play, "Where the Rainbow Ends" (Quilter).
 "The Laughter of Seathack" (Ernes Farris).
 IDA SCOTT, piano:
 "The Fairy Dance" (Grieg).
 "Synops" (Grieg).
 Accompanist: IDA SCOTT.
 6.45 p.m.—"Argus" and "Herald" news services, Weather and Aerial Mail information, by The Australian Aerial Services, Ltd.
 6.47 p.m.—Stock Exchange information, Overseas skippling.
 6.52 p.m.—Fish Market reports by J. H. Everett, Ltd.
 6.58 p.m.—Market reports by the Victorian Producers' Co-operative Co. Ltd., Hapscott Sheep Sales, Bogley, Grain, Hay, Straw, Jute, Chaff, Dairy Produce, Potatoes and Onions, Market prices of Oranges and Lemons by the Victorian Central Citrus Association, Fruit Market reports, by the

Wholesale Fruit Growers Association, composed by the "Fruit World" exclusive to B.I.O.

NIGHT SESSION

Speakers—

- MR. P. RYAN.
 7.15 p.m.—MISS E. M. BAIRD.
 7.20 p.m.—MRS. E. M. BAIRD.
 7.25 p.m.—MR. H. A. BROWN.
 7.30 p.m.—HON. H. S. W. LAWSON.
 7.35 p.m.—MAEEL NELSON, Piano.
 7.40 p.m.—ISIS WILLIAMS, Soprano.
 7.45 p.m.—MR. RICHMOND, Violin.
 7.50 p.m.—ETHEL FORSHAW, Soprano.
 7.55 p.m.—GEORGE FINDLAY, Piano.
 8.00 p.m.—MARIE MAGAN, Soprano.
 8.05 p.m.—TRINITY COLLEGE DANCE ORCHESTRA.
 8.10 p.m.—UNIVERSITY MUSICAL SOCIETY.
 8.15 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS.
 8.20 p.m.—Accompanist—ALFRED ANDREW.
 8.25 p.m.—Announcer—ALFRED ANDREW.
 8.30 p.m.—"VARSITY VARSITY VARSITY"
 COMMENCEMENT NIGHT.
 8.35 p.m.—Under the auspices of the Department of Agriculture, MR. P. RYAN, Inspector of Agriculture, "Laying Down Artificial Pastures."
 8.40 p.m.—MISS E. M. BAIRD, "Life Reading."
 8.45 p.m.—CAPTAIN PETERS.
 8.50 p.m.—Books, Wine and Ocherwie."
 8.55 p.m.—LECTURE, TRANSMITTED FROM WIRKA, Olympia, MR. H. A. BROWN, "Gladious Culture."
 9.00 p.m.—MAEEL NELSON, Piano, "Etude" (Scriabine).
 9.05 p.m.—ISIS WILLIAMS, Soprano, "Wind in the Trees" (Thomas).
 9.10 p.m.—UNIVERSITY MUSICAL SOCIETY, Choir, "Medley of Plantagenet Songs."
 9.15 p.m.—"Alloy Ghous—Bohemian Girl."
 9.20 p.m.—MR. RICHMOND, Violin, Selected.
 9.25 p.m.—TRINITY COLLEGE DANCE ORCHESTRA, "Baby Face."
 9.30 p.m.—"Mary Lou."
 9.35 p.m.—"To-night's My Night With Ralph."
 9.40 p.m.—HON. H. S. W. LAWSON, will speak on behalf of the Nationalist Party.
 9.45 p.m.—UNIVERSITY MUSICAL SOCIETY, "Song of the Voiga Boatman" (Boudou Folk Song).
 9.50 p.m.—Humorous, "Pussy's in the Well" (Geo. English).
 9.55 p.m.—GEORGE FINDLAY, Piano, "Grillen" (Schubert), "Schumanns."
 10.00 p.m.—"Warum" (Wolff), (Schumann).
 10.05 p.m.—"Ende vom Lied" (Fed of Song) (Schumann).
 10.10 p.m.—MARIE MAGAN, Soprano, "Serenade" (Tosti).
 10.15 p.m.—HALF AN HOUR WITH THE REV. EYVE GREENW AND HIS ST. KILDA STEAKS (Trinity College Minstrel).
 10.20 p.m.—TRINITY COLLEGE DANCE ORCHESTRA, "Smile a Little Bit."
 10.25 p.m.—"Parodied Version, 'The Prisoner's Song.'" "Where Did You Get Those Eyes?"
 10.30 p.m.—COMMUNITY SINGING, "Shot! Shot! Shot!"
 10.35 p.m.—"Waiting Matilda."
 10.40 p.m.—"Precher's Song."
 10.45 p.m.—"Farewell."
 10.50 p.m.—"A Way We Have of the Varsity."
 10.55 p.m.—"Clementine."
 11.00 p.m.—"Jingle Bells."
 11.05 p.m.—British Official Wireless News from Rugby Announcements.
 11.10 p.m.—TRINITY COLLEGE DANCE ORCHESTRA, "My Little Nidie."
 11.15 p.m.—"Red Riding Hood."
 11.20 p.m.—"Blinking Moon Ray."
 11.25 p.m.—"Aren't News Service: Weather Forecast, Announcements."
 11.30 p.m.—OUR GREAT THOUGHT "Variety Alone Gives Joy the Sweetest Near the Soundest Clap." (Priest).
 11.35 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS, "Idolizing."
 11.40 p.m.—"Nobody But You."
 11.45 p.m.—"There's a Boatman on the Voiga."

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BURGESS RADIO BATTERIES

- 1.25 p.m.—Stock Exchange, second call.
 1.30 p.m.—Marching music for school children.
 1.40 p.m.—Miss Dorrie Carrull, soprano,
 "Land of the Long Ago" (Ray).
 1.45 p.m.—Studio music.
 2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben" and announcements.
 2.5 p.m.—Studio music.
 3.10 p.m.—Miss Mill Meyer, well-known lec-
 turer, will give her second talk dealing
 with "Tracks of the Exodus".
 3.25 p.m.—Miss Jeanette Rooney, contralto.
 3.30 p.m.—Marching music for school children.
 3.40 p.m.—From Farmer's Tea Rooms—Miss
 Nellie Judge, soprano, "Star with me Sun-
 der" (Morris).
 3.45 p.m.—Studio music.
 3.55 p.m.—Pianoforte solo.
 4 p.m.—"Big Ben." From Farmer's Tea
 Rooms—Miss Nance Marley, contralto,
 "Down Skies" (Drummond).
 4.5 p.m.—Studio music.
 4.10 p.m.—Miss Jeanette Rooney, contralto.
 4.15 p.m.—Studio music.
 4.20 p.m.—From Farmer's Tea Rooms—Miss
 Nellie Judge, soprano, "A Persian
 Rhapsody" (Hodbo).
 4.25 p.m.—Studio music.
 4.30 p.m.—From Farmer's Tea Rooms—Miss
 Nance Marley, contralto.
 4.45 p.m.—Stock Exchange, third call.
 Studio music.
 5 p.m.—"Big Ben."
 Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The shades of 2 P.C.
 5.50 p.m.—The "Hello Man" talks to the chil-
 dren.
 6.30 p.m.—A serial story for the older ones.
 6.40 p.m.—Dinner music.
 7 p.m.—"Big Ben." Late sporting news.
 7.5 p.m.—Dalgety's market reports (wool,
 wheat and stock).
 7.15 p.m.—Fruit and vegetable markets.
 7.14 p.m.—Weather and shipping intelligence.
 Stock Exchange.
 7.19 p.m.—Late "Evening News" news ser-
 vice.

NIGHT SESSION.

- 7.45 p.m.—A call by the Technical Editor of
 "Wireless Weekly".
 7.45 p.m.—From Government House—A short
 address by Her Excellency, Lady de Chair,
 dealing with the Red Cross activities.
 7.50 p.m.—From the deck of the R.M.S. "Ro-
 mona," anchored off Neutral Bay, Sydney
 Harbor, a concert arranged by 2 P.C. and
 broadcast by courtesy of Commanding Of-
 ficer of the "Hemona"
 Mr. Alfred Cunningham, baritone, "Is an
 Old-fashioned Town" (Squires).
 7.55 p.m.—Miss Ada Jones, subrette.
 8 p.m.—"Big Ben."
 Mr. Jack Wright, comedy pianist.
 8.1 p.m.—Miss Eileen Boyd, contralto, "My
 Solace" (Barrett).
 8.12 p.m.—Mr. Charles Lawrence, entertainer.
 8.17 p.m.—Madame Emily Marks, soprano.
 8.25 p.m.—Mr. Rex Garling and "Jerry," in
 ventriloquist attire.
 8.27 p.m.—Miss Eileen Boyd, contralto,
 "Blasphemy" (Henderson).
 8.30 p.m.—Mr. Alfred Cunningham, baritone,
 "Chorus, Gentlemen" (Lobri).
 8.35 p.m.—Miss Ada Jones, subrette.
 8.40 p.m.—Mr. Charles Lawrence, entertainer.
 8.45 p.m.—Madame Emily Marks, soprano.
 8.50 p.m.—Mr. Jack Wright, comedy pianist.
 8.55 p.m.—Miss Eileen Boyd, contralto, "My
 Ate Fido" (Lomani).
 9 p.m.—"Big Ben."
 Mr. Alfred Cunningham, baritone, "Father
 O'Brien" (Stiefred).
 8.4 p.m.—Mr. Erart Chaplin, pianoforte solo.
 8.8 p.m.—Madame Emily Marks, soprano.
 8.12 p.m.—Mr. Charles Lawrence, entertainer.
 8.16 p.m.—Miss Ada Jones, subrette.
 8.18 p.m.—Mr. Alfred Cunningham, baritone,
 "Lullaby" (Henderson).
 8.22 p.m.—Miss Eileen Boyd, contralto, "You
 Lovely Thing" (Anderson).
 8.25 p.m.—From Hay's Theatre (late Broad-
 mouth Theatre), Chislewood:

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Do you remember that the orange you sucked as a small boy was never as juicy nor as big as the other boy's?

It's the same thing with country life—grand when you live in the city.

When you hear a man praising the joys of the land as against the "sweated endurance of wage slaves" the odds are that his nearest approach to a rural life has been a holiday at Manly!

"But wireless has brought the farm to the city, abolished isolation and renewed home life." Has it?

In front of me is a letter from a distant set owner whose rechargeable battery runs down in 20 hours and has to be carted 17 miles for another charge at a varying cost of 3/- to 12/6.

Of course my friend's troubles are largely of his own making. If he had bought an 82X Philco battery on easy terms he could have run it two hours a night for 8 to 4 months and then—if he had any electric power at all—recharged it at home for a few pence. Even now there is no reason why he should continue to make a confounded nuisance of his wireless by using an inferior battery.

His plight would have been worse and his costs higher if he had relied on the ordinary cheap dry battery which is a maze and a delusion, running down unexpectedly at the very worst moment. Imagine listening-in to the Dicks of York on a dud battery, especially when neighbors have driven over to hear the set! Life would not be worth living for the unfortunate owner.

Since the writer of the letter is on the right road and about half way to the end, I suggest that he make the whole journey in comfort by installing a real rechargeable Philco. For the first time he will experience the pleasure of pure, perfect reception, with volume and certainty.

The sound art of the musical comedy.

"Gipsy Love." Produced by the Roseville Musical Society.

Musical Numbers:
Song, "Love and Wine" Oliver Lewis and Chorus.

Chorus, "Tell us Joan."

Edna and Chorus, "Welcome Joan."

Sonia, "A Little Maiden" Gwen Taylor.

Dick, "You're in Love," Dorothy Bennett and Victor J. Kelly.

Dick, "The Best Game," Mamie Leslie and John Hagan.

Song, "The Looking Glass," Gwen Taylor.

Dick, "I Go On," Dorothy Bennett and John Hagan.

Finale, "Come On, Come On, Lazy Lasses."

10.25 p.m.—From the Westwark Cafe, Church Hill, Sydney (The Westwark Amphitheatre Dance Orchestra. Conductor, Mr. Frederick Laughlin).

10.30 p.m.—From Hoyts' Picture Theatre, Gloucester.

The third act of the musical comedy, "Gipsy Love," by the Roseville Musical Society.

Musical Numbers:

Intermission.

Revelry Dance.

Song, "Once Again," Victor J. Kelly and Chorus.

Song, "Gipsy Song," John Ryan.

Edna and Chorus, "A Valed from Dreams?"

10.55 p.m.—From the Studio—late news items.

11 a.m.—"Big Bee."

Station, Auckland.

(Close down.)

2BL, SYDNEY

Thursday.

EARLY MORNING SESSION.

7.15 a.m.—G.P.O. Clock and Chimes.

7.18 a.m.—Metropolitan weather forecast.

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

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

7.50 a.m.—G.P.O. Clock and Chimes.

7.52 a.m.—Hints on health.

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

7.58 a.m.—G.P.O. Clock and Chimes.

7.58 a.m.—Weather report.

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

8 a.m.—G.P.O. Clock and Chimes.

Close down.

MORNING SESSION.

8.40 a.m.—G.P.O. Clock and Chimes.

8.53 a.m.—Weather report.

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

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

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

10.59 a.m.—Ten minutes' talk, entitled by the N.I.M.S.A.

11 a.m.—G.P.O. Clock and Chimes.

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

11.15 a.m.—Bullish market report.

11.17 a.m.—Futur market report.

11.19 a.m.—Vegetable market report.

11.21 a.m.—Fruit market report.

11.23 a.m.—London dairy, farm, egg and poultry market report.

11.25 a.m.—London metal quotations.

11.30 a.m.—Ships in call by wireless.

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

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

11.35 a.m.—Women's Section—Social notes by Mrs. Jordan.

11.45 a.m.—Mrs. Ewden replies to correspondents.

11.55 a.m.—Talk on "Photography," by Ellen Beth Matheson.

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

12.30 p.m.—G.P.O. Clock and Chimes.

12.31 p.m.—Sydney Stock Exchange calls.

12.35 p.m.—News from the "Sun."

12.45 p.m.—Billie's Instran vocal Quartet—Director, Carol Costello.

1.30 p.m.—G.P.O. Clock and Chimes.

1.41 p.m.—Weather report.

1.43 p.m.—Sydney Stock Exchange calls.

1.45 p.m.—News from the "Sun."

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

2 p.m.—G.P.O. Clock and Chimes.

Close down.

AFTERNOON SESSION.

Eaching information broadcast by courtesy of the "Sun."

3 p.m.—G.P.O. Clock and Chimes.

3.1 p.m.—Weather report and forecast.

3.15 p.m.—Social notes from the "Sun."

3.16 p.m.—News from the "Sun."

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

3.30 p.m.—G.P.O. Clock and Chimes.

3.32 p.m.—Country Women's Session.

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

4 p.m.—G.P.O. Clock and Chimes.

4.05 p.m.—News from the "Sun."

4.15 p.m.—Serial story.

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

4.45 p.m.—Producers' Distributing Society's fruit and vegetable market report.

4.50 p.m.—Shipping information when available.

4.55 p.m.—Day's racing resume on race days.

4.58 p.m.—News from the "Sun."

4.58 p.m.—Resume of night's programme.

Close down.

8 p.m.—G.P.O. Clock and Chimes.

EARLY EVENING SESSION.

5.55 p.m.—G.P.O. Clock and Chimes.

5.58 p.m.—Lily White and Daddy Lawless will entertain the ladies.

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

SPECIAL COUNTRY SESSION.

7 a.m.—G.P.O. Clock and Chimes.

Australian Agricultural, Land and Finance.

Will entertain the ladies.

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

Weather report and forecast by courtesy of Government Meteorologist.

Producers' Distributing Society's fruit and vegetable market report.

Grain and rubber report ("Sun").

Daily produce report ("Sun").

7.15 p.m.—Country news from the "Sun."

8 a.m.—G.P.O. Clock and Chimes.

Broadcasters' Topics' Chorus.

8.1 p.m.—Miss Daisy Harker, contralto.

8.10 p.m.—Broadcasters' Mash Quartet.

8.17 p.m.—Fashion and social notes by Miss Jessie Torrington. Broadcasters' fashion expert, broadcast from the ballrooms of the Ambassadors.

8.22 p.m.—Miss Ida Lovett, soprano.

8.28 p.m.—Mr. Harold McCulloch (entertainment of the piano).

8.33 p.m.—Mr. Herman Trezona, bass.

8.40 p.m.—Broadcasters' Trio.

8.45 p.m.—Mr. Phil Mountain.

9 p.m.—G.P.O. Clock and Chimes.

9.10 p.m.—Broadcasters' Mash Quartet.

Weather report and forecast by courtesy of Mr. C. J. Mackay, Government Meteorologist.

9.15 p.m.—Miss Billie Davis.

9.18 p.m.—Miss Daisy Harker.

9.20 p.m.—Fashion and social notes from the Ambassadors.

9.24 p.m.—Trezona's Trio.

9.31 p.m.—Miss Ida Lovett.

9.40 p.m.—Mr. Harold McCulloch.

9.45 p.m.—Miss Billie Davis.

9.55 p.m.—Mr. Herman Trezona.

10 p.m.—Phil Mountain.

10.14 p.m.—The Ambassadors' Dance Band broadcast from the ballrooms of the Ambassadors. During the interval, between dances, musical notes by courtesy of the "Sun" will be broadcast.

10.18 p.m.—G.P.O. Clock and Chimes.

National Anthem.

3LO, MELBOURNE

Thursday.

MIDDAY SESSION.
MUSICAL GEM.

THE STUDIO ORCHESTRA.
HUXHAM'S SERENADES.
ELSIE DAVIES, Soprano.
TASMA TIERNAN, Cello.
ARTHUR DOUGLAS, Comedian.
DOROTHY ROXBURGH, Viola.
Announcer MAURICE DUMLEY
Accompanist AGNES FORTUNE

12 noon.—Time Signal, British Official Wire-
less News from Rugby; Reuter's and the
Australian Press Association Cables;
"Aigue" and "Herald" News Service.

12.50 p.m.—HUXHAM'S SERENADES,
Quartet, "The Duck's Clock."
ELIETH HUXHAM, DOLLY BURDETT,
KENN MILLAR and RICH HUXHAM.
Contralto Solo, "When All Was Young,"
DOLLY BURDETT
Studio Orchestra, "Jolly Robbers" (Soppe).
Quartet, "Daisy V., Or Ma Honey."

THE SERENADER QUARTETTE.
Humorous Quartette, "Did You Ever go a
Sailing."

THE SERENADER QUARTETTE.
Studio Orchestra, "Minstrel" (Old English).
Operatic Quartette, "Greeting to Spring."

THE SERENADER QUARTETTE

12.40 p.m.—Stock Exchange Information.
12.50 p.m.—ELSIE DAVIES, Soprano,
Aria, "Una Voce Poco Fa" (Rossini).
12.55 p.m.—STUDIO ORCHESTRA,
"The Cello of the King" (Bachman).
1.1 p.m.—TASMA TIERNAN, Cello,
"Elegie" (Faure).
1.14 p.m.—Weather Report.
1.20 p.m.—Studio Orchestra,
"Persian Dance" (Herbert).
1.30 p.m.—ARTHUR DOUGLAS, Comedian,
"Ohio" (Lauder).
1.35 p.m.—DOROTHY ROXBURGH, Viola,
"Song Without Words—No. 10" (Hansen).
1.45 p.m.—ELSIE DAVIES, Soprano,
"Ave Maria" (Mozart).
"Waltz Song—Soprano, MARI."
1.52 p.m.—STUDIO ORCHESTRA,
"Yester Eve" (Zamereck).
"Scented Violets" (Reynard).
2.0 p.m.—Close Down.
2.30 p.m.—AUTUMN GARDEN WEEK Lec-
ture, transmitted from Wiet's Olympia.
Mr. E. F. Cook,
"Garden Planning."
2.45 p.m.—Close Down.

AFTERNOON SESSION.

"EVER LET THE FANCY ROAM,
PLEASURE NEVER IS AT HOME."
Speaker: MISS FRANCES FRASER.
THE STUDIO ORCHESTRA.
MARY CLAXTON, Soprano.
JOHN D. FITZGER, Baritone.
THELMA READY, Banjo.
MARIE LA VARRE.
Announcer MAURICE DUMLEY
Accompanist AGNES FORTUNE

3.0 p.m.—STUDIO ORCHESTRA,
Overture, "Davidson's" (Beethoven).
3.10 p.m.—MARY CLAXTON, Soprano,
"I Hear a Thrush at Eve" (Cadenan).
"For You Alone."
3.17 p.m.—STUDIO ORCHESTRA,
"By the Garden Gate" (Nathan).
"Star Blossom" (Loran).
3.23 p.m.—JOHN D. FITZGER, Baritone, of
the "Rose Marie" Company, by permission of
J. C. Williamson, Ltd.).
"Valse" (Tosti).
"Fitch my Lonely Caravan at Night"
(Couten).
3.34 p.m.—THELMA READY, Banjo,
"Popular Airs."
3.40 p.m.—MARIE LA VARRE, Comedienne,
"Aristonia."
"If I Can't Have You."
3.47 p.m.—STUDIO ORCHESTRA,
"Ambler—Romance in G Minor" (Mozart).
4.0 p.m.—MARY CLAXTON, Soprano,
"Pale Moon" (Loran).
"I Know a Lovely Garden" (d'Hardelot).
4.7 p.m.—THELMA READY, Banjo,
Selected Banjo Pieces.
4.15 p.m.—MISS FRANCES FRASER,
Evelina.
4.30 p.m.—"Herald" News Service; Stock Ex-
change Information; Auctioneers for Sand-
own Park Races, 6th April, 1927.

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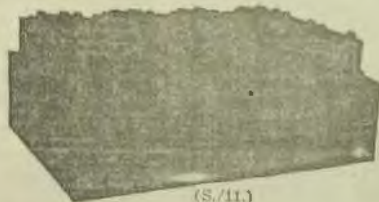
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BERLIN - STEGLITZ
WIENENWEG 10

8.45 p.m. - WENSONG, transmitted from St. Paul's Cathedral.
9.30 p.m. - Close Down.

EVENING SESSION.

- 8.45 p.m. - CHILDREN'S HOUR. Answers to Letters and Birthday Greetings.
- 8.55 p.m. - HAROLD COLLIER, Montebourg Selections.
- 9.0 p.m. - "MARY GUMLEAF," Poems, "The Biggest Out," "Broom Wives," "Ways for the Littlest Ones," "How Joan Came a Fairy."
- 9.10 p.m. - "CHECK" HAYES has liked talking in the grown-up language to ELIZABETH, that he now wants to have a word with the children!
- 9.17 p.m. - HAROLD COLLIER, will give two more Montebourg selections.
- 9.24 p.m. - "MARY GUMLEAF," Story for the biggest boys and girls, "A serious Story."
- 9.31 p.m. - "Atlas" and "Herald" News Services. Weather. Economic Shipping. Markets.
- 9.37 p.m. - Stock Exchange Information.
- 9.43 p.m. - "Bull Market Reports," by J. R. Burrell, Ltd.
- 9.48 p.m. - "Daily Reports."
- 9.53 p.m. - Market Reports by the Victorian Producers' Cooperative Co., Ltd. (Dunsmuir, Sheep Sales; Tulliver, Hax, Saxon, Sigs; Dairy Producers; Potatoes and Onions).
- 9.59 p.m. - Market Reports of Fruit in the Victoria Producers' Association, compiled by the "Fruit World," exclusive to B.L.O. Market prices of Oranges and Lemons by the Victoria Central Citrus Association, P.O. 120.

NIGHT SESSION.

- Speakers:
 - MR. W. R. BUTLER.
 - MR. E. M. PASCOE.
 - MR. FREDERICK BENTLEY.
 - MR. T. W. POCKETT.
- JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS.
- MARIE LA VAREE, Comedienne, CATHY BROS.
- HUXHAM'S SERENADES.
- ELIE DAVIES, Soprano.
- GRACE JACKSON, Contralto.
- Announcer - ALFRED ANDREW Accompanied by AGNES BERTUNE.
- 7.15 p.m. - Under the Auspices of the ROYAL VICTORIAN INSTITUTE OF ARCHITECTS, Mr. W. R. BUTLER, F.R.I.C.A., "The Garden in Relation to the Home."
- 7.30 p.m. - MR. E. M. PASCOE, will speak on "How!"
- 7.45 p.m. - MR. FREDERICK BENTLEY, now playing the part of "Hard-boiled Heron," in "Rose Marie" at His Majesty's Theatre, will speak to you from his dressing-room, by permission of J. C. Williamson, Ltd.
- "I HAD RATHER HAVE A FOOL TO MAKE ME MERRY THAN EXPERIENCE TO MAKE ME SAD."
- 8.0 p.m. - ALFRED GARDEN WEEK. Lecture by Mr. T. W. POCKETT. "A Talk on Chronology."
- 8.10 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Alphabets Stomp" (Cramer), "Adarabab" (Ford), "Just a Bird's Eye View" (Kahn), "8.30 p.m. - MARIE LA VAREE, Comedienne, "June Night."
- 8.4 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Pearl of Malabar" (Nichols), "Dream of Love and Joy" (Tully), "Am I Worried By You?" (Holt),
- 8.34 p.m. - CATHY BROS., Songs and Impressions.
- 8.38 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Rose Colored Glasses" (Sanger), "It's a Wonderful World After All" (Duck), "My Dream of the Sea" (Dubin),
- 8.43 p.m. - ELIE DAVIES, Soprano, "Loretta" (Holt).
- 8.48 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "My Pal Jerry" (Roe), "How Fought Red Rolling Hood" (Randolph), "Somebody's Lately" (Davis),

- 8.52 p.m. - HUXHAM'S SERENADES. "Tip, Tip, Toot, Toot."
- 8.56 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Hufferreddy" (Berg), "Gave Your Sorrow" (De Silva), "See It Again" (Richman),
- 8.58 p.m. - MARIE LA VAREE, Comedienne, "Am I Wasting My Time On You?"
- 8.59 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Frenchie" (Holt), "A Peace With the World" (Holt), "The Animal World" (Holt),
- 8.59 p.m. - CATHY BROS., Songs and Impressions.
- 8.44 p.m. - ELIE DAVIES AND HIS SYNCOPATING SYMPHONISTS. "Talking to the Moon" (Buckley), "Let's Grow Old Together" (Nelson), "While We Dance Till Dawn" (Schuster),
- 8.44 p.m. - ELIE DAVIES, Soprano, "Mia Fierella" (Gower).
- 8.45 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "I Made You Happy" (Donaldson), "I'll Climb the Highest Mountain" (Brown),
- 8.55 p.m. - HUXHAM'S SERENADES, Harmonic Quartet, "The Jubilee."
- 8.56 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Shut it Back Again," "Give That You Love Me" (Nichols), "Lonesome and Sorry" (Davis),
- 8.57 p.m. - ARONSON, News Service: British Official Wireless News; Meteorological Information; Sporting Notes in "Olympic."
- 8.57 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Toughen My Neck With Babu" (Meyer), "The Savvy Madry of Madleys" (Arr, Somers),
- "Cherry, I Love You" (Goodman),
- 8.57 p.m. - GRACE JACKSON, Contralto, "Life in a Casanova" (Del Rivo),
- 8.58 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "No Fussin', Who Do You Love?" (Buck), "Whisper 'Em'" (Bryan), "Sing, Katie, but Leave the Piano Alone" (Traces),
- 8.59 p.m. - HUXHAM'S SERENADES. Operatic Quartet: "William Tell" The Overture to "William Tell" Words by Hans Miller.
- 8.59 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Where Did You Get Those Eyes" (Donaldson),
- 8.59 p.m. - OUR GREAT THOUGHT. "Who Lives Without Folly is not so Wise as he thinks." In Bouchefoucauld.
- 8.53 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Paradise Alley" (Archer), "While the Year is Drifting By" (Kahn), "I Can't Forget" (Morison),
- 8.58 p.m. - GRACE JACKSON, Contralto, "Little Red Riding Hood" (Morison),
- 8.54 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "Bandwagon" (Walker), "Laughing at the Devil" (Wendell), "Bye, Bye, Blackbird" (Holt),
- 8.54 p.m. - CATHY BROS., Songs and Impressions.
- 8.52 p.m. - JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS. "We Don't Want to Get Married" (Stern), "Performance of the Case" (Mason), "Thinking of You" (Ash), "There Ain't no Marble in My Baby's Kyan" (Roe),
- 8.50 p.m. - "A Little Garden" (Holt),
- 8.40 p.m. - GOD SAVE THE KING.

4QC, BRISBANE

Thursday,

MORNING.

PUBLIC RECEPTION TO THE DUKE OF YORK.

The Grand Public Reception to the Duke of York will be held in the Botanic Gardens and will be broadcast.

11.30 a.m.—From the Botanic Gardens: Public Reception; Music by Mixed Bands.
12.30 p.m. (approximately)—Close Down.
MIDDAY SESSION.

1.2 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 Symphony Orchestra.

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

AFTERNOON SESSION.

2.30 p.m.—A PROGRAMME OF MUSIC FROM THE STUDIO: Duo Art selection, "Spring" (Mozkowsky); Aeolian Vocalion selections—in bass solo, "The Blacksmith" (Slater), (b) tenor, "The Two of Us" (Phillips) Don Parker and his band; Duo Art selection, "The Chapel in the Mountains" (Wilson); Aeolian Vocalion selections—in soprano solo "Il Dolce Suono" (Donatelli), Miss Evelyn Setney, (b) violin and piano "Sonata in A" (Franck), Miss Phyllis Allan and Miss Ethel Hobley; recitette, "Child Welfare—Teeth" by Lecretette; Duo Art selection, "Dream of an Angel" (P.Oros); Aeolian Vocalion selections—in contralto solo, "O Western Wind" (Brahe), Miss Ethel Hook, (b) overture, "Post and Peasant" (Suppe), Knights of Columbus Band; Duo Art selection, "Coquette Macurra" (Larroca); recitette, Talk No. 4 on "Baseball," by a representative of the Australian Ladies' Baseball Association.

4.20 p.m.—"The Telegraph" News.

4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.5 p.m.—"Daily Standard" News; Announcements.

6.30 p.m.—Bedtime Stories by "The Sandman."

7.0 p.m.—Market Reports; Stock Reports; "Lecturette," "Talk on Cotton Ginning," Mr. L. L. Gudge (Chief Government Cotton Classifier).

7.45 p.m.—Weather News; Announcements.
7.45 p.m.—Standard Time Signal.

NIGHT SESSION.

7.45 p.m.—Lecture Session: A talk on books by Mr. W. A. Braiden (McLeod).

DUKE OF YORK'S VISIT.

VICE REGAL BALL.
The Vice Regal Ball, which is being tendered to their Royal Highnesses the Duke and Duchess of York will be relayed from the new wool store at New Farm.

A description of the scene and of the arrival and departure of the Duke and Duchess will be relayed.

The Dance Music will also be broadcast.
8.0 p.m.—From the Ballroom: Dance Music.
8.45 p.m.—Description of the arrival of the Duke and Duchess.

9.0 p.m.—Dance Music.

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

6WF, PERTH

Thursday.

12.30 p.m.—Tune in.

12.35 p.m.—First local News Bulletin, Market Reports, Cable.

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

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

2.15 p.m.—STUDIO QUINETTE.

2.15 p.m.—Close down.

2.30 p.m.—Tune in.

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

4.0 p.m.—STUDIO TRIO.

4.30 p.m.—Close down.

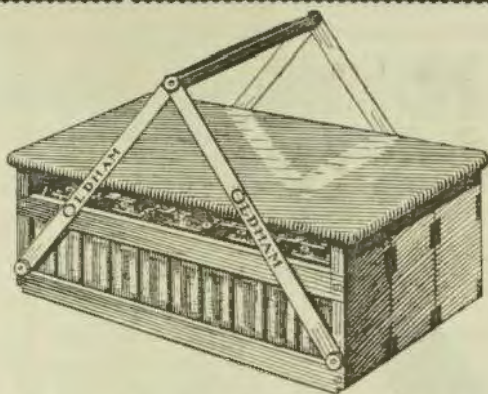
7.0 p.m.—Tune in.

7.5 p.m.—Stories for Tiny Tots, by Annie Kate.

8.20 p.m.—Uncle Duffy will talk to the kids.

8.35 p.m.—Stocks, Market News.

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



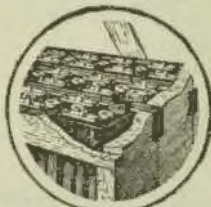
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View showing stout glass cells arranged in rows, tapped at each 2 volts.

Compact and Portable.

Fitted with stout carrying handle. Each six-volt unit supplied with padded wooden lid to prevent accumulation of dust.

Long Life Special Activation Process.

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3.15 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
3.30 p.m.—ORCHESTRA CONCERT.
RWA's Station Orchestra. Conductor, Mr. H. E. Moyle A.T.C.L.
3.45 p.m.—Sound Local News Bulletin supported by extracts of "The Daily News" Newspaper, Cal.
10.30 p.m.—Close down.

Friday, April 8 2FC, SYDNEY

MIDDAY SESSION

12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange First Call.
12.5 p.m.—Official Western Forecast, Rainfall, Temperature, Astronomical Observations, Shipping Intelligence, Mail Services.
12.15 p.m.—Radio Music.
12.35 p.m.—Summary of "Sydney Morning Herald" News Service and Cable.
12.45 p.m.—Radio Music.
12.55 p.m.—Talk on Farm cooking and Canning, by Miss Edith Barr.
1.15 p.m.—Miss Anne Louisa, soprano—"Tired Heart" (Sanderson).
1.40 p.m.—"Big Ben" Weather Intelligence.
1.3 p.m.—"Evening News" Morning News Review; "Producers" Distributing Society's Report.
1.25 p.m.—Radio Music.
1.45 p.m.—Stock Exchange second call.
1.50 p.m.—Marching Music for School Children.
1.55 p.m.—Radio Music.
1.55 p.m.—Miss Anne Louisa, soprano, "I Love My Moon" (Hansen).
1.56 p.m.—Radio Music.
2.0 p.m.—"Big Ben" Close Down.

AFTERNOON SESSION

2.0 p.m.—"Big Ben" and Programme Announcements.
2.2 p.m.—Music from the Studio.
2.35 p.m.—Mr. E. H. Bowden will give a talk entitled—"The Dances—the stream of dancers"—Mr. Cliff Hanning, violin solo, "Indian Lament" (Drexler-Kreider).
2.45 p.m.—Marching Music for School Children.
2.50 p.m.—From Farmer's Tea Room; Miss Helen Morison, mezzo, "Dale Moon" (Langan).
3.15 p.m.—From the Studio; Mr. Cliff Hanning, violin solo, "Midnight Blues" (Hauptvogel-Kreider).
3.25 p.m.—Miss Katherine Beverley, soprano, "If We Sailed Away" (Pfallinger).
3.40 p.m.—"Big Ben" From Farmer's Tea Room; Miss Ethel Muller, contralto, "Vaduz" (Rams).
3.45 p.m.—A Music Talk by Mr. Edward Champion.
3.55 p.m.—From Farmer's Tea Room; Miss Ethel Morison, mezzo, "At Dawning" (Champion).
4.05 p.m.—Radio Music.
4.15 p.m.—Miss Katherine Beverley, soprano, "The Bird" (Pfallinger).
4.25 p.m.—Radio Music.
4.45 p.m.—From Farmer's Tea Room; Miss Ethel Muller, contralto, "Vaduz" (Rams).
4.55 p.m.—Stock Exchange Third Call; Radio Music.
5.0 p.m.—"Big Ben" Close Down.

EARLY EVENING SESSION

5.45 p.m.—"The Clamor of BPO."
6.00 p.m.—"The Hello Man" Talks to the Children.
6.30 p.m.—A Serial Story for the Oldsters.
6.45 p.m.—From Farmer's Oak Dining Hall.
7.00 p.m.—"Big Ben" Last Minute Sporting Information by the JFC Racing Commission.
7.10 p.m.—Bishop's Market Reports (wheat, wheat and maize).
7.15 p.m.—Fruit and Vegetable Markets.
7.25 p.m.—Weather and Shipping Intelligence.
7.35 p.m.—Late "Evening News" News Service.

NIGHT SESSION

7.40 p.m.—The Programme announcements.

7.45 p.m.—A Talk by Mr. E. J. Van de Velde. Subject: "How to Photograph Animals."
8.0 p.m.—"Big Ben" From the Loewen Theatre, Pitt Street, Sydney; Orchestral Items.
8.15 p.m.—From the Studio; Miss Mabel Bevan, soprano—"O Heart of Mine" (Galloway).
8.25 p.m.—"The Ring Murnong" (Newby).
8.35 p.m.—A Talk by Mr. W. P. Kay (the chief of the series), subject: "Immortals of the Sydney Stage—First Comedians."
8.45 p.m.—Mr. Harold Tollenbach, baritone, "This Was Greatest Toperation" (Vardi).
8.55 p.m.—Miss Helen Davis, Xylophone solo, "Marche Impromptu" (Henel Kowalski).
9.05 p.m.—Mr. Leo Cony, Comedian, "Fit Willow" (Hauptvogel). (James).
9.20 p.m.—"Big Ben" From the Loewen Theatre, Pitt Street, Sydney; Orchestral Items and Vocal Act.
9.35 p.m.—From the Studio; Miss Mabel Bevan, soprano, "O Saviour Hear Me" (Hilker), with Solo duobus by Mr. E. W. Carson.
9.54 p.m.—Mr. Leo Cony, Comedian, "I'm Fond of Smaller Ned Milk" (Lange).
10.10 p.m.—Mr. Harold Tollenbach, baritone, "I'm Full of the Moon" (Schubert).
10.15 p.m.—"Am Fam" (Hansen).
10.25 p.m.—Mr. E. W. Carson, Solo solo, "Coolidge" (Hauptvogel).
10.35 p.m.—From the Studio; Miss Mabel Bevan, soprano, "Absence" (Gowan).
10.55 p.m.—Miss Helen Davis, Xylophone solo, "Where Did You Get Those Eyes?"
11.05 p.m.—"Big Ben"; Mr. Harold Tollenbach, baritone, "Melody of Home" (Hauptvogel).
11.15 p.m.—From the Loewen Theatre, Pitt Street, Sydney; Orchestral Items.
11.34 p.m.—From the Studio; Mr. Leo Cony, Comedian, "A Daring Dile" (Bart Lee).
11.35 p.m.—Miss Helen Davis, Xylophone solo, "The Only My Niece With Baby."
11.45 p.m.—"This Was Greatest Toperation."
11.55 p.m.—From the Wentworth Cafe, Church Hill, Sydney; The New Wentworth Symphonic Dance Orchestra, under the baton of Mr. Frederick Laidman.
12.05 p.m.—From the Studio; Mr. Leo Cony, Comedian, "Married Man Blues" (Weston and Lee).
12.10 p.m.—From the Wentworth Cafe, Church Hill, Sydney; The Wentworth Symphonic Dance Orchestra in popular numbers.
12.30 p.m.—From the Studio; Celebrity Records; Late News, and Announcements.
11.30 p.m.—"Big Ben" Close Down; National Anthem.

3LO MELBOURNE

Friday.

MIDDAY SESSION. VIOLETT AND BROTH. THE STUDIO ORCHESTRA. HUTCHMAN'S SEBASTIANS.

12.15 p.m.—"The Dances—the stream of dancers"—Mr. Cliff Hanning, violin solo, "Indian Lament" (Drexler-Kreider).
12.45 p.m.—Marching Music for School Children.
12.50 p.m.—From Farmer's Tea Room; Miss Helen Morison, mezzo, "Dale Moon" (Langan).
1.15 p.m.—From the Studio; Mr. Cliff Hanning, violin solo, "Midnight Blues" (Hauptvogel-Kreider).
1.25 p.m.—Miss Katherine Beverley, soprano, "If We Sailed Away" (Pfallinger).
1.40 p.m.—"Big Ben" From Farmer's Tea Room; Miss Ethel Muller, contralto, "Vaduz" (Rams).
1.45 p.m.—A Music Talk by Mr. Edward Champion.
1.55 p.m.—From Farmer's Tea Room; Miss Ethel Morison, mezzo, "At Dawning" (Champion).
2.05 p.m.—Radio Music.
2.15 p.m.—Miss Katherine Beverley, soprano, "The Bird" (Pfallinger).
2.25 p.m.—Radio Music.
2.45 p.m.—From Farmer's Tea Room; Miss Ethel Muller, contralto, "Vaduz" (Rams).
2.55 p.m.—Stock Exchange Third Call; Radio Music.
3.0 p.m.—"Big Ben" Close Down.

12.30 p.m.—"The Clamor of BPO."
12.45 p.m.—"The Hello Man" Talks to the Children.
12.50 p.m.—A Serial Story for the Oldsters.
12.55 p.m.—From Farmer's Oak Dining Hall.
1.00 p.m.—"Big Ben" Last Minute Sporting Information by the JFC Racing Commission.
1.10 p.m.—Bishop's Market Reports (wheat, wheat and maize).
1.15 p.m.—Fruit and Vegetable Markets.
1.25 p.m.—Weather and Shipping Intelligence.
1.35 p.m.—Late "Evening News" News Service.

7.40 p.m.—The Programme announcements.

- 1.15 p.m.—Weather report.
 1.30 p.m.—THE STUDIO ORCHESTRA:
 Overture, "The City of Love" (Hermann).
 1.45 p.m.—"CHECK" HAYES, the Talkative
 Chap:
 "Pants and smokes."
 1.55 p.m.—THE STUDIO ORCHESTRA:
 "Polka Marzeka" (Liszt).
 1.57 p.m.—C. RICHARD CRUDD, (soprano):
 "Engische" (Bachner).
 1.52 p.m.—TAYLOR AND SUMMERS, Eng-
 lish comedienne:
 Radio Riots.
 2 p.m.—Close down.
 2.30 p.m.—AUTUMN GARDEN WEEK, Lec-
 ture, Mr. Jas. Ratton, "Fairs for homes
 and garden decoration."

AFTERNOON SESSION.

- Speakers: "AU FAIT."
 MRS. HARGRE.
 2.45 p.m.—THE STUDIO ORCHESTRA:
 MARIE LA VARRIE, comedienne.
 ARTHUR DOUGLAS, comedian.
 WALTER SMITH, cornet.
 FREDIA NORTHGOTE, soprano.
 Announcer: WALTER SMITH, cornet.
 Accompanist: AGNES FORTUNE.
 3 p.m.—STUDIO ORCHESTRA:
 "Tango" (Wedding), (Liszt).
 3.10 p.m.—"AU FAIT" will give a
 Fashion Talk.
 3.25 p.m.—MARIE LA VARRIE, comedienne:
 "Smile a little bit."
 "Anne Hathaway."
 3.35 p.m.—STUDIO ORCHESTRA:
 "Andante from Violin Concerto" (Ber-
 lioz).
 3.42 p.m.—ARTHUR DOUGLAS, comedian:
 "She's the bee for me" (Lauder).
 3.50 p.m.—STUDIO ORCHESTRA:
 Selection, "La Boheme" (Puccini).
 4 p.m.—AUTUMN GARDEN WEEK Lecture,
 Mr. E. E. Parrott:
 "Bulbous Plants."
 4.10 p.m.—FREDIA NORTHGOTE, soprano:
 "Snowflakes" (Cowen).
 "Saphire Ode" (Bachner).
 4.17 p.m.—WALTER SMITH, cornet:
 "The Baric Norwegian" (Rounds).
 4.25 p.m.—FREDIA NORTHGOTE, soprano:
 "Reve d'Amour" (Faure).
 "The Ash Grove" (Goswami).
 4.30 p.m.—MRS. M. GALLAWAY MAHOOD:
 "Art in Modern Life."
 4.45 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 birthday greetings.
 6.05 p.m.—BU CHAM'S SERENADERS:
 Humorous Quartet, "We wonder why."
 EBBY Huxton, Dolly Durdon, Renn Mil-
 ler, and Hugh Rushen.
 "All about a rabbit." The Serenaders.
 6.15 p.m.—"BILLY BUNNY" has a new story
 for the kids.
 6.15 p.m.—CAPT. DONALD MACLEAN will
 tell you about "Drake and the Treasure of
 the World."
 6.25 p.m.—"BILLY BUNNY"—Story for the
 bigger children, "Terrorised Yales."
 6.35 p.m.—"Herald" and "Herald" news ser-
 vice. Weather synopsis. Shipping infor-
 mation.
 Stock Exchange information.
 6.50 p.m.—Fash market reports, by J. R.
 Hargre.
 6.55 p.m.—River reports.
 6.55 p.m.—Market reports of fruit, by the
 Victorian Fruitgrowers' Association, supplied by
 the "Fruit World" exclusive to R.L.G. Mar-
 ket prices of Oranges and Lemons by the
 Victorian Central Citrus Association Pty.,
 Ltd.

NIGHT SESSION.
POPULARITIES.

- Speakers: MR. W. C. RUGG.
 MR. H. A. EDWARDS.
 MR. H. K. LOVE.
 "CARDIAN"
 THE STUDIO ORCHESTRA,
 COLLINGWOOD CITIZENS' BAND.

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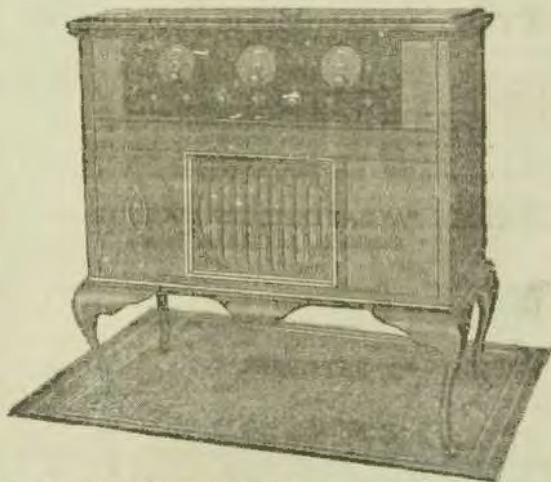
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Exide "A" BATTERIES IN 2 VOLT UNITS.

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

Exide "A" BATTERIES IN 2 VOLT UNITS.

Suitable for Dual Emitter Valves.

Type.	Capacity.	Hours Intermittent	Price each Cell fully charged.	£	s.	d.
D.T.G.	20 amp.	Hours Intermittent	0	8	6	0
D.F.G.	40 amp.	Hours Intermittent	0	16	0	0

Exide "B" BATTERIES.

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

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WALTER SMITH, cornet.
"CHECK" HAYES, the Talkative Chap.
ELSIE DAVIES, soprano.
MOANA LEO DUG, Hawaiian instruments.
Bands.

THE CELEBRITY FOUR.

CATHY BROS., comedians.

Announcer: ALFRED ANDREW.

Accompanist: AGNES FORTUNE.

10.10 a.m.—Under the auspices of the Depart-

ment of Agriculture, Mr. W. C. RUGG

Poultry Experts.

"Selection of Breeding Poultry."

10.30 p.m.—STUDIO ORCHESTRA.

"Selection, 'De No, Nantoli' (Yokosuka).

11.00 p.m.—GRACE JACKSON, contralto.

"Angus MacDonald" (Rockley).

"Keep on Hopin'" (Maxwell).

11.15—WALTER SMITH, cornet.

"Carnival of Venice" (Levy).

11.35 p.m.—"CHECK" HAYES, the Talkative

Chap.

In Frivolous Mood.

12.00 p.m.—ALICE GARDEN WEEK Lec-

ture, Mr. W. A. Edmunds.

"The Value of Garden Week to the Com-

munity."

12.15 p.m.—COLLINGWOOD CITIZENS.

Band.

"Rose Marie."

12.30 p.m.—ELSIE DAVIES, soprano.

"Lull, Lull, Goodnight" (Ponchelli).

12.45 p.m.—MOANA LEO DUG.

"Island Melodies."

"Heaven Thy Window"

12.50 p.m.—COLLINGWOOD CITIZENS

BAND.

Novelty: "A Day on a Farm."

1.00 p.m.—THE CELEBRITY FOUR, under

direction of Mr. W. G. JAMES.

Finale Act 1: "Lullabies" (Fuchs).

Song: "Viva" "Merry Wallow" (Lohari).

1.05 p.m. Duet, "Trot Here and There

(Veronica).

1.15 p.m.—STUDIO ORCHESTRA:

"A Russian Dance" (Gru Langens).

1.20 p.m.—MR. H. K. LOVE will give a

Technical Talk.

1.25 p.m.—COLLINGWOOD CITIZENS

BAND:

"Frotolo and Mazurka from Copella."

Coronet solo: "Easter Flowers."

1.30 p.m.—GRACE JACKSON, contralto:

"Song of Thanksgiving" (Allinson).

"I Love You Truly" (Bond).

1.35 p.m.—MOANA LEO DUG:

"Hello, Aloha."

"Barcelona."

1.40 p.m.—CATHY BROS.

"Songs and Impressions."

1.45 p.m.—"BARDIAN," Mr. H. A. Walter,

Sporting Editor of the "Argus" and "Ac-

cratachian," will speak on Saturday's chess.

1.50 p.m.—COLLINGWOOD CITIZENS

BAND:

Trombone solo: "Lead Me Your A.M."

Soloist: A. Thorne.

"In Collier Cool."

1.55 p.m.—"Argus" news service. British

official wireless news from Rugby. An-

ouncements.

10.25 p.m.—STUDIO ORCHESTRA:

Selection: "Maid of the Mountains" (Fran-

zoni).

10.30 p.m.—ELSIE DAVIES, soprano:

"Oh, del mio dolce ardor" (Gluck).

"Credo Song" (Schubert).

10.35 p.m.—COLLINGWOOD CITIZENS

BAND:

March, "Rustic Bass Player."

Intermission: "Dreamland" (Halle).

10.45 p.m.—Road notes, supplied by the Royal

Automobile Club of Victoria. Meteorologi-

cal information. Announcements.

11 p.m.—OUR GREAT THOUGHET.

"Diagnosis is the salt and fancy the

other sweetens it." Bayre.

11.15 p.m.—JOE ARONSON AND HIS

SYNDICATING SYMPHONISTS:

"Anus" (Branica).

"I wish I had my old gal back" (Yellens).

"Bye, Bye Blackbird" (Dixon).

"Tonight's my night with babs" (Meyers).
 "Hickins" (West).
 "In a Little Spanish Town" (Wayne).
 "Buffydu" (Males).
 "No Too, Ho-Ho! Ha-Ha!" (Woods).
 "Ho, Ho, the Merrie" (Brown).
 "Aloha Oe" (arr. Berger).
 "That's Why I Love You" (Donaldson).
 "The Village Blacksmith" (Moore).
 "If I wasting my time" (Bibi).
 "Rosa Colored Glasses" (Steiner).
 "You're Got to Buck Shuffle" (Sparks).
 "Let's talk about my women" (Kahn).
 "I wish you were jealous of me" (Rowell).
 "That Samson and Delilah Melody" (Greig).
 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.

AFTERNOON SESSION.

DUKE OF YORK'S VISIT.

SCHOOL CHILDREN'S CARNIVAL.

A full description of the School Children's Sports, which will be attended by their Royal Highnesses, the Duke and Duchess of York, will be relayed from the Exhibition Grounds.

2.30 p.m.—From the Exhibition Grounds: School Children's Sports.

2.50 p.m.—Description of the arrival of the Duke and Duchess.

NATIONAL COUNCIL OF WOMEN.

4.0 p.m.—From the Exhibition Hall: The reception to the Duchess of York by the National Council of Women, will be relayed.

6.0 p.m.—Close Down.

EARLY EVENING SESSION.

6.0 p.m.—"Daily Standard" News: Weather Information: Announcements.

6.30 p.m.—Bedtime Stories by "The Sandman".

7.0 p.m.—Market Reports: Stock Reports: Lecturette, "From Brisbane to Perth: Some glimpses of Rural Australia." Mr. J. F. E. Reid, (Editor, "Queensland Agricultural Journal").

7.30 p.m.—Weather News: Announcements.

7.45 p.m.—Standard Time Signal.

NIGHT SESSION.

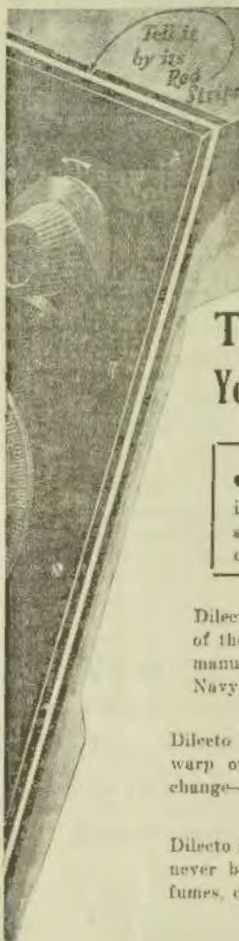
7.45 p.m.—Lecture Session: "Civil Economy and Town Planning," by Mr. R. A. Melonis (Chairman of the Executive Committee of the Town Planning Association of Queensland).

DUKE OF YORK'S VISIT.

GRAND STATE RECEPTION.

The State Reception to their Royal Highnesses the Duke and Duchess of York, which will be held at Parliament House, will be relayed.

8.0 p.m.—From Parliament House: State Reception to the Duke and Duchess: Band March from the laws; description of presentation of guests to their Royal Highnesses: Musical programme arranged by 4QG, and including the following:—Selection, "The Merry Widow" (Lehar); selection, "The Belle of New York" (Kerker); selection, "A Ballad Salad" (Ashton); popular numbers—(a) "Always" (Berlin), (b) "To Your Good Hat" (Tellen), the 4QG Studio Orchestra; selection, "Mail of the Mountains" (Moran), the 4QG Studio Orchestra; selection, "The British Lion" (Benetti), the 4QG Studio Orchestra; contralto solo, (a) "Indian Love Call" (Baubek Friml), (b) "Invitation" (Down), Miss Jill Manners; bass solo, (a) "There's a Land" (Allison), (b) "Up From Somerset" (Sanderson), Mr. Stanley Tamplin.
 11.0 p.m.—(approximately)—From the Studio: "The Daily Mail" News, Weather News; Close Down.



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6WF, PERTH

Friday

- 12.30 p.m.—Tune in.
12.35 p.m.—First Local News Bulletin. Market reports. Cable.
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.
1.30 p.m.—Close down.
1.30 p.m.—Tune in.
1.35 p.m.—Musical programme.
1.40 p.m.—Close down.
1 p.m.—Tune in.
1.5 p.m.—Musical evening for the Kiddies by Aunt Kate and Uncle Henry, Lottie Perry and Duff.
1.55 p.m.—Stock and share intelligence. Market reports. Cable. News supplied by courtesy of "The West Australian" Newspaper Co.
2 p.m.—Time signal from Perth Observatory.
2.1 p.m.—Weather notes supplied by the Meteorological Bureau of Western Australia.
2.1 p.m.—Talk "Books of the month," by Mr. J. P. Bethgate.
2.15 p.m.—A RELAY.
Lecture No. 4, "The Sonata and its Development," by MISS FLORENCE HUBB, L.R.A.M. and visiting Artist.
2 p.m.—FROM THE STUDIO.
Talk "Gardening Notes," by MR. E. A. RUGGLES, Representative Messrs. Dawson & Harcourt.
Items by Messrs. Sutton and Foley, Instrumental Duo of the S.M. Kamala.
10 p.m.—Second Local News Bulletin, supplied by courtesy of "The Daily News" Newspaper Co.
10.50 p.m.—Close down.

Saturday, April 9 2FC, SYDNEY

MIDDAY SESSION.

- 12.30 p.m.—The climax of 2FC and programme announcements.
12.35 p.m.—Music from the studio.
12.40 p.m.—A talk on Gardening by Mr. C. J. Lambie ("Badgum").
1 p.m.—"Big Ben." Weather intelligence. Stock Exchange information.
1.1 p.m.—"Evening News" midday news service. Commercial news.
1.20 p.m.—Studio music.
1.30 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

- 2 p.m.—"Big Ben." Studio music.
NOTE: During the afternoon results of the Warwick Farm races will be given.
FROM THE WENTWORTH CAFE, CHURCH HILL, SYDNEY.
Items by the Wentworth Symphony Dance Orchestra, under the baton of Mr. Friedrich Leighton, interspersed by musical items from the studio.
4.30 p.m.—Complete resume of the afternoon's sporting events, including cricket, tennis, golf, swimming, racing, etc.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—The climax of 2FC.
5.50 p.m.—The "Tabu 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." Complete resume of the day's sporting events.
7.20 p.m.—"Evening News" late news service.
7.35 p.m.—Weather intelligence. Studio music.
NIGHT SESSION.
7.40 p.m.—Programme announcements.

7.45 p.m.—A talk by Miss Mabel Webb about "Sweet Nell".

8 p.m.—"Big Ben" FROM THE CRYSTAL PALACE THEATRE, GEORGE STREET, SYDNEY:

Items by the Orchestra, under the baton

of Mr. Harry Stone

8.15 p.m.—FROM THE STUDIO, Mr. Oliver

King, bass:

"Now Phobus Sings in the West" (Arns).

8.19 p.m.—Mr. Cliff Arnold, novelty pianist.

8.23 p.m.—Miss Virginia Bassett, contralto.

8.27 p.m.—Mr. Wally Baynes, comedian:

"I never see Beagle alone" (Lynton).

8.32 p.m.—Mr. George Thompson, solo on

the wind bass:

(a) "Ponderosa" (Hume).

(b) "Pie Pat" (Meyerbeer).

2FC. SATURDAY, APRIL 1st 1927.

8.40 p.m.—FROM THE CRYSTAL PALACE,

GEORGE STREET, SYDNEY:

Orchestral items. Conductor, Mr. Harry Stone.

8.50 p.m.—FROM THE STUDIO:

Mr. Oliver King, bass:

(a) "Give a man a horse he can ride" (Hood).

(b) "You alone o' me" (Sanderson).

8.58 p.m.—Miss Virginia Bassett, contralto.

9.3 p.m.—Mr. Cliff Arnold, novelty pianist.

9.10 p.m.—Miss Margaret Grimshaw, mezzo:

"In pillow town" (Shott).

9.14 p.m.—Mr. Oliver King, bass,

"Young and Old" (Kettelby).

9.18 p.m.—Mr. Wally Baynes, comedian:

"The body in the bag" (Weston and Lee).

9.23 p.m.—Mr. George Thompson, wind bass

solo:

(a) "Barked in the cradle of the deep" (Hume).

(b) "Oh Heaven's just come raining" (Meyerbeer).

9.30 p.m.—The 2FC Studio Dance Band, with

the popular baritone, Mr. Len Maurice

(Conductor, Mr. Eric Pearce).

9.40 p.m.—Miss Virginia Bassett, contralto.

9.44 p.m.—Mr. Wally Baynes, comedian:

"I do like an egg for my tea" (Lee).

9.48 p.m.—Mr. Cliff Arnold, novelty pianist.

9.52 p.m.—Miss Margaret Grimshaw, mezzo:

"Little love nest, just for two."

9.56 p.m.—Mr. Wally Baynes, Comedian:

"Don't get bananas with the skins on" (Dunneby).

10 p.m.—"Big Ben" FROM THE CRYSTAL

PALACE THEATRE, GEORGE STREET,

CITY:

Orchestral items. Conductor, Mr. Harry

Stone.

10.15 p.m.—The 2FC Studio Dance Band,

with the popular baritone, Mr. Len Maurice

con-

10.20 p.m.—FROM THE CRYSTAL PALACE

THEATRE. Orchestral items.

10.30 p.m.—FROM THE STUDIO. The 2FC

Dance Band will play popular numbers un-

til 11 p.m.

11 p.m.—"Big Ben." National Anthem.

Close down.

3LO MELBOURNE

Saturday.

MORNING SESSION

MUSIC BATH CHAIRS

THE STUDIO ORCHESTRA

MARY CLAXTON, Soprano.

DOROTHY ROXBURGH, Viola.

ARTHUR DOUGLAS, Comedian.

THELMA READY, Bass.

RUXHAM'S SERENADERS,

CARTHY BROS.

Announcer MAURICE DUDLEY.

Accompanist AGNES FORTUNE.

11 a.m.—STUDIO ORCHESTRA:

Overture, "Estoppel" (Bela).

11.05 a.m.—MARY CLAXTON, soprano:

"The Rainbow Child" (Coleridge-Taylor).

"To Daisies" (Roger Quilter).

11.17 a.m.—DOROTHY ROXBURGH, Viola:

"Berens" (Paul Juon).

"Romance" (Paul Juon).

11.24 a.m.—STUDIO ORCHESTRA:

"Pastorale" (Pezermotte).

"Home-land" (Huetter).

Results Count!

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You get, too, a "Dagenite" case which is leak-, shock-, acid- and heat-proof; anti-splash and anti-spray vents; terminals protected from corrosion by petroleum glands; you get a BATTERY. And one which costs no more than the ordinary kind.

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11.34 a.m.—ARTHUR DOUGLAS, Comedian: "The Wedding of John McLean" (Douglas).
 11.41 a.m.—THELMA READY, Banjo: "Selected."
 11.49 a.m.—STUDIO ORCHESTRA: "Banks Chorus" (Shelley).
 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 a.m.—STUDIO ORCHESTRA: "Andante" from G Minor Symphony (Beethoven).
 12.30 p.m.—THELMA READY, Banjo: Negro Melodians.
 12.37 p.m.—Stock Exchange information.
 12.47 p.m.—HELIAM'S SEVEN LEADERS: Quartette, "The Silvery Song."
 Edith Huxham, Dolly Burdett, Renee Miller, Hugh Huxham.
 Bass solo, "Cape St. Vincent."
 1.30 p.m.—HELIAM'S SEVEN LEADERS: Quartette, "The Silvery Song."
 Edith Huxham, Dolly Burdett, Renee Miller, Hugh Huxham.
 Bass solo, "Cape St. Vincent."
 The Serenader Quartette.
 Soprano solo, "A walk in the wood."
 Edith Huxham.
 Studio Orchestra:
 "The Sleeping Beauty" (Bergora)
 Operatic Quartet, "H Bario."
 The Serenader Quartet.

2.0. SATURDAY, 8th APRIL.
 1.4 p.m.—STUDIO ORCHESTRA:
 "Chinese Recollections" (Zimmermann).
 1.14 p.m.—Weather report.
 1.20 p.m.—MARY CLAYTON, Soprano:
 "Drift Down, Drift Down" (Landon Ronald).
 "Kingfisher Blue" (Friden).
 1.27 p.m.—CARTHY BROS.:
 "Songs and Impressions."
 1.37 p.m.—THELMA READY, Banjo:
 Popular Chorus.
 1.45 p.m.—STUDIO ORCHESTRA:
 Selection, "Barber of Seville" (Rossini).
 2 p.m.—Clear down.
 Results of Races held at Yes, Nhill and Traralgon will be given as they come to hand.
 2.30 p.m.—Description of Hurdle Race, Sandown Park, by "Musket" of the "Sporting Globe."

AFTERNOON SESSION.
 JOE ARONSON AND HIS SYNCO-SYMPHONISTS.
 2 p.m.—Description of Two Year Old Handicap, Sandown Park, by "Musket" of the "Sporting Globe."

3 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
 "Thinking of you" (Ash).
 "Just a bird's eye view" (Donaldson).
 "Just one more kiss" (Owens).
 "A cup of coffee, a sandwich and you" (Meyer).
 "Somebody's Lonely" (Davis).
 "Baby Face" (Axt).
 "Ting-a-ling Waltz of the Bells" (Britt).
 "Mary Lou" (Lyzant).
 3.20 p.m.—Description of the Sandown Plate, by "Musket" of the "Sporting Globe."
 3.25 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
 "The more we are together" (Campbell).
 "Good-bye" (Bargy).
 "Consolation" (Hensky).
 "Let's all Hurray Ford" (Leslie).
 "Hello Aloha" (Baer).
 "The Original Black Bottom" (Henderson).
 4 p.m.—Description of Sandown Park Handicap, by "Musket" of the "Sporting Globe."
 4.5 p.m.—AUTUMN GARDEN WEEK Lecture, Mr. T. H. Brown:
 "Dahlia Culture."
 4.55 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
 "Hello Little Girl of My Dreams" (Beck).
 "By the Sign of a Rose" (Fields).
 "Sunday" (Miller).
 5.10 p.m.—Description of Sandown Purse, by "Musket" of the "Sporting Globe."
 5.15 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
 "Angry" (Drunkles).

"I wish I had my old cat back" (Nielsen).
 "Bye Bye Blackbird" (Dixon).
 4.45 p.m.—"Herald" news service. Stock Exchange information.
 5 p.m.—Description of Free Will, Sandown Park, by "Musket" of the "Sporting Globe." Close down.
 5.10 SATURDAY, 1th APRIL.

EVENING SESSION.
 5.30 p.m.—Sporting results.
 5.45 p.m.—CHILDREN'S HOUR. Answers to letters and birthday greetings.
 5.54 p.m.—GRACE JACKSON, Contralto:
 "Come back to Erin" (Claribel).
 "Siam" (Laird).
 6.2 p.m.—"LITTLE MISS KOOKABURRA" is wondering whether her little friends remember the duggie lugs? Well, she is jealous because she's been telling you about these funny cats, and he wants her to tell you how "Baz" met the little giant who changed his coat to another color."
 6.12 p.m.—GRACE JACKSON, Contralto, has two more little songs to sing to the children.
 6.19 p.m.—"LITTLE MISS KOOKABURRA" will tell her bigger Kookaburra sisters and brothers the next instalment of "Carol of Holydene School" (Where is Carol?).
 6.25 p.m.—"Argus" and "Herald" news service. 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. Burrell Ltd.
 6.55 p.m.—Market reports by the Victorian Producers' Cooperative Co., Ltd. Harrower sheep sales. Potatoes and Onions. Market prices of Oranges and Lemons, by the Victorian Central Citrus Association Pty. Ltd. Fruit market reports by the Victorian Wholesale Fruitellers' Association, compiled by "The Fruit World," exclusive to S.G.O.

NIGHT SESSION.
 Speakers: MR. ED SIMMS,
 MR. E. E. PESCOTT,
 DR. LEACH,
 MR. A. W. JACKSON,
 MR. R. H. POULTER,
 MALVERN TRAMWAYS BAND,
 Conductor, R. Shogg.

ELSIE DAVIES, Soprano.
 TAYLOR AND SUMMERS, English Comedians.
 GRACE JACKSON, Contralto.
 MOANA LEO DUO.
 ARTHUR DOUGLAS, Comedian.
 ONE ACT PLAY.
 Announcer: ALFRED ANDREW
 Accompanist: AGNES FORTUNE
 7.15 p.m.—MR. ED SIMMS, Secretary Commonwealth Railways:
 "Travelling on the Trans-Australian Railway."
 7.30 p.m.—MR. E. E. PESCOTT:
 Australian Dances and Enslavings.
 7.45 p.m.—DR. LEACH:
 "Darters and Frigate Birds."
 "MUSIC IS THE POETRY OF THE AIR."
 8 p.m.—AUTUMN GARDEN WEEK Lecture, MR. R. H. POULTER:
 "How to grow Carnations."
 8.10 p.m.—MALVERN TRAMWAYS BAND:
 Selection, "Harry Lauder's Song" (By Rossini), (Huret).
 8.25 p.m.—ELSIE DAVIES, Soprano:
 "Recitative and Aria from Faust" (Gounod).
 8.30 p.m.—DR. LEACH:
 Mrs. Maurice Dudley and Mr. Chas. Dixon.
 8.50 p.m.—MALVERN TRAMWAYS BAND:
 Descriptive Sketch, "Down the Mountains."
 9 p.m.—TAYLOR AND SUMMERS, English Comedians:
 "Pot Power."
 9.10 p.m.—GRACE JACKSON, contralto:
 "In the Cathedral."
 "Jealous."
 9.15 p.m.—MOANA LEO DUO:
 "La Paloma."
 "Always."

9.24 p.m.—MR. A. W. JACKSON will speak on the Ben-Ednals of the Australasian Four-somes Challenge Shield—Golf.
 March "Quarter Column" (Home).
 9.38 p.m.—MALVERN TRAMWAYS BAND:
 Waltz, "Chant d'Automne" (Joyce).
 9.49 p.m.—ARTHUR DOUGLAS, comedian:
 "The Waggle of the Kilt" (Lauder).
 9.56 p.m.—"Argus" news service. British Official Wireless news from Rugby. Meteorological information.
 10.0 p.m.—MALVERN TRAMWAYS BAND:
 Indian Intermezzo, "Flying Arrow" (Holman).
 March, "Independencia" (Hall).
 10.16 p.m.—ELSIE DAVIES, soprano:
 "Ave Maria" (Luzzi).
 "The Swan" (Greig).
 10.22 p.m.—MOANA LEO DUO:
 "Kumihina Ma-chi."
 "Rose of Waikiki."
 10.30 p.m.—GRACE JACKSON, contralto:
 "Because" (d'Hardelle).
 "My Lamb of Dreams" (Wine).
 10.37 p.m.—MALVERN TRAMWAYS BAND:
 March, "Garde du Corps" (Hall).
 10.43 p.m.—ARTHUR DOUGLAS, comedian:
 "They call me silly Willy" (Douglas).
 10.50 p.m.—All Sporting Results. Announcements.

11 p.m.—OUR GREAT THOUGHT:
 "Right reason is stronger than force."
 —JAMES A. GARFIELD.
 11.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:
 "Then I'll be Happy" (Friend).
 "Beady" (Friend).
 "Blowing Off Steam" (Davis).
 "No Flinch" (Friend).
 "Indian Love Call" (Friml).
 "Rose Marie" (Friml).
 "Gimme a Little Kiss Will Ya Huh?" (Turk).
 "Any One To-day, Lady" (Bellard).
 "Princess Betty's Lullaby" (Stonham).
 "Mrs. Fink" (Gay).
 "Katinka" (Tollan).
 "Fretful" (Whiting).
 "Neapolitan Nights" (Zaremnik).
 "Smiling Eyes" (Howards).
 "Hi, Diddle, Diddle" (Coom).
 "At Peace with the World" (Berlin).
 "Smile a Little Bit" (Schenk).
 "Baby Face" (David).
 11.49 p.m.—GOD SAVE THE KING.

4QG. BRISBANE

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

DUKE OF YORK'S VISIT.

The celebrations in connection with the visit of their Royal Highnesses the Duke and Duchess of York to Queensland will be relayed.

Transmission will be effected from the Headquarters Showground, where the Bushman's Carnival will be held. A description of the afternoon's events will be given.

8.35 p.m.—From Queensland Bushman's Carnival.
 4.30 p.m.—Close Down.

EARLY EVENING SESSION.

6.30 p.m.—Children's Section: Bedtime Stories by "Uncle Ben" and "Uncle Jim."
 7.15 p.m.—Sporting News.

NIGHT SESSION.

7.50 p.m.—Sailing Notes by "Filer."
 8.00 p.m.—Announcements.
 7.43 p.m.—From the Observatory: Standard Time Signal.

7.45 p.m.—Lectures Session: A gardening talk "Sweet Peas" by "Freeman."
 NATIONAL SPEEDWAY LESSONS: BALLROOM.

8.0 p.m.—From the National Speedway—Motor Cycle Races.
 8.30 p.m.—From Lennon's Ballroom: Dance Music.

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

The World's Flyers carried Burgess,

All Readers' Queries Answered Here

(Q2) Last week you gave a practical audio amplifier, wouldn't it be possible to make a separate one valve radio amplifying gadget to attach to the input of the Marconi when inter-State stations were required on the home receiver?

A.: There is nothing to prevent you carrying out your suggestion if meticulous care is taken in winding the coils. Go ahead and try it. The second question will receive consideration at some later date. However, thanks for the suggestion.

W.E.K. (MURWILLUMBAH)—Q.: I have a file of which I have altered into a Neutrodyne lately. It has been going alright until about two nights ago when I could not get it to go. Can you (Q2) without the earth,

and when hooked up earth seems to take volume away. When I take the valves out and put back in again I cannot get anything. If you can help me out of this difficulty I would be much obliged.

A.: It is difficult for me to diagnose this complaint without seeing the set. Still as it has been going good for a while some fault may have developed in the wiring or in the components. Bend over the Fault-finding articles which appeared in recent issues of "W.W." and put into practice some of the suggestions there. Some little trouble has crept in and should be easily located by someone on the spot. Perhaps were you to call in a friend he would be able to help you better than I from this distance.

R.D. (THALMAIN)—Q.: I desire to inform you that I have recently constructed two wireless circuits receiving sets from the circuit published in "Wireless Weekly" of 28th October 1926. "The Old Reliable," with best re-

sults. In constructing the sets I used the "Grid-dar" double rotor 3 coil tuner advertised in "Wireless Weekly." The tuner referred to is well constructed, easily constructed and is found to handle quite a clear bell-like tone with 1500 ohm speaker valve, even on two valves. The sets are very selective and I have no trouble in separating stations and fading them. Two years ago I spent much time and expense building wave traps to avoid interference from other than the Broadcasting station required. Still so now, and wave traps are for sale.

With the exception that I added a 5001 ohm condenser in the aerial circuit, the general layout and back of panel wiring diagram was strictly adhered to. To this and the clear and simple manner with which the exact details of building is described, I attribute my success and thank "Wireless Weekly" for same.

A.: This is indeed good news. I am very pleased to hear of your success which I know will inspire many another reader. One of the greatest troubles today in the radio world is to know how to tune a set correctly, hence the article in this week's issue. Let me thank you for your kind remarks. I hope we shall continue to earn them. We should you know, be most anxious to try to give the best at all times.

F.M.N. (PAWICH)—Q.: Would you kindly forward me circuit and parts list for transformer for a B battery Eliminator. I want the following voltages: 47, 40v, 30v, 18v. The above current is 24v. 50 say 9 C.

I would also like the circuit for an B battery charger for 2 amp. work using either Tuner or Phillip's outflow bulb.

A.: These subjects will shortly form the material for an article to interest all the readers of "Wireless Weekly." But until I can give the simplest of details and be assured that all the material is available I will hang off.

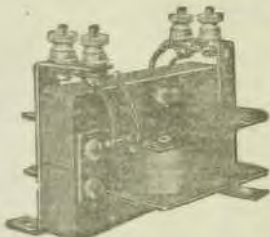
(HARDON)—Q.: My Reinartz Receiver, 18/10/26. What transformer should I use, 2 to 1, or 3 to 1; would Ferrant be more satisfactory, also valves, what best make would you suggest, and number of same. I prefer Mullard. I have made coil as per instructions, 6 x 6, and had I run only magnetic 12 turns instead of 25. Would this be O.K.? What Ohm Rheostat and fixed Condenser, would I require?

A.: The 2 to 1 is alright, so is the 3 to 1 for that matter, but definitely in no case covered in the audio end. Your valve preferences is quite in order. Yes, 18 turns is O.K. but as you are unable to get the specified number of turns on the specified former, it appears to me that you have been with the wrong gauge of wire. It doesn't really matter, of course. A 20 ohm Rheostat and a .0025 fixed condenser for grid.

D.F.C. (GOSFORD)—Q.: Having made several different Crystal sets, is it possible to now make a valve set of several valves? What circuit would you recommend to get all local stations, including N.Z., such set to cost say about £7 for parts, but not more, as finances have been the cause of my waiting so long before making a valve set? Living in the Country, the re-charging of batteries is rather a nuisance. Can I get dry cells to do the job as effectively? Sorry to bother you, but your paper seems so expert about helping poor people like me, that I pushed up the courage to write you.

A.: Glad to help you any time. Build a one valve set—it is as much as your finances will cover. See "Wireless Weekly" for the Extraordinary One-Valve Receiver, done Write one of our subscribers for dry battery information. They are quite alright for a dull emitter valve.

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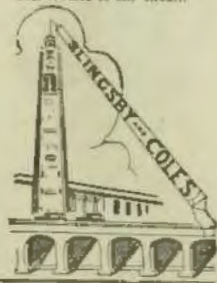
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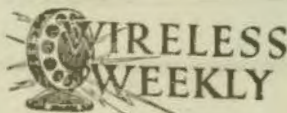
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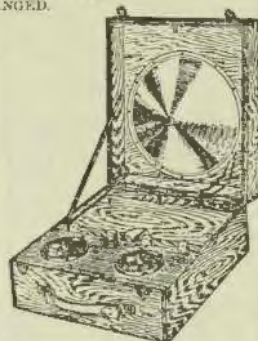
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