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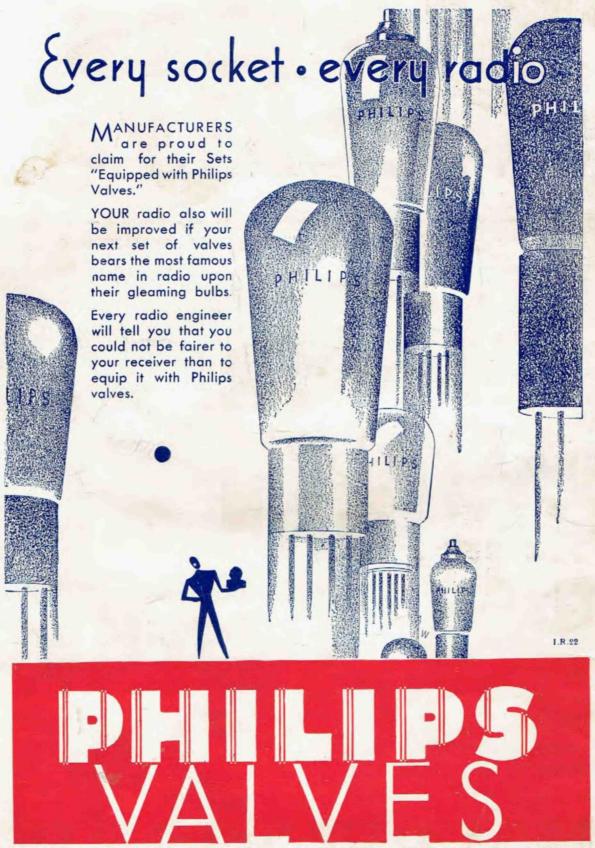
VOL. 21, No. 1

Registered at the GPO. Sydney, for trans- FRIDAY, JANUARY 6, 1933



500,000 LICENCES

A Forecast of Radio Development in 1933



Adut. of Philips Lamps (Australusia) Ltd. (Radio Dept.) Head Office and Shanorooms, corner Clarence and Margaret Streets, Sydney, N.S.W.

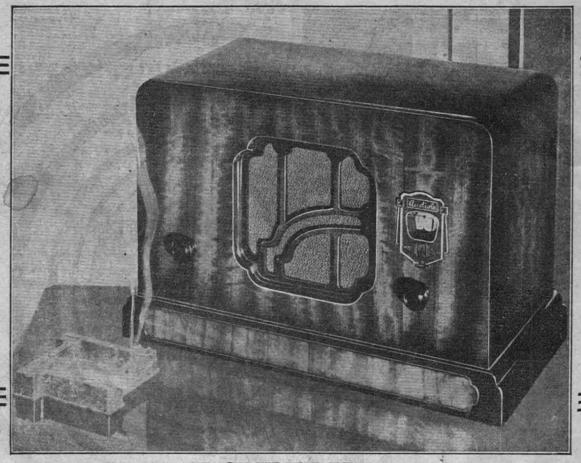


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IN the AUDIOLA you get a genuine superheterodyne, with all the advantages of superheterodyne performance, at a price within easy reach of all.

The AUDIOLA is a thoroughly-built set, using a proven superheterodyne circuit and the highest quality components, and is housed in a well-made and well-finished cabinet. Tonal reproduction leaves nothing to be desired. Only because of thorough organisation and a large output is the low price possible.

It uses 3 valves and a rectifier, and makes available at a phenomenally low price the extreme selectivity—the ability to cut out unwanted stations—of which only a superheterodyne is capable. This handsome mantel model allelectric receiver will provide all the N.S.W. programmes and the leading programmes of Victoria and Queensland—with ample volume and pleasing tone.

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ELIZABETH STREET, BRISBANE

Volume 2 No. 1. Friday, Jan. 6, 1933.

Wireless Weekly

Address:
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Introducing-

GRAND OPERA STARS

Now Recruited for Radio

ESARINA VALOBRA (lyric soprano) was one of the most popular members of the J. C. Williamson Imperial Grand Opera Company. Petite, brunette, and very vivacious, she has appealed to the public of Australia and New Zealand. She comes from a very musical family, and has the distinction of being the youngest soprano to sing principal roles at La Scala, Milan, where she made her first appearance at the age of 18. She is now 25, and is married to a leading solicitor of Milan. At La Scala she had the distinction of being the first interpreter of the role of "Liu" in Puccini's "Turandot." She remained at La Scala for six years, and left it to come to Australia when Mr. Nevin Tait and



WANDO ALDROVANDI, the noted conductor.



ILIO DEL CHIARO, baritone.

Signor Folli engaged her for the Australian tour of the Grand Opera Company. In Australia the press and public acclaimed Valobra as the best "Cho Cho San," in "Butterfly," and "Violetta," in "La Traviata," ever heard in this country. In fact, it might be interesting for listeners to know that in eight months 41 performances of "Butterfly" were given throughout the tour. Signora Valobra will now appear with the Australian Broadcasting Commission in the following operas: "La Traviata," "Pagliacci," and "Faust," besides giving three solo programmes.

WANDO ALDROVANDI (conductor) is a noted composer of chamber music. Some of his compositions will be broadcast during the month of January. He has conducted at many of the principal theatres in South America and Europe. During the Williamson Imper-



CESARINA VALOBRA.

ial Grand Opera season, whilst the company was touring in New Zealand, he made a special study of Maori music, with the intention of publishing some special work on this very interesting subject. He will conduct and direct all the broadcast performances of the grand opera series.

TLIO DEL CHIARO (baritone) is the principal baritone of the Grand Opera Co. He is a great actor, and noted for his character make-up. One well-known Sydney photographer took a special sitting of the baritone study in "Lucia" for the purpose of sending it to the world photographic exhibition, Signor Del Chiaro appeared in many of the operas performed by the Williamson Imperial Grand Opera Company, and will be particularly remembered for his forceful interpretation of Valentine in "Faust," "Beppo" in "Pagliacci," and the American Consul in "Butterfly." The two first-named operas are to be performed over the air.

MOLLY DE GUNST is the distinguished Australian soprano, who was one of the principals in the Williamson Imperial Grand Opera season. She sang leading roles in "Aida," "Cavalleria," and other operas, with outstanding success. Miss de Gunst is a Queenslander, who has always regarded the operatic stage as her goal, and critics predict a brilliant future for her in opera in other parts of the world, if ever she elects to go abroad.

BETWEEN YOU AND ME AND THE MICROPHON

In the Ear of the New Year

ELL, Christmas is just over as we write this, and the New Year will be begun when you read it, and you will know the answer to that troublesome question, madam, whether you get more drunk on Christmas Eve or on New Year's Eve.

Ourself, we spent an interesting Christmas; but quiet; we finished the last act of "Ned Kelly," a play in five acts, by James Jeames James, and will show it to J. C. Williamson's early this year, to see if they will put it on. There are some stout bits of dialogue; for example (if you don't mind):

NED:

Unhand me, knave! Your cross-eyed, spitting malice
Like to a drunkard in a public bar
Enfilthies ugliness. Ho! Ho! good Kate,
Bring me my barkers. I've a mind to see
If lead can do death's duty to this carcase,
Putrid, that braves corruption with corrup-

tion; Come, stinkard! The day breaks, but for one of us It shall close early.

Isn't that pretty good? Won't it make Mr. Tait sit up when he sees Let us assure you that it is our own effort, absolutely unaided, even by the Editor; and it proves that there is yet hope for the Australian drama. Next week we may quote to you from another play we did some time ago, "The Dark-eyed Para-mour"; it is even more thrilling, in parts, like the lady.

But enough of this egotistical showing-off. It must get very galling to you from time to time. The main you from time to time. important part of our Christmas was, of course, listening to the speech by his Majesty on Christmas night, and very nice too. At the conclusion, when they played the National Anthem, everyone stood up, and we would have, too, but our position was unfortunate.

(What do you mean, your position was unfortunate?-Ed.)

Well, the set, you know. Where we were, their set was a very old one, and to get any results from it at all you have to kneel down at the back of it, and hold down one of the valves with your hand; and when they played the National Anthem it was our turn to hold down the valve. But we would have stood up if we could.

(Thank you; that is quite satisfactory?-Ed.)

How do you mean, satisfactory? (Don't worry, James; we just have to be careful, you know.-Ed.)

Oh, yes; we would have stood up if we could. It was a most successful relay, wasn't it? In the picture show on Monday night they put on an A.W.A. advertisement, and everyone immediately began to jabber, "Oh, did you hear the King's speech last night?" And coming down in the tram to-day, in the back of a tram, two women, one had just come from the railway station-one had got in from Canberra last night, the other

had just arrived from Dubbo-"Oh, my dear, did you hear the King's speech?" "Yes; it was wonderful, wasn't it? After all, wireless IS wonderful, isn't it?" "Yes, and to hear all those countries from all over the world-it was WONDERFUL!"

Now, you may say. Jimmy, you're always inventing things about people -you should write advertisements for face-cream, but it is not so. Those



This is Mr. WILFRID THOMAS-He could sing inverted commas!

remarks were actually made; truth is stranger than fiction, and in the simple voice of the common people is truth more strange than the utmost profundity of scientists and writers of editorials.

(James!-Ed.)

All right, editor; now you quiet for a while and we shall write a little publicity for Mr. Wilfrid Thomas in England; he is a venturesome young man with a basso of some importance, and he went to England with the Glee Singers; Raymond Beatty went to England, too, you remember-it is strange how all our low singers get there sooner or later. Well, the photograph up above arrived as a Christmas present and protest against "the Mephistophelian portrait" we had been using, because "my mother, who doesn't know how ugly I really am, doesn't like it a bit.

Have it your own way, Wilfrid, but we hope you aren't as hungry as you look in the new picture; what you have been doing to get that lean, pantherish kind of 100k we don't know at all.

Well, now; what has Wilf, been up to in England? How is England taking to him? That's what you want to know; and he has the answer: "On January 4 (let's hope it will be a Glorious 4th) we shall sing like gentlemen and Englishmen at 9.30 a.m. or thereabouts, thus giving us time to annoy our livers with eggs and bacon and tea, and to read our names in the papers. You will see that the B.B.C. is treating us artists

more humanely than 2FC did on that long-departed occasion when we were aroused at 1 a.m. to transmit to 2LO. I am going to do a few Australian songs amongst my little lot."

So there you are, dear reader; Wilfrid is going to sing from the Empire station at 9.30 (English time) on Wednesday, January 4. We turned it up in the B.B.C. book; and here

BALLAD CONCERT
VERA FLORENCE (Sograno)
WILFRID THOMAS (Baritone)
VERA FLORENCE
Cherry Ripe
One morning very early. Trad., arr. A.L.
Rose softly blooming Spohr, arr. A.L.
WILFRID THOMAS
Four Australian Songs
Man and Woman
Waista Pol
(A Maori Dance Tune)
Colette
Stock-rider's Song
WERA FLORENCE
Eriskay Love Lilt
(Song of the Hebrides)
Comin' through the Rye
Charlie is my darling
WILFRID THOMAS
Four British Songs:
New Year's Song
Onaway, Awake, Beloved (Hiawatha)
The Monkey's Carol
The Monkey's Carol a.m. 9.30

The Monkey's Carol A Ballymure Ballad Stanford Herbert Hughes So you will probably just read this

in time to get tuned in to it; and hear Wilfrid over all those miles of sea and so forth, after all this time; gladdening many a sad woman's

(What sad woman's heart?-Ed.) We don't know, editor; but we know Wilfrid.

The Harbinger of Empire. The Hand across the Sea.

The Missing-Talking about links; Mr. Malcolm Frost, the young cove who toured the world looking at broadcasting, has begun coming out to Australia again with the B.B.C. recorded programmes; he is an Ambassador Empire, and once wrote an article for "Wireless Weekly"—we don't often get articles from Ambassadors of Empire. The B.B.C. paper has a touching description of his departure in an aeroplane for Marseilles, and pictures him on his journey in "lonely farmsteads," "planters' bungalows," "missionary posts," and "wealthy Chinamen's palaces"; this is his I-tin-er-rary: London, Marseilles, Malta, Port Said, Cairo, Atbara, Kosti, Kampala, Nairobi, Moshi, Salisbury, Johannesburg, Capetown, Nairobi, Mombasa, Bombay, Calcutta, Singapore, Hongavia, Singapore, Moji, Hong-Colombo, Shanghai, Yokohama, kong. Manila, Rabaul, SYDNEY (2/4/'33 or 13/4/'33), Auckland, Suva, Vancouver, Ottawa, Havana, Kingston, Port au Prince-and so home. All we can say is:

Mr. Malcolm Frost, We hope You won't

Get Lost!



HALF A MILLION LICENCES

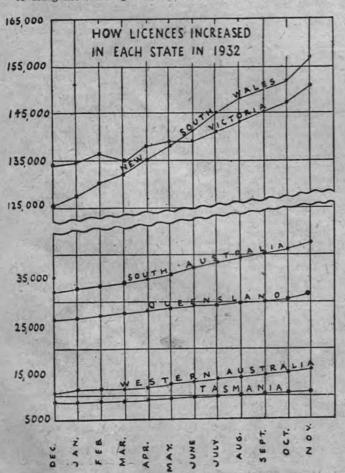
Before the end of 1933 the number of broadcast receiver licences in Australia should exceed half-a-million.

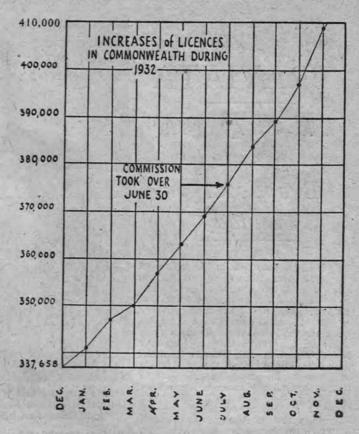
A LTHOUGH the official figures for December 31, 1932, are not yet complete, it is expected that they will show a total number of radio receiver licences of more than 410,000—possibly 420,000.

On December 31, 1931, the total number of licences was 337,650. This means that in 1932 the number of honest listeners increased by 82,000—the rate of increase averaging

between six and seven thousand each month.

In the latter half of the year, however, when the influence of the new Commission began to make itself felt, the figures showed a tendency to jump. Between Oct. 31 and November 30 the increase was 11,774, whereas in the earlier part of the year, between Feb. 29 and March 31 (broadcasting was at a very low ebb), the increase was only 3106. If the Commission continues its good work, and the tendency towards an acceleration in the monthly figures is maintained then we may expect a total increase for 1933 exceeding that of 1932. Not more than 82,000 licences will be required, however, to bring the total figure to within the half-million mark.





The most substantial contribution towards the increase of licences in 1932 came from New South Wales, which now has more licences than any other State—a position occupied by Victoria last year. In New South Wales on December 31, 1931, there were 125,409 licences, while in Victoria there were 134,173—nearly 9000 more in the southern and smaller State. However, by June, N.S.W. was more than 2000 in the lead, and by November 6000 ahead of Victoria, the figures being 157,506 and 151,498 respectively. Victoria still claims to have a greater percentage of listeners per head of the population, although it may soon lose even this honor.

In the other States, which are far behind N.S.W. and Victoria, the rate of increase has been much less. South Australia makes the best showing, with an increase of just over ten thousand, bringing the total number of licenced listeners up to 42,312 on November 31. The influence of 5CK is just being felt, and a higher rate of increase is expected in 1933.

Queensland is next with an increase of 5000, bringing the total up to 31,534 on November 31, 1932. Western Australia follows with an increase of 4768, the total being 15,568. The new 6WF transmitter is just being erected, and when this is operating with higher power and improved transmission, W.A. expects a rapid increase of licences. Tasmania is last with an increase of 2000 odd for the eleven months, and a total of 10,846.

Thus there is every prospect of a heavy increase in licences in 1933. The improvement in the programmes and the further improvements which are in the course of being made, the musical festival presided over by Dr. Malcolm Sargent during the winter, the Empire relays, and other features, will attract more and more listeners to the swelling ranks of radio.

One factor which is likely to bring the licences up more than any other is the active campaign against pirates, which will be made in the coming year. The first note of warning will be struck in next week's "Wireless Weekly," at the request of the Commission; and so intense will be the rounding up of unlicenced sets that it is believed that thousands of listeners will be rushing to take out licences in order to avoid the ignominy of prosecution.

The extra licence money thus obtained will go towards the further improvement of the programmes, making radio entertainment more attractive than ever.

LaTRAVIATA

The Story of the Opera to be Broadcast on Sunday

THE first act opens in the salon of Violetta, a wealthy courtesan. She is entertaining her friends. Among the guests are Baron Dupol, her patron of the moment, her bosom friend, Flora, with her attendant Marquis, and other acquaintances. Early in the revels Gaston, another friend, comes in with Alfredo Germont and tells Violetta that the latter is seriously in love with her. Violetta laughs, but all the same is touched by the young man's devotion. In this scene there is a spirited drinking song for Alfredo, which is repeated by Violetta and chorus. Music is heard from an adjoining room, and the guests all move towards the apartment. Violetta follows, but has to stop, overcome by a fit of coughing—she is palpably consumptive. Alfredo approaches and tells her of his love. She sings with him, gaily repeating his words, then suddenly her mood changes-she becomes serious, realising that such a love is not for her. It is when Alfredo and the other guests have retired that Violetta, lost in contemplation, her heart touched for the first time, sings "Ah! fors' e lui che l'anima" (For him, perchance, my longing soul).

Selling Her Jewels

In Act 2, the scene is laid on the ground floor of a house near Paris, where Alfredo and Violetta are living. The latter has cast aside her former life and withdrawn herself from her old circle of friends. Alfredo enters and sings of the joy of their life together. From Annina, the maid of Violetta, he learns that the expenses of keeping up the country house are much greater than Violetta has told him, and that, in order to meet the cost, has been selling her jewels. He declares he will

:-: THE CAST :-:

VIOLETTA VALERY, SIGNORA CESARINA VALOBRA GEORGIO GERMONT, Signor Franco Izal ALFREDO GERMONT, SIGNOR PEDRO MIRASSOU

DOCTOR GRENVILLE,
Signor Felice Mercadante
MARQUIS ... Rowell Bryden
BARON DUPOL ... Rowell Bryden
GASTON ... Roy Glasheen
FLORA ... Miss Gladys Carlyles
ANNINA ... Miss Evelyn Hall
CONDUCTOR, MAESTRO WANDO
ALDROVANDI.



Marie Bremner and Willie Redstone photographed in the studio during the performance of "The Student Prince" recently, Miss Bremner received many congratulations on her singing as Kathle, Mr. Redstone was the producer,

go immediately to Paris to raise money and reimburse Violetta. Soon after Violetta enters, carrying a note she has just received from her friend Flora, in which the latter has invited her to a gay party in the city. Reading aloud, she laughs at the thought of going back to the old life. A visitor is announced. It is Aifredo's father. The older Germont has come to endeavor to persuade Violetta to break off the liaison with his son. He tells her that the boy's career will be ruined, and not only that, his young, innocent and lovely daughter will be unable to marry her betrothed, whose family refuses to ally itself with one whose name is besmirched by scandal. Violetta pleads her genuine love for the younger Germont, but at length she yields, broken-hearted, and promises to release Alfredo. The father leaves and Violetta sits down and writes a letter to her lover, telling him that she is going back to Baron Dupol. Alfredo enters. She conceals the letter. He tells her that his father is coming to separate them. She kisses him tearfully, and leaves the room without Alfredo realising that it is a parting Soor afterwards a messenger brings nim Violetta's letter. He is stricken with grief on reading its contents. At this moment his father comes in, and, believing that Violetta has betrayed him, Alfredo leaves the house. He determines to be avenged for her falseness.

"Unlucky In Love . . . "

The scene changes to a salon in Flora's expensive home, where entertainment is in full swing. Very soon Violetta comes, accompanied by Baron Dupol. Alfredo sees them from the card-table at which he is seared. He plays recklessly, wins heavily, and presently declares that he is "unlucky in love, lucky at gambling." Violetta winces

at the indirect insult, and Dupol, furiously angry, wishes to deal with him. He goes to the card-table, stakes against Alfredo, and loses. Alfredo approaches Violetta; she begs him to leave, for the baron will challenge him to a duel. Alfredo sneers at her apprehensions, intimates that it is the baron she fears for. She says she loves the baron. Enraged, Alfredo tears open the doors and calls everyone to come back. Hurling invectives at his former love, Alfredo casts at her feet his winnings at the card-table as payment for all she has had to spend on their home. She faints in the arms of Dr. Grenville. A dramatic ensemble, in which Violetta sings "Alfredo, Alfredo, di questo core non puoi comprendere tutto l'amore" ("Alfred, Alfred, little can'st thou fathom the love within my heart for thee") brings the act to a close.

In the Last Stages

Act 3: Violetta's bedroom. She lies in bed in the last stages of her illness. She awakens and calls faintly for the maid. Annina enters and opens the shutters. A knock is heard. It is Dr. Grenville. The dying girl has had a letter from the eider Germont saying that Alfredo has been told all, and that he is hastening to her side. Annina, who had gone out with some money which Violetta had given her to distribute as alms, returns. Her manner is excited. She has seen Alfredo. He is waiting to be announced. A moment later he holds Violetta in his arms. Approaching death is forgotten. Nothing again shall part them. They will leave Paris for some quiet retreat. But it is too late. The hand of death is upon the woman's brow. "Gran Dio! morir si giovane" ("O. God! to die so young"). It is the end. In the arms of her lover she dies,



Radio as used By the NEW



YORK POLICE PATROL

OLICE radio patrols have been used with effect in Sydney, Melbourne, and Perth for some time, but none of these cities has exploited its use as fully as New York. Perhaps it has not been necessary, you say. Quite true, but New York must

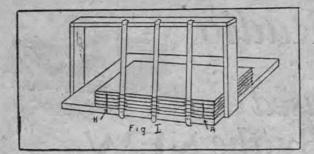
not be confused with Chicago. The New York police have an extremely high record, having converted their city from being one of the most corrupt and criminal in the world to a comparatively peaceful metropolis.

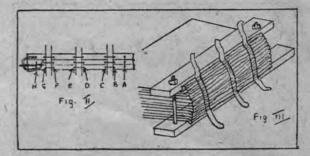
Their greatest handicap has been, of course, the enormous size of New York with its labyrinth of poor quarters, negro sections, etc. And what has enabled them to overcome this handicap more than anything else is radio. Hundreds of police patrol cars, such as the one featured in the upper right



and left hand corners patrol New York all day and all night. Each car has its own section or borough, and keeps continually in touch by means of radio with headquarters, where an officer keeps the position of each car marked on a map, so that at any moment the location of any or all the police cars may be obtained from a glance at the map.

Anyone wno sees a strange person hiding behind his back door, or in any other manner which arouses suspicion, phones headquarters miles away, which passes the message on by radio telephone to the nearest patrol car. In one minute-two or three at the mosta racing roadster is at the door with two officers.





How to Bind Volume 20 of WIRELESS WEEKLY

HE first requirement is a binding desk. This is made from timber 1-inch thick. The base of the desk measures approximately 15in. x

Nail an upright 10in, high and 2in. wide on either end of the base 1 inch from the front. Another 2in. strip is nailed on top of the two uprights. See Fig. 1.

Next prepare the copies of "Wireless Weekly." This is done by removing the wire which fastens the leaves together. As each copy is at present numbered separately it is advisable to leave the covers on each.

Obtain four sheets of blank paper twice the size of a "Wireless Weekly" page. These are for the blank pages at the back and at the front of the bound volume. Take two of these pieces of paper, lay one on top of the other, and fold down the centre, making four pages equal in size to the "Wireless Weekly" page.

Fold the remaining two sheets in a like manner. Having all the copies in their correct order with the No. 1 copy on the top, lay the four blank pages on the bottom and the other four pages on the top of the volume.

Keeping all the copies straight with all the ends even, mark a vertical line on the backs 1in. from each end, (See A and H, Fig. 1.)

Using lin. tape, tack one piece in the centre where the "Wireless Weekly" would fit on the desk, and two more pieces, each one inch, inside the vertical lines already drawn on the "Wireless Weekly" (Fig. 1 explains this admirably).

Take all the copies off the desk and turn them face down on the table.

Take the blank sheets which are now on top and place them on the desk, keeping them square against the right hand upright and level with the tapes. Taking a darning needle and some

suitable thread (the white twine used by the grocers suits best), push the needle into the pages at the vertical mark A. Draw the thread right through

"JYK." an enthusiastic reader, here describes how you may bind your copies of "Wireless Weekly" for future reference. A specially printed title page and index page will be supplied free of charge to those readers following "JYK's" lead provided their request is accompanied by a stamped and addressed envelope. We will also be pleased to assist those readers whose volumes are almost but not quite complete. Back copies of all the numbers in volume 20 are available and will be posted to any address on receipt of 4d in stamps for each copy required.

the centre and leave about three inches

Bring the needle out again at B in Fig. 2-this is about 1-16in. before you reach the tape.

protruding.

This may prove rather awkward in judging the right spot to bring the needle out. However, that problem is solved by making a hole from the outside at the required spot with either another needle or a very, very fine awl. Bring the thread over the tape and in again at C, this being 1-16in. from the

Take the thread out again at D, in at E, out at F, in at G, and out again at the vertical line marked H.

Take the top copy of the "Wireless Weekly" and put it on top of the pages you have already sewn with face up. (If 27 copies are bound this copy will be No. 27, and the next will be 26, and so on.) Keep the end of the copy flat and true on top of the sewn pages. Repeat the sewing performance as before, but this time starting at H. When having done this the needle

When having done this the needle will come out at A, pull the threads tight and tie the end which has been left protruding, thus binding the copy and the blank pages together.

Now do the same to No. 26, starting at A and going to H. Bring the thread out, and as shown with needle in Fig. 2, tie on to the piece running from H.

2, tie on to the piece running from H

Put in No. 25; start at H, work to A. tie down, and start again at A to H, and so on, concluding with No. 1, and then the blank pages. Remove the tack from the tape and pull the tape even. It is advisable to take the job at this stage to a printer and have the edges guillotined. Cost is about 6d. Cut out two pieces of thick cardboard to form the covers, and if fancied the edges may be bevelled. When cutting these

boards allow 3-16in, to overlap the front

and the top and the bottom.

of the blank pages to H of No. 27.

Before covering, the book must be glued. This is done by placing it in a letter press or some similar press and leaving about lin. of the backs protrude. A simple press may be made from two strips of 2in, timber bolts, being fitted to form the press (see Fig. 3). Before tightening, work the back to form a sort of curve; this will also make a concave in the front of the book.

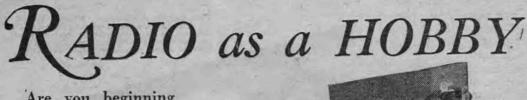
Tighten the press and cover the backs with hot, thin glue, and with a hammer tap the backs, thus forcing the glue in. Leave the volume in the press until the glue dries.

Cut the tapes, leaving only 1in. overlapping on either end. Place the covers in position and glue these tapes on the inside of the cover.

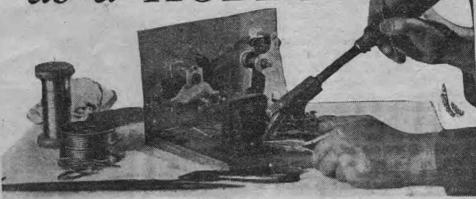
Glue a calico hinge over the top and bottom cover. Now for the material to cover the boards. Choose either bookbinders' cloth or window holland. Cut this to fit the book, and down the piece which will be on the back of the book glue a piece of stout paper. Glue the cover on, allowing 1in. to fold inside the book.

Between the cover and the back of most books will be noticed a groove. This is made while the cover is still wet. A straight piece of thin wire placed in position, and put under light pressure until the glue dries, suits ad-

Now glue a blank page to the front cover and one to the back cover.



Are you beginning the New Year by beginning radio? Make this one of your resolutions for 1933. This article tells how interesting the hobby can be.



A beginner at work soldering up a small receiver-see how simple it is,

HE boom in radio as a nobby in England is phenomenal, and today there are about seven weekly journals devoted to serving the home builders with information on the subject. The boom is also very evident in Australia, and there is every prospect that during 1933 the amateur radio enthusiasts will have their ranks swelled by hundreds of newcomers. As a hooby radio has many attractive features, and anyone who cares to spend a few minutes contemplating the advantages of a knowledge of radio will find many reasons for the popularity of this

NO PHYSICAL QUALIFICATIONS

In the first place there are no qualifications in the radio game; it is suitable for all ages, sexes and types. There is no need for the home-builder to be big, strong, and fleet of foot or rippled with sinews. So long as he has intelli-gence, patience, and enthusiasm he is assured of hours of endless enjoyment. For boys of 14 the nobby of wireless

building has the same attractions as it has for the elderly gentleman who is too feeble to take an active interest in other sports or hobbies

THE COST

The entrance fees to golf clubs may be £50 or more, to buy a stable of polo ponies may cost £500, but to start off in the radio game calls for any amount from about £5 to £15. With this amount it is possible to purchase all the necessary tools, together with sufficient components to build a decent receiver Then as time goes by a few shillings here and a few shillings there will purchase the necessary components to add a valve or two, turn the set into a superhet, add push-pull amplification, and before the enthusiast realises it he has a receiver which can out-perform those selling around town to £50 or £60, although he will only have spent some £15 or £20 in all. As a matter of fact the radio enthusiast who has his head screwed on correctly can usually make handsome pocket money by his hobby.

MAKING MONEY

It is possible for the home builder to make quite an amount of money in his spare time by building a set or two for special clients, without in any way encroaching on the domain of the legitimate radio dealer. There are some buyers who cannot be dealt with by the average dealer. For example, a man may have an excellent gramophone cabinet, into which he wishes to fit a radio chassis. The chassis may have to be six inches wide and a couple of feet long. No commercial chassis can be purchased to suit the job, and the dealers do not like to handle the business. But it is child's play to the radio enthusiast. He can run up a special design to suit the purpose get a special chassis folded to order, and fit the job up to perfection. To the dealer every minute spent messing about with a job of this nature is as money spent, but to the enthusiast it is simply entertainment and enjoyment. Whilst dealing with this aspect of the radio game, we might also point out that the shortwave market is almost exclusively at the disposal of the home-builder. Dealers cannot find time to spend on surmounting the vagaries of short-wave reception, but again to the genuine enthusiast it is all part of the hobby.

SAVING IN HARD CASH

But even to the man who does not want to deal in sets the home-made set offers a great saving in real hard cash. In the first place the term depreciation is unknown. When the end of the season comes the commercial sets depreciate pounds and pounds. the home-builder promptly pulls down his old job, and by spending a few shillings converts it to take the latest valves and so on, and brings the right up-to-date. He also has a flying start in the first place, as the homebuilt set is usually months ahead of the commercial job.

UP-TO-THE-MINUTE DESIGNS

This is a little hard to understand until we consider the working of a large factory. Using the latest information



All the tools you need to practise radio as a hobby

available the designers lay down what they consider a suitable set for production. After consultations with the sales staff, tool-maker, production engineer, and so on, a design of compromising type is decided upon, and then the storeman starts to order the parts. Already the design will be a couple of months "stale." The storeman then places an indent order for the components with various importers. After at least six months' further waste of time the parts start to dribble through, and after the design is nine or ten months old the tools are ready and the factory starts to produce. By the time the sets reach the market they are obsolete in design.

But with the home builder he merely follows "Wireless Weekly" closely. Within a month of any startling design being announced in any part of the world "Wireless Weekly" designers have the circuit in hand, and within a fortnight or three weeks the design is published. The home builder can buy his paper on Tuesday and have the set in operation by the Wednesday night—about nine months ahead of the larger factories. And in the radio game as it is to-day things move so rapidly that nine months may see all sorts of improvements. For example, nine months ago superhets, were hardly known in Australia, but they had been fully described in "Wireless Weekly" for three months previously.

QUALITY COMPONENTS

But perhaps the most attractive feature of the home-built set is the fact that the components are each chosen with a view to obtaining quality. When the price is such an important factor in the selling of receivers (as clearly evidenced by the big advertisements featuring the price a lot more than the technical advantages or the quality of the sel) it is only natural that there is a big temptation to the factory owners to fit the cheapest components in order to get the price as low as possible. But the radio

The receivers described in "Wireless Weekly" are not always large and expensive,
contrary to the view held by some. Here
is the little Record-Breaking two which
brought many beginners much entertainment.

enthusiast walks into a shop and turns over the components in his hand before he buys, and can use his discretion as to what components he buys cheaply and which he purchases with an insistence for quality.

SERVICE WORRIES

The home builder knows no service man. Since he has built the job himself, it is only natural that if any component plays up, or proves in any way faulty, it is only a moment's task for it to be replaced with a new one. If the owner of a set has no knowledge of radio, then he has to rely on the integrity of the dealer or service man. Owing to the very high standard of the class of men engaged in the radio industry there is little chance of anyone being deceived by a dealer,

but there is always the stray chance that you may be the unfortunate one who is charged £5 for a service call when all that was necessary was a drop of solder worth less than a halfpenny.

HOW TO START

By this it must be very evident that there is no doubt that you should make your sincerest New Year resolution, "I'm going to be a radio enthusiast." But "How do I start?" is sure to be your next question. Well, undoubtedly the first thing to do (even if we say it who shouldn't), is to place a regular order for your "Wireless Weekly" to be delivered every week. Starting from our next issue we will run special articles for the beginner, dealing with both the practical and the theoretical side of radio, so you want to get every one of these issues and study them up carefully. The next thing to do is to join the local radio club. There you will meet all kinds of radio enthusiasts, and if you keep your eyes and ears open you will be certain to pick up a lot of invaluable hints and tips.

TEXT BOOKS

Although you will probably find all you want to know in our columns, we also recommend you to purchase a good text book on the subject. There are dozens of these available from radio dealers and booksellers, and you should have no trouble in picking up one or two written in simple language which will tell you all you want to know. To study radio directly from a book is very difficult, but if used in conjunction with a little practical set building it is very much easier.

And we can say from past experience if you do this it isn't going to be long before you will be able to throw out your chest with pride as you tune in KFI direct from America on your home-built superheterodyne!



MUSIC OF THE WEEK

MODERN ENGLISH COMPOSERS

Bantock, Bowen, Quilter and Ireland

By DR. KEITH BARRY

TEXT Tuesday from 2BL there will be a programme made up of com-positions by modern English writers. Firstly, there is the group by Bantock, one of the most important of the moderns. Often does one see the relationship between medicine and relationship between medicine and music, and Granville Bantock is yet another example. His father was a wellknown surgeon, and Bantock was put into a science course, where history records that he was not as successful as he might be. He insisted on being interested in music. His father bowed to the inevitable, and transferred him to the Royal Academy. Many musical adventures followed the completion of his Academic studies, till, at the age of thirty-two, he was appointed principal of the School of Music at Birmingham. He is also Professor of Music at Birmingham, and gets time to compose a great deal of music, all of which is distinguished by a welcome tunefulness and freshness of style. He has ever



RAY FOX, Violinist, 2BL, Tuesday.

been a stalwart advocate of English music, and he struck a new note by giving concerts of "Modern English Works" as far back as 1896. It is interesting to note alongside this nationalism a love for the East and a strong tint of Eastern coloring in many of his works. He has, too, in his time, had a passionate love for folk songs of Scotland. He has a colorful personality in his music, and one that must be just as attractive to the listener as to the student. It is worthy of note that Granville Bantock was a zestful journalist in his youth, and began a paper called the New Quarterly Review, a progressive publication, which aroused a great deal of attention.

On the same programme, Mr. Horace Keats will play the York Bowen Ballad in A Minor. To those who are looking for piano music that is tuneful and good, one has no hesitation in speaking of York Bowen. Some of his "Suites" are delightful. He has a great ear for

a tune. He is a Londoner who is still on the right side of fifty, and is another of the Royal Academy men to mark his mark.

Then Miss Barbara Russel is to sing two songs by Ireland, who, appropriately enough, is known to all radio listeners by his little gem of piano music, "The Island Spell," which, by the way, is one of a set of pieces called "Decorations." John Ireland has just crossed the fifty border-line, and is a Cheshire man, who studied at the Royal College. Ireland has gone through different stages of development like many another good musician. One of his stages was a flirtation with the school of French Impressionism.

Lastly, there will be Roger Quilter's "Arab Love Song." Quilter is an old Etonian, who had his musical training in Germany. He is another tuneful writer, and his "Children's Overture" is always a programme pet. I do not know that there is a more lovely song written in the past few years than his "Now Sleeps the Crimson Petal."

THE RADIO CHOIR

I NOTICE that the Radio Choir is to sing some part-songs on Thursday ext. I hope sincerely that the choir will not be overworked in the sense that it will be expected to sing more items than it has reasonable time to learn. Once again, it is the old question of rehearsals. We must, it is regretfully admitted, create in Sydney a feeling that "only the best is good enough." Our "only the best is good enough." choral singing for the past few years has been more on the lines that "anything will do." Now, Vern Barnett is a good musician of wide experience, and I feel certain that he can do much with the radio choir, so long as he is not expected to do it all at once. This choir and the Musical Association choir must be our answer to the charge levelled at us by other States that our choral bodies are below standard.

INTERSTATE RELAYS

AND that reminds me that I think it would be a wise move to prohibit interstate choral relays from here till we are certain we can give a good one. It is particularly unfortunate that some of the relays we have given on the National circuit have been-well, unfortunate. It is not the Commission's fault, because they have bought outside concerts in all good faith and under pres-If there is a first-class "outside concert," about the standard of which we are certain, let us pass it on over the National circuit, by all means. If there is not, let us observe due reticence.

RELAYED ARTISTS

PARTICULARLY must we be certain that we do not ask other States to HORACE KEATS, judge our musical standard by inferior planist, 2BL, Tuesday.

soloists sometimes employed by "outside" shows. We have in Sydney, in my opin-ion, more good individual artists than anywhere else in the Commonwealth. And, if a choral body or a concert orand, if a choral body of a companisation want the Commission to buy their show, surely they should see to it that only the best is offered,

BRAHMS CENTENARY

IT is fitting that at the first opportunity this year the Brahms D Minor Sonata for Piano and Violin will be played. This is to happen from 2FC on the 8th, and the artists are Myrtle Meggy and Daisy Richards, both of whom should be able to give the work adequate justice. Brahms was born in 1833, and this is the year of his centenary, of which due observance is to be made in other lands. An early opportunity might be afforded listeners here to have an all-Brahms night.

PROGRAMME CRITICISM ECHO

RECENTLY on this page one ventured a few words of opinion on programme policy. Much comment appears to have followed, and one has received many expressions of opinion, both for and against. In conclusion, one may perhaps put forward this view:—
The Commission can afford to have

listeners saying that programmes are of. a better class than they used to be.

But they cannot afford to have the suggestion made that the standard of music offered is lower than it used to be.

One does not necessarily imply that such a comment would be correct. One merely suggests that there should be no question that it could be even pos-

COMIC OPERA

THE Count of Luxembourg," that tuneful old-time opera, is down for Tuesday next. If it is as good as was "The Student Prince," it will be well worth hearing. I do not know that I have heard a better studio show than that. The cast was excellent, and the whole thing went with a snap that was exhilarating. Congratulations, everybody!





NORMAN MARTIN, 'cellist, 2BL, Tuesday.

Sydney: Friday, January 6, 1933.

RADIO PIRATES TAKE NOTICE

T Newcastle early last month fifty-five people were fined for having possessed unlicensed radio receivers. The total fines amounted to £140.

The local newspapers featured the names of those prosecuted and next day between 900 and 1000 Newcastle citizens took out licences.

These interesting facts are put forward in proof of the efficacy of the campaign against pirate listeners, which has been conducted in New South Wales since September. Similar results have been obtained in Goulburn, Moss Vale, Bowral, Lithgow, Maitland, Singleton, and Windsor, and the notable increase in licences during November and December is mainly due to this effort.

In 1933 the campaign will be redoubled. The results so far, more than justify the expense of detection and prosecution, and the Wireless Inspector's Department will be hot in pursuit of radio pirates until every country town and suburb in the State is covered.

The moral of the campaign is We all quite straightforward. know that while several hundred thousands of us pay for the upkeep of the broadcasting stations and the provision of programmes there are probably as many more listeners sharing our service but offering to pay no share in its expense. Without going into the ethics of their conduct the simple fact is that if these people are obliged to pay their licences there will be twice as much money for programmes and stations twice as good as those we now enjoy; or we would be able to maintain our present services on half the money; licence fees would be 12/- instead of 24/-.

In England the radio pirate is treated harshly. Not only does he pay a heavy fine but he also for-feits his set. Such drastic measures are not necessary in Australia. But take a tip: if you haven't a licence get one immediately and avoid a



Mr. Charles Lloyd Jones joins his band of radio talkers this week, when he will speak on Sydney Festival Week.

FRIDAY

SIR HERBERT BEERBOHM-TREE—Arthur Greenaway, 3.30 p.m.—2FC.

VIENNA, THE AUSTRIAN CAPITAL—Elsie Segaert, 4.0 p.m.—2BL.

A.B.C. MODEL AEROPLANE ASSOCIATION—Conducted by Norman Lyons, 6.45 p.m.—2FC. SOME GREAT MODERN PSYCHOLOGISTS -Mrs. M. Muscio, 8.0 pm.—2BL.

SPORT—Claude Corbett, 9.40 p.m.—2BL. WORLD AFFAIRS—A. M. Pooley, 9.45 p.m.—

SATURDAY

GARDENING-George Cooper, 10.40 a.m.-

POULTRY AND PIGEON SESSION— ed by Conrad Charlton, 6.45 p.m.— A.B.C. P Conducted 2FC.

THE STORY BEHIND Keith Barry, 4.45 p.m.—2BL. THE HYMN-Dr. SIDELIGHTS ON OLD SYDNEY-6.40 p.m.— 2FC. WORLD AFFAIRS—A. M. Pooley, 9.30 p.m.— 2GB.

MONDAY

THE ROMANCE OF TEA-Alex A. Beer, 3.45 p.m.-2FC.

SYDNEY FESTIVAL WEEK—Mr. Charles Lloyd Jones, 7.0 p.m.—2BL. MANCHURIA—THE VOLCANO OF ASIA— Janet Michell, 8.0 p.m.—2BL.

STEAM ANTICS—Commander C. H. Rolles-on, R.N., 3.30 p.m.—2FC. LAND OF THE INCAS—W. P. Goodwin, 4.0 m.—2BL.

AGRICULTURAL ADDRESS—By representa-tive of Dept. of Agriculture, 6.45 p.m.—2FC. GARDENS—"Redgum," 7.45 p.m.—2BL.

AUSTRALIA LOOKS ON THE WORLD-Pro-fessor A. H. Charteris, 9.2 p.m.—2BL.

WEDNESDAY

BRIDGE—Graham Kent, 3.30 p.m.—2FC. LITERARY PERSONALITIES—"Hypatia," 4.0 m.—2BL.

THE CRISIS IN INDIA-T. Stuart Gurr, 6.45 p.m.-2FC.

THE HISTORY AND DEVELOPMENT OF PHYSICS—Major E. H. Booth, 7.30 p.m.—2BL.

THURSDAY

TALES OF HIS MAJESTY'S INDIAN SE-CRET SERVICE—Leo Stark, 3.30 p.m.—2FC. BOOK REVIEWS—"The Bookman," 4.0 p.m.

DENTAL PAIN—Arranged by Chairman of Dental Health Education Committee, 6.45 p.m. —2FC.

ELECTRICITY—Arranged by Electrical Contractors' and Electricians' Licensing Board, 6.55 p.m.—2FC.

THE WONDERS OF THE SOIL-Professor D. Watt, 8.0 p.m.-2BL.

TEST CRICKET-M. A. Noble, 8.15 p.m .-

THE FAMILY PHYSICIAN—Our Duly Qualified Medical Practitioner, 10.0 p.m.—2BL.



"A BIT MORE STEAM"

Dear Sir.-I wish to heartily endorse the comments of Mr. Porter ("Safety Valve," Dec. 23), headed, "This Man Blows Off Steam." There is a lot more compressed steam throughout Australia that will have a mighty big "blow off" before long, according to the rumblings

you hear on every side.
"The National Relay" system at present in vogue will kill progressive wireless. Their programmes are "nothing out of the box," anyway.

Generally a radio play or similar, and useless to the long-distance listener on most summer nights, as it must be followed word for word to be appreciated, and that is often impossible on account of static.

A hook-up of the eight principal stations in Australia is all right for crystalset owners in the vicinity of those stations, but no encouragement to anyone

possessing a decent wireless set. We would be 100 per cent. better off if seven of those stations were scrapped, and a decent one made of the remaining one.

I thank Mr. Porter for opening this matter up, and hope a few more will follow on till something is done in this matter.-Yours, etc.,

W. ELLIOT NIXON.

Dunedoo (24/12/'32),

THE KING'S SPEECH

Dear Sir,—Just a word of praise for the broadcasters' magnificent effort on Boxing Day morning. But what made Melbourne so slow off the mark? Nevertheless, it was fine. We should have a few more of these international broadcasts. Why not weekly talks, relayed from the other side of the world?— Yours, etc., "KENT." Yours, etc.,

Concord (27/12/32).



When the Brighter Breakfast Session comes through the "Happy Hearts" boarding house.



PROGRAMMES THE PICK

FRIDAY, JANUARY 6.

"Mrs. Dane's Defence"

A Play in Four Acts, by Henry Arthur Jones (National Relay, 9.0. P. 25.)

Military Band

The A.B.C. Military Band, Austin Punch (baritone), and Cyril Monk (violinist). (2BL, 8.30. P. 26.)

Organ Music

Valda Kersey plays popular numbers on the organ of the Gordon Theatre. (2CH, 7.30. P. 26.)

Concert

The Brisbane Municipal Band plays a number of Famous Waltzes. (4QG, 8.0. P. 27.)

Community Singing transmission is To-night's from Geelong. (3AR, 8.20.

SATURDAY, JANUARY 7.

"The Magic Mixture," a bright revue. (National Relay, 8.0. P. 29.)

Old-time Dances
The A.B.C. Old-time Dance
Orchestra, Alfred Wilmore (tenor), and Doris Robinson (soprano). (2BL, 8.0. P.

Dance Music

Latest tunes from the Croydon Dance Palais. (2SM, 8.0. P. 30.)

Brass Band

Concert programme by the

Austral Brass Band, which will play many well-known numbers. (3AR, 8.0. P. 31.)

Variety

Popular recorded programme, which gives much variety. (4QG, 8.0. P. 31.)

SUNDAY, JANUARY 8.

"La Traviata"

The well-known opera by Verdi, featuring Cesarini Valobra and Franco Izal (National Relay, 8.0. P. 33.)

Military Band
The Bondi Beach Military
Band in a concert programme. (2BL, 8.30. P. 34.)

Brass Band

Colingwood Citizens' The Band will render popular numbers. (3AR, 8.30. P. 34.)

MONDAY, JANUARY 9.

Neapolitan and Spanish Music

Domingo Caffaro's Argentino Band in bright numbers. (National Relay, 8.0. P. 37.)

Community Singing

programme To-night's cludes the Balalaika Orchestra and Senia Chastiakoff (tenor). (2BL, 8.30. P. 38.)

Orchestra

Gil Dech and his popular orchestra and Senia Chostia-Concert

The Music Teachers' Association arrange a programme. (SAR, 8.30. P. 39.)

Dance Music

The Wireless Dance Orchestra supply the latest num-(3AR, 9.28. P. 39.)

TUESDAY, JANUARY 10.

Light Opera

"The Count of Luxembourg," a spectacular light opera, with music by Franz Lehar. (National Relay, 8.0. P. 41.)

"The Specialists"

A one-act play, with four scenes, written by Enid Baumberg. (2BL, 8.0. P. 42.)

Concert

Concert programme arranged by the Musical Association of New South Wales. (2BL, 8.30. P. 42.)

String Quartette

A.B.C. (Melbourne) The String Quartette, Bertha Jorgensen and Bessie Gaunson (violinists), Dorothy Roxburgh (viola) and Tasma Tiernan ('cello). (3AR, 8.30. P. 43.)

Community Singing
The Ipswich Vice-Regal Band will play several numbers during to-night's transmission from Ipswich. (4QG-4RK, 8.0. P. 43.)

WEDNESDAY, JANUARY 11.

Orchestral Concert

The A.B.C. Symphony Orchestra present a gramme of popular masterpieces. (National Relay, 8.0. P. 45.)

Radio Revue

The A.B.C. Musical Revue Company in a Humphrey Bishop production. (2BL, 8.0. P. 46.)

"Scandal"

A short play by Cosmo Hamilton, which proved successful in London and New York. (2BL, 9.2. P. 46.)

Studio Concert Eileen Boyd (contralto) and Les. Herford (baritone) will be heard in a concert programme. (2GB, 8.0. P. 47.)

Dance Music

The Wireless Dance Orchestra play for us the latest numbers. (3AR, 8.20. P. 47.)

THURSDAY, JANUARY 12.

Band Music

Military Band. The A.B.C. A.B.C. Radio Choir, and Bessie Blake (soprano). (National Relay, 8.0. P. 49.)

The Mexicano Band, Ellice Vocal Quartette, and Lionel Hickey (violinist). (2BL. 8.30. P. 50.)

Music and Songs

Music by a string octette and songs by Senia Chostiakoff. (2GB, 7.25. P. 50.)

International Celebrities

This programme includes the London Symphony Orchestra and the Philharmonic Symphony Orchestra of Symphony (3AR, 8.20. P. New York. 51.)

IN RADIO, WHAT DO YOU AIM TO BUY? Undoubtedly the answer is "SATISFACTION"—Satisfactory performance of your Radio Set in all the Departments of Range, Tone, Volume, Selectivity, Dependability, and Appearance—Satisfactory Value for your money, and Satisfactory Service from your dealer.

THE HUGE NUMBER OF SETS WHICH WE HAVE SOLD DURING THE PAST TWO YEARS THROUGH THE RECOMMENDATION OF CUSTOMERS WHO HAD PREVIOUSLY BOUGHT FROM US GIVES AMPLE PROOF OF THE SATISFACTORY NATURE OF OUR SETS AND OUR SERVICE. LET US SHOW YOU A SET TO SUIT YOUR PARTICULAR NEEDS, AND YOU, TOO, WILL PURCHASE SATISFACTION.

THE 1933 "TRUVOICE" SUPERHETERODYNE FIVE

Completed and thoroughly tested Set, with full equipment of Ken-Rad Valves and Amplion or Jensen Dynamic Speaker, £15/17/6.

Artistic and Attractive Modern Cabinets, in many types, can be seen on application, or write for Illustrated List.

THE UNIVERSAL BATTERY FIVE

SUPERHETERODYNE.

Completed set. Valves and Amplion L1 Speaker, for country areas, £17/17/6. Write for Details.

THEY DEFINITELY DO MATCH.

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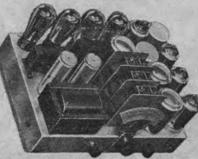
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2/6 each "Truvoice" Re Coil, 2/6. Reinartz



THE NEW 1933 MODEL "BELLBIRD"

S. VALVE SUPERHETERODYNE.



THE BELLBIRD IS THE MOST MODERN SUPERHETERODYNE, EMPLOYS 8 VALVES IN ALL, INCLUDING THE NEW 57 AND 58 SCREEN GRIDS. USES THE NEW PRIME CLASS "A" AUDIO SYSTEM AND DUAL SPEAKERS. COMPLETE WITH VALVES AND AMPLION DUAL SPEAKERS, £19/15/-.

PARTS, ACCESSORIES, AND DIAGRAMS, £18.

THE 1933 "TRUVOICE" SUPERHETERODYNE SIX

A new Long-range Superhet. of the Autodyne Type, which is remarkable for its sensitivity and freedom from background noise. Completed and thoroughly tested Set, with Ken-Rad Valves and Amplion or Jensen Speaker £177/6 All Sets are Guaranteed against mechanical or electrical defects for one year. Twelve months' free service and three months' Guarantee on Valves.

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WE SPECIALISE IN RADIO MAIL ORDER SERVICE. Same day service to Country Clients—Accurate and safe packing and quick despatch.

We specialise in the construction of sets for country areas, and carry full stocks of parts for all battery sets.

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IF IT'S SHORT WAVES OR LONG WAVES—SETS OR KITS OF PARTS—SEE "THE WIRELESS SHOP"

THE UNIVERSAL FOUR.

EXCELLENT SEPARATION AMONGST B
CLASS STATIONS.

REMARKABLE DISTANCE-GETTING
PROPERTIES.

ASTONISHING TONAL QUALITIES.

THE KIT OF PARTS, with Ken-Rad Valves
and Amplion Li Permagnetic Speaker, £15.
Complete, Tested, and Guaranteed, £16.
With Rola, Permagnetic Speaker, instead of
Amplion, £11 the Kit. £15 Complete.

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THE UNIVERSAL FIVE
(Described in the Xmas Number of "W.W.")

More Sensitivity and Selectivity—
No Double Spots.
Our Price: The Kit of Parts, with KenRad or Radiotron Valves and Amplion Li
Permagnetic Speaker£16/19/Complete, Tested, and Guaranteed, £18/5/Your own choice of every part specified,
down to last nut, Drilled Chassis.
With Amplion AB6 Speaker instead of
Permagnetic£13/19/Complete, Tested, and Guaranteed, £15/5/
ALL WAVE RATTERY THREE

ALL WAVE BATTERY THREE

("Wireless Weekly," 19/8/'32)

Kit of Parts, exactly as specified, with Mullard Valves and Amplion AB6 Speaker,
£7/12/6,

Assembled, Tested, and Guaranteed,
£8/10/-.

EMPIRE SHORT-WAVE SET
(Xmas Number, "Wireless Weekly.")
Complete Kit of Parts, as specified, with
Amplion AB6 Speaker and Ken-Rad or
Radiotron Valves (less batteries), £10/15/Complete, Tested, and Guaranteed, £11/19/Add 40/- for Amplion Li Permagnetic
Speaker.

NEW RADIOKES COMPONENTS. Radiokes Pan Full Vision Dials, 7/6. Now

Radiokes Pan Full Vision Dials, 7/8. Now 5/3.

Radiokes Full Vision Straight Type, 22/6. Now 9/-.

Back Panel Vernier Dials, 12/6. Now 5/8. 30 Henry 50 mill. Chokes, 9/6. Now 4/3. 30 Henry 100 mill. Chokes, 12/6. Now 7/3. Push-Pull Transformers, Spat and Spac, 15/-, Now 7/4.

Super Sensitive Wavetraps, 15/-. Now 5/9. 15,000 ohm Wire-wound Voltage Dividers, 5/6. Now 2/6.

25,000 ohm wire-wound Voltage Dividers, 7/6. Now 4/3.

10,000 ohm Wire-wound Potentiometers, 9/6. Now 3/6.

Radio Frequency Choke, 3/6. Now 9d. Audio Transformers, Ratio 3-1, 12/6. Now 7/3.

Audio Transformers, 2/6. Now 1/9.

Lightning Arrestors, 2/6. Now 1/9.

Marquis T.R.F. Colls, 3/6. Now 1/-.

Radiobns, 10,000, 15,000, 25,000, 50,000, 100,000, all wire-wound, 3/6. Now 1/4.

Power Transformers, 600 volt, Centre Tap.

5 volt, 2 amp., 2.5 volt, 5 amp., 2.5 volt, 2 amp., 12/10.

SHORT-WAVE FIVE (Wireless Weekly," 19/8/'32)

Kit of Parts, exactly as specified, with Ken-Rad Valves and Amplion Speaker.
£12/5/-.

Complete, Tested, and Guaranteed, with equipment as above.
£13/10/-.



COUNTRY LISTENERS—A REAL SPECIAL!
Amplion AB6 Speakers, in Handsome Oak
Cabinets. Ordinary Price, £6/17/6, 42/6
NOW......

NOW.

Don't confuse this Speaker with others without Cabinet. As good as a Dynamic.

SUPERHET. CONVERTOR
("Wireless Weekly," 19/8,"32.)

Kit of Parts, as specified, with Ken-Rad
Valves (no Speaker), £4/10/.

Assembled, Tested, and Guaranteed, £5/7/6.

BLUE SPOT SPEAKER UNITS (All Complete, Less Cabinet,). CONE, BALANCED ARMATURE, 29/6. WHILE THEY LAST.

Electrolytic 8 mfd. 500-volt Working Con-densers, 5/9, Pilot .00035, .00025, and .00015 mfd. Cop-35, .00025, and .00015 mfd, Con-densers (Variable), 5/9. - 1 mind

"OUR REPUTATION IS YOUR PROTECTION"
Money Back Guarantee.

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RAD	IOKES	1	IID	G	E	T	co	ND	ENS	ERS
23	Plate									3/-
13	Plate									2/4



TRENDS in RADIO for 1933

The Technical Editor reviews radio development in 1932 and takes a look forward at what is likely to happen this year.

Diode Detectors

Superhets. With R.F.

Class B 'Amplifiers

Tone Compensation

Seven-pin Varves

Short-Waves

Twin Speakers A typical Diode Receiver such as is likely to be popular this year.

BOUT this time last year we set out a prophecy as to what were going to be the technical advances of the Through some fortunate season. circumstance practically every word we spoke bore fruit, and the superhet boom we mentioned boomed in no uncertain way. The lack of confidence in television was fully justified, and in this respect we stand pretty well to-day where we stood twelve months ago. We set out the "Advance" circuit as a suitable one for the year, and sure enough thousands upon thousands of receivers were built to almost identical circuits, and proved themselves capable of filling the bill nicely. We even forecasted that diode detectors would be popular before the year elapsed, and although they were late in coming, the 55s are now well in the boom. Now all this is not just an idle boast; in fact, we don't take any credit for the fact that things turned out as they did, but we only mention it as a justification for this article. account of the success of the last we have been beseiged with requests to "do it again," so here goes for a forecast for the season!

SALES AND PRICES.

Prices will be definitely lower than ever this season, but the trade need have no fears, as there are indications that the number of sets to be sold this season will be greatly increased, and reasonable trading margins of profit should be comparatively easily obtained. However, there will still be plenty of buyers with

some £40 or £50 to spare, and these will be catered for with super sets of the ten and eleven valve all-wave superhet class. So that to be more explicit we think that although the price of the ordinary popular receiver may remain about the same figure as previously, the set itself will be far superior with more valves and better all-round performance. Of course, the superhet will dominate the market almost exclusively, at any rate we will be very surprised if there are more than two brands offering anything but superhets at prices over £20. In this matter we fancy that one of last season's forecasts will be substantiated. mentioned that it might take three years for the superhet to sweep the market, but it is now very obvious that the Australian designers are far more progressive than to allow that length of time to elapse before the complete swing-

THE SUPERHETS.

Fundamentally we fancy the superhets will follow the same lines as at present with autodynes in great favor on account of their low noise level. Many of these will have only the four valves and rectifier, but others will have the r.f. stage added. The r.f. stage only costs a few pence extra in the chassis, as three solenoids are required either way with normal intermediate frequencies, and a three-gang condenser. The only extra then is the actual valve, valve socket, and its wiring. Since it is possible to get greatly increesed range with the r.f.

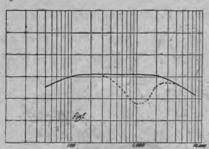
stage it should become more popular as time goes by.

THE INTERMEDIATE FREQUENCY.

There is little hope of any standard-isation taking place, and the superhets for the season will be available with about a dozen different intermediate frequencies, not taking into consideration the variations in frequency due to faulty calibration of the oscillators in certain factories. 172, 175, 178 and others around that mark will probably retain the main popularity for a start with 262 and 465 coming along in the rear. Later in the season we wouldn't be surprised at anything between 15 and 550 Kc., but personally we are inclined to favor the 262 as a fair figure for Australian or, at least, Sydney conditions.

CLASS B AMPLIFIERS.

Class B amplifiers have not yet managed to justify their existence, but there are a number of reasons for this. One was the fact that certain information leaked through from the States to the effect that the 46 was not all it might be in this class of work. However, the 59 is now available, and all fears are set at rest, and one of the biggest upheavals will be in this direction. If superb tonal quality with a terrific reserve of power, reliability, and simple construction counts for anything every superhet listing at more than £30 will be fitted up with "Class B" before the end of 1933. Of course, it's only a guess, but we're guessing hard enough at that point to think



Illustrating Tone Compensation.

it worth while mentioning whilst we are on the job.

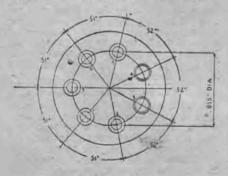
TONE COMPENSATION CIRCUITS.

To many it has become evident that although a set may appear to have bril-liant tonal quality, the turning down of the volume control spells a total loss of the high and low notes, with the general reproduction going very "dead." This characteristic has been noticed in even the best amplifiers and yet was never revealed by meters or testing gear. Now it has been fully explained by the study of the human ear and its failing. (An article on this intriguing subject is due for publication in next week's issue.) Working on this theory we have been able to devise a fairly simple tone compensation circuit, whereby retarding the volume control simultaneously brings into action a tuned filter to attenuate all musical frequencies about 1,000 cycles. The result, of course, is the same as bringing up the response of both high and low notes.

With a receiver having a reserve of 20 watts of undistorted output ready to pump out the low notes this means tonal quality as never before experienced at moderate volume levels. We've already got this stunt on test in the lab., and when it is fully detailed in a few weeks time we think its going to force its way right through the length and breadth of Australia. Of course, it's not one of our own "inventions," as the papers like to call any new development, but we are out to see it through to its proper place

in radio design.

SEVEN-PIN VALVES. Long before the public has had time to get used to the catch word "sixpinvalves." we will have the newer warcry



BOTTOM VIEW The seven-pin socket.

of "sevenpinyalves." As it happens these valves appear to have many attractive features, and it is to them that we look to put the Class B audio amplifier into the front rank. Seven or eight valves will be needed to make up a full-blooded 20-watt class B super terodyne, but even so the actual cost a lot less than might be imagined at first glance, as the

circuit is very simple for one of its size, idea if the speaker manufacturers back the output valves not requiring any bias resistors, by-passes, grid-leaks and so on. If this type of superhet is handled in the way we fancy it will be then the difference in the normal list price between the present five/six receivers and the seven/eights using Class B will be only about £5. At this price they should make such an impression on the prospective buyer that the odd fiver will not be considered as an insuperable obstacle to its purchase.

AUTOMATIC VOLUME CONTROL.

Automatic volume control in itself is more of a nuisance than anything else, but, as we've pointed out before, it's fine if automatic noise suppression is also arranged to stop the noise between stations. This introduces such complication that we doubt if it will interest the home builders, but it appears as though one or two of the bigger sets will be fitted up that way. These receivers will be the big 10 and 11 valve supers mentioned previously.

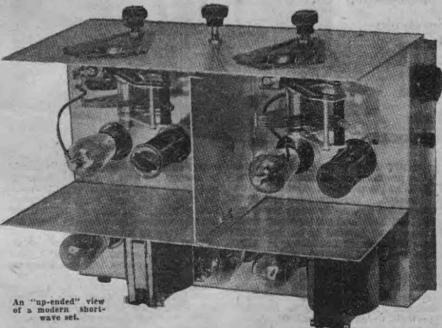
VISUAL TUNING METERS.

With receivers fitted with a.v.c. it is sometimes difficult for the novice to get

it up by turning out properly matched and compensated pairs of speakers ready for fitting. The first speaker manufacturer to handle this matter in a really efficient manner is likely to double the sale of his speakers and more. But, as we said before, even if they have to fit two ordinary speakers the set manufacturers will do it if it means easier sales.

SUPER INDUCTANCE RECEIVERS.

The details of the new Philips circuit, the super-inductance job, which was shown at the Olympia Show in England a few months ago made us think that there might be some significance in this receiver and its effect on future design. Through the courtesy of Philips Lamps we have been able to borrow one of these new receivers, and although there is no doubt about the job's selectivity and tone we very much doubt whether it can hold its own with modern supers at the present stage of its development. But we learnt one very good lesson from this Philips job, and that was that the tone of the commercial receivers in Australia to-day is not up to world-wide standard. Everybody who heard this super-induc-



the receiver tuned correctly. If the receiver is set a trifle off resonance the station will be brought up to normal strength by the effect of the a.v.c., but at the same time the background noise will be brought up, and if the receiver is very selective there is every chance that the tone will be impaired. It therefore comes as fairly natural that the big supers will have visual tuning systems fitted. These will take the form of either neon type glow lamps which will indicate correct tuning by their brilliance, and by meters which will show when the receiver is correctly tuned by their deflection.

TWIN SPEAKERS.

Twin speakers are already with us, and are proving very effective in closing sales with difficult buyers. The idea of having two speakers in one set seems to appeal all right, and so the scheme is certain to be in the boom. And a proper boom will be made of the twin speaker

tance job fell under the spell of its tonal quality, but after all it should be easy enough for Australian manufacturers to attain this degree of fidelity without any great trouble.

CHEAP RECEIVERS.

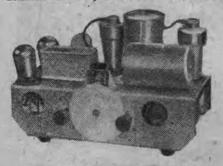
The last few weeks have seen the introduction of complete mantel models selling for £8 15s. retail; in fact, we fancy one shop got down to £7 17s. 6d. These receivers sold well, and provided that they went in to selected localities gave every satisfaction to their buyers. there is sure to be a continued sale of these sets in a small way. But if by any stroke of chance the controllers of broadcasting should see their way clear to control broadcasting and re-allocate the wave-lengths of the Sydney stations, or even insist upon the stations being grouped into one physical location, then these cheap receivers would serve 90 per cent. of the Sydney listeners with all they would require and save the listeners millions of pounds. It seems so simple on paper to insist that the stations be located out Pennant Hills way or anywhere else, but nobody seems to think it their business to make any move to straighten things out. The new 2UE station has just gone up at the south-east corner of the suburbs, and put thousands of sets out of use. 2KY has a new staof sets out of use. 2KY has a new station going up in the north-east to "kill" thousands of sets out that way, and as everybody knows already we have 2UW in the heart of the city, 2GB on the shores of the harbor, 2BL at Coogee, and the rest out in the north-west. It would hardly seem possible to more adequately cover the metropolitan area so as to put every radio receiver within close enough distance to at least one transmitter to drown all the rest. Sooner or later it is reasonable to expect that someone will have to chop down some of those masts, but we're not forecasting that such a thing is going to happen during 1933.

CHEAP T.R.F. SETS.

In an attempt to get cheap sets with selectivity the "All Aboard Four," which we detailed in these columns a few weeks ago, has already been sponsored by a firm or two, and we believe that one new firm has more orders for this type of receiver than it can handle. There is no doubt that it has many advantages over other cheap receivers, and, provided one can get over the drawback of limited volume, it should be an easy one to sell in quantities.

VALVES.

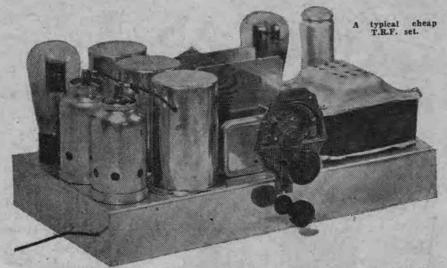
Time was when about 90 per cent. of the valves fitted to Australian sets came from England and the Continent. Then came the American invasion, and at the moment of writing we can't call to mind the name of any radio factory in N.S.W. using anything but American types. But there is no certainty that this is going to be the case much longer. By a gradual process the American valves have become more like the Continental types, having greater gain and far more efficient characteristics on paper, but not the same rugged construction and undoubted reliability which put them to the



The Philips super inductance receiver,

forefront. On the other hand, it is an open boast that at least one of the Continental firms bought out half a dozen American valve experts and put them on the job of designing Continental valves to work like draught horses, without so much of the pedigreed racehorse business.

As it stands to-day both types of valves are extremely reliable, and not one out of every hundred fails to give 1000 hours of faultless service, but what is going to happen if the American valves become more Continentalised and



the Continental valves more Yankified remains to be seen

AUTOMOBILE ELIMINATORS.

A lot has appeared in our columns about the desirability of B battery eliminators to operate from the car battery or any 6-volt accumulator, and some readers by this must be thinking that this bomb is a "dud." However, far from it, and it isn't going to be long now. If everything goes along as we anticipate it we will run a constructional article on the manufacture of one of these gadgets within the next four weeks and half a dozen different types and brands will be available over the counter from any radio dealer.

BROADCASTING.

Due to the trend towards relay programmes it seems that the time is not far distant when 2FC, 4QG, 4RK, 2CO, 3LO, 5CL and 5CK will spend most of their time tied together for interstate relays. When this becomes general the "interstate" receivers to play these stations, such as the better class t.r.f. sets, will become practically useless, and the superhet with its ability to play the interstate "B" class stations should reap all the class of business where long range is a factor in the sale.

BROADCASTING TECHNIQUE.

Another development which we feel certain must come before 1933 has spread its span is the awakening of a knowledge amongst the "heads" that the broadcasting stations in Australia as a whole are not what they might be as regards fidelity, frequency, and general efficiency. Every visitor who lands on these shores pokes fun at our broadcasting stations, their lack of fidelity, their horrible hums and background noises, and their general performance. At any rate that's how it seems after interviewing a few people from other lands, and there must be some grounds for these complaints. Since some of our Broadcasting Commissioners are so wide-awake and so closely in touch with overseas conditions we feel sure we have good grounds for this particular forecast.

EMPIRE BROADCASTING.

So far the Empire Station, which aims to serve the whole of the British Empire direct from Daventry by using the shortwave lengths, has not been able to get through to Australia with any terrific punch, but it's too early yet to make

any rash statements about what they will do in a few months time when they have had a chance to find the most suitable wave-length and time for transmission. If by any chance the Empire Station comes through with sufficient strength to drown the static and with sufficient consistency to give decent en-tertainment value, then naturally one of the big events of 1933 will be the shortwave boom. But with things as they are to-day on the short-wave band their is too much guesswork and general unreliability. To undertake definitely to demonstrate a short-wave receiver at eight o'clock in the evening is usually too much for the average salesman, and even if the sale is completed there is every chance that the customer will "haunt" the salesman for weeks after, as the reception conditions change around with the season or due to some other cause.

ALL-WAVE SUPERHETS.

The remarks about the short-wave sets and the Empire station apply in the same way to the suggested all-wave receivers. If there is consistent entertainment available on the short-wave lengths then the short-wave and allwave receivers will be sold. But to try and sell sets on their short-wave performance with short-waves as they are to-day must be most discouraging. Of course there will always be a limited sale for short-wave gear to the radio enthusiast, but this is not sufficient to swing any of the larger factories into the short-wave game where they may find themselves in great difficulties due to the finer points of short-wave receiver design being quite apart from ordinary broadcast work.

OUR OWN RECEIVERS.

For January we hope to put out two superhets which may be taken as our own ideas of the probable trend of design. The first will have eight valves in all, with Class B amplification, the new seven-pin valves, automatic volume and tone compensator, and a few other modern innovations. It should be ready for publication by the issue of January 13th or 20th. Then later on it will be our privilege to introduce the new Philips valves with a five-valve superhet which has been designed in collaboration with the engineers of the Philips laboratories to be ideal for Australian conditions. Al-

(Continued on Page 35)

THE "FISK SERIES" DIOLAS



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This powerful six-valve receiver has been expressly designed to give an exceptional quality of pressly designed to give an exceptional quanty of reproduction from a wider range of broadcasting stations. Interstate stations are received without earth or aerial. For range and richness of tone

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The Junior is a moderately-priced console re-ceiver combining a high quality of local-station reception with excellent Complete with four valves.

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This new mantel-model receiver is very compact and readily portable from room to room, yet the attractive cabinet houses a full-sized Four Valve Receiver and dynamic speaker, which gives excellent reception of all local stations.

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The KING'S SPEECH and the Empire Station

A report on the Christmas relay, which aroused widespread interest, and a critical examination of the work of the Empire Broadcasting station, by our short-wave correspondent,

R. N. SHAW

SHORT-WAVE listeners have become quite accustomed to new thrills over the air, and are actually always on the lookout for something new and out of the ordinary. But the most interesting of the many earlier broadcasts was literally dwarfed during the early hours of Monday morning, when multitudes of his subjects heard for the first time the actual voice of their King.

At the writer's station conditions were excellent for good reception, quiet conditions having prevailed in the ether during the preceding day. On this occasion listeners had the choice of two circuits, viz., the new Empire station and the London-Sydney radiophone. The latter was used for the official rebroadcast by the "A" class stations in Australia, whilst "B" class stations took their relay from the Empire station. Both stations were tested on our receiving station, and it was found that, generally speaking, the radiophone signals were the strongest and most consistent. The signals from stations were, however, reproduced at good strength on the loud speaker, and were easily followed by some members of the family from their cosy beds two rooms away.

Messages From 2ME

The messages transmitted via 2ME to London were also heard at good speaker, whilst other weaker signals were heard on approximately 38 metres. The several messages of goodwill from various parts of the Empire were followed word by word, although on the Canadian and trans-Atlantic "lines" there were considerable surging and transmission noises. Some of the most interesting messages came from the ships "Majestic" (Atlantic) and "Empress of India" (lying at Port Said). The clarity of the reproduction of the three minutes' message from the King was such that, aided by the slow and deliberate speech of his Majesty, most of the message could have been taken down in abbreviated long-hand.

The King's eulogistic reference to the use of wireless in linking the Empire appealed to radio enthusiasts, whilst his homely reference to the fact that he was speaking from his own home and "from my heart" doubtless appealed to all listeners. The success of the whole broadcast only goes to show what can now be done with the use of short-wave telephony, and induces the hope that the public will hear many other broadcasts of world-wide interest in the future.

THE EMPIRE STATION

WE have now had some ten nights' regular transmission from the long-

looked-for Empire station, and listeners have had a fair opportunity of testing for themselves the possibilities of sucfor themselves the possionities of suc-cess or partial failure when the service is finally established. It cannot be too strongly emphasised, however, that the service, although now of a regular nature, is still very much in the experi-mental stage, and must, in fairness to the A.B.C., be judged accordingly. Obviously, and as might be expected after listening to the nightly programmes, there come to us some rather critical contributions with reference to the type of programmes being transmitted. the first place, it must be remembered that the hour of reception here corresponds to early morning in London, when the best musical programmes would hardly be expected on the air locally. Secondly, the whole programme is experimental, and is being put on the air with a view to obtaining from those interested a fair and candid opinion as to what is most desired. The term those interested embraces every possessor of a short-wave receiving set, to say nothing of those desirous of listening in on those receivers in every part of the British Empire.

It is the fervent desire of the B.B.C. that listeners should immediately forward detailed reports of reception during the whole two hours of transmission. This should include the writer's personal opinion regarding the programmes, suitability of the hour, etc. Upon these reports will largely depend the future of Empire broadcasting. If it is even found that in the Dominions there is a lack of interest in the broadcasts this will react to the detriment of the scheme in general. But from the general trend of press and private comment it is al-ready amply obvious that the interest in the Empire station is decidedly keen and universal. Another point to be remembered is that this service is being supplied to Dominion listeners free gratis, the whole of the capital and operating costs coming out of the pockets of the listeners in Britain, per medium of the B.B. Company.

Reports Disappointing

And now a word or two on actual results. Our reports so far cover practically the whole of Eastern Australia from Cairns in North Queensland to southern Victoria, and are of a deeply varying character. With few exceptions it must be confessed that the reports are tinged with some degree of disappointment. Great things were expected from the new station, and these expectations were undoubtedly buoyed up by the extremely powerful signals listeners

had been hearing from the French station across the Channel at Paris on almost the same wavelength.

Our own personal experience since the regular service was installed on the 9th inst, shows the station at a slight discount when compared with the Parisian station mentioned. The opening hour, 7.30 p.m., is undoubtedly too early during these summer evenings for good reception in Australia, but what is more remarkable is the fact that on a number of occasions signals have gradually faded during the last half-hour, 9 to 9.30 p.m., when normally listeners would expect a rather substantial increase in signal strength. The best average reception in our own locality on the Central North Coast of New South Wales has been between 8.30 and 9 p.m., when there has been no difficulty in providing some really good speaker reception

These remarks, of course, apply to the particular wavelength for this zone, 25.5 metres. It has been found that the dual wavelength of 31 metres provides very much weaker signals, but even on this wavelength signals have been quite clear during the last hour, and will, if continued, probably provide very good reception as summer months wane.

Tune In Other Zones

Little need be said yet regarding reception here of the broadcasts intended for other zones, other than to remark that there are rosy prospects of an excellent signal during autumn and winter months from the 49 metres broadcast to Africa, now being heard at fair phone strength during morning hours.

Many listeners in Sydney and the immediate country surroundings are complaining of interference caused by a code station on an adjacent frequency. Apparently the interference is not very acute when the station is actually transmitting C.W. The trouble appears to be in the use of an unmodulated "carrier," and the report of a correspondent at Roseville may be taken as typical: "When on C.W. there is no interference, but when the C.W. stops it is awful, and the remarkable part . . . is that it surges and absolutely blots out the Empire station," It is suggested that the offender is the powerful transmitter, VIY, at Ballan, in Victoria. It is infortunate that listeners should experience this trouble so early in the life of the Empire station.

CHRISTMAS GREETINGS

SEVERAL of the well-known overseas stations, such as W2XAF and W1XAZ, were disappointing this year in

respect of Christmas broadcasts, and were, in our location, barely audible. But between 3.30 and 4 p.m. on Sunday afternoon a good programme of music, produced in America on Christmas Eve, was heard from W3XAL, of New Jersey. Very good reception was also obtained of the special Christmas service from London via the Empire station, and heard at fair speaker strength from about 7.40 onward on Christmas night. The words of the preacher were de-lightfully clear, although fading was in

evidence at times.

One of the most interesting Christmas transmissions, however, came from the American station at Pittsburgh, W8XK, on the 48.86 band. Over three hours were completely taken up with the Christmas session, which was mainly intended for distant listeners in the Hudson's Bay area and the Far North of America. We first heard the station around 3.30, and it did not close until 6.48 p.m., representing 3.48 a.m. on Christmas morning in New York. During that period hundreds upon hundreds of messages of goodwill were broadcast from people in all parts of America and Canada. It was decidedly interesting.

RADIO CLUB NOTES

ZERO BEAT RADIO CLUB

THE meetings of the club, held on Tuesday and Friday evenings at the club-rooms (Room 38, Sydney Arcade, George Street), are being well attended, and very keen interest is shown by the members of the classes in the Morse and technical sections.

The general secretary reports an increase in the membership, especially in the country and other States. West Australia is now adding a large quota of new members, and, as applications are still coming in, it is expected that the numbers will be greatly increased by the end of January. These members are all keen to take up the correspondence scheme of the club, and many letters of thanks have been received by the club.

A new section of the scheme is com-mencing with the New Year, and, profiting from past experience, arrange-ments have been made for the late-

comer, as 50 extra members will be catered for to allow for those who intend to join up, but have not already done so. If you are intending to take up this course, get your application in as early as possible; new members are being enrolled every day, and it will not take long to fill up the openings which have been left. Write to the general secretary, 42 Bayswater Road, Darlinghurst, for further particulars.

Members are advised that the experi-mental station of the club-VK2ZBwill be transmitting slow Morse on Wednesdays, from 8 to 9 p.m., and on Saturdays, 2 to 3 p.m., until further notice.

At a meeting of the council of the club it was decided that the general secretary, Mr. J. Fletcher, be placed in full control of the arrangements of the club in connection with the flight of the Southern Cross to New Zealand, and that Mr. J. Hutchinson, better known as VK2JH, be in control of the transmitting and receiving stations engaged in the work under the club's supervision and organisation. The plans include the assistance of about 100 amateurs in the work as loid down. teurs in the work as laid down.

NOTES ON COMING UNIVERSITY LECTURES

2BL FRIDAY

SOME GREAT MODERN **Psychologists**

By Mrs. B. Muscio, M.A.

N these four lectures something will be said about three great psycholo-gists—William James, Sigmund Freud and C. G. Jung. Because psychology is the science of the mind, it is the science which is nearest to us all. can all look into our own minds observe our own conduct and the conduct of our neighbors, so that we all have some material handy for the study of psychology. An intelligent study of psychology ought to keep us from being bored and help us to get on better with other persons.

2BL MONDAY

MANCHURIA THE VOLCANO OF ASIA

By Miss Janet Mitchell

HE fate of any country is largely determined by its geographical position. Manchuria is a case in point; bounded (roughly speaking) on the north by Russia and on the south by China, it was bound to be a centre of conflict between these two Powers, and as such has always been a fruitful source of trouble.

2BL WEDNESDAY

WORKERS ON THE SUBJECT OF HEAT

By Major E. H. Booth, M.C., B.Sc., F. Inst. P.

WITH modern civilisation dependent as such on the interlocked applications of all aspects of all branches of physical investigations, it is difficult, if not impossible, to say that one set of observations is more important than another. Fire and heat are, however, of such importance to our very existence, and the development of heat engines has meant so much in the progress of our modern civilisation, that the history of the extension of our knowledge of heat is of especial interest.

Not only is heat applied to establish our comfort, to prepare our food, to provide light, energy, and home and commercial use-it is also applied by us physiologically in living. We take on fuel, burn it, and thus live and also perform more or less useful external

Speculation as to the nature of heat led to many arguments, unsupported by experiment, right down to comparatively recent times. Lucretius, the Roman author of "De Rerum Nature," to whom reference was made in the last lecture, was followed by the Greeks in his acceptance of it as a "substance." 2BL THURSDAY

The Structure & Physical Properties OF THE SOIL

By Professor R. D. Watt

WE saw last week that all soils are composed of mineral particles derived from rocks and organic matter derived from plants and animal remains. In most soils the mineral particles predominate, the organic constituents only constituting something of the order of 2 to 10 per cent., although the proportions may be reversed in the case of a peaty soil. In some instances, the soil particles consist of the actual minerals present in the rock; for example, a fragment of quartz from a rock becomes a grain of sand in the soil. In other cases, chemical changes take place, and felspar and similar minerals leave be-hind a residuum of clay. The organic portion may consist of practically unal-tered materials, such as straw or woods recently incorporated with the soil, but mainly of a dark-colored colloidal material, known as humus, derived from them. From a physical point of view, therefore, a soil consists mainly of (1) fragments of unweathered minerals of considerable size, which we may roughly describe as sand; (2) clay derived from the chemical weathering of minerals like the felspars; and (3) humus, together with a small amount of undecomposed organic matter. Many of the most important properties of the soil depend on the relative proportions of these three fractions, although com-pounds of lime and iron also play a



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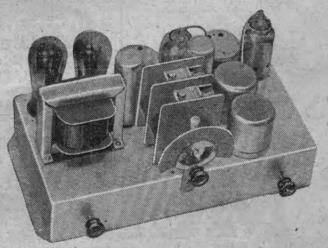
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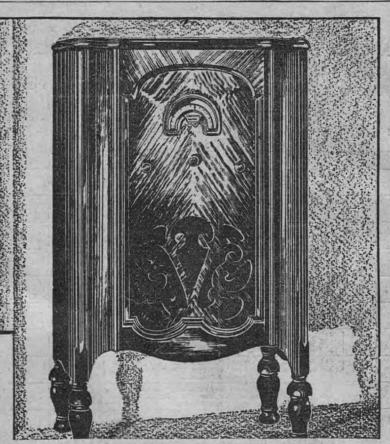


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Stromberg-Carison

AUSTRALIAN BROADCASTERS

A complete official list of the A and B class broadcasting stations in Australia.

*Denotes power in the aerial.

Stations 2MV and 2XL, previously in this list, are now off the air.

CALL SIGN	DIAL No.	W'LENGTH POWER, Etc.	NAME AND LOCATION	CALL	DIAL No.	W'LENGTH POWER, Etc.	NAME AND LOCATION
2CO		535.7 metres 560 k'eyeles. 7500 watts.*	National Broadcasting Station, Relaying 3LO and 3AR, COROWA.	6ML		264 metres, 1135 k'cycles, 300 watts,	Musgroves, Ltd., Studio: Lyric House, Murray St PERTH.
7ZL		517 metres, 580 k'cycles, 3000 watts,	National Broadcasting Station, Studio: Elizabeth Street, HOBART.	4BC	10	262 metres. 1145 k'cycles. 600 watts.*	J. B. Chandler and Co., Studio: 43 Adelaide Street, BRISBANE.
3AR		492 metres. 610 k'cycles. 5000 watts.	National Broadcasting Station, Studio: 120A Russell Street, MELBOURNE.	3YB		262 metres. 1145 k'cycles. 25 watts.*	Mobile Broadcasting Service, 430 Little Collins Street, MELBOURNE.
5CK		472 metres. 635 k'cycles. 7500 watts.*	National Broadcasting Station, Relaying 5CL, CRYSTAL BROOK, S.A.	2WG		260 metres, 1155 k'cycles. 50 watts.*	Riverina Breadcasting Co., 16 Fitzmaurice Street, WAGGA.
2FC	1.	451 metres. 665 k'cycles. 5000 watts.	National Broadcasting Station, Studio: 96-98 Market Street, SYDNEY.	4T0		256.4 metres. 1170 k'cycles. 100 watts.	Amalgamated Wireless, (A'sia), Ltd., TOWNSVILLE.
6WF		435 metres. 690 k'cycles. 5000 watts.	National Broadcasting Station, Studio: Hay Street, PERTH,	3DB		254 metres. 1180 k'cycles. 500 watts.	3DB Broadcasting Stn. Pty., Ltd Studio: 36 Flinders Street, MELBOURNE.
2YA		416.7 metres. 720 k'cycles. 5000 watts.	N.Z. Broadcasting Board, Wellington, NEW ZEALAND.	4MK		252 metres. 1190 k'cycles. 100 watts.*	Williams' Agencies, Ltd., Address: P.O. Box 165, MACKAY.
5CL		411 metres. 730 k'cycles. 5000 watts.	National Broadcasting Station, Studio: Hindhmarsh Square, ADELAIDE.	5KA		250 metres. 1200 k'cycles. 300 watts.*	Sport Radio B'casting Co., Ltd., Studio: 81 Flinders Street, ADELAIDE.
4QG		395 metres. 760 k'cycles. 5000 watts.	National Broadcasting Station, Studio: c/o State Insur, Bldgs., BRISBANE.	2CH		248 metres. 1210 k'cycles. 1000 watts.*	Council of Churches, 77 York Street, SYDNEY,
3L0		375 metres. 800 k'cycles. 500 watts.	National Broadcasting Station, Studic: 120A Russell Street, MELBGURNE.	6KG		246 metres, 1220 k'cycles, 100 watts.*	Goldfields Broadcasters, Ltd., Bourke Street, KALGOORLIE.
2BL		351 metres. 855 k'cycles. 5000 watts.	National Broadcasting Station, Studio: 96-98 Market Street, SYDNEY,	2NC		241 metres, 1245 k'cycles, 2000 watts.*	National Breadcasting Station, Relaying 2FC and 2BL, NEWCASTLE.
6PR		341 metres. 880 k'cycles. 200 watts.	Studio: Nicholsons, Ltd., Barrack Street, PERTH,	3WR		238 metres, 1260 k'cycles, 50 watts,	Wangaratta B'casting Pty., Ltd. Studio: Reid Street, WANGARATTA.
7H0		337 metres. 890 k'cycles. 50 watts.*	Commercial Broadcasters, Ltd., Studio: 82 Elizabeth Street, HOBART.	2SM		236.1 metres. 1270 k'cycles. 1000 watts.*	Catholic Broadcasting Co., Australia House, Carrington St SYDNEY.
4RK		330 metres. 910 k'eyeles. 2000 watts.*	National Broadcasting Station, Relaying 4QG, ROCKHAMPTON.	3TR		234 metres. 1280 k'cycles. 50 watts.*	Gippsland B'casting Service, Address: Raymond Street, SALE,
3UZ		326 metres. 930 k'cycles. 500 watts.	Oliver J. Nilsen and Co., Studio: 45 Bourke Street, MELBOURNE,	4BK		233 metres. 1290 k'cycles. 200 watts.*	Brisbane Broadcasting Co., Studio: King House, Queen St. BRISBANE,
2GB	100	316 metres, 950 k'cycles. 3000 watts.	Thecsophical Broadcasting St., Studio: 29 Bligh Street, SYDNEY,	3BA		230.8 metres. 1300 k'cycles. 50 watts.*	Ballarat Broadcasters Pty., Ltd. C'wealth Bank Bldgs., Sturt St. BALLARAT.
5DN		312 metres. 960 k'cycles. 1000 watts.	Hume Broadcasters, Ltd., Studio: 29 Rundle Street, ADELAIDE.	5AD		229 metres. 1310 k'cycles. 300 watts.*	Advertiser Newspapers Ltd., Studio: Weymouth Street, ADELAIDE.
3BO		309 metres. 970 k'cycles. 200 watts.	Amalgamated Wireless (A'sia), Ltd. Studio: Kangaroo Flat, BENDIGO.	2M0		227 metres, 1320 k'cycles, 50 watts.*	M. J. Oliver, Address: P.O. Box 78, GUNNEDAH.
4GR		300 metres, 1000 k'cycles, 50 watts.*	Gold Radio Service, Studio: Ruthyen Street, TOOWOOMBA.	4RO		225.56 metres. 1330 k'cycles. 250 watts.	Rockhampton Broadcasting Co., Studios in ROCKHAMPTON.
ЗНА		297 metres. 1010 k'cycles. 200 watts.*	Western Province Radio Co., 37 Gray Street, HAMILTON.	2XN		224 metres, 1340 k'cycles. 50 watts.*	G. W. Exton, Address: P.O. Box 138B, LISMORE.
2UE		293 metres. 1025 k'cycles. 1000 watts.	Radio House, Studio: 296 Pitt Street, SYDNEY.	3KZ		222 metres, 1350 k'cycles. 200 watts.*	3KZ Broadcasting Station, Studio: 40 Victoria Street, MELBOURNE.
5PI		288 metres, 1041 k'cycles. 50 watts.*	Midlands Broadcasting Services, Studio: Ellen Street, PORT PIRIE,	4BH		217.3 metres. 1380 k'cycles. 600 watts.*	Broadcasters (Aust.), Ltd., Studic: 90-92 Queen Street, BRISBANE.
2CA		286 metres, 1050 k'cycles. 50 watts.*	A. J. Ryan. Kingston, CANBERRA.	2GN		216 metres. 1390 k'cycles. 50 watts.	Goulburn Broadcasting Co., Studio: Auburn Street, GOULBURN.
4MB		283 metres. 1060 k'cycles. 50 watts.	Maryborough Broadcasting Co., Wynne's Station, MARYBOROUGH, Q.	3GL		214 metres. 1400 k'cycles. 50 watts.*	Geelong Broadcasting Pty., Ltd. Studio: National Mutual Bldgs., GEELONG.
2KY	1	280 metres. 1070 k'cycles. 1500 watts.	Trades and Labour Council. Studio: The Block, George St., SYDNEY.	2KO		212 metres, 1415 k'cycles, 200 watts.	Newcastle Broadcasting Co., Studio: 57 Hunter Street, NEWCASTLE.
3SH		277.8 metres. 1080 k'cycles. 50 watts.	Swan Hill Broadcasting Co., SWAN HILL,	3AW		210.5 metres. 1425 k'cycles. 300 watts.*	Vogue Broadcasting Co., Ltd., His Majesty's Theatre, MELBOURNE,
7LA		273 metres. 1100 k'cycles. 200 watts.*	Findlay and Wills Breadcasters, 67 Brisbane Street, LAUNCESTON.	2WL		209.06 metres. 1435 k'cycles. 50 watts.*	Wedlongong Broadcasting Co., Address: 149 Crown Street, WOLLONGONG.
2HD		270 metres. 1110 k'cycles. 200 watts.*	Airsales Broadcasting Co., Studio: Civic Centre, NEWCASTLE	2AY		203 metres. 1480 k'cycles. 50 watts.*	Charles Rice, Studio: 610 Dean Street, ALBURY.
2UW		267 metres. 1125 k'cycles. 1500 watts.	Radio Broadcasting Ltd., Studio: Paline's Bidgs., Ash St., SYDNEY.	3AK		200 metres, 1500 k'cycles, 50 watts.*	1kron Broadcasting Service, Ltd. 490 Elizabeth Street, MELBOURNE.

JANUARY 6 FRIDAY

FROM 2FC, 2CO, AND 3LO,—TO-NIGHT, 8.0 PROGRAMME 8.0—NATIONAL

A NATIONAL PROGRAMME A CELEBRITY VAUDEVILLE

A Humphrey Bishop Production "MRS. DANE'S DEFENCE" A PLAY IN FOUR ACTS

HENRY ARTHUR JONES

First Produced in London at Wyndham Theatre by Mr. Charles Wyndham, Lena Ashwell, and Mary Moore.

CAST

SIR DANIEL CARTERET

Maune Lunton

LIONEL CARTERET (His Adopted Son) John Pickard

CANON BONSEY John Bevan

MR. BULSOM-PORTER

Leonard Stephens

MR. JAMES RISBY.. Reginald Dane

FENDICK, A Private Inquiry Agent John Fernside

MRS. DANE'S DEFENCE

A PLAY IN FOUR ACTS Bv

Henry Arthur Jones

ADAMS, Butler to Lady Eastney Dion Wheeler

MRS. DANE Nancye Stewart

MRS. BULSOM-PORTER

Molly Raynor

JANET COLQUHOUN

Kathleen Rhys-Jones

LADY EASTNEY Nora Cazabon

ACT I .: Drawing Room at Lady Eastney's, Night,

ACT II .: The Same, a Saturday Afternoon about Three Weeks Later.

ACT III.: The Library at Sir Daniel's, the Following Wednesday Afternoon.

ACT IV .: The Same, the following Saturday Evening.

ADAPTED BY GEORGE D. PARKER

10.30 (Relayed to 2NC Newcastle) (Completion of Relay to National

Late Official Weather Forecast

10.32 LATEST DANCE MUSIC (r.)

11.0 (Completion of Relay to 2NC Newcastle)

11.30 CLOSE.

ALTERNATIVE PROGRAMME OVERLEAF—DAY SCHEDULES BEGIN BELOW

SYDNEY, 451 Metres

EARLY SESSION

(Relayed to 2NC Newcastle).

o: "Big Ben." Early Rising Music. Meteorological information for the man on the land.

10: This morning's news from the "Sydney Morning Herald."

7.15: Cables (copyright) from the Australian Press Association and Sun-Herald News Service. 7.18: Studio Music (R.).

7.30: A short daily commentary for the man outback.
7.40: Radio Rhythm (R.),
7.45: Mails and Shipping.
7.48: What is on To-day?
7.50: Music from the Studio (R.).
8.15: CLOSE. (Completion of Relay to 2NO Newcastle)

MORNING SESSION

(Relayed to 2NC Newcastle from 10.40 a.m.)

(Relayed to 2NC Newcastle from 10.40 a.m.)

10.30: Announcements.

10.32: G. VERN BARNETT AT THE STUDIO ORGAN—

"Rakoczy March" Berlioz
"Andante from Sonata" Harwood
"Priere" Lemmens.

10.45: MORNING DEVOTION (conducted by Colonel G. L. Carpenter).

11.0: G. VERN BARNETT AT THE STUDIO ORGAN—

"Coronach" Barrett
"Andante Cantabile" Tschaikowsky
"Chante Sans Paroles" Tschaikowsky
"Grand Choeur" Spence

11.15: Musical Items (R.).

11.50: British Official Wireless News.

12.0: "Big Ben." Stock Exchange and Metal Quotations.

12.5: Studio Music (R.).

12.15: Metropolitan forecast and weather synopsis. Special Produce Market Session for the man on the land, supplied by the State Marketing Board.

12.30: CLOSE. (Completion of Relay to 2NO Newcastle).

THE LUNCH HOUR

1.0: LUNCH HOUR MUSIC.
1.57: Sectional Weather Forecast.
2.0: Programme Announcements.
2.2: Stock Exchange (second call).
2.4: A Glance at the Afternoon "Sun." Cables

(copyright) from the Australian Press Association and Sun-Herald News Service. 2.10: Musical Items (R.).

THE RADIO MATINEE

(Relayed to 2NC, Newcastle, from 2.30 to 4.30 p.m.)

2.30: AN ORCHESTRAL OVERTURE (r.).

EARLY EVENING SESSION (Relayed to 2NC, Newcastle, from 5.45 to 6.45, and from 7.5 to 8 p.m.)

At: THE CHILDREN'S HOUR.

Conducted by "BOBBY BLUEGUM."

A STRAY SUNBEAM—

"Instead of a gem. or even a flower,
Cast the gift of a lovely thought,
Into the Heart of a Friend."

AT: "AT HOME WITH THE WORLD'S
CHILDREN." (How the Men and Women of
To-morrow live, work, play, and go to school
in many ways, and many climes.)

57: THE LATEST RECORD.

6: "CHRISTOPHER ROBIN" in more Pooh
Stories.

6.0: "CHRISTOPHER ROBIN" in more Pooh Stories. 6.15: Birthday Calls. 6.30: Serial Time. 6.45: "Sleep Tight." (Completion of Relay to 2NC, Newcastle.) THE A.B.C. MODEL AEROPLANE ASSOCIA-TION, conducted by NORMAN LYONS. (Relayed to 2NC, Newcastle.) 7.5: The A.B.C. Sporting Association, conduc-ted by M. A. Ferry, the A.B.C. Racing Ob-server.

7.15: Weather Report, Stock Exchange, Wool Sales, Wheat Markets, Truck Bookings, Gen-eral Market Reports.

7.45: News from the "Sun." Additional News from the A.B.C. Service. Cables (Copyright) from the Australian Press Association and Sun-Herald News Service. Wireless News from the British Official Service.

7.58: To-night's Programme. (Completion of Relay to 2NC, Newcastle.)

EVENING PROGRAMME

(See above)

SYDNEY. 351 Metres

OPENING SESSION

8.15: A Musical Interlude (R.).

8.40: Meteorological data for the country.

8.45: Mails and Shipping Information.

8.50: Memory Melodies (R.).

8.90: Memory Melodies (R.).

9.0: OLD FOLKS' SESSION—

A homely little heart to heart talk on age and old memories.

An old-time record.

A further between you, me, and the microphone talk, during which a suitable poem or two will be read.

A reading.

A memory melody record.

9.30: Melodies Grave and Gay (R.).

9.40: British Official Wireless Press.

9.45: Moments Musical (R.).

10.5: News from the "Sydney Morning Herald."

10.8: Cables (Copyright) from the Australian Press Association and "Sun"-"Herald" News Service.

10.10: Studio Music (R.).
10.35: THE AUSTRALIAN WOMEN'S RADIO
ASSOCIATION SESSION, conducted by Miss
Gwen Varley—"An Introduction to an Outstanding Personality" by Miss Gwen Varley.
"Venice—Two in a Gondola" by Mrs, Julius Horn. 11.0: CLOSE.

MIDDAY SESSION

12.0:

2.0: Announcements. Metropolitan Forecast and Weather Synopsis. 2.2: FROM THE SYDNEY TOWN HALL— COMMUNITY SINGING CONCERT, arranged by 1. AUSTRALIAN BROADCASTING COM-MISSION, conducted by FRANK HATHERLEY.

FRIDAY, January 6 (Contd.)

8.0-ALTERNATIVE PROGRAMME, 2BL and 2NC-8.0 9.10 CYRIL MONK 8.0 THE UNIVERSITY EXTENSION

BOARD SERIES OF LECTURES "SOME GREAT MODERN PSY-CHOLOGISTS" - "William James, the Father of Modern Psychology," a talk by MRS. M. MUSCIO

8.30 THE A.B.C. MILITARY BAND, Conducted by J. PHELOUNG Overture: Sicilian Vespers Verdi

8.38 AUSTIN PUNCH (Baritone) Thoughts Have Wings Lehmann That Dear Old Song Love

8.45 CYRIL MONK (Violinist) Four Negro Spirituals .. Benjamin

8.53 BAND Dream Melody: Ah, Sweet Mystery of Life Herbert Kiltle's Courtship MacKenzie

9.0 Late Official Weather Forecast

9.2 BAND

Waltz: Des Fleurs ... Tschaikowsky

Second Romance,

Schumann, arr. Monk Allegretto Boer Katey's Reel Arr. Hughes

9.18 AUSTIN PUNCH Castilian Lament Del Riego

Phillis Has Such Charming Graces,

9.25 BAND

Selection: Reminiscences of Scotland, Arr. Godfrey

9.40: AN INTERLUDE.

10.0 BAND

Patrol: Jungle Drums Ketelbey March: Geburtstags Kuhne

MERRY 10.15 "MOMENTS MUSICAL" (r.)

10.27 Late News from the "Sun"

10.30: CLOSE.

2BL—Continued

Assisted by "John." Associate Artists: "The Black and White Duo," Entertainers.

1.0: FROM THE STUDIO—Afternoon News from the "Sun." Cables (Copyright) from the "Sun"-"Herald" and Australian Press Association News Service.

1.8: Sectional Weather Forecast.

1.11: FROM THE SYDNEY TOWN HALL-COMMUNITY SINGING CONCERT, arranged by AUSTRALIAN BROADCASTING COMMIS-SION. Associate Artists: The Black and White Duo, Entertainers; Charles Frizelle, Baritone; Jack Murfayne, Xylophonist.

2.0: What's on the air this afternoon?

2.2: "Thirty Minutes with the Poets."

AFTERNOON ENTERTAINMENT 2.32: "STAGELAND SUCCESSES" (R.).

2.32: "STAGELAND SUCCESSES" (R.).
3.0: "MUSIC OF THE DANCE" (Folk Dances, Waltz, Polonaise and Mazurka).
3.20: "GEMS FROM GRAND OPERA" (R.).
3.40: "AN ORCHESTRAL INTERLUDE" (R.).
3.50: MELODIES OF FRANZ SCHUBERT (R.)
4.0: MISS ELSIE SEGAERT WILL SPEAK OR
"VIENNA THE AUSTRIAN CAPITOL."
4.15: "MUSIC OF THE MOMENT" (R.)
4.45: THE TRADE HOUR DEMONSTRATION
MUSIC.
5.40: Weather Information.
5.40: Weather Information.

THE DINNER HOUR

6.15: DINNER MUSIC.
7.45: Studio Music (R.).
7.58: What's on the air to-night?

EVENING PROGRAMME

(See above)

SYDNEY, 248 Metres

Day Sessions as usual. EARLY EVENING SESSION

6.55: ANNOUNCEMENT.
6.56: JAMES McCAFFERTY, Baritone—
Kitty My Love, will you Marry me? Hughes
Open the Door Softly.
6.59: NAT SHILKRET and HIS ORCHESTRA—
I Still Keep Dreaming of You, Davis-Burke
7.2: WARNER YORKE, Plano Novelty—
Crazy Quilt
7.5: AMELITA GALLI CURCI, Soprano—
Carnations Valverde
Little Star

Carnations Ponce
Little Star
JACK HYLTON and HIS ORCHESTRA—
The Girl Friend Rodgers
ANNOUNCEMENT.

7.15: THE BIG FOUR—
When the Guards are on Parade.
7.18: REGIMENTAL BAND OF ROYAL HORSE
GUARDS—
Gallantry Duo D'Amour Ketelbey
7.22: J. H. SQUIRE CELESTE OCTET—
Killarney Balle

GUARDS—
Gallantry Duo D'Amour
7.22: J. H. SQUIRE CELESTE OCTET—
KIllarney
7.25: GLADYS MONGRIEFF Soprano—
Sailing the Sea of Romance Samuels
7.28: ANNOUNCEMENTS
7.30: FROM THE GORDON THEATRE—
VALDA KERSEY AT THE ORGAN—
Just Another Dream of You Sherman
Waiting
7.40: DAJOS BELA ORCHESTRA—
The Sphinx Valse Popy
7.44: DENNIS KING, Baritone—
Nichavo Jerome-Zusca
7.47: B.B.C. WIRELESS MILITARY BAND—
Carmen Fantasia
7.55: ANNOUNCEMENTS.
8.0: VALDA KERSEY AT THE ORGAN—
Morent Musicale Schubert
Destiny Waltz Baynes
8.10: RICHARD TAUBER, Tenor—
Ay, Ay, Ay
8.14: YELLY D'ARANYI, Violinist—
Bagatelle in D
8.17: DEBROY SOMERS BAND—
When its Sunset on the Mill.
Kennedy-Ellison
8.20: VALDA KERSEY AT THE ORGAN—
Went is Sunset on the Mill.

When its Sunset on the Mill.

8.20: VALDA KERSEY AT THE ORGAN—
The Rosary — Nevin
The March of the Dwarfs — Grieg
A Great Big Bunch of You — Warren
8.30: ANNOUNCEMENT.
8.31: HUBERT EISDELL, HEDDLE NASH, DENNIS NOBLE, and NORMAN ALLIN—
Passing By — Purcell
8.35: DAJOS BELA ORCHESTRA—
Wedding of the Rose — Jessel
8.39: ANNOUNCEMENT.
8.40: VALDA KERSEY AT THE ORGAN—
Selection, Floradora — Stuart
Powder Puff
8.50: A TALK BY GEORGE GARNSEY (Official
Coach of the New South We's Gricket
Association).

9.0: JEANETTE MACDONALD, Soprano-Grey Schertzinger

9.7: J. H. SQUIRE CELESTE OCTET—
Amina
2010: THE ROUNDERS—
Deep Night
9.13: ANNOUNCEMENT.
9.15: THIRD NEWS AND COMMENTARY.
10.0: Musical Item.
10.5: AN ADDRESS BY REV. C. J. PRICE
(Presbyterian)
10.25: Musical Item.
10.30: CLOSE.

2GB

SYDNEY. 316 Metres

Day Sessions as usual,

EVENING SESSION

5.0: Birthday Calls and Songs by Uncle George and Bimbo. 6.45: Music. 7.0: J. H. Squire Celeste Octette—The Ant's Antics; An Irish Love Song; The Fly's Court-ship.

ship.
7.15: The Big Four Vocal Quartette—You're
Gonna be Young; Down the Old Back Road;
When the Guards are On Parade.
7.30: Regimental Band of H.M. Grenadier
Guards—The Middy March; Patthful and

When the Guards are On Parade.
7.30: Regimental Band of H.M. Grenadier Guards—The Middy March; Faithful and Bold.
7.40: Hubert Eisdell, Tenor—Two Tired Old Eyes; Always as I Close My Eyes.
7.50: Zez Confrey and his Orchestra—Jack in the Box; Jumping Box.
8.0: New Symphony Orchestra—Peer Gynt Suite No. 2 (Grieg)s Ingrid's Lament; Arabian Dance; Peer Gynt's Return; Solveig's Song.
8.20: David Craven, Bass Baritone—The Sea Gypsy (Michael Head); The Star (Rogers).
8.30: De Groot and Piccadilly Orchestra—Frederica Selection; Tina.
8.40: Virginnia Bassetti, Contralto—Let Them Not Vanish (Mollinson); The Sandyman 6.50: The Coldstream Guards Band—The Gondoires Selection (Sullivan).
9.0: Jesse Crawford, Wurlitzen Organist—Indian Love Call; You're the Cream in My Coffee.
9.10: David Craven, Bass Baritone—Two Songs by Anny Woodforde-Finden Kingfisher Blue; Till I Wake (from Four Indian Love Lyrles).
9.20: Maori Music—Waita Pol; Lake Music—Rotorua Maori Choir.
9.30: Symphony Orchestra—La Vida Breve.
9.35: Virginnia Bassetti, Contralto—Deep River, Were You There? Two Negro Spirituals by Burleigh.
9.45: Address by Mr. A. M. Pooley.
11.0: Slumber Music.
11.30: Close down.

SYDNEY. 267 Metres

Day Sessions as usual. 5 15: CHILDREN'S SESSION, conducted by UNCLE JACK, JILL, AND THE PROFESSOR, 5.58: MIDSHIPMAN BOB BREEZY.

6.3: DINNER MUSIC. 6.40: To-morrow's Sporting.

6.45: Music.

RELAY TO 2KO, NEWCASTLE-SPON-

6.45: Music.

8.0: RELAY TO 2KO, NEWCASTLE—SPONSORED SESSION—
Orch.—Dollar Princess Selections Fall
Vocal—Were You Just Pretending? Jerome
Piano—Whitebirds Selections. Carter
Sketch—Louise Homfrey —Clifford Arnold.
Violin—Serenade. Lehar
Orch.—Grasshoppers' Dance Bucalossi
3.30: A Short Gipsy Programme, featuring Alfredo Rode and his 18 Tsiganas—
Orch.—Hungarian Rhapsody No. 2 Liszt
Gaili Curcl—The Gipsy and the Bird.
Orch.—(a) Song of the Guitar.
(b) The Two Guitars.

8.45: Four Australian Artists—
Wm. Murdoch—Duetto Mendelssohn
Florence Astral—Dream in the Twilight
Lauri Kennedy—Cradle Song Brahms
Harold Williams—To-morrow Keil
9.0: A Comedy Sketch.
9.15: Gardening Session, by Mr. S. H. Hunt.
9.30: Orch.—From Foreign Parts Mozkowsky
9.45: Band Recital—
Band—Marche Indienne Selenick
Vocal—On the Road to Mandalay Speaks
Band—La Bombardier Pares
Vocal—Shenandoah Peeking
Band—Radio March Peeking
10.28: To-morrow's Programme.
10.28: To-morrow's Programme.
10.30: Close down.

SYDNEY. 293 Metres

Day Sessions as usual.

EVENING SESSION

Children's Session-Auntie May and Uncle mon. 5.40: Uncle Lionel and Ambrose.

6.30; Dinner Music. 6.45; To-morrow's Races—Mr. Tom Ellis. 7.5; Music. 8.0; Overture—Semiramide. 8.15; Racing Service. 8.25; Music. 8.45; Racing Final. 9.0; Studio Programme. 9.30; Cricket Talk. 9.40; Selections. 9.45; Calls to Distant Listeners. 10.0; Light Opera Selection—Rio Rita. 10.10; Music. 10.45; Tranquillity Music. 11.0; Close Down

SYDNEY, 280 Metres

EVENING SESSION

EVENING SESSION

O: Children's Birthday Session. 6.30: Dinner Entertainment. 7.15: Dinner Music. 7.30: Racing Revelations, Rufe Naylor. 7.45: Music. 8.0: Chimes. 8.1: Greyhound Coursing Prospects, Mr. A. W. Davies. 8.10: Selections and Popular Numbers. 8.45: Sport Shorts, Andy Planagan. 9.0: Sporting Feature from the Newtown Stadium. Results of the early events. Full description of the main 15-round event, by H. E. Beaver. 10.0: Music from studio. 10.30: Closing Announcements.

SYDNEY, 236 Metres

Day Sessions as usual.

0: Children's Session—Auntle Goodie. 5.30:
Uncle Tom. 6.0: Angelus. 6.1: Dinner Session. 6.46: Studio Music. 7.0: Turf Topics—Eric Gordon. 7.15: After Dinner Entertainment. 7.45: Studio Music. 8.0: Evening Session. 8.10: Studio Music. 8.20: Camden Morrisby—His Book of the Week. 10.0: Composing Music. 10.30: Close.

MELBOURNE, 375 Metres

EARLY MORNING SESSION

7.0: News. 7.3: Music. 7.10: Morning Music. 7.37: "Brother Bill's" Pick-me-up. "Get Up, Stand Up, and Walk." 7.40 to 8.15: As on Tuesday. ("The Age" News Service.) 10.30: Current Happenings in Sport, by Mel, Morris. 10.45: Music. 11.0: Pish Market Reports, 11.5: Music. 11.45: Morning Sales, Melbourne Stock Exchange. Mines and Metals, 11.48: Music. 12.10: News Service. 12.30: Close down.

MIDDAY SESSION

1.0: Stock Exchange Information. Meteorological Data. Weather Forecast for Victoria, New South Wales, South Australia, and Tasmania. Ocean Forecast. Rainfall Data. River Reports. 1.15: Musical Interlude.

WOMEN'S SESSION

0: Legends of the Rhine. St. Goar—"Lore-le!" and "The High Cross at Godesberg," Miss Beatrice Touzeau. 2.15: Music. 2.20: A.B.C. Women's Association, conducted by Hattle Knight.

THE RADIO MATINEE

THE RADIO MATINEE

3.0: A.B.C. Quintette—Serenata. Sanderson Shepherd's Dance (German); Waters of Minnetonka (Lieuxance). 3.10: J. Clarke Scott, Tenor—In Summertime on Bredon (Peel); The Bloom is on the Rye (Bishop).

3.17: Gordon Ireland, Novelty Pianist—Maggie (Yellen), Yesterday (White). 3.23: A.B.C. Trio—Nina (Pergolesi). 3.29: Ella Riddell, Contralto—The Song of the Emigrant (Motjat), There's Nae Luck Aboot the Hoose (Adam). 3.35: A.B.C. Quintette—Selection of Songs. 3.43: Shirley Cooke—A Cheerful Little Earful. 3.48: J. Clarke Scott, Tenor—On Lido Waters (Tosti), Stars and a Crescent Moon (Coates). 3.54: A.B.C. Quintette—Canto Amoroso (Martini), Might Lak a Rose (Nevin). 4.0: Gordon Ireland, Entertainer at the Piano—The Bright Young Things. 4.6: Ella Riddell, Contralto—Hush-a-ba, Birdie (Bunten), The Bonnie Brier Bush (Traditional). 4.12: Bertha Jorgensen, Violin—Request Numbers. 4.16: Shirley Cooke. 4.20: A.B.C. Quintette—Moonlight Dance (Finck). Dance from Nell Gwynn (German), Colinette (Borsch). 4.30: Close.

THE CHILDREN'S CORNER

5.45: On the Treasury Trail in Africal That sounds like adventure! Mr. Lucius Conolly, who sang you the songs about the jungle beasties, is going to talk about hidden trea-sure in Africa.

EVENING SESSION

6.30: COUNTRYMAN'S SESSION.
7.2: ALL SPORTING RESULTS. ERIC WELCH will speak on To-morrow's Race Meeting at Ensow

7.21: Results of Women's Sports.
7.25: GARDENING NOTES—"Care and Management of the Summer Garden," Mr. A. W.

ment of the Summer Garden," Mr. A. W. JESSEP. 7.35: British Official Wireless News 7.40: News. 7.45: FOR THE MAN ON THE LAND—"Wheat-growing: Size of Head and Grain Weight," Mr. H. C. FORSTER, M.Ag.Sc.

NIGHT SESSION

8.0: A HUMPHREY BISHOP PRODUCTION. (See 2FC Programme.)

10.30: WEATHER. 10.33: "MEDITATION" MUSIC.

MELBOURNE. 492 Metres

MORNING SESSION

8.15: Thirty Minutes' Melody. 8.45: Weather. 8.50: Music. 9.1: News. 9.5: Music. 9.17: Weather. 9.18: Music. 9.21: Radio Serial— "Cleansing Fires" (Arthur Russell), read by "Scribe." 9.36: Music. 10.1: British Official Wireless News. 10.16: Music. 10.45: Daily Broadcast Service. 11.0: Close.

MID-DAY SESSION

12.1: Music. 12.15: Through the Glamorous East with Pressy Preston. 12.30: Music. 1.15: At Home and Abroad, by "The Watchman."

AFTERNOON SESSION

2.1: Lener String Quartette (Lener, Smilovits, Roth, and Hartman)-Quartette in B Flat Major, Op. 130 (Beethoven).

EDUCATIONAL SESSION

3.0: Bradford, Home of the Textile Industry, Miss Jessie Batchelor. 3.15: Music. 3.45: And now we Visit the National Gallery, with Stephanie Taylor 4.0: Music. 5.1: Music. 5.30: Weather and Shipping. 5.45: Close.

EVENING SESSION

6.15: DINNER MUSIC.

7.30: Music. NIGHT SESSION

8.1: BITS OF OLD MELBOURNE—"Celebrations," Mrs. L. GRIFFITHS.
8.20: COMMUNITY SINGING from the CENTRAL HALL. GEELONG, under the direction of Mr. GALLAGHER.
10.15: News.
10.30: Closc.

BRISBANE, 395 Metres

EARLY MORNING SESSION
(Relayed to 4RK.)
7.30: Music. 7.34: News. 8.0: Music. 8.30:

MORNING AND MIDDAY SESSION

(Relayed to 4RK except from 11,23 to 11.30.)
11.0: The Daily Broadcast Service. 11.10:
Music. 11.23: Social Notes. 11.30: Radio
Harmony. 11.40: A talk—"A Family Affair,"
by D. L. Waraker. 11.55: What's on to-day.
12.0: The City Hall Chimes. 12.1: Radio
Rhythm. 12.30: Music. 1.0: News. 1.20;
Luncheon Music. 2.0: Close.

AFTERNOON SESSION

(Relayed to 4RK.)
THE RADIO MATINEE.
3.0: A PROGRAMMME by OLD MASTERS, 4.30:
Close.
EARLY EVENING SESSION

EARLY EVENING SESSION
(Relayed to 4RK, except from 6.20 to 6.30.)
6.0: For the Children—"A Musical Fairy Story,"
by "Bunty."
6.20: Shipping, etc.
6.30: Early Dinner Music.
6.45: Late Market Reports, etc.
7.0: Dinner Music.
7.23: News.
7.30: General Sporting.
7.45: A review of to-morrow's races.

NIGHT SESSION

NIGHT SESSION

NIGHT SESSION

(Relayed to 4RK.)

8.0: THE BRISBANE MUNICIPAL CONCERT
BAND, conducted by Bandmaster E. Jackson,
will feature Famous Waltzes and their Composers, including Der Romantiker, Lanner;
Ten dres Baisers, Waldteufel; Die Hydropaten, Gung'l, Tanzjublianten, Fahrbach; Donau
Wellen, Ivanovici; Ensueno Seductor, Rosas;
Love's Dreamland, Roeder; Joliy Fellows, Vollstedt; The Maid of the Mill, Liddell; Destiny
Waltz, The Blue Danube; with special annotations by the Conductor.

9.0: Metropolitan Weather Forecast and
R.A.C.Q. Week-end Road Bulletin.

9.5: THE BRISBANE MUNICIPAL CONCERT
BAND—

BAND—
Suite—Ballet Egyptien ... Luigini
PJATRICIA M'ONIGLY Soprano—
Sing, Joyous Bird ... Phillips
I Know a Lovely Garden ... d'Hardelot
Come to the Fair ... Taylor
NELL FERGUSON—
Gems from The Boree Log ... O'Brien
THE MUNICIPAL BAND—

Popular Numbers-

Sleepy Valley Hanley When the Lilac Blooms Again .. Doelle

J. P. CORNWELL, Baritone-

The Bedouin Love Song Pinsuti Little Northern Window Gossiping STEPHEN BAKER-Comedy Items.

THE BRISBANE MUNICIPAL CONCERT BAND -

Danse Orientale Lubonirsky
Cortege du Sardar Ippolitow-Iwanow 10.15: News.

10.20: BERT TUCKER AND HIS CARLTON BOYS-Dance Music.

11.0: Close.

ADELAIDE. 411 Metres

EARLY MORNING SESSION 7.30: News; Special Weather Forecast. 7.40: Music. 8.1: News and Notes of Many Topics. 8.10: Music. 8.30: Close.

MORNING AND MIDDAY SESSION

11.0: Daily Broadcast Service. 11.10: Music. 11.28: Sporting Fixtures. 11.30: Homecrafts, by "Economist." 12.1: Music. 12.15: Official Stock Exchange Information. 12.19: News. 12.30: Music. 12.50: Weather, Grain, and River Reports. 1.0: Music. 1.5: News. 1.15: Music. 2.0: Close. 3.1: Matinee Programme. 4.0: Feature Session by Victoria Reynolds. 4.15: Music. 4.30: Close.

Close.

EVENING SESSION

5.50: Children's Session. 6.22: Dinner Music. 6.50: Official Stock Exchange Information. 7.0: News. 7.5: "Silvius" gives a special late review of to-morrow's races at Morphettville and Epsom. 7.20: Music. 7.25: What of the Roads? Tourists' Special Service arranged by the Royal Automobile Association. 7.35: Music. 7.45: "In Town and Out.," Weekly Half-hour with "Rufus."

NIGHT SESSION

15: FRIDAY NIGHT RADIO PARADE—

1. MARCHING ALONG!

2. POPULAR OPERATIC ARIAS—MARCELLE BERARDI.

2. POPULAR OPERATIC ARIAS—MARCELLE BERARDI.
3. XYLOPHONICS—AUDREY DREW.
4. WHAT A TALE!
5. COCKNEY SPANGLES—ELSIE ROSLYN, GEORGE HORTON, and DAVE HOWARD.
6. HOMELY BALLADS—MARCELLE BERARDI.
7. JAZZ JINGLES.
8. BALLADS OF THE SEA—GORDON HELE.
9. IVORY SPARKLETS—WIKI KELLY.
10. BETWEEN YOU AND I AND THE RADIO.
11. SONGS OF LONG AGO—ELSIE WOOLLEY.
12. A SAXOPHONE TALKIE—DAVE HOWARD, GEORGE HORTON, and ELSIE ROSLYN.
13. BALLADS OF THE WAR—GORDON HELE.
14. HARMONIES—WIKI KELLY.
15. REALLY IT IS A SURPRISE!
16. MEZZO-SOPRANO SELECTIONS—ELSIE WOOLLEY.
17. POT POURRI.
10.15: NEWS.
10.30: MEDITATION MELODIES.
11.0: Close.

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DUAL SPEAKERS

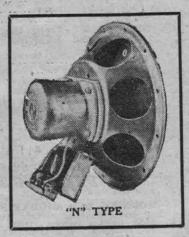
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A leading musical critic says:-"The Attack is Perfect, The Separation marvellous, and The Bass Extraordinary."

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The Amplion "N" Dynamic Speaker is the only speaker specially designed to meet the needs of the new six pin valves.

The reproduction of your receiver can be increased up to 20 per cent. by using the Amplion "N" Dynamic. Try it for yourself.

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SINCE 1885

Amplion is first to release a permanent-magnet dynamic speaker (Type LI) which has been universally accepted by manufacturers.

This Speaker has at long last made possible "dynamic reproduction" from battery-operated receivers.

Note the magnet specifications: Make-Darwin (England). The world's finest cast steel magnet.

Flux-7500 lines per square centimetre.

Weight-6lbs.

Cobalt Content-9 per cent.

Number of claws—Four.
WARNING—Cheap "low flux-density" Magnets are the cause of considerable loss of signal strength. The best is the cheapest. Compare the above specifications with other makes, when it will readily

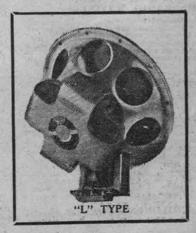
be seen that the Amplion absolutely defies comparison.

Note carefully, dust cap specially fitted to keep core free of metal

screenings.

AMPLION "L1" TYPE £6/17/6

Also available fitted in cabinet £8/17/6 Demand these great Australian Amplions in your Receiver.



Advertisement of Speakers (A/sia) Ltd., 70 Clarence Street, Sydney

SATURDAY JANUARY

PROGRAMME FROM 2FC, 3LO, 2CO, 5CL AND 5CK-8.0 8.0—NATIONAL

8.0 A NATIONAL PROGRAMME (Transmission from 3LO Melbourne)

> A REVIEW SULPHITES ALL A NON-BROMIDE REVIEW

> > TAKE

OF SONGS: Several

SKETCHES: Some

THRILLS: Quant. Suff.

MUSIC: Much

ARTISTRY: All the Time

CAREFULLY COMPOUNDED WITH

COMEDY

THE MAGIC MIXTURE

THE WHOLE MIXTURE

To be Taken on Saturday, January 7th, 1933, at 8 O'clock

Futher Doses will be provided if necessary.

F. D. CLEWLOW

CECIL FRASER (Fizzy-icians)

10.30: FROM THE STUDIO (SYD-

Late Official Weather Forecast.

10.32: MEDITATION MUSIC (r.)

11.30: CLOSE.

ALTERNATIVE PROGRAMME OVERLEAF-DAY SCHEDULES BEGIN BELOW

SYDNEY. 451 Metres

EARLY SESSION

(Relayed to 2NC Newcastle from 7.0 to 8.5 a.m.)
7.0: "Big Ben." Early Rising Music (R.).
Meteorological information for the man on
the land.
7.10: This morning's news from the "Sydney
Morning Herald."
7.15: Cables (copyright) from the Australin
Press Association and Sun-Herald News Service.
7.18: Studio Music (R.).
7.30: A short delly commentary for the man
outback.
7.40: Radio Rhythm (R.).
7.45: Mails and Shipping.
7.48: What is on To-day?
7.50: Music from the Studio (R.).
8.15: CLOSE. (Completion of Relay to 2NC
Newcastle at 8.5 a.m.). (Relayed to 2NC Newcastle from 7.0 to 8.5 a.m.)

MORNING SESSION

10.30: Announcements. 10.32: Musical Items (R.). 11.50: British Official Wireless News. 12.0: "Big Ben." Stock Exchange and Metal

Quotations.

12.5: Studio Music (R.).

12.20: Metropolitan forecast and weather syn-

opsis. 12.30: CLOSE,

AFTERNOON ENTERTAINMENT

(Relayed to 2NC Newcastle). OTE.—Scores in the International Cricket Match, ENGLAND v. COUNTRY, played at Bendigo, will be given at Lunch, Tea, and Stumps Drawn, and at the fall of each

wicket.

12.50: FROM CANTERBURY:
Description of the following races:

THE MAIDEN WELTER HANDICAP.
THE FLYING HANDICAP.
THE PARK STAKES.
THE NURSERY HANDICAP.
THE CANTERBURY HANDICAP.
THE WELTER HANDICAP.
At approx 1.57: Sectional Weather Forecast.
At approx 2.0: A Glance at the Afternoon "Sun."

During intervals between races, Music from the Studio.
4.35: Late Sporting Results.
4.45: CLOSE.

EARLY EVENING SESSION

(Relayed to 2NC. Newcastle, from 5.45 to 6.45, and from 7.5 to 8 p.m.)

5.45; THE CHILDREN'S HOUR—
Conducted by "BOBBY BLUEGUM."
A STRAY SUNBEAM—
"It is not just as take it,
This mystical world of ours,
Life's field will yield, as we make it,
A harvest of thorns or flower..."

- 5.47: "THE KUTIE KIDS' KOLLEGE," conducted by MR. KAN KAINEM.
- 6.15: Birthday Greetings.

6.35: Serial Hour.

6.45: Sleep Tight.
(Completion of Relay to 2NC, Newcastle.)
THE A.B.C. POULTRY AND PIGEON SESSION, conducted by MR. CONRAD CHARL-TON.

(Relayed to 2NC, Newcastle.)
7.5: The A.B.C. Sporting Service.

7.40: Weather Report, Stock Exchange.

News Service from the "Sun." Additional News from the A.B.C. Service. Cables (Copyright) from the Australian Press Association and Sun-Herald News Service. Wireless News from the British Official Service.

7.51: Further Sporting News from the A.B.C. Service.
Musical Items (r.).

7.58: To-night's Programme.

(Completion of Relay to 2NC, Newcastle.)

EVENING PROGRAMME

(See above)

SYDNEY. 351 Metres

OPENING SESSION

8.15: A Musical Interlude (R.).

8.40: Meteorological data for the country.

8.45: Mails and Shipping Information.

8.50: Memory Melodies (R.).

9.0: Studio Music (R.).

9.30: Melodies Grave and Gay (R.). 9.40: British Official Wireless Press.

9.45: Moments Musical (R.).
10.5: News from the "Sydney Morning Herald."
10.8: Cables (Copyright) from the Australian
Press Association and "Sun"-"Herald" News
Service.

Service.
10.10: Studio Music (R.).
10.15: A RACING TALK BY THE A.B.C. RACING OBSERVER—M. A. FERRY.
10.30: Musical Items (R.).
10.40: Mr. GEORGE COOPER WILL SPEAK ON "GARDENING."
11.0: CLOSE.

MIDDAY SESSION

MIDDAY SESSION

Note: Scores in the International Cricket Match, England v. Country, played at Bendigo, will be given at lunch, tea, stumps drawn, and the fall of each wicket.

12.0: Announcements. Metropolitan Forecast and Weather Synopsis.

12.2: Studio Music (B.).

12.30: LUNCH HOUR MUSIC. Note: Relayed to 2NC, Newcastle, from 12.30 to 12.50 p.m.

1.0: Afternoon News from the "Sun." Cables (Copyright) from the Australian Press Association and "Sun"-"Herald" News Service.

1.8; Sectional Weather Forecast.
1.11: Radio Rhythm (R.).
1.35; Studio Music (R.).
2.0: What's on the air this afternoon?
2.2: Moments Merry and Musical (R.).

AFTERNOON ENTERTAINMENT

2.30: A MATINEE featuring WORLD FAMOUS CELEBRITIES and GREAT ORCHESTRAS OF THE WORLD.

3.30: MUSIC IN LIGHTER VEIN.—Song, Story and Humor.

5.0: COMPLETE RACING AND SPORTING RESUME.

5.5: Studio Music (R.). 5.40: Weather Information, 5.45: CLOSE.

THE DINNER HOUR

6.15: DINNER MUSIC. 7.45: Musical Items (R.).

7.58: What's on the air to-night?

EVENING PROGRAMME

(See overleaf)

SYDNEY. 451 Metres

Day Sessions as usual.

EARLY EVENING SESSION

5.15: CHILDREN'S SESSION, conducted by "THE HELLO MAN."

..... D'Hardelot 6.55: ANNOUNCEMENT.

6.58: RAYMOND NEWELL, Baritone— The Organ Blower . . . McGill and Burke

ALBERT SANDLER and HIS ORCHES-

7.24: ALBERT SANDLER and
TRA—
New Moon—Softly as in Morning Sunrise.
7.27: BLACT DIAMONDS BAND—
On With the Show.

SATURDAY, January 7 (Con.)

8.0-ALTERNATIVE PROGRAMME, 2BL and 2NC-8.0

8.0 OUR OLD TIME DANCE NIGHT A.B.C. OLD TIME DANCE ORCHES-TRA Waltz

ALFRED WILMORE (Tenor) Castillian Lament Del Riego

ORCHESTRA Schottische

DORIS ROBINSON (Soprano)

ORCHESTRA Mázurka

DORA LINDSAY (Scotch Comedienne)

Medley of Harry Lauder Songs, Lauder

ORCHESTRA Lancers

and NELL EDWARDS GEORGE STIRLING In Old Reminiscences

Late Official Weather Forecast

ORCHESTRA Valeta

SONGS OF OLDEN TIMES (By the Company)

ORCHESTRA Washington Post

ALFRED WILMORE .. Tosti Parted

ORCHESTRA Jolly Miller Waltz

DORIS ROBINSON Leetle Mister Baggy Breeches (By Request) Darewski

Quadrilles

DORA LINDSAY In Some Scotch Songs ORCHESTRA Waltz Cotillion

GEORGE EDWARDS in a Comedy Number She's Proud and She's Beautiful

ORCHESTRA Latchford Schottische

DORIS ROBINSON and ALFRED WILMORE, Vocal Duet A Night in Venice Lucantoni

10.30 Late News from the "Sun"

10.33 ORCHESTRA Boston Two-step

DORIS ROBINSON Every Little While

ORCHESTRA Barn Dance

ALFRED WILMORE There is a Flower That Bloometh, Wallace

ORCHESTRA

GEORGE EDWARDS and NELL STIRLING in a Vocal Duet Fancy You Fancying Me

ORCHESTRA Schottische

OLD TIME CHORUSES BY THE COMPANY

ORCHESTRA Bon Ton Dolly Gray (Quartet), (r.)

ORCHESTRA

STEPHEN COLLINS Song Medley (r.)

ORCHESTRA Jolly Miller Waltz

11.58 AULD LANG SYNE 12.0 CLOSE

7.33: MARGUERI A Request		
7.36: JACK HYL	TON and His	
7.39: ANNOUNCE	MENT.	

7.40: THE BIG FOUR—
Waiting by the Silvery Rio Grande.

Moll and Mencher

7.59: ANNOUNCEMENT.

EVENING SESSION

8.0: WE PRESENT THE MUSICAL FEATURE
OF THE WEEK.
Symphony in B Minor (The Unfinished).

Played by THE ROYAL OPERA OROHES-TRA, COVENT GARDENS.

8.24: ELIZABETH SCHUMANN, Soprano— Cradle Song Strauss Friendly Vision.

8.58: JASCHA HEIFITZ, Violinist-

9.4: ANGELO MINGHETTI— Che Gelida Manina (La Boheme), Puccial 9.8: ORCHESTRE SYMPHONIQUE— Orphee Ballet.

9.16: THIRD NEWS AND COMMENTARY. 10.0: Musical Items.

10.30: CLOSE.

SYDNEY, 316 Metres

0: Breakfast Session, conducted by Mr. Len Maurice. Music. 7.8: Talk of the Town. Call-up for Employment. 7.15: Music. 9.0: Talk to Boys by Uncle Frank. 9.15: Morn-ing Musical Programme. 11.30: Close down. 12.15: Atternoon Musical Programme. 4.40: Entertainment Club Numbers. 4.45: Uncle George's Tiny Tots' Session.

EVENING SESSION

5.0: Birthday Calls and Songs by Uncle George and Bimbo. 6.45: Music. 7.0: Motor Session, conducted by Mr. Fred

6.45: Missic.
Berry.
7.15: Music.
E.6: The Regent Theatre Orchestra. Overture.
8.10: Musical Programme.
8.10: Musical Programme.
11.0: Dance Music from Smith's Oriental Cafe by Jimmy Davidson and his band.
11.26: 2GB Good-night Song.
11.30: Close down.

SYDNEY,

267 Metres

Day Sessions as usual.

Day Sessions as usual.

1.15: CHILDREN'S SESSION, conducted by THE PROFESSOR.

3.8: MIDSHIPMAN BOB BREEZY.

3.0: DINNER MUSIC.

3.0: A CAMEO CONCERT—
Orch.—Marche
Vocal—The Night Has a Thousand Eyes.

Violin—Schon Rosmarin ... Kreisler
Organ—Songs My Mother Taught Me.
Dvorak
Vocal—I Know a Lovely Garden d'Hardelot

Amelita Galli Curci—Kiss Me Again, Herbert

Fritz Kreisler—Deep in My Heart, Dear, Rowley John McCormack—Just a Cottage Small. John McCormack—Just a Cottage Shall.

Hanley

Victor Olof Salon Orch.—New Moon Selections

Romberg

Tito Schipa-When You're in Love, Donaldson

Philadelphia Symphony Orchestra—Stars and Stripes. Debussy

9.5: "Piebald Philosophy," by Jack Win. 9.15: Selected Musical Programme. 10.38: To-morrow's Programme. 10.30: Close down.

SYDNEY, 293 Metres

Day Sessions as usual. 12.30: Description of the Races by Mr. L. G.

EVENING SESSION

5.0: Children's Session—Auntie May and Uncle Simon. 5.40: Uncle Lionel and Ambrose. 6.30: Dinner Music. 7.0: Late Sporting Results. 7.30: Oricket Talk. 8.0: Description of the Greyhound Races from Harold Park by Mr. L. G. Melville. 8.10: Studio Programme. 10.0: Light Opera Selection, The Quaker Girl. 10.10: Music. 11.0: Close down.

SYDNEY. 280 Metres

AFTERNOON SESSION

12.20: Racing Session, Rufe Naylor

EVENING SESSION

6.0: Children's Birthday Session. 6.30: Dinner Entertainment. 7.15: After-dinner Music. 7.30: Racing Revelations—Mr. R. Naylor. 7.45: Music. 8.1: Studio programme, 10.30: 7.30: Racing Revelation 7.45: Music. 8.1: Stud Closing Announcements.

SYDNEY, 236 Metres

Day Sessions as usual.

5.30: Children's Session—Uncle Tom. 6.30: Dinner Session. 7.15: After Dinner Entertainment. 7.45: Gricket Talk—Stan McGabe. 8.0: From the Croydon Danse Palais—Dance Music—Theo Walters. 11.0: Close.

MELBOURNE, 375 Metres

EARLY MORNING SESSION

7.1: Shipping. 7.2: Physical Exercises to Music. 7.10: Morning Music. 7.37: "Brother Bill's" Pick-me-up—"Seven for Sixpence." 7.40 to 8.15 a.m.: As on Tuesday.

MORNING SESSION

10.30: Current Happenings in Sport, by Eric Welch. 10.45: Music. 11.0: Express Train Information. 11.3: Music. 11.45: Melbourne Stock Exchange. 11.48: Music. 12.10: News. 12.30: Close.

MIDDAY SESSION

1.0: Stock Exchange Information 1.15: Music.

AFTERNOON SESSION

2.0: During the afternoon Eric Welch will describe the Epsom Turf Club's Races:—Two-year-old Handicap, 5 furlongs less 20 yards; Novice Handicap, 6 furlongs; Epsom Plate, 6 furlongs; Epsom Purse, 1½ mile; Epsom Handicap, 1¼ miles; Welter Mile. Sporting results, including progress scores in the Gricket Match. England versus Country Team, played at Bendigo, will be brodeast as they come to hand, and repeated every half-hour, 5.0: Close.

CHILDREN'S CORNER

45: Here is a story about a Queen who couldn't bake gingerbread nuts, and a King who couldn't play the Jew's Harp. Miss Alva Hattenbach is going to tell the story. And then Mr. Ernest Kopke has promised a little concert of songs to the accompaniment of the Spanish guitar.

EVENING SESSION

6.30: COUNTRYMAN'S SESSION.
7.2: ALL SPORTING RESULTS.
7.31: Results of Women's Sports.
7.35: British Official Wireless News.
7.40: News.
7.45: ESPERANTO—Mr. R. R. RAWSON.

NIGHT SESSION

NON-BROMIDE REVIEW. (See 2FC Programme.)
10.30: WEATHER, Etc.
10.35: DANCE MUSIC by WIRELESS DANCE
ORCHESTRA.

MELBOURNE. 492 Metres

MORNING SESSION

15: Thirty Minutes' Melody. 8.45: Weather. 8.50: Music. 9.1: News. 9.5; Music. 9.17: Weather. 9.18: Music. 10.1: British Official Wireless News. 10.15: Music. 10.45: Daily Broadcast Service. 11.0; Close.

MIDDAY SESSION

12.1: Music. 1.15: At Home and Abroad, by "The Watchman." 1.30: Music.

AFTERNOON SESSION

1: At the Edge o' Beyond—"Mermaids on the Menu," B. C. Ryder, F.R.G.S. 2.15: Music.

THE RADIO MATINEE

3.0: International Vaudeville—A Programme of Dance Orchestras. Comedians, and Vocalists who have charmed the world. Note: During the afternoon Progress Scores in the Cricket Match, England versus Country Team, played at Bendigo, will be broadcast as they come to hand. 4.30: TALES OF TERROR TACT-FULLY RETOLD—"Unexpected Endings," J. P. Quaine. 4.45: Music. 5.30: Weather. 5.45: Close.

EVENING SESSION

6.15: DINNER MUSIC. 7.30: Music. 7.45: A WEEKLY FEATURE—Latest Musical

NIGHT SESSION

8.0: AUSTRAL BRASS BAND, Conductor:
HARRY SHUGG—
Overture, Light Cavalry Suppe
March, The Standard of St. George Alford

March, The Standard of St. George Alfora

8.10: JAMES RILEY, Tenor—
My Song is of the Sturdy North . German
Serenata . Toseli

8.17: CONSTANCE PETHER, Flute—
Suite: Allegretto . Godard
Idvile . Godard
Valse . Godard

8.23: NEWSTEAD RUSH Baritone—
The Lute Player . Allitsen
London Town . German

8.30: AUSTRAL BRASS BAND— Kern
Selection, Showboat . Kern

8.40: THE ORION TRIO in a Half-hour of

Selection, Showboat

Selection, Showboat

General BRASS BAND—

Kern

General Brass Band—

Region Compound Control of the Control of the Control of Control

3logan-2006 (1990).

: AUSTRAL BRASS BAND—

: AUSTRAL BRASS BAND—

Mackenzie

Mackenzie

Mendelssohn

10.20: News. 10.30: "MEDITATION" MUSIC. 12.0: CLOSE.

BRISBANE. 395 Metres

EARLY MORNING SESSION (Relayed to 4RK.)

MORNING, MIDDAY, AND AFTER-NOON SESSION

NOON SESSION

(Relayed to 4RK, except from 11.53 to 12.0)

11.30: Music. 11.53: Social Notes. 12.1: Music.
1.0: News. The metropolitan race meetings will be described during the afternoon. Between events popular music will be broadcast from the studio. Progress scores in the match between England and a Victorian Country Team will be announced as they come to hand from Bendigo. 5.0: Close.

FARLY EVENING. SESSION

EARLY EVENING SESSION

(Relayed to 4RK, except from 7.45 p.m. to 8.0 p.m.)

6.0: For the Children—"Some Favorite Melodies." 6.20: Inter-State race results. 6.30: Music. 7.0: Mick Flanagan will review today's races. 7.15: General Sporting, including Salling and Tennis, by Stan Phillips. 7.23: News. 7.30: Cricket notes, by J. H. Holdsworth. 7.45: Music.

NIGHT SESSION

(Relayed to 4RK.)
A POPULAR RECORDED PROGRAMME.
8.0: THE MIDNIGHT REVELLERS—
The Open Road ... Arr Somers
JACK McINTOSH, Cornetist—
Carnival of Venice ... Arr. Arban
WILL FYFFE Comedian—
I'm the Landlord of the Inn ... Fyfe
THE THREE KEYS—
Somebody Loses, Somebody Wins Schwartz
Mood Indigo ... Bargard
THE REGAL INSTRUMENTAL TRIO—
Always Happy.

Always Happy. Sailor's Joy.

10.15: News. 10.30: Dance Music by the Carlton Cabaret Or-chestra. chestra. 11.0: MEDITATION MUSIC. 11.30: CLOSE.

ADELAIDE, 411 Metres

EARLY MORNING SESSION

7.30: News. 7.40: Music. 8.1: News. 8.10: Music. 8.30: Close.

CONTINUOUS DAY

11.30: Music. 12.0: "Silvius" selections for to-day's races at Morphettville and Epsom. 12.6: Probable Starters for to-day's races at Epsom. 12.15: Music. 12.26: News. 12.36: Music. 1.0: During the afternoon a running description of the races at Morphettville will be broadcast by Arnold Treloar, interspersed with Cricket Scores, Epsom Race Results, and Musical Numbers from the Studio. 5.30: Close.

EVENING SESSION

 6.0: Children's Session.
 6.20: Children's Hospital Senior Birthday League.
 6.22: Music.
 6.45: Rev. G. S. Hale. B.A.—"Life's Little Problems."
 7.0: News.
 7.5: To-day's Cricket. 7.10: To-day's Tennis, by Ken Berriman. 7.15; All Sporting Results.

NIGHT SESSION

7.30: A NON-BROMIDE REVIEW (see 2FC pro-

7.30: A NON-BROMIDE REVIEW (see 270 pingramme),
10.0: SPORTING RESULTS.
10.10: Music.
10.15: News.
10.20: FROM 3LO, MELBOURNE—DANCE MUSIC by THE WIRELESS DANCE ORCHESTRA.
11.30: Close.

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Sydney & London





TORCHES, REFILLS & RADIO-BATTERIES

JANUARY 8 SUNDAY

8.0-NATIONAL PROGRAMME From 2FC, 2NC, 2CO, 3LO, 4QG, 4RK, 5CL, 5CK-8.0

I A TRAVIA'I

The Opera by Verdi-See Story on Page 6



公

EVELYN HALL,

THE CAST

VIOLETTA VALERY, SIGNORA CESARINA VALOBRA GEORGIO GERMONT,

Signor Franco Izal ALFREDO GERMONT, SIGNOR PEDRO MIRASSOU

DOCTOR GRENVILLE,
Signor Felice Mercadante

MARQUIS
BARON DUPOL ... Rowell BryanGASTON ... Roy Glasheer
FLORA ... Miss Gladys Carlyles
ANNINA ... Miss Evelyn Hall
CONDUCTOR, MASSTRO WANDO
ALDROVANDI. Rowell Bryden
Rowell Bryden
Roy Glasheen



ROWELL BRYDEN, Marquis and Baron, Dupol,

M ..



ALTERNATIVE PROGRAMME OVERLEAF-DAY SCHEDULES BEGIN BELOW

SYDNEY. 451 Metres

THE CHURCH HOUR

10.0: Announcements.
10.5: Studio Music (r.).
10.30: This morning's news from the "Sunday Sun," "Truth," and A.B.C. Service. British Official Wireless News.
10.45: Musical Items (r.).
11.0: FROM ST. ANDREW'S CATHERAL—MORNING SERVICE, conducted by THE DEAN OF SYDNEY.
12.15: FROM THE STUDIO—Studio Music (r.).
12.30: CLOSE.
THE AFTERNOON CONCERT
3.0: A SUNDAY AFTERNOON MUSICALE.
4.30: CLOSE.

EVENING PROGRAMME

EVENING PROGRAMME

(Relayed to 2NC Newcastle from 6.0 to 7.0, and from 8.30 to 10.30 p.m.)

6.0: A CELEBRITY RECITAL

6.20: A RECITAL by FLORENT HOOGSTOEL, Violinist, arranged by THE MUSICAL ASSOCIATION OF NEW SOUTH WALES—
Pastorale Bender Bender

Sonata in D Minor for Piano and Violin

Brahms

Allegro, Adaglo, Un poco Presto e con Sentimento, Presto Agitato.

7.40: "LEAVES OF MEMORY."

And now we are to have the happy privilege of once again visiting our old friend the booklover. Once more he will entertain us with his vivid recollections, culled from pages of the books that line his library shelves. And once again will the characters he speaks of live and speak for our entertainment.

"LEAVES OF MEMORY." is adapted and performed by Ellis Price, assisted by PATRICIA MINCHIN.

8.0: A NATIONAL PROGRAMME.

(See above)

SYDNEY. 351 Metres

MID-DAY SESSION

10.55: Announcements.
11.0: MORNING SERVICE FROM THE METHODIST CHURCH, Chatswood. Preacher,
REV. WALLACE DEAME.
12.15: FROM THE STUDIO—Musical Items (r.).

12.30: News from "The Sunday Sun," "Truth," and A.B.C. Service, British Official Wireless Press.
12.50: A SPECIALLY ARRANGED PROGRAMME OF RECORDED VOCAL AND INSTRUMENTAL MUSIC.
1.45: FROM MY ARM CHAIR.
2.0: Studio Music (r.).
3.0: CLOSE.

LATE AFTERNOON SESSION

4.30: A CELEBRITY RECITAL (r.).
4.45: DR. KEITH BARRY will tell Listeners about the "STORY BEHIND THE HYMN,
'A Prisoner's Romance."
5.0: CELEBRITY RECITAL (r.).

THE CHILDREN'S HOUR 6.0: THE CHILDREN'S SESSION, Conducted by "UNGLE STEVE."

EVENING SESSION

EVENING SESSION

6.50: Musical Items (r.).
7.0: EVENING SERVICE FROM THE PITTSTREET CONGREGATIONAL CHURCH,
Sydney. Preacher, REV. T. E. RUTH.
Prelude: Andante, Mendelssohn; Hymn 743,
"Now the Day is Over" (Gould): Doxology;
Call to Worship; Invocation; Lord's Prayer;
Hymn 490, "Nearer, My God, to Thee'
(Sullivan): Scripture: Solo, "Come, Spirit
of the Living God." Speaks, MISS NANCE
CRUICKSHANK. Hymn 380, "O, Saviour, I
Have Naught to Plead" (Blow); Notices; Offertory; Anthem, "O Gladsome Light" (Sullivan): Offertory Prayer: Hymn 25, "Enduring Soul of all Our Life" (Gauntlett): Sermon, When We Must, REV. T. E. RUTH;
Hymn 439, "Soldiers of the Cross, Obey;
(Costa): Benediction; Postlude. Allegro,
Peace. ORGANIST: MR. GARTH BARRACLOUGH.

ALTERNATIVE NATIONAL PROGRAMME.
(See overleaf.)

SYDNEY. 248 Metres MORNING SESSION

10.30: Celebrity Items. 11.0: Morning Service from Haberfield Presbyterian Church. 12.30: Close.

AFTERNOON SESSION

2.30: Temperance Haif-hour, conducted by Mr. Francis Wilson. 3.0: A Specially Arranged Programme of Recorded Music. 4.0: Brigadier Mary Bentley (Women's Social Secretary, Salvation Army) will give an Address. 4.30: "The Religious Question Box."

EARLY EVENING SESSION 0: Children's Session, conducted by Aunty Margaret. 5.45: Service for the Sick. 5.15:

O: EVENING SESSION

O: EVENING SERVICE FROM STANMORE BAPTIST CH. THE Precher, REV. J. J. TINSLEY.

Subject: "THE MASTERY OF LIFE."
Organist, WILL WHITE, Junr.
8.30: Studio Music.
9.15: THE C.R.E. SESSION FOR YOUTH
WORKERS.
9.45: Studio Music.
9.58: "INSPIRATIONAL MESSAGE."
10.0: CLOSE.

SYDNEY. 316 Metres

3.16 Metres

9.0: Music from Studio. 10.25: Organ Music from St. Alban's Church, Regent Street, Sydney. 10.30: Morning Service from St. Alban's Church, Regent Street, Sydney. Questions and Answers by Rev. Harold Morton. 12.0: Close down. 1.30: Afternoon Musical Programme. 4.0: Symphony Song and Story, conducted by Uncle Frank. 5.0: The Eadlo Sunday School. 5.20: The Cheer-up Community Singing Service for Children.

7.0: Address by Dr. A. L. Lewis. "Hollywood Personalities."

7.30: Address by Miss Clara M. Codd. 8.5: Address by Mr. A. M. Pooley.

9.45: Music.

10.0: Slumber Music.

10.30: Close down.

SYDNEY. 267 Metres

10.30: Orch.—Un Ballo in Maschero Overture, Verdi

SUNDAY, January 8 (Contd.)

8.0-ALTERNATIVE PROGRAMME FROM 2BL-8.0

8.30 FROM BONDI BEACH BAND AUDITORIUM

Featuring the BONDI BEACH MILI-TARY BAND and ALFRED WIL-MORE and LAURENCE MACAU-LAY, Vocal Duets

BONDI BEACH MILITARY BAND Conductor, ALBERT H. BAILE

Overture, Oberon Weber

8.40 ALFRED WILMORE and LAURENCE MACAULAY (Vocal

The Battle Eve Bonheur Arise, O Sun Day

Selection, Carmen Bizet

9.0 FROM THE STUDIO, Late Weather Forecast

9.2 Musical Items (r)

9.10 FROM THE BONDI BEACH BAND AUDITORIUM

Morceau, Invitation to the Valse

Weber

9.18 ALFRED WILMORE (Tenor) Duna McGill

LAURENCE MACAULAY (Basso) Drake Goes West Sanderson

9.25 BAND

Suite. Peer Gynt Grieg

(a) Morning, Pastorale

(b) The Death of Ase

(c) Anitra's Dance

(d) Dance of the Imps

9.35 ALFRED WILMORE and LAU-RENCE MACAULAY

The Moon Hath Raised .. Benedict In the Garden of My Heart Ball

Selection, Mikado Sullivan March. The Great Divide .. Maurice

10.0 CLOSE

8.0: Orch.-Variations on a Theme by Haydn,

1.15: Musical Programme. 0.6: Operatic Session—Story and Music of Verdi

SYDNEY. 293 Metres

MORNING SESSION

Request Session. 10.0: Theatre Session. 30: Celebrity Recordings. 12.0: Close down.

EVENING SESSION

6.0: Bright Musical Programme. 7.0: Lecture.
7.45: Request Session. 8.0: Overture—I
Pagliacci. 8.10: George Edwards, Entertainer. 8.20: Studio Programme. 10.0: Light
Opera Selection—White Horse Inn. 10.10:
Music. 10.45: Tranquillity Music. 11.0: Close
Down.

SYDNEY. 280 Metres

Day Sessions as usual.

EVENING SESSION

30: Social Economics. Question Box. C. E. Martin. 6.0 Request Programme, presented by H. Garden. 7.0: Entertainment, presented by Unicle Russ. 7.45: Dance Programme. 8.30: Peature Programme. 9.30: City Fashions Programme. 10.0: Request Programme. 11.0: Closing Announcements.

SYDNEY. 236 Metres

11.0: High Mass St. Mary's Basilica. 11.15:
Sermon—St. Mary's Basilica. 12.15: St.
Mary's. 1.0: Close.
6.1: Children's Session—Uncle Tom. 6.30:
Father Walsh, S.J.—Lecturette. 6.50: Studio
Music. 7.0: Father Meany—Lecturette. 8.0:
Studio Music. 9.0: Sponsored Hour. 10.0:
An Hour of Dance Music presented by Maria
Dawson. 11.0: Close.

MELBOURNE. 375 Metres

" MORNING SESSION

10.0: Latest Cricket Information. 10.5: Music. 10.20: Items of Interest. 10.22: Music.

10.42: Bells of St. Paul's Cathedral.
10.45: DIVINE SERVICE from ST. PAUL'S CATHEDRAL.
Order of Service: Sentence; Exhortation; General Confession; Absolution; Lord's Prayer; Versicles and Responses; The Venite; Te Deum; Second Lesson; Benedictus; The Apostles' Creed; The Collects; Anthem; Prayer; Hymn. Sermon: THE ARCHBISHOP. Hymn. Organist: DR. A. E. FLOYD.

AFTERNOON SESSION

3.0: PLEASANT SUNDAY AFTERNOON SERVICE from WESLEY CHURCH CENTRAL MISSION.
4.45: Close.
6.0: THE OPTIMISTS' CHORUS SINGERS, led by TREVOR MORRIS and "FREDERIC," in Children's Songs and Choruses.
6.55: Music.

EVENING SESSION

7.0: Inter-State Shipping News.
7.10: CITIES AND THEIR STORIES—"Manila,"
Mr. G S BROWNE, MA.
7.30: Music.
7.35: THE NEWS BEHIND THE NEWS, by
"THE WATCHMAN."

NIGHT SESSION

8.0: AN OPERATIC PROGRAMME. (See 2FC

Programme.)
10.5: News.
10.15: THE EPILOGUE—"When Music Sounds."
10.30: Close.

MELBOURNE. 492 Metres

MORNING SESSION

MORNING SESSION

11.0: Divine Service from Wesley Church, Lonsdale Street, Melbourne—Order of Service: Doxology, Invocation, Hymn, Scripture Reading, Solo, Notices, Anthem, Sermon (Rev. J. N. Cain), Anthem, Hymn, Benediction. Organist: Mr. W. G. James. 12.15: Selection of Leslie Stuart's Songs. The Band of H.M. Coldstream Guards; conductor, Lieutenant R. G. Evans. Les Million d'Arlequin (Drigo), Old Spanish Song (Louis Aubert)—De Groot and the Piccadilly Orchestra. On the Banks of Allan Water (Horn), The Sweetest Flower That Blows (Hawley)—Edna Thornton, Contratto. Thousand and one Nights (Strauss), Legende (Rozycki)—Niedzielski, Piano. Nocturne in C Sharp Minor (Tschaikowsky), Minuet (Haydn)—Renee Chemet, Violin, Londonderry Air (Arr. Bridge), Emperor Quartette—Theme and Variation (Haydn)—Virtuoso String Quartette. 1.0: British Official Wireless News. 1,5: Poet and Peasant Overture—H.M. Coldstream Guards Band; conductor, Lieutenant R. G. Evans. Sarabande-Tam-

bourin (Leclair-Sarasate), Concerto in G Major—Adagio (Mozart)—Yehudi Menuhin, Violin. Bohemian Dance (Smetana), Caprice Espagnole.Op 37 (Moszkowski)—Wilhelm Back-haus, Piano. I Love You (Grieg), Romance (Rubinstein)—De Groot and His Orchestra. I Heard You Singing (Coates), Early in the Morning (Phillips)—Sylvia Cecil, Soprano. Air de Ballet (Chaminade), Phantom Mel-ody (Ketelbey)—Sydney Gustard on the Or-gan of Trocadero Cinema, Liverpool. Dance of the Gnomes (Lisat), Love's Message (Schu-bert-Liszt)—Professor Egon Petri. Blonde or Brunette (Waldteufel), Tales of Autumn (Waldteufel)—Marek Weber and His Orches-tra. The Isle of Mull (Arr. Robertson), Deep River (Mansfield)—Glasgow Orpheus Society; Conductor, Hugh. S. Robertson.

AFTERNOON SESSION

A Christmas Episode in France, 1918, told by Professor J. Alexander. 2.15: Music, 2.30: Arnold Colman in a Short Recital at the Or-gan. 3.0: Close,

Arnold Colman in a Short Recital at the Organ. 30: Close.

4.30: Overture—The Flying Dutchman (Wagner)—Berlin State Opera Orchestra; conductor, Dr. Leo Blech. Casta Diva (Queen of Song), from "Norma" (Bellini)—Rosa Ponselle, Soprano. Piano Concerto in A Minor (Schumann), Allegro affettuoso, Intermezzo-Andante grazioso, Allegro vivace—Alfred Cortot, with the London Symphony Orchestra; conductor, Sir Landon Ronald. Komarinskaya (Glinka)—London Symphony Orchestra; conductor, Albert Coates, 5.30: Everybody's Problems—A Job for the Boy—Charles Nuttall. 5.45: A Short Programme of the Works of Sir Edward Elgar—Introduction and Allegro for String, Op. 47—John Barbirolli's Chamber Orchestra. Two Aria from "Caractacus"—(a) The Sword Song, (b) Oh, My Warriors—Peter Dawson, Bass-Baritone. Salut Amour—Isolde Menges, Violin. Chanson de Nuit, Chanson de Matin—London Symphony Orchestra; conductor, Sir Edward Elgar. I Sing the Birth—Royal Choral Society. 6.15: The Week's Good Cause. 6.24: Request numbers. 647: Music. 6.57: Church Bells.

EVENING SESSION

7.0: Divine Service from Independent Church, Melbourne—Order of Service: Doxology, Prayer and Lord's Prayer, Scripture, Hynno, Prayer, Anthem, Notices, Collection, Hynno, Sermon (Rev. A. Penby Evans. Hymn. Benediction. Organist, Frederick J. Nott, Mus. Bar.

NIGHT SESSION

BRASS BAND— Grand Selection: La Reine de Saba Gounod "BY THE FIRESIDE."

10.0 CLOSE.

BRISBANE, 395 Metres

MORNING SESSION

Relayed to 4RK.

Relayed to 4RK.

10.30: City Hall Chimes and Music. 10.40: Weather data from the Commonwealth Weather Bureau Cable News (copyright).

Australian Press Association and "Sun"-"Herald" News Service, Ltd. "Sunday Mail" News. 10.55: Organ Reproduction. 11.0: Divine Service will be broadcast from St. Barnabas' Church of England, Ithaca. Prescher, Canon D. J. Garland (Kural Dean of Brisbane). 12.15: Close.

AFTERNOON SESSION

Relayed to 4RK.

0: A Programme by The Celeste Quartette.
Among the Roses (Lake), Stabat Mater (Rossini). Two Guitars (Horlick). Valse Poudree (Popy). The Broken Melody (Van Biene). Musical Scenes from Switzerland (Langley). Gipsy Idyll (Piercy). Ah, Sweet Mystery of Life (Herbert). 4.30: Close.

EARLY EVENING SESSION

Relayed to 4RK.

6.0: A Special Session for Children, arranged
by the Council of Churches. 6.30: A Radio
Feature—"The Seven Seas—Humor Afloat,"
Part 1. 7.0: Selected Recordings.

NIGHT SESSION

Relayed to 4RK
7.30: THE EVENING SERVICE will be broadcast from THE ALBERT STREET METHODIST OHURCH, BRISBANE.
8.30: An Operatic Programme (see 2FC pro-

gramme). 10.30 Approx.: CLOSE.

ADELAIDE, 411 Metres

MORNING SESSION

10.30: Message of Cheer. 10.31: Sabbath Chimes and Music. 11.0: Morning Service from Maughan Methodist Church. Preacher: Rev. S. Forsyth. 12.25: Items of Interest. 12.30: Close down. EVENING SESSION

EVENING SESSION

5.50: Birthday Greetings. 6.0: Service of Song, under the direction of Mrs. Lindsay Sowton. 6.30: Music. 6.50: From National Station, SCK (6.50 to 8.20 p.m.)—Service from Scots Church, North Terrage. Preacher: Rev. N. L. D. Webster.

NIGHT SESSION

8.0: "LA TRAVIATA" (see 2FC).

9.55: News Session.

10.0: Close down.

Trends in Radio for 1933

(Continued From Page 17)

though these new valves are not yet released we have been favored with samples of them, and we might whisper that the outstanding job in the series is a special diode detector, like the 55, but fitted with a pentode amplifier in the audio section instead of the low-gain triode as in the 55. Naturally the actual gain in the detector is phenomenal. Of course, both of these receivers have already been built, and are at present undergoing tests, but we cannot give any definite guarantee as to exactly when they will appear.

THE SEASON'S PROSPECTS.

It is generally agreed that during 1933 radio is going to boom as never it boomed before. 1932 has been a remark-able year for both radio progress and radio sales, but with the returning general prosperity we anticipate a truly record year for all radio activities in 1933. As before we are going to spare no effort to see that the Australian public is supplied with receivers of the very highest quality. So we close this session with the usual wish that all readers and radio enthusiasts shall have a Happy New Year.

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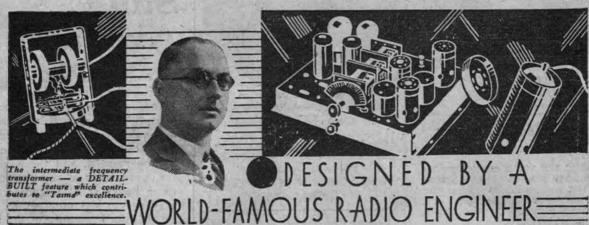
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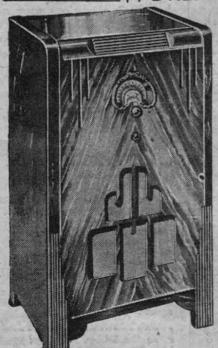
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MANUFACTURED BY THOM & SMITH, DOWLING ST., SYDNEY

JANUARY 9 MONDAY

8.0-NATIONAL PROGRAMME From 3LO, 2CO, 2FC, 2NC, 4QG, 4RK, 5CL 5CK-8.0

8.0 DOMINGO CAFFARO'S AR-GENTINO BAND March, Grand Parade Sartoris Tango, Asy es el Mundo Canaro NEAPOLITAN DUO In Tenor and Baritone Duets, with String Accompaniment Santa Lucia Old Italian La Spagnola Di Chiara ARGENTINO BAND Encantadora—Bolero Gianni Tango, A Media Luz Donato KEN. MOUNTAIN A Mountain of Mirth NEAPOLITAN DUO With String Accompaniment Solo, Lolita Buzzi-Peccia Duo, Torna Sorriento De Curtis ARGENTINO BAND Intermezzo, Caucion Mora Del Barrio Zapateado Brasilero Del Barrio KEN. MOUNTAIN A Mountain of Mirth ARGENTINO BAND Primevera La Veronica-Paso Doble .. Caffaro 8.50 INTERLUDE 9.0 LORD RICHARD IN THE PANTRY A Farce in 3 Acts By SYDNEY BLOW and DOUGLAS



DOMINGO CAFFARO

and his ARGENTINO BAND

NEAPOLITAN AND SPANISH MELODIES

LORD RICHARD SANDRIDGE ARTHUR THOMPSON (His Secre-

CAPTAIN "TUBBY" BANNISTER CARTER (Lord Richard's Manservant) DETECTIVE-INSPECTOR BROWN

(from Scotland Yard) EVELYN LOVEJOY LADY VIOLET ELLIOT COOK

ROSE BRYAN GLADYS

Servants of Mrs. Gayford SYLVIA GAYFORD (A Widow)

WHERE IT HAPPENS

ACT ONE

Scene 1.-The Hall of Lord Richard's House, Lowndes Square, Saturday afternoon Scene 2.—The Same. Following Monday afternoon

ACT TWO

The Kitchen of the same House. Next

ACT THREE

Same as Act 1. An Hour Later PRODUCTION, FRANK D. CLEWLOW

10.30 FROM THE STUDIO (Relayed to 2NC Newcastle) Late Official Weather Forecast

10.32 LATEST DANCE MUSIC (r.)

11.0 COMPLETION OF RELAY TO 2NC NEWCASTLE

11.30 CLOSE

ALTERNATIVE PROGRAMME OVERLEAF—DAY SCHEDULES BEGIN BELOW

SYDNEY. 451 Metres

EARLY SESSION

HOARE

(Relayed to 2NC, Newcastle.)

(Relayed to 2NC, Newcastle.)

7.0: Big Ben. Early Rising Music (r.).
Meteorological information for the man on the land.

7.10: This morning's news from the "Daily Telegraph."

7.15: Cables (copyright, from the Sun-Herald and Australian Press Association News Service.

7.18: Studio Music (r.).

7.30: A short daily commentary for the man outback

7.40: Studio Music (r.).

7.45: Mails and Shipping.

7.48: What is on to day?

7.50: Music from the Studio (r.).

8.15: CLOSE (Completion of Relay to 2NC, Newcastle).

Newcastle).

MORNING SESSION

Relayed to 2NC, Newcastle, from 10.40 a.m.)

Nocturne from "Midsummer Night's Dream") ... Mendelssohn March in G ... Luard Selby 11.15: Musical Items (r.). 12.0: Big Ben. Stock Exchange and Metal Quotations. 12.5: Studio Music (r.). 12.15: Metropolitan forecast and weather synopsis. Special Produce Market Session for the man on the land, supplied by the State Marketing Board.

12.30: Close (Completion of Relay to 2NO, Newcastle).

THE LUNCH HOUR

TE: Scores in the International Cricket Match, ENGLAND v. COUNTRY, played at Bendigo, will be given at Luncheon, Tea, and Stumps Drawn, and at the fall of each wicket.

each wicket.

1.0: LUNCH HOUR MUSIC.

1.57: Sectional Weather Forecast.

2.0: Programme Announcements.

2.2: Stock Exchange, second call.

2.4: A Glance at the afternoon "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

2.10: Musical Items (r.).

THE RADIO MATINEE

(Relayed to 2NC, Newcastle, from 3.45 to 4.30 p.m.)
2.30: HORACE KEATS' INSTRUMENTAL TRIO: 2.30: HORACE KEATS BESTATE Blocks
Serenade My Lady Chlo Clough-Leighter
Gavotte ... Leclair
2.40: OLGA LE GRAY (Mezzo): Leclair
Gipsy Moon ... Eyton and Borganof
After To-night we Say Goodbye ... Towers and Leon

2.47: HARP SOLOS (r.). 2.53: TENOR SOLOS BY RICHARD CROOKS

(r.).
HORACE KEATS' INSTRUMENTAL TRIO:

EARLY EVENING SESSION (Relayed to 2NC, Newcastle, from 5.45 to 6.45 and from 7.5 to 8 p.m.)
5.45: THE CHILDREN'S HOUR, conducted by "BOPBY ELUEGUM."

A STRAY SUNBEAM:
"I want to live so I can say,
I helped someone along the way;
I want to be a friend to all,
And ready at another's call."

5.47: "All about Frogs and Golliwogs," a story of the little fish-like creatures that put on four legs, absorb their tails, exchange their gills for lungs, and learn to live on land as well as in the water.

6.0: AUNT EILY tells about fairies on holidays.

6.15: Many Happies.

MONDAY, January 9 (Contd.)

8.0—ALTERNATIVE PROGRAMME FROM 2BL—8.0

EXTENSION 8.0 UNIVERSITY BOARD SERIES OF LECTURES MISS JANET MITCHELL will tell listeners about MANCHURIA, THE VOLCANO OF ASIA-No. 2, The Conflict of Interests; China, Japan,

ROCKDALE TOWN FROM HALL

COMMUNITY SINGING, conducted by FRANK HATHERLEY, assisted by JOHN

NOTE: At approximately 9.0 from Studio Late Weather Forecast.

SUPPORTING ARTISTS

and the Soviet.

THE BALALAIKA ORCHESTRA (Appearing in Costume)

WITH SENIA CHOSTIAKOFF (as Soloist)

Russian March Shatroff Waltz, Sounds from the Far East Arr. Shatroff

Selection from Russian Folk Song Arr. Voronoff SENIA CHOSTIAKOFF (Tenor) and Orchestra

Down the Petersky . . Arr. Saroff

(b) Song of the Volga Boatmen Arr. Saroff

ORCHESTRA

Shining Moon .. .: Balalaika Solo by MR. VORONOFF Two Polkas Arr. Voronoff Russian National Dance by Two Members of the Balalaika Orchestra

CHOSTIAKOFF and OR-CHESTRA

(a) Evening Bells Arr. Saroff (b) Dark Eyes, Russian Gypsy Song Arr. Strokz

ORCHESTRA

Polianka Arr. Voronoff Wieniawski The Red Sarafan Varlamoff

SENIA CHOSTIAKOFF (Soloist) and

THE BLACK AND WHITE DUO (Entertainers)

10.27 FROM THE STUDIO Late News from the Sun

10.30 CLOSE

2FC—Continued

6.30: Serial Time. 6.45: "Sleep Tight." (Completion of Relay to 2NC, Newcastle.) BOY SCOUTS AND GIRL GUIDES'
ASSOCIATION.

ASSOCIATION.
7.5: (Relayed to 2NC, Newcastle) A.B.C. Sporting Service.
7.15: Weather Report, Stock Exchange, Wool Sales, Wheat Markets, Homebush Markets, Truck Bookings, General Market Reports.
7.45: News Service from "The Sun." Additional news from the A.B.C. Service. Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.
7.58: To-night's Programme.
(Completion of Relay to 2NC, Newcastle.)

EVERING PROGRAMME

(See panel on previous page)

SYDNEY. 351 Metres

OPENING SESSION

8.15: G.P.O. Chimes. A Musical Interlude (r.).
8.49: Meteorological Data for the Country.
8.45: Mails and Shipping Information.
8.50: Memory Melodies (r.).
9.0: THIS MORNING'S STORY.
9.30: Melodies Grave and Gay (r.).
9.45: Moments Musical (r.).
10.5: News from the "Daily Telegraph."
10.8: Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

10.8: Cables (Copyright) from the Sun-Heraiu and Australian Press Association News Service.
10.10: Studio Music (r.).
10.15: A RACING TALK BY THE A.B.C. RACING OBSERVER—M. A. FERRY..
10.30: Musical Items (r.).
10.35: THE AUSTRALIAN WOMEN'S RADIO ASSOCIATION SESSION—Conducted by Miss Gwen Varley.
11.0: G.P.O. Chimes. CLOSE.

MID-DAY SESSION

NOTE.—Scores in the INTERNATIONAL CRICKET MATCH, ENGLAND v. COUNTRY (played at Bendigo) will be given at Lunch, Tea, Stumps Drawn, and at the fall of each wicket.

12.0 G.P.O. Chimes and Announcements, Metropolitan Forecast and Weather Synopsis, 12.2: Studio Music (r.), 12.30: LUNCH-HOUR MUSIC.

1.0: Afternoon News from the "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.
1.8: Sectional Weather Forecast.
1.11: Radio Rhythm (r.).
1.35: Studio Music (r.).
2.0: What's on the Air This Afternoon?
2.2: THIS AFTERNOON'S STORY.

AFTERNOON ENTERTAINMENT

(Relayed to 2NC, Newcastle, from 2.30 to 3.45 p.m.)

2.30: "AN ORCHESTRAL SUITE" (r.).

2.30: "AN ORCHESTRAL SUITE" (r.).
2.45: THE AUSTRALIAN WOMEN'S RADIO ASSOCIATION SESSION, Conducted by MISS
GWEN VARLEY.
"C.W.A. NEWS," by MISS FERGUSON. Musical Items (r.).
"HOME GARDENING"—A Talk by MRS. T. J.
HOWELL. A Musical Interlude (r.).
"ART—ITS EMOTIONAL AND DECORATIVE
VALUE," by MRS. A. T. ANDERSON.
3.45: "IN LIGHTER VEIN"—AN AFTERNOON
MUSICALE.
4.46: THE TRADE HOUR DEMONSTRATION
MUSIC.
5.40: Weather Information.
5.45: CLOSE
THE DINNER HOUR

THE DINNER HOUR

6.15: DINNER MUSIC
7.0: MR. CHARLES LLOYD-JONES (Chairman of the Australian Broadcasting Commission), on behalf of the Citizens of Sydney Organising Committee, will speak in connection with "SYDNEY FESTIVAL WEEK."
7.7: DINNER MUSIC.
7.46: Musical Items (r.).
7.58: What's on the Air To-night?

EVENING PROGRAMME

(See above)

SYDNEY, 248 Metres

Day sessions as usual. EARLY EVENING SESSION

EARLY EVENING SESSION
5.10: "THE FAIRY GODMOTHER."
5.45: Musical Items.
5.55: "THE HELLO MAN."
6.40: JACK HYLTON AND HIS ORCHESTRA—
Good Old Dances.
6.48: AL SIEGEL, Novelty Pianist—
Whippin' the Ivories.
6.51: EVERETT MARSHALL, Baritone—
Good-bye, Old Pals.
6.54: ANNOUNCEMENT.
6.56: JASCHA HEIFITZ, Violinist—
Ronda
Schubert

.. . . Schubert

7.0: R.K.O. RADIO MUSICAL AND MOVIE
NEWS SESSION.
7.30: EDITH LORAND ORCHESTRA—
Johann Strauss Fantasia.
7.38: CHORUS AND THE LONDON SYMPHONY
ORCHESTRA—
We Are the Music Moders.

ORCHESTRA—
We Are the Music Makers.
7.42: BLACK DIAMONDS BAND—
Merry Wives of Windsor
7.50: ANNOUNCEMENTS.
7.54: EMIL VELAZCO, Organist—
The Swallow.
7.57: GLADYS MONCRIEFF, Soprano—
Come Back to Me. Nicolat

EVENING SESSION

8.0: WE PRESENT THE 2CH DANCE NIGHT, featuring Leading Bands and Associate Art-

featuring Leading Bands and Associate ists.
9.15: THIRD NEWS AND COMMENTARY.
10.0: Musical Item.
10.5: AN ADDRESS.
10.25: Musical Item.
10.30: CLOSE.

2GB

SYDNEY. 316 Metres

Day Sessions as usual.

EVENING SESSION

5.0: Birthday Calls and Songs by Uncle George

5.0: Birthday Calls and Songs by Uncle George and Bimbo.
5.45: Music.
7.0: Fifteen Minutes, Gil Dech and Orchestra.
7.15: Derek Oldham (Tenor) and Winnie Meiville (Soprano)—Your Eyes; My Song of Love. Derek Oldham—Violets.
7.30: 2GB Orchestra.
7.40: Robert Radford (Bass)—In Cellar Cool.
7.45: Marek Weber and his Orchestra—Blonde or Brunette: Blumenlied.
7.55: Van and Schenck (Comedians)—Does My Baby Love.
8.0: 2GB Orchestra.
8.10: Des. Tooley.
8.20: Rio Grande Band—Valentine; Dites moi mere.

8.20: Rio Grande Band-Valentine, 2.30: Symphony Orchestra—Chanson de Matin; Chanson de Nult.
8.40: Des Tooley.
8.50: 2GB Orchestra.
9.0: Len Maurice and Jack Lumsdaine.
9.15: 2GB Orchestra.
9.20: Jesse Crawford, Wurlitzer Organist—Little White, Lies; Tiptoe thru' the Tulips with Me; Singin' in the Rain.
9.35: Symphony Orchestra—Russlan and Ludmilla.

9.35 Symphony Orchestra—Russlan and Lud-milla. 9.40: Peter Dawson (bass-baritone)—Vulcan's Song: Brothers of the Empire. 9.50: 2GB Orchestra. 10.0: Entertainment Club Numbers. 10.8: Instrumental Music. 11.26: 2GB Good-night Song.

SYDNEY. 267 Metres 4.20

Day Sessions as usual.
5.0: Musical Programme.
5.16: CHILDREN'S SESSION, conducted by JILLAND THE PROFESSOR.
5.36: MIDSHIPMAN BOB BREEZY.
6.3: DINNER MUSIC.
6.40: Music and request items.
7.30: Musical Programme, including "Viennese Nights" and "Bringing Up Father."
8.0: A CELEBRITY PROGRAMME.
8.15: GEMS OF FOLK SONGS—
The Lass with the Delicate Air Arme,
The Harp That Once Through Tara's Halls,
All Through the Night ... Welsh
The Road to the Isles.
8.30: Gilbert and Sullivan Production—"Yeomen of the Guard"—Second Part.
9.0: CLIPFORD ARNOLD at the Piano.
9.15: A SHORT DUET RECITAL—
Fritz and Hugo Kriesler—Miniature Viennese
March.
Deve Lebette and Hubert Eisfell—Very Own

ritz and Hugo Kriesler—Miniature Viennese March. Dora Labette and Hubert Eisdell—Very Own Pierrette. De Groot and Terence Casey—Cavatina. Raff Geo. Metaxa and Peggy Wood—I'll See You

Geo. Metaxa and Peggy Wood—I'll See You Again.
Edwar Furch!!d and Robert Lindholm—Waters of Minnetonka.
Derek Oldham and Winnie Melville—Your Eyes.
Fritz and Hngo Kreisler—Syncopation.
9.45: VIOLIN RECITAL by LEO CHERNIAVSKY Spanish Serenade ... Chaminade La Borrachita ... Esperon From the Canebrake ... Gardner Waltz in A Minor ... Brahms:
10.10: The Casse Noisette Suite ... Tchaikowsky 10.28: To-morrow's Programme.
10.30: Close down.

SYDNEY. 293 Metres

EVENING SESSION

0: Children's Session—Auntie May and Uncle Simon. 5.40: Uncle Lionel and Ambrose, 6.30:

Dinner Music. 7.0: Motorists' Talk. 7.15: Studio Programme. 8.0 p.m.: Overture, Bo-hemian Girl. 8.15: Old-time Dance Night from the Aust. Hall; Music by Rex Shaw's Orch.; M.C., Si Meredith. 11.0: Close down.

SYDNEY. 280 Metres

Day Sessions as usual.

EVENING SESSION

0: Uncle John and Jerry. 6.0: Children's Birthday Session. 6.30: Dinner Entertainment, 7.15: Dinner Music. 7.40: A Talk on the Garden, Mr. G. L. Gellatly. 8.1: Orchestral Selections. 8.10: Keith Collins at the Piano. 8.15: A Talk on International and Australian Topics, Ald. J. S. Garden. 8.45: Specially arranged Studio Programme. 9.10: Keith Collins at the Plano. 9.15: Music. 10.30: Closing Announcements.

SYDNEY.

Day Sessions as usual.

0: Children's Session—Auntle Goodie. 5.30:
Uncle Tom. 6.1: Dinner Session. 6.45: Social
Chatter: Maria Dawson. 7.0: Studio Music.
7.15: After Dinner Entertainment. 7.45: Studio Music. 8.0: Evening Session. 8.10: Studio Music. 10.0: Composing Music. 10.30:
Close.

MELBOURNE, 375 Metres

EARLY MORNING SESSION

7.1: Shipping. 7.3: Physical Exercises to Music. 7.10: Morning Music. 7.37: "Brother Bill's" Pick-me-up-"If, then do it." 7.40: Mail notices. 7.42: What's on to-day. 7.45: Market reports. 7.53: Weather. 7.55: News. 8.1: Arrival times of Express Trains. 8.2: Music. 8.15: Close.

MORNING SESSION

0.30: Current Happenings in Sport, by Mel. Morris, 10.45: Music. 11.45: Melbourne Stock Exchange, 11.48: Music. 12.10: News. 12.30:

MIDDAY SESSION

1.0: Stock Exchange information. 1.15: Music. WOMEN'S SESSION

2.0: Advice to the Home Gardener—"Ericas," Mr. A. Antonio. 2.15: Music. 2.30: Beauty and the Adventure of Living," Miss Madge Thomas. 2.45: Music.

THE RADIO MATINEE

THE RADIO MATINEE

During the afternoon progress scores in the Cricket Match, England versus Country Team, played at Bendigo, will be broadcast. 3.0: Ariel Concert Band—March, "The New Colonial" (Hall): Overture, Orphee aux Enfers (Offenbach). 3.8: George Nicholls, Baritone—Two songs by Melbourne composers, Bells and Hobbles (Horace Gleeson). The Quiet Room (George Nicholls). 3.14: Rebie Saunders—Humorous Monologues. 3.20: Band—Selection, Les Cloches de Corneville (Planquette). 3.30: Gladys Lewis, Mezzo-Soprano—Pale Moon (Knight Logan), Lackaday (Ernest Crampton). 3.36: Mark Solomon and his Banjo. 3.40: Band—Waltz, Casino Tanze (Gung'il). 3.46: George Nicholls, Baritone—A Hundred Moonlit Miles Away (Ivey), God Touched the Rose (Mary Helen Brown). 3.52: Mark Solomon and his Banjo. 3.55: Rebie Saunders—Humorous Monologues. 4.1: Band—Novelette, Lords and Ladies (Salzer), Popular Foxtrot. 4.9: Gladys Lewis, Mezzo-Soprano—Little Brown Owl (Sanderson), Love's a Merchant (Molly Carew). 4.15: Mark Solomon and his Banjo. 4.21: Band—Selection, Cavalcade (Coward).. 4.30: Close.

THE CHILDREN'S CORNER

THE CHILDREN'S CORNER

5.45: "Billy Bunnie" is going to tell you more. Then comes Miss Phoebe Barton with some of her pretty songs. Mr. Blamire Young is coming to talk about a very famous and very ancient painting called the Mona Lisa. It is a portrait of a smilling lady, And everyone says it is the strangest smile possible.

EVENING SESSION

6.30: COUNTRYMAN'S SESSION.
7.2: ALL SPORTING RESULTS.
7.21: Results of Women's Sports.
7.25: The Official Weekly Report of the Stock Exchange of Melbourne.
7.35: Music.
7.40: News.
7.45: INTERNATIONAL AFFAIRS—A Gazette of World Relations, Dr. G. L. WOOD, M.A.

NIGHT SESSION

8.0: (See 2FC Programme.)
10.30: WEATHER, Etc.
10.33: DANCE MUSIC by WIRELESS DANCE ORCHESTRA.
11.30: Close.

MELBOURNE. 492 Metres

MORNING SESSION

15: Thirty Minutes' Melody. 8.45: Weather. 8.50: Music. 9.1: News. 9.5: Music. 9.17: Melbourne Weather Conditions. 9.18: Music. 10.0: Announcements. 10.15: Music. 10.30: Selections on the Grand Organ. 10.45: The Daily Broadcast Service. 11.0: Close. 8.15:

MIDDAY SESSION

12.1: Music. 1.15: At Home and Abroad, by "The Watchman." 1.30: Music.

AFTERNOON SESSION

ote.—During the afternoon progress scores in Cricket Match, England versus a Country Team, played at Bendigo, will be given as they come to hand.

they come to hand.

1: Grand Opera, "Carmen (Bizet). Act 1.
Sung in French. Cast—Carmen, Raymonde Visconti, Mezzo-Soprano; Micaela, Martha Nespoulous, Soprano; Frasquita, Andrece Vavon; Mercedes, Andree Bernadet; Don Jose, Georges Thill, Tenor: Escamillo, M. Guenot, Baritone; Dancaire, M. Roussel; Remendado, M. Mathyl. Chorus of Girls, Soldiers, etc. Accompaniment by Orchestre Symphonique of Paris, Conductor Elie Cohen. 2.36: Association des Concerts, Poulet Orchestra, conducted by M. Gaston Poulet. Redemption, Meaceau Symphonique (Cesar Franck).

EDUCATIONAL SESSION

3.0: The Week's Health Talk. "Sunstroke."
Dr. J. Dale, Melbourne Medical Officer of Health. 3.15: Music. 3.30: The International Club (under the auspices of the Bureau of Social and International Affairs), Miss Nora Collisson. 3.45: Music. 5.30: Weather and Shipping. 5.45: Close.

EVENING SESSION

6.15: Dinner Music. 7.30: Love Stories of the Composers. Schubert's Unfinished Romance, Miss Frances Fraser. 7.50: Music.

NIGHT SESSION

0: MASTERPIECES OF SHORT STORY— Chosen from the World's Best, by PROFES-SOR E. H. C. OLIPHANT.

COOSEN ITOM the WORLD'S BEST, BY PROFESSOR E. H. C. OLIPHANT.

8.30: PROGRAMME arranged by MUSIC TEACHERS' ASSOCIATION.
Trio in B Flat, Op. 97 Beethoven Allegro' Moderato.
Scherzo Allegro.
RITA HOPE TRIO.
Come Again John Bowland Now Sleeps the Crimson Petal,
Roger Quilter Over the Mountain, Arr. Roger Quilter To a Water Lily Edward Grieg MISS MOLLY WARDEN, Soprano.
Trio in B Flat, Op. 97 ... Beethoven Andante Cantablie.
Allegro Moderato.
RITA HOPE TRIO.
Les Seuilles sont Mortes ... Gustave Doret Aubade, from Le Roi D'ys ... Edward Lalo Berceuse Rhene-Baton MISS MOLLY WARDEN, Soprano.

9.20: Interlude.

9:20: Interlude.

28: WIRELESS DANCE ORCHESTRA— Latest Dance Numbers. 34: "MOONSHINE AND HONEYSUCKLE"--In "Novel Nonsense."

9.34: "MOONSHINE AND HONEYSUCKLE"—
In "Novel Nonsense."

9.41: DANCE ORCHESTRA—
A Novelty Number.

47: ALAN BARRY. Baritone—
When You Wore a Gingham Gown, Gilbert
My Mother's Lullaby ... Johnson

9.53: BERN. DUGGAN, Novelty Planoforte—
Spring Fever. Bloom

9.56: "MOONSHINE AND HONEYSUCKLE"—
In More Novel Nonsense.

10.2: ALAN BARRY, Baritone—
Close Your Eyes ... Tennent
Hummin' to Myself ... Fain

10.9: DANCE ORCHESTRA—
Latest Dance Numbers.

10.15: NEWS.

10.30: CLOSE.

4QG

BRISBANE. 395 Metres

EARLY MORNING SESSION

(Relayed to 4RK.)

7.30: The Chimes and music. 7.34: Weather data from the Commonwealth Weather Eureau. Cable news (copyright); Australian Press Association. and "Sun"-"Herald" News Service. Ltd. First general news from the "Courier." Comments on news. What's on to-day. Features from the radio programmes, Stumps drawn scores. 8.0: Music. 8.30: Close.

MORNING AND MIDDAY SESSION

(Relayed to 4RK except from 11.23 to 11.30.) 11.0: The Daily Broadcast Service. 11.10: The Morning Musicale. 11.23: Social notes from the metropolitan daily newspapers. 11.30:

Studio melodies. 11.40: A talk arranged by the National Council of Women—"Kinderten Work as a Career for Our Girls," by Mrs. Sharland. 11.55: What's on to-day. 12.0: The City Hall Chimes. 12.1: Musical moments by "The Celeste Quartette." 1.0: Market reports, weather data, second general news from the "Courier." 1.30: Late luncheon music. International Cricket, England v. Victorian Country—Progress scores in the match between England and a Victorian Country Team will be announced as they come to hand from Bendigo. 2.0: Close.

AFTERNOON SESSION (Relayed to 4RK.)

(Relayed to 4RK.)

0: Famous Jazz Bands. International Cricket, England v. Victorian Country—Progress scores in the match between England and a Victorian Country Team will be announced as they come to hand from Bendigo. 4.30: Close. digo.

EARLY EVENING SESSION

EARLY EVENING SESSION
(Relayed to 4RK except from 6.20 to 6.30.)
6.0: For the children—A Japanese Story: "The
Girl in the Moon," by Professor Sherbert.
6.20: Shipping news; trains information; mail
notices. 6.30: Early dinner music. 6.45:
Late market reports. General commercial
news. Late weather data. 7.0: Late dinner
music. 7.23: First general news from the
"Telegraph." 7.30: A Talk on Books by Mr.
J. Doyle. 7.45: General sporting notes, including stumps drawn scores. 7.59: Eastern
Australian Standard Time Signals.

NIGHT SESSION (Relayed to 4RK.)

0: A NATIONAL PROGRAMME from 3LO, MELBOURNE.

MELBOURNE.

PART 1.—THE ARGENTINE BAND.

PART 2.—A PLAY: "LORD RICHARD IN

THE PANTRY."

10.15: FINAL NEWS BULLETIN—Weather data;
cable news (copyright); "Sun"-"Herald" News
Service, Ltd., and Australian Press Association; second general news from the "Telegraph."

10.30: BERT TUCKER AND THE CARLINON.

graph."
30: BERT TUCKER AND THE CARLTON
JAZZ BAND—Dance music.
.0: Close.

ADELAIDE. 411 Metres

EARLY MORNING SESSION

7.30: News. Weather Forecast. 7.40: Music. 8.1: Shipping. Mail, Train, Weather, and Market Reports. 8.10: Music. 8.30: Close

MORNING AND MIDDAY SESSION

CRICKET.

ENGLAND v. COUNTRY, at Bendigo. Scores at lunch, tea, and stumps.

11.0: Dally Broadcast Service. 11.10: Morning Melodies. 11.28: Sporting Fixtures. 11.30: Homecrafts, by "Suzette." 11.45: Latest Recordings. 12.15: Stock Exchange. 12.19: News. Weather, Grain, and River Reports. 1.0. Music. 1.5: News Items. 1.15: Music. 2.0: Music, 1.5 Close down

AFTERNOON SESSION

AFTERNOON SESSION
3.0: Topical Gleanings, by 'Lady Tulliver."
3.15: Matine Programme. 4.30: Close down.

EVENING SESSION
5.50: Birthday Greetings. 6.0: 'Auntie Peggy'
and 'Big Brother.' 6.20: Children's Hospital
Senior Birthday League. 6.22: Dinner Music.
6.50: Stock Exchange. 7.0: New Service.
7.5: Sporting Service. 7.10: The 5CL Twinkler Boys' Club, conducted by "The Twinkler"
(Mr. F. J. Mills).

NIGHT SESSION

8.0: ON WITH THE SHOW—
A POT-POURRI of POPULAR THEMES AND
MELODIES, presented by RALPH DALY,
Portions A POT-POURRI of POPULAR INEXAMPLE.

A POT-POURRI of POPULAR INEXAMPLE.

MELODIES, presented by RALPH DALY, Baritone.

TOM KING, Pianist.

HARRY HUTCHINS, Violinist.

LYNNIE GILBERT, Soprano.

DAVE HOWARD, Entertainer.

THE NIGHTLARKS MALE QUARTETTE and THE FAMOUS BRYANT'S BELLRINGERS.

ORDER OF PRESENTATION.

1. THE BRYANT'S BELLRINGERS in Silver Organ Chimes.

2. RALPH DALY, Baritone.

3. HARRY HUTCHINS, Violinist.

4. THE NIGHTLARKS MALE QUARTETTE.

5. LYNNIE GILBERT, Soprano.

6. TOM KING, Pianist.

7. THE NIGHTLARKS MALE QUARTETTE.

8. THE BRYANT'S BELLRINGERS.

9. RALPH DALY, Baritone.

10. DAVE HOWARD, Entertainer.

11. THE NIGHTLARKS MALE QUARTETTE.

12. LYNNIE GILBERT, SOPRANO.

13. HARRY HUTCHINS, Violinist.

14. THE NIGHTLARKS MALE QUARTETTE.

15. TOM KING, Pianist.

16. STAR SONGS AND THEME MELODIES OF THE WEEK (by special arrangement).

10.15: News Session.

10.20: Dance Music.

11.0: Close down.

DEFINITELY READY MARCH 22ND



If you trade in Radio, you should have your Name included in this RADIO TRADE AN-NUAL TRADERS' LIST. LISTS CLOSE, FEBRUARY 15th

Your Trading Name, Address, and 'Phone No. included in the Directory section of this 1933 Radio Trade Annual on receipt of postal note for 2/6; or in thick black type for 4/-.

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Your Trading Name, Address, and 'Phone in the retail list, together with one copy of this Annual post free for 12/-.

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Over 200 Pages of Valuable Information Necessary to Every Radio Trader & Service Man

Look at the Contents!

DETAILED SUBJECT INDEX. ADVERTISERS' INDEX. CALENDARS, 1932, 1933, 1934. DISCOUNT READY RECKONER, INC. 6% SALES TAX.

THE PROGRESS OF RADIO.

BROADCASTING SECTION.—Constitution and Organisation of the Australian Broadcasting Commission. List of A and B Stations. Growth of Listeners' Licences. Details of "B" class stations. Broadcasting Time Schedules.

LAWS AND LICENCES AFFECTING RADIO TRADERS, IN-CLUDING:—
Shop Acts Summary. Registration of Business Names Act. Factory and Workshop Acts Summary. Sales Tax Summary. Trade Marks and Patents. Wireless Telegraph Acts and Regulations.

ORGANISATION OF THE INDUSTRY.—Trade Associations. Institutions of Radio Engineers, Australia. Radio Society of Australia.

GENERAL INFORMATION.—Postal Information. Details of Wireless Branch, P.M.G.'s Dept. Hire Purchase Business, Standards Association of Australian Rules. Imports of Radio. Customs Tariff. Supply Mains and Voltages.

TECHNICAL SECTION.—Practical Service Methods. Service Equipment, General Service Procedure, Power Supply Systems, Valves, Loud Speakers, Aerials, R.F. Amplifiers, Audio Amplifiers, Detectors, Radio Phonograph Combinations, Public Address Systems. Complete List of Valves. Valve Bases and Connections. Care and Maintenance of Accumulators. Output Valve and Speaker Matching. Interference Elimination, Explanation of Superheterodynes. Radio Symbols. Formulae and Data. Frequency and Wavelength Table. Metric Conversion Tables. Resistance Wire Table. Dictionary.

RECTORY SECTION.—Name, Address, 'Phone and Telegraphic.
Manufacturers, Manufacturers' Agents. Radio Publications and their Publishers. Wholesalers—Alphabetical List.
Proprietary (Trade) Names. Goods supplied by (alphabetical) (see separate list). Who's Who in Radio.
Special Section (Advertisers), Company, Capital, Directors, Branches. Managers, etc.
Radio Traders (Retail) Throughout Australia. Specifications of Latest Radio Receivers Available.
Other important information will be included up to closing date. DIRECTORY SECTION .- Name, Address, 'Phone and Tele-

			193
To the Pr	blishers,		
"Radio	Retailer," 1933	Trade Annual,	
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JANUARY 10 TUESDAY

8.0-NATIONAL PROGRAMME From 3LO, 2CO, 2FC, 2NC, 5CL, 5CK-8.0

8.0 THE COUNT OF LUXEMBOURG (A Spectacular Light Opera) MUSIC BY FRANZ LEHAR

CHARACTERS

RENE, Count of Luxembourg, A Young Man, about twenty-eight, of high Nobility, but penniless, having squandered all his money on pleasure

BRISSARD, A Young French Painter, also penniless. Bosom pal of the Count THE GRAND DUKE, A Russian. He is in love with Angele Didier, a Grand

Opera Star PELEGRIN MENTSCHNIKOFF

Grand Duke's Servants

PAULOVITCH

ANGELE DIDIER, A Grand Opera

Star JULIETTE, Brissard's Sweetheart. Later companion to Angele Didier

LISETTE, Dresser to Angele Didier SAVILLE

BOULANGER Friends of Brissard

LAVIGNE MIMI

AURELIE

Their girl friends

CORALIE

THE REGISTRAR

COUNTESS KOKOZEFF, A Russian Lady

THE COUNT LUXEMBOURG

A Spectacular Light Opera With Music By FRANZ LEHAR



ACT ONE SCENE, BRISSARD'S STUDIO, PARIS TIME, NIGHT ACT TWO

SCENE, THE GRAND DUKE'S RECEPTION HALL, PARIS. THREE MONTHS LATER

9.30 A MUSICAL INTERLUDE

9.35 THE A.B.C. (SYDNEY) CON-CERT ORCHESTRA, conducted by E. J. ROBERTS Loin Du Bal Pizzicato Polka Strauss

9:41 OLIVER KING (Bass) Hear Me, Ye Winds and Waves

Handel The Bellman .. . Forsyth Down Among the Dead Men Old English Thy Wonderful Eyes .. . Strauss Dedication Franz I Love Thee Grieg ORCHESTRA

Melodious Melodies Finck

10.0 LATEST DANCE MUSIC (r.) (Completion of Relay to National Stations)

10.30 Late Official Weather Forecast

10.32 LATEST DANCE MUSIC (r.)

11.0 (Completion of Relay to 2NC Newcastle)

11.30 CLOSE

ALTERNATIVE PROGRAMME OVERLEAF-DAY SCHEDULES BEGIN BELOW

2FC

SYDNEY. 451 Metres

EARLY SESSION

Relayed to 2NO, Newcastle.)

7.0: Big Ben. Early Rising Music (r.). Meteorological information for the man on the land.

7.10: This morning's news from the "Daily Telegraph" and "Labor Daily."

7.15: Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

7.18: Studio Music (r.).

7.30: Short daily commentary for the man outback.

back.
7.40: Radio Rhythm (r.).
7.45: Mails and Shipping.
7.48: What is on to-day?
7.50: Music from the Studio (r.).
8.15: CLOSE (Completion of Relay to 2NC, Newcastle).

MORNING SESSION
(Relayed to 2NC, Newcastle, from 10.40 a.m.)

cast. Special Produce Market Session for the man on the land, supplied by the State Marketing Board. 12.30: CLOSE (Completion of relay to 2NC, Newcastle).

THE LUNCH HOUR

NOTE: Scores in the International Cricket Match-ENGLAND v. COUNTRY-played at Bendigo, will be given at Luncheon, Tea, and Stumps Drawn, and at the fall of each

and Stumps Drawn, and at the lan of each wicket
LUNCH HOUR MUSIC.
Sectional Weather Forecast.
Programme Announcements.
Stock Exchange, second call.
A Glance at the afternoon "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.
Musical Items (r.).

THE RADIO MATINEE (Relayed to 2NC, Newcas NELL FERGUSON, Pianiste:

4.0: WHAT IS NEW? (New Releases) (r.). 4.28: Stock Exchange, third call. 4.30: CLOSE.

EARLY EVENING SESSION (Relayed to 2NC, Newcastle, from 5.45 to 6.45 and from 7.5 to 8 p.m.)

5.45: THE CHILDREN'S HOUR, conducted by "BOBBY BLUEGUM."

"BOBBY BLUEGUM."

"I want to soothe, with loving touch,
Those who are troubled overmuch;
I want to do my best to share
The sorrows some are called to bear."

All the news of "Bobby Bluegum's Sunshine
Soldiers." Perhaps there will be a letter
to write. Join our big club early this
year, there will be lots doing.

57. THE CLUB SONG. "When Bobby's Sun-

5.57: THE CLUB SONG—"When Bobby's Sun-shine Soldiers go to War."

"Billy Bookworm" is sure to have a holi-day story, to-day.

day story, to-day.

6.15: BIG KID'S SESSION—just a cheerio to Mothers and Fathers.
6.20: Many Happles.
6.30: Do You Like Our New Serial?
6.45: "Sleep Tight."
(Completion of Relay to 2NG, Newcastle.)
DEPARTMENT OF AGRICULTURE.
7.5: (Relayed to 2NC, Newcastle) A.B.C. Sporting Service.
7.15: Weather Report, Stock Exchange, Wool Salcs, Wheat Markets, Truck Bookings, General Market Report.
7.46: News Service from "The Sun." Additional News from the A.B.C. Service. Cables (Copyright) from the Sun.Herald and Australian Press Association News Service.
7.56: To-night's Programme.

EVENING PROGRAMME

EVENING PROGRAMME (See above)

TUESDAY, January 10 (Con.)

8.0-ALTERNATIVE PROGRAMME FROM 2BL-8.0

8.0 We Present the A.B.C. Comedy Players in

THE SPECIALISTS

A One Act Play, in 4 Scenes, written and adapted for Radio by

ENID BAUMBERG

CHARACTERS

JOHN GORDON, a Gentleman.

Leo Stark

PIANO TUNER Victor Gouriet SERVANT H. W. Varna JOHN GILES Herbert Leigh "RED HORTON" Bert Barton

CORA Phyllis McGrath

PRODUCED BY ARTHUR GREENAWAY

8.20: A PROGRAMME ARRANGED BY THE MUSICAL ASSOCIATION OF NEW SOUTH WALES

(1st Half)

Allegro Moderato from Trio in G Hurlstone

Piano, HORACE KEATS Violin, RAY FOX 'Cello, NORMAN MARTIN

RAY FOX (Violinist)

Faust Fantasie Gounod-Sarasate

BARBARA RUSSELL (Soprano)

The Wild Welsh Coast Bantock Wanting is-What? Bantock A Windy Night, from Seven Songs for Children, by Bantock (First Performance in Australia)

8.50: PROFESSOR CHARTERIS

Challis Professor of International Law in the University of Sydney, will continue his series of talks on AUSTRALIA LOOKS ON THE WORLD

9.20: WEATHER FORECAST

9.22: SECOND HALF OF THE PRO-GRAMME ARRANGED BY THE MUSICAL ASSOCIATION OF NEW SOUTH WALES

HORACE KEATS (Pianist)

Ballad in A Minor York Bowen

NORMAN MARTIN (Cellist)

Ave Maria Max Bruch

BARBARA RUSSELL

Arab Love Song Quilter Where the Wild Fowl Call Kahn Weather Ireland Trio, Fantasie in A Minor .. Ireland

HORACE KEATS (Pianist), RAY FOX (Violinist), and NORMAN MARTIN ('Cellist)

9.52: LATEST DANCE MUSIC (r.).

10.27 Late News from the "Sun"

10.30 CLOSE

SYDNEY, 351 Metres

OPENING SESSION

8.15: G.P.O. Chimes. A Musical Interlude (r.).
8.40: Meteorological Data for the Country.
8.45: Mails and Shipping Information.
8.50: Memory Melodies (r.).
9.0: THIS MORNING'S STORY.
9.30: Melodies Grave and Gay (r.).
9.45: Moments Musical (r.).
10.5: News from the "Daily Telegraph" and the "Labor Daily."
10.8: Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

10.8: Cables (Copyright) from the Sun-Action and Australian Press Association News Service.
10.10: Studio Music (r.)
10.15: A RACING TALK BY THE A.B.C. RACING OBSERVER—M. A. FERRY.
10.30: Musical Items (r.).
10.35: THE AUSTRALIAN WOMEN'S RADIO ASSOCIATION SESSION—Conducted by Miss Gwen Varley. "News from the Women's Clubs of N.S.W." by Miss Gwen Varley.
11.0: G.P.O. Chimes. CLOSE.

MID-DAY SESSION

MID-DAY SESSION

NOTE.—Scores in the INTERNATIONAL CRICKET MATCH. ENGLAND v. COUNTRY (played at Bendigo), will be given at Lunch, Tea, Stumps Drawn, and at the fall of each wicket.

12.0: G.P.O. Chimes and Announcements, Metropolitan Forecast and Weather Synopsis. 12.2: Studio Music (r.).

12.30: LUNCH-HOUR MUSIC.

10: Afternoon News from the "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

1.8: Sectional Weather Forecast.

1.11: Radio Rhythm (r.).

1.36: Studio Music (r.).

2.0: What's on the Air This Afternoon?

2.2: THIS AFTERNOON'S STORY.

AFTERNOON ENTERTAINMENT

ENTERTAINMENT AFTERNOON

2.30: "NEW RELEASES" (r.). 3.0: FROM FARMER'S OAK HALL-Popular Dance Items. 3.12: FROM THE STUDIO—"SONGS OF THE SEA" (r.). 3.18: FROM FARMER'S OAK HALL-Later Popular Numbers.

3.30: FROM THE STUDIO—SOPRANO SOLOS 3.36: FROM FARMER'S OAK HALL-A Popular Interlude.

3.48: FROM THE STUDIO - "MARCHING SONGS" (r.).

3.54: "PIANOFORTE RHYTHM" (r.)

4.0: A Talk on "THE LAND OF THE INCAS" (Part I.), by W. P. GOODWIN. 4.15: FROM FARMER'S OAK HALL-Dance Music.

4.27: FROM THE STUDIO—EXCERPTS FROM LIGHT OPERA (r.).

4.33: FROM FARMER'S OAK HALL-Moments Musical.

4.45: FROM THE STUDIO—THE TRADE HOUR DEMONSTRATION MUSIC. 5.40: Weather Information. 5.45: CLOSE.

THE DINNER HOUR

6.15: DINNER MUSIC. 7.45: "REDGUM" will tell Listeners about their

GARDENS.
58. What's on the Air To-night? EVENING PROGRAMME (See above)

SYDNEY. 248 Metres

Day sessions as usual.

EARLY EVENING SESSION

6.56: STUART ROBERTSON, Baritone—
In Summertime on Bredon Peel
6.59: H.M. GRENADIER GUARDS—
Fantasia, 17th Century Music.

Arr. Major George

7.7: ANNOUNCEMENT. 7.8: AMELITA GALLI CURCI, Soprano—
Slumber Song Meyerbeer

7.11: JOSEF LHEVINNE, Pianist— Blue Danube 7.19: ANNOUNCEMENTS.
7.20: COURT SYMPHONY ORCHESTRA—
Mary Rose Prelude.
The Call.

The Call.

7.26: ROYAL OPERA CHORUS AND ORCHESTRA, COVENT GARDEN—
Opening Chorus, Carmen.

7.30: BAND OF GARDE REPUBLICAINE—
March Indienne ... Sillenick

7.33: ANNOUNCEMENT.

7.34: J. H. SQUIRE CELESTE OCTETTE—
Memories of Chopin,

7.42: ANNOUNCEMENT. 7.45: P. and O. TRAVEL TALK.

EVENING SESSION

8.0: HALF AN HOUR OF VAUDEVILLE— REGAL SALON ORCHESTRA— Electric Girl ... Helmberg and Holmes 8.3: ANNOUNCEMENT.

Electric Girl ... Helmberg and Holmes

8.3: ANNOUNCEMENT.
8.4: GLADYS MONORIEFF, Soprano—
I Found Happiness When I Found You,
Pollack and Rapee

8.11: GRACIE FIELDS, Entertainer—
Stop and Shop at the Co-op, Shop.
8.14: DUKE ELLINGTON AND HIS COTTON
CLUB ORCHESTRA—
What Good Am I Without You? ... Ager

8.17: MAURICE CHEVALIER—
Right Now ... Russell and Robinson

8.20: MOANA ORCHESTRA—
Song of the Islands ... King

8.22: PETER DAWSON, Baritone—
Captain Harry Morgan,
Just Across the Street From Heaven,
Schubert's Tov Shop

8.37: ANNOUNCEMENT.
8.38: WARING'S PENNSYLVANIANS—
How About Me? ... Berlin

8.41: SOPHIE BRASLAU, Contralto—
Come to Me, O Beloved ... Bassani
8.46: Forever ... Ager

8.49: THE REVELLERS—
O, Miss Haunah ... Deppen

8.51: EMIL GRIMSHAW'S BANJO QUARTETIE—
A Swanee Wing Song ... Grimshaw

A Swanee Wing Song Grimshaw 8.55: WISH WYNNE Comedian— An Embankment Impression Wynne 8.58: ELDORADO TANGO BAND—

8.58: ELDORADO TANGO BAND—
Madonna Bruna
9.1: RICHARD TAUBER, Tenor—
The Song is Done
9.4: DEBROY SOMERS BAND—
Funny Face Selection.
9.12: ANNOUNCEMENT.
9.15: THIRD NEWS AND COMMENTARY.
10.0: Musical Item.
10.5: AN ADDRESS BY A MEMBER OF INDEPENDENT ORDER OF RECHABITES.
10.25: Musical Item.
10.30: CLOSE.

Day Sessions as usual.

SYDNEY. 316 Metres

2GB

Day Sessions as usual.

EVENING SESSION

5.0: Birthday Calls and Songs by Uncle George and Bimbo.
6.30: British Talkie Session.
6.45: Music.
7.0: Entertainment by President and St. Leger.
7.15: Marck Weber and his Orchestra—H You are Fatthless; Marching Song.
7.25: Peter Dawson (Bass-Barltone)—So I Left.
7.30: Dance Music by Roy Sox and his Band.
7.45: The Two Octaves, Plano Duo.
7.55: Layton and Johnston—Swingin' in a Harmock.

7.55: Layton and Johnston—Swingin' in a Harmock.
3.0: The State Theatre Orchestra—Overture.
3.10: The Two Octayes, Plano Duo.
3.20: Charles Prentice and his Orchestra—Siziletta.
3.25: Zena Moller (Soprano).
3.35: Regal Cinema Orchestra, London—A Musical Jigsaw.
3.46: Len Maurice and Jack Lumsdaine.
3.0: Regal Cinema Orchestra, London—Viennese Nights Waltzes.
3.10: Zena Moller (Soprano).
3.20: Charles Arncliffe and his Orchestra—Thrills.
3.25: Fritz Kreisler (Violinist)—Tango; La Vida Breve; Schou Rosmarin.
3.40: The State Theatre Orchestra—Entracte.
3.45: Band Recital—Air de Ballet; Callirhoe; Geisha Selection.
3.10: Slumber Music.
3.11.30: Close down.

211W

SYDNEY, 267 Metres

Day Sessions as usual. 5.15: CHILDREN'S SESSION, condu-	cted t
UNCLE JACK and JILL. 5.58: MIDSHIPMAN BOB BREEZY.	
6.3: DINNER MUSIC. 6.30: Request items.	
8.0: A CELEBRITY PROGRAMME. 8.15: Recital by Lotte Lehman—	
Morgen Thy Blue Eyes	Strau:
8.30: Band Music that Inspires—	Wagne

SYDNEY. 293 Metres

Day Sessions as usual.

EVENING SESSION

EVENING SESSION

0: Children's Session—Auntie May and Uncle
Simon. 5.40: Uncle Lionel and Ambrose. 6.30:
Dinner Music. 6.45: To-morrow's Races—Mr.
Tom Ellis. 6.55: Dinner Music. 7.30: Sporting Talk by Mr. Oscar Lind. 8.0. Overture,
Pique Dame. 8.10: Music. 8.15: Health Talk.
8.30: Musical Presentation. 8.55: Selections.
9.0: Sponsored Session. 10.0: Light Opera
Selection, Tales from the Vienna Woods.
10.15: Music. 10.45: Tranquillity Music. 11.0:
Close down.

SYDNEY. 280 Metres

Day Sessions as usual.

EVENING SESSION

5.0; Conducted by Uncle John and Jerry. 6.0; Children's Session. 6.30; Dinner Entertainment, 6.15; Dinner Music. 8.1; Studio Items.

8.30: F. J. PALMER AND SON'S

PARK STREET.

COMMUNITY SINGING FROM THE AUBURN TOWN HALL, WITH SYD HAYNES LEADING, ASSISTED BY UNCLE BERT,

GEORGE THE COMEDIAN. AND

OTHER PROMINENT ARTISTS 10.20: Closing Announcements

SYDNEY. 236 Metres

Day Sessions as usual
5.0: Children's Session—Auntie Goodie. 5.30:
Children's Session—Uncle Tom. 6.1: Dinner
Session, 6.45: Social Chatter—Maria Dawson. 7.0: Turf Topics—Eric Gordon. 7.15:
After Dinner Entertainment. 7.45: Studio
Music. 8.0: "Our Doctor" Talks. 8.15: Studio
dio Music. 10.0: Composing Music. 10.30:

MELBOURNE, 375 Metres

FARLY MORNING SESSION
7.1: Shipping News. 7.3: Physical Exercise to Music. 7.10: Morning Music. 7.37: "Brother Bill's" Pick-me-up—"Horsey, keep your tail up." 7.40: Mail Notices. 7.42: What's on To-day. 7.45: Market reports. 7.53: Weather, 7.55: News. 8.1: Arrival times of Express Trains. 8.2: Music. 8.15: Close.

MORNING SESSION

10.30: Current Happenings in Sport, by Eric Welch. 10.45: Music. 11.0: Pish Market Re-ports. 11.5: Music. 11.45: Melbourne Stock Exchange. 11.48; Music. 12.10: News. 12.30:

MIDDAY SESSION

1.0: Stock Exchange Information. 1.15: Music,

WOMEN'S SESSION

0: Love Affairs of Literary Men—"Laurence Sierne and Elizabeth Wilson," Miss Patricia Wilson. 2.15: Music. 2.30: Work Amongst the Children—"Social Service and Citizen-ship," Mrs. J. Rapke. 2.45: Music.

THE RADIO MATINEE

THE RADIO MATINEE

3.0: Radio Players—Gavotte (Gossec), Pale Star (Roth). 3.6: Rita Fox, Contralto—When Song is Sweet (Sans Souci), That's All (May Brahe). 3.12: Norman Wister, Entertainer at the Plano—The Art of Entertaining (Grey). 3.18: Tom Dowling, Tenor—Two Songs by Horace Gleeson—My Wee Little Hut on the Hill, The Green Jacket. 3.24: Radio Players—Serenade Norwegienne (Sandre), Bluette (Aitken). 3.32: Kate Cornell—A Comedy Monologue—Widders. 3.38: MacDuñ Williams—A Novelty Violin Number. 3.42: Rita Fox, Contralto—Down Here (May Brahe), Mountain Loyers (Squire). 3.48: Radio Players—Selection, The Mikado (Sullivan). 3.58: Norman Wister, Entertainer at the Piano—Twisted Tales (Wister). 4.4: C. Richard Chugg, Flute—Request Number. 4.8: Kate Cornell—The Lady Who Obliges. 4.14: Tom Dowling, Tenor—I Be Hopin' You Remember (Connigsby Clarke), The Kerry Dance (Molioy). 4.20: Radio Players—Selection, Katinka (Friml). 4.30: Close down.

THE CHILDREN'S CORNER

5.45: Do tune in and make friends with Mackay the Handy Man! He's a friend of Macandrew the Engineer, and he knows all sorts of interesting things. To-day, for instance, he is going to tell how men on boats used to send messages to each other before we had wireless. He calls it, "How Ships Learnt to Talk."

EVENING SESSION

6.30: COUNTRYMEN'S SESSION
7.2: ALL SPORTING RESULTS—ERIC WELCH'S
Selections for the Woodend Races to-morrow.
7.21: Results of Women's Sports.
7.25: ALONG THE BARRIER REEF—"Beachcombing on the Reef," Mr. VANCE PALMER.
7.35: British Official Wireless News.
7.40: News.
7.40: News.
7.45: FOR THE MAN ON THE LAND—"Pseudo
Poultry Plague, or Newcastle Disease," Mr.
R. M. JOHNSTONE, B.V.Sc.

NIGHT SESSION

8.0: "THE COUNT OF LUXEMBOURG." (See 2FC Programme.) 10.30: WEATHER, Etc. 10.33: "MEDITATION" MUSIC. 11.30: Close.

MELBOURNE. 492 Metres

MORNING SESSION

15: Thirty Minutes' Melody, 8.45: Weather. 8.50: Music. 9.1: "Sun" News. 9.5: Music. 9.17: Weather. 9.18: Music. 9.21: Radio Serial—"Cleansing Fires." by Arthur Russell Read by "Soribe." 9.36: Music. 10.1: British Official Wireless News. 10.10: Announcements. 10.15: Music. 10.45: The Daily Broadcast Service. 11.0: Close.

MIDDAY SESSION

12.1: Music. 12.15: The Near East Through the Eyes of a Westerner. "Easter in the Holy Land." Regina Goldman. 12.30: Music. 1.15: At Home and Abroad, by "The Watchman." 1.30: Music.

AFTERNOON SESSION

1: Grand Opers, Carmen (Bizet). Act IL (See Programme, January 9, for details of cast.) 3.0: Something Old and Something New. "Two Physicians." Lin. MacDonald. 3.15: Music. 3.30: Some Aspects of Contemporary Literature. Brune Frank. C.M.A. Hamer. 3.45: Music 4.15: Contract Bridge, Problems and Play. Discussed by Wyn. Fraser. 4.30: Music. 5.30: Weather and Shipping. 5.45: Close.

EVENING SESSION

6.15: Dinner Music. 7.30: Greenroom Mem-ories. Revived and Illustrated by "Thes-pian." 7.45: Music.

9.46: CONCERT ORCHESTRA— Favorite Melodies from "Sally" 9.55: WIRELESS CHORUS and CONCERT OR-CHESTRA— Memories of the Sea.

10.15: NEWS. 10.30: CLOSE.

4446

SYDNEY. 395 Metres

EARLY MORNING SESSION

(Relayed to 4RK.) .30: The Chimes and music. 7,34: Weather data from the Commonwealth Weather Bureau. Cable news (copyright): Australian Press Association and "Sun"-"Herald" News Service, Ltd. First general news from "The Daily Mail." Comments on news. British Official Wireless News. What's on to-day. Features from the radio programmes. Stumps drawn scores. 8.0: Music. 8.30: Close.

MORNING AND MIDDAY SESSION

(11.0 a.m. to 2.0 p.m.)

(Relayed to 4RK except from 11.23 to 11.30.) (Relayed to 4RK except from 11.23 to 11.30.)
11.0: The Daily Broadcast Service. 11.10: The
Morning Musicale. 11.23: Social notes from
the metropolitan daily newspapers. 11.30:
Music by the Carlton Cabaret performers.
11.40: "What Women Are Wearing," by Margaret Burns. 11.55: What's on to-day. 12.0:
The City Hall Chimes. 12.1: A programme of
popular numbers. 12.30: Traders' demonstration music. 1.0: Market reports, weather
data, second general news from "The Daily
Mail." British Official Wireless News. 1.30:
Luncheon music by "The Celeste Quartette."
2.0: Close.

AFTERNOON SESSION

(Relayed to 4RK)

3.0: A programme of Gems from the Operas. 4.30: Close.

EARLY EVENING SESSION

(8.0 p.m. to 8.0 p.m.)

(Relayed to 4RK except from 6.20 to 6.30.)

6.0: For the children—"Uncle Ben returns from Cracow." 6.20: Shipping news; train information; mall notices. 6.30: Early dinner music. 6.45: Late market reports; general commercial news; late weather data. 7.0: The fortnightly talk arranged by the Australian Dental Association. 7.10: Late dinner music. 7.23: First general news from "The Daily Standard." 7.30: A talk arranged by the Department of Agriculture and Stock—"Poultry Culling." by Mr. J. J. McLachlan (Poultry Inspector). 7.45: General sporting news. 7.59: Eastern Australian Standard Time Signals.

NIGHT SESSION

(Relayed to 4RK.)

(Relayed to 4RK.)

8.0: THE AUSTRALIAN BROADCASTING COMMISSION'S FIRST NEW YEAR COMMUNITY SONG CONCERT, from THE IPS-WICH TOWN HALL.

CONDUCTED YEAR OF THE TOWN TRUDA (Violinist)

MAY JORDAN (Soprano)

WILL DUTTON (Popular Songs)

and

STEVE BAKER

"Fucia"

(Comedian)

THE IPSWICH VICE-REGAL BAND (Conductor, J. W. Burgemeister)

Will play throughout the evening.

10.15; FINAL NEWS BULLETIN-Weather data:
Cable news (copyright): "Sun"-"Herald"
Naws Service, Ltd., and Australian Press Association; second general news from "The Dally Standard": British Official Wireless News; "Queenslander" news.

10.30: DANCE MUSIC-Dance music from the Studio.

Studio. 11.0: Close.

(5CL for Tuesday will be found on page 48)





WEDNESDAY . . JANUARY 11

8.0-NATIONAL PROGRAMME From 3LO, 2CO, 2FC, 2NC, 4QG, 4RK, 5CL, 5CK-8.0







Violet Somerset.

Percy Code discussing this programme with Roy Shepherd.

Featuring the A.B.C. SYMPHONY ORCHESTRA Conducted by Percy Code

PART ONE

POPULAR MASTERPIECES ORCHESTRA

Overture, The Magic Flute .. Mozart Hornpipe Louis Lavater Intermezzo in A Louis Lavater

Two compositions of Mr. Louis Lavater, well-known Melbourne musician. Mr. Lavater has been examiner for the Musical Society of Victoria since 1915.

VIOLET SOMERSET (Contralto) Ships of Arcady Michael Head The Little Winding Road .. Ronald Forest Lullaby Bagnon

A soprano of high standing in Melbourne is Miss Violet Somerset, who has travelled, studied, and sung in different parts of the world. Born in Melbourne, she received her first instruction in the art of singing from the late Rudolph Himmer, tenor star in his day. She appeared on the concert platform with great success, and afterwards left for England. Here she studied interpretation of songs from the recognised best English master, Mr. Plunket Greene, a bartione and musician of high standing. Subsequently she took lessons in interpretation in Paris and also in Berlin. Returning to Australia she was highly successful on the concert platform. She also sang in "The Messiah" on several occasions with the Philharmonic Society. Invited to Honolulu to conduct concerts, Miss Somerset's efforts were attended with great success, and she was congratulated by the American Governor of Honolulu on the excellent conduct of the concerts.

ORCHESTRA

Two Slavonic Dances Dvorak

"Slavonic Dances" were composed by the great Bohemian composer, Antonin Dvorek. He studied music at Prague, He played the viola, and acted as deputy-conductor of an orchestra. His music was practically unknown in Englayd in 1883, but in that year the English musician. Sit Joseph Barnaby, produced his "Stabat Mater." the performance of which created a remarkable impression, and subsequently Dvorak conducted orchestras in England, and was later appointed director of the National Conservatory of Music in New York, but after six years resigned the post to become director of music at Prague. Among his many compositions was the inevitable "Humoresque."

ROY SHEPHERD

A Short Pianoforte Recital

The young and much-travelled pianist, Mr. Roy Shepherd, at the moment on four as soloist and accompanist for Mr. John Brownlee, but will return to Melbourne to play

with the orchestra a Concerto by Haydn, and also give a short recital. Mr. Shepherd is one of the leading pianists in Australia. He is only 24 years of age. He won the Clarke Scholarship at the University Conservatorium, studied for three years at the Royal Academy of Music (London), spent two years in Paris, where he was a pupil of that great master, alfred Cortot. He also studied under Harold Samuel, the noted Bach exponent, and Herbert Fiyer, famous as an interpreter of music, and other prominent teachers.

ORCHESTRA

Chanson de Nuit Elgar Pomp and Circumstance, No. 1, in D

8.50 INTERVAL

9.0 PART TWO OF ORCHESTRAL CONCERT

THE A.B.C. (MELBOURNE) SYM-PHONY ORCHESTRA

Enigma Variations, Op. 36 ., Elgar

Enigma Variations, Op. 36 ., Elgar

"The Enigmat" was first performed at one of
Hans Richter's cancerts in London, on the 19th
June, 1899, and the first performance in the
United States was given by the Chicago Orchestra on the 3rd January, 1902. Eigar's own explanation is of interest. "It is true," he says,
"that I have sketched, for their amusement and
mine, the idiosyncrasies of fourteen of my
frends, not necessarily musicians. A short
introductory passage of seventeen bars presents
the theme, which is performed by the strings.
Its mood is that of friendship. The first variation represents Lady Eigar, whose firm faith in
my tasent so heiped me during my early
struggles. The music contains her enthusiasm
and high ideals, and is full of inspiration.
Variation two is of a light character, but No.
3 refers to a friend who stammered slightly,
and made little pauses in his sentences. The
feurth variation indicates a boisterous and
threezy friend, who has the misfortune to be
rather clumsy. He invariably knocks over
chairs and tables when visiting, and then,
getting confused and angry at his own clumsiness, leaves abruptly, banging the door angrily
behind him. A philosopher is the subject of
the fifth variation. He is a friend of mine,
and has a strange falsetto laugh. He goes off
into peals of high falsetto laughter, and I have
often wondered why a man with so peculiar
a laugh is a philosopher. A lady friend of
mine, an enthusiastic viola player, gave me
the idea of writing the sixth variation. This
lady has a stiff right arm, and always has difficulty when playing in getting from the lowest
string on to the higher one. She makes a
pause, and then gets on to the high string with
an audible jerk. You will hear the jerk played
by the viola. Then there is a friend who
leves to play the organ, and he certainly plays
and stamps his feet on the pedals. This effort
is played by the tympani. The ways of three

old maiden ladies, who live in a dreadful country cottage, have been put to music for No. 8. A friend passionately fond of playing Brahms is the subject of No. 9. A sunny natured woman, who giggles a great deal, No. 10, and all the instruments in the orchestra giggle in this number. My bulldog and his barking is the 11th variation, and the horns have to do the lith variation, and the horns have to do the barking. Represented in the 12th variation is a celebrated 'cello player, and there is a lovely 'cello solo in it. The 13th is set to a visit to a wharf at Plymouth, where a friend leaves for America. The faint thudding of the propellers as the steamer sails away is heard. The last variation refers to myself, and I paint in tone my own struggles, my doubts and fears, my hard striving to attain the ideal I had set myself, and also my battle for recognition and fame. I end it with the feeling of victory."

ROY SHEPHERD (Pianist)

Concerto Haydn VIOLET SOMERSET (Contralto)

Che Faro, from Orfeo ed Eurodice 6

With Orchestral Accompaniment ORCHESTRA

Tone Poem, Finlandia Sibelius

The symphonic poem "Finlandia" was composed by Sibelius in 1894, and is supposed to record the impressions of an exile's return to home after a long absence. The work is a remarkable tone picture of the intense national spirit of the hardy Finlander, and when first performed at Helsingfors it is said to have aroused the audience to such a frenzy of enthusiasm that future performances were prohibited by the Russian Government for fear of their creating anti-Russian demonstrations.

10.0 AN ANTHOLOGY OF MODERN

FRANK D. CLEWLOW

10.15 A MUSICAL INTERLUDE

10.30 FROM THE STUDIO (SYDNEY) Late Official Weather Forecast

10.32 LATEST DANCE MUSIC (r.)

11.0 (Completion of Relay to 2NC Newcastle)

11.30 CLOSE

(Completion of Relay to 2NC, Newcastle.)
MR. TOM STUART GURR
"THE CRISIS IN INDIA."

7.5: (Relayed to ENC, Newcastle) A.B.C. Sporting Service. 7.15: Weather Report, Stock Exchange, Wool Sales, Wheat Markets, Truck Bookings, General Market Reports.

7.45: News Service from "The Sun," Additional News from the A.B.C. Service. Cables (Copyright) from the Sun-Herald and Australian Press Association News Service. Wireless News from the British Official Service.

EVENING PROGRAMME

(See panel on previous page)

8.15: G.P.O. Chimes. A Musical Interlude (r.).

J.10: Studio Music (r.),
J.35: THE AUSTRALIAN WOMEN'S RADIO
ASSOCIATION SESSION—Conducted by Miss
Gwen Varley. "A Call to Action," by Miss
I. R. Stenning. A Talk on "Interior Decoration," by Miss Yolande Proctor.

MID-DAY SESSION

2.0: G.P.O. Chimes and Announcements. Metropolitan Forecast and Weather Synopsis.

12.30: LUNCH-HOUR MUSIC.
NOTE.—Race Results will be transmitted as

0: Afternoon News from the "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

8.40: Meteorological Data for the Country.

8.45: Mails and Shipping Information.

9.30: Melodies Grave and Gay (r.), 9.40: British Official Wireless Press,

10.5: News from the "Daily Telegraph." 10.8: Cables (Copyright) from the Sun-Herald and Australian Press Association News Ser-vice.

SYDNEY.

SESSION

351 Metres

6.45: "Sleep Tight."

7.58: To-night's Programme,

OPENING

8.50: Memory Melodies (r.)

9.45. Moments Musical (r.).

10.10: Studio Music (r.).

12.2. Studio Music (r.).

1.11. Radio Rhythm (r.). 1.35: Studio Music (r.).

11.0: G.P.O. Chimes. CLOSE.

9.0: THIS MORNING'S STORY.

WEDNESDAY, Jan. 11 (Con.)

8.0-ALTERNATIVE PROGRAMME FROM 2BL-8.0

8.0 THE A.B.C. MUSICAL REVUE COMPANY

presents

MISS PARIS IN SYDNEY Featuring

MLLE. TISHA GUILLE as MISS PARIS

and

PHIL SMITH as MR. SYDNEY

(A Humphrey Bishop Production) Miss Paris comes to town, and is received by Mr. Sydney, who shows her

the sights and initiates her into the life, mysteries, and gaiety of this fair city

9.0 Late Weather Forecast

9.2 SCANDAL By

COSMO HAMILTON CAST

PELHAM FRANKLIN .. Eric Masters MALCOLM FRAZER .. John Fernside SUTHERLAND YORKE

John Warwick MAJOR BARNET THATCHER.

EARLY SESSION

(Relayed to 2NC, Newcastle.)

7.0: Big Ben. Early Rising Music (r.).
 Meteorological information for the man on the land.
 7.10: This morning's news from the "Daily Telegraph."

7.15: Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

7.30: A short daily commentary for the man outback.

8.15: CLOSE (Completion of Relay to 2NC, Newcastle).

MORNING SESSION

(Relayed to 2NC, Newcastle, from 10.40 a.m.)

10,32: G. VERN BARNETT AT THE STUDIO

ORGAN:
Allegro Final Rendid
Reverie in A Faulkes
Allegretto Grazioso Holloway
Legende Torjussin

10.45: MORNING DEVOTION: Conducted by
Rev. R. P. Gee.

Quotations.

12.5: Studio Music (r.).

12.15: Meteorological forecast and weather synopsis. Special Produce Market Session for the man on the land, supplied by the State Marketing Board.

12.30: CLOSE (Completion of Relay to 2NC, Newcastle).

NOTE: Race results will be transmitted as received.

Stock Exchange and Metal

7.18: Studio Music (r.).

7.40: Radio Rhythm (r.).

7.45: Mails and Shipping. 7.48: What is on to-day?

10.30: Announcements.

11.15: Musical Items (r.).

12.0: Big Ben. Quotations.

11.50: British Official Wireless News.

7.50: Music from the Studio (r.).

Herbert Leigh

SYDNEY.

451 Metres

PEWSEY John Bevan

MRS. HENRY VANDERDYKE, Loris Bingham

MISS HONORIA VANDERDYKE,

Winitred Green MRS. BROWN Edith Cowley

REGINA WATERHOUSE.

Margaret Honey HELENE Tisha Guille ROBSON Dion Wheeler

BEATRIX VANDERDYKE.

Mary MacGregor

A big success in London and New York, and also in Australia, with Maude Hannaford as Beatrix Vanderdyke, and Frank Harvey as Pelham Franklyn, and later with Mary Mac-Gregor as Beatrix, and Leon Gordon as Franklyn.

ADAPTED AND PRODUCED BY GEORGE D. PARKER

10.2 VARIED MOMENTS MUSICAL

10.27 Late News from the "Sun"

10.30 CLOSE

THE LUNCH HOUR

1.0: LUNCH HOUR MUSIC.

1.57: Sectional Weather Forecast. 2.0: Programme Announcements.

2.2: Stock Exchange, second call.

2.10: Musical Items (r.).

THE RADIO MATINEE

(Relayed to 2NC, Newcastle.)

2.30; MELODIES OF OLDEN DAYS (r.).

2.45: PEGGY VICKERS, Soprano:
Annie Laurie Liza Lehmann
Comin' Thro' the Rye Anonymous

2.52: SIM SOLOMONS, Violinist.

3.0: MUSIC OF THE DANCE (r.). Tango-Waltz-Mazurka.

3.16: MAORI SONGS (r.).

3.22: SIM SOLOMONS, Violinist.
3.30: MR. GRAHAM KENT will speak on "BRIDGE."

3.45: ORCHESTRAL INTERLUDE (r.). 2.53: VOCAL QUARTETTES (r.).

4.0: WHAT IS NEW?

4.28: STOCK EXCHANGE, third call,

430: CLOSE.

EARLY EVENING SESSION

(Relayed to 2NC, Newcastle, from 5.45 to 6.45 and from 7.5 to 8 p.m.)

5.45: THE CHILDREN'S HOUR, conducted by "BOBBY BLUEGUM."

A STRAY SUNBEAM:

"I want to live so I can die Without one sad, regretful sigh; I want to say, when life is done—'I did my best for ev'ryone'."

"Brer Rabbit' 'and his relatives. Do you know the difference between a hare and a rabbit?

5.57: A Musical Interlude.

6.0: Fun Night with "Uncle Ted" and "Sandy." 6.15: Birthday Calls.

2.4: A Glance at the afternoon "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

AFTERNOON ENTERTAINMENT

2.30: LATEST RELEASES (r.).

1.8: Sectional Weather Forecast.

2.2: THIS AFTERNOON'S STORY.

2.0: What's on the Air This Afternoon?

45: THE AUSTRALIAN WOMEN'S RADIO AS-SOCIATION SESSION, Conducted by MISS GWEN VARLEY.

A Talk on "MYTHS AND LEGENDS OF OTHER LANDS," by PAUL FURNISS. "HINTS TO KNITTERS," by MRS. A. MAR-TIN.

4.0: FROM THE STUDIO—"LITERARY PER-SONALITIES," by "HYPATIA." 4.15: "FAMOUS SERENADES" (r.). 4.30: "GEMS FOR PIANOFORTE" (r.).

4.45: THE TRADE HOUR DEMONSTRATION MUSIC. 5.40: WEATHER INFORMATION.

5.45: CLOSE.

THE DINNER HOUR

6.15: DINNER MUSIC BY THE A.B.C. ORCHESTRA, Conducted by E. J. ROBERTS
7.30: THE UNIVERSITY EXTENSION BOARD SERIES OF LECTURES:—A Talk by MAJOR E. H. BOOTH on "The History and Development of Physics: No. 2—"Workers on the Subject of Heat; Their Experiments and Conclusions."

7.58: What's on the Air To-night?

EVENING PROGRAMME

6.30; The Serial. See above)

SYDNEY. 248 Metres

Day sessions as usual.

EARLY EVENING SESSION

5.10: CHILDREN'S SESSION, conducted by "THE FAIRY GODMOTHER."

5.45; Music. 5.88: "THE HELLO MAN."

6.40: NATIONAL SYMPHONY ORCHESTRA Sylvia Ballet Delib March and Procession of Bacchus.

NIEDZIEKSKI, Pianist— Razyski

EVENING SESSION

T.15: A SOIENCE TALK, sponsored by THE AUSTRALIAN GAS LIGHT COMPANY.
7.30: CHARLES W. SAXBY, Organist—
Spring Sons.
Bees Wedding.
7.34: ANNOUNCEMENT.
7.35: GLADYS MONCRIEFF. Soprano—
O, Dry Those Tears Del Riego
7.38: BAND OF H.M. COLDSTREAM
GUARDS—
Patience Selection.
7.45: RAIE DA COSTA, Novelty Pianist—
Selection. The Bat Strauss, arr. Grunfeld 7.53: RICHARD TAUBER, Tenor-

8.0: TO-NIGHT: "WIRELESS WEEKLY" INFORMATION SERVICE. A TALK BY THE "TECHNICAL EDITOR."

SYDNEY. 316 Metres

Day Sessions as usual.

12.0: F. J. PALMER AND SON'S PARK STREET,

> COMMUNITY SINGING AT SAVOY THEATRE,

BLIGH STREET,

SYDNEY

DIRECTED BY UNCLE GEORGE, SUPPORTED BY

LEADING ARTISTS

EVENING SESSION

EVENING SESSION

5.0: Birthday Calls and Songs by Uncle George and Bimbo.
6.45: Music.
7.0: Entertainment by Heel and Toe.
7.15: Wurlitzer Organ—Dancing Animal Crackers.
7.20: Flotsam and Jetsam—Only a Few of Us Left: The Alsatian and the Pekinese.
7.30: Address by Mr. Charlie Taylor.
7.40: Orchestra—Bal Masque.
7.45: Soprano Solo—Roses of Picardy.
7.50: String Sextette—Baby's Sweetheart; Little Toddlekins.
8.0: Berlin State Opera Orchestra—Polonaise No. 2.

Toddiekins.

8.0: Berlin State Opera Orchestra—Polonaise No. 2.

8.10: Elleen Boyd (Contralto).

8.20: Orchestra—Nell Gwyn Dances—Country Dance; Pastoral Dance; Merrymakers' Dance.

8.35: Orchestra—Marche Hongroise.

8.40: Les Herford (Baritone).

8.50: Creatore's Band—Aida—Introduction and Moorish Ballet, Act 2.

8.55: Symphony Orchestra—Chanson Hindoue;
Sleeping Beauty.
9.5: Elleen Boyd, Contraito.
9.15: Instrumental Trio—Mirage; El Relicario.
9.25: Orchestra—Toccata and Fugue.
9.35: Les Herford, Baritone.
9.45: Symphony Orchestra—Valse de Concert.
10.0: Entertainment Club Numbers.
11.0: Slumber Music.
11.26: 2GB Good-night Song.
11.30: Close down.

11.30: Close down,

SYDNEY. 267 Metres

Day Sessions as usual. 5.15: CHILDREN'S SESSION, conducted by UNCLE JACK and JILL.

5.58: MIDSHIPMAN BOB BREEZY.

6.3; DINNER MUSIC.

6.30: FARMYARD FIVE.

6.45: Request items.
8.0: A CELEBRITY PROGRAMME.
8.15: ORGANS OF THE GREAT CATHEDRALS
Lyons Cathedral—Toccata ... Boelleman
St. Paul's Cathedral—Fantasia in E.
Salisbury Cathedral—Bourei ... Handel

(d) Song—Dream in the Twilight Strauss
9.0: A DRAMATIC SKETCH.
9.30: IN LIGHTER VEIN WITH SAINT-SAENS
Orch.—Le Cygne.
Vocal—Song of the Nightingale.
Plano—Etude en forme de valse.
Orch.—Dance Macabre.
9.50: PIANO RECITAL OF CHAMINADE PIECES
BY UNA BOURNE (R.)—
(a) Pierrette.
(b) Danse Creole.
(c) Aubade.
(d) Valse Arabesque.
10.0: Selected items.

SYDNEY. 293 Metres

Day Sessions as usual. 12.30 p.m.: Description of the Races, by Mr. L. G. Melville.

EVENING SESSION

5.0: Children's Session—Auntie May and Uncle Simon. 5.40: Uncle Lionel and Ambrose, 6.30: Dinner Music, 7.30: Studio Programme, 8.0: Overture, Hungarian Rhapsody. 8.10: Music, 8.30: Popular Dance Programme, 10.0: Light Opera Selection, H.M.S. Pinafore, 10.15: Music, 10.45: Tranquillity Music, 11.0: Close down.

SYDNEY, 280 Metres

Day Sessions as usual.

EVENING SESSION

0: Conducted by John Harper and Jerry. 6.0: Children's Birthday Ses-ston. 6.30: Dinner Entertainment. 7.15: Dinner Music. 7.30: Racing Revelations, Mr. R. Naylor. 7.45: Musical Interlude. 8.1: Sponsored Programme. 8.30: Music. 10.80: Closing Announcements.

SYDNEY. 236 Metres

Day Sessions as usual.

0: Children's Session—Auntie Goodie. 5.30:
Uncle Tom. 6.1: Dinner Session. 6.45: Social
Chatter—Maria Dawson. 7.0: Bridge Talk—
Dr. McAdam. 7.15: After Dinner Entertainment. 7.45: Studio Music. 6.0: Evening
Session. 8.10: Studio Music. 10.0: Composing Music. 10.30: Close.

MELBOURNE, 375 Metres

EARLY MORNING SESSION

1: Shipping. 7.3: Physical Exercises to Music. 7.10: Morning Music. 7.37: "Brother Bill's" Pick-me-up—"Stars or Suns." 7.40 to 8.15 a.m.: As on Tuesday.

MORNING SESSION

10.30: Current Happenings in Sport, by Mel. Morris. 10.45 to 12.30 p.m.: As on Tuesday.

MIDDAY SESSION

1.0 to 2.0 p.m.: As on Tuesday.

AFTERNOON SESSION

2.0: Prevention is Better than Cure—"The Care of the Tuberculosis Patient in the Home," Sister S. Pines. 2.15: Music. 2.20: Books and Women—"Good Books at Small Cost," Mrs. J. C. Miller. During the afternoon Eric Welch will describe the Woodend Races—Bulla Hurdle Race. 2 miles and 105 yards; Maiden Plate, 5½ furlongs; Summer Handicap, 9½ furlongs; Mayfield Handicap, 5 furlongs; Novice Handicap, 6 furlongs; Hillside Highweight, 1 mile.
From 3.0 to 4.30 p.m. the Radio Matinee will be provided by "The Synchronising Six." 4.30: Close.

THE CHILDREN'S CORNER.

THE CHILDREN'S CORNER

5.45: Here comes Mr. Compton Coutts with another Topsy Turvy Talk. What's it about this time? Fishing! But it's fishing the way fish would like it! That's different, isn't it? Robin Croll, the boy who loves the bush. You'd be surprised how much he knows about snakes. He's going to tell you about them—without making you feel creegy, of course!

EVENING SESSION

6.30: COUNTRYMAN'S SESSION.
7.2: ALL SPORTING RESULTS.
7.21: MR. PETER MCALISTER will speak on "Cricket."
7.31: Results of Women's Sports.
7.35: British Official Wireless News.
7.45: FRENCH—MADAME SOWARD.

NIGHT SESSION

8.0: A.B.C. (MELBOURNE) SYMPHONY OR-CHESTRA. (See 2FC Programme.)
10.0: AN ANTHOLOGY OF MODERN VERSE— FRANK D. CLEWLOW.
10.15: INTERLUDE.
10.30: WEATHER. Etc.
10.33: DANCE MUSIC by WIRELESS DANCE ORCHESTRA.
11.30: Close.

MELBOURNE, 492 Metres

MORNING SESSION

8.15: Thirty Minutes' Melody. 8.45: Weather. 8.50: Music. 9.1: News. 9.5: Music. 9.17: Weather. 9.18: Music. 9.21: Radio Serial. "Cleansing Fires," by Arthur Russell. Read by "Scribe." 9.36: Music. 10.1: British Official Wireless News. 10.15': Music. 10.36: Selections on the Grand Organ. 10.45: The Daily Broadcast Service. 11.0: Close.

MIDDAY SESSION

2.1: Music. 12.15; Little-known Lands and Their Peoples. "Sarawak" Captain J. E. Seaton. 12.30; Music. 1.15; At Home and Abroad. by "The Watchman." 1.30; Music.

AFTERNOON SESSION

1: Grand Opera, Carmen (Biset). Acts III. and IV. (See Programme, January 9, for details of Cast.) 3.0: Editorials that Might Have Been. 4. "The Romans Evacuate Britain." 3.45: Cameos from the Classles, "Sir Walter Scott" (Lord Dufferin). J. Howlett Ross. 4.0: Music. 5.30: Weather and Shipping. 5,45 Close.

EVENING SESSION

6.15: Dinner Music. 7.30; A Musician's Birthday Album. Compiled and Musically Illustrated by George Findlay, Mus. Bac. 7.45:

NIGHT SESSION

8.0: TALES OF TERROR TACTFULLY RETOLD.
Old-time Tales for the Young. J. P. CAINE.
8.20: WIRELESS DANCE ORCHESTRA—
Fox-trot.

ANN HARVEY, Mezzo-Soprano-Ma Curly Headed Baby Clutsam WIRELESS DANCE ORCHESTRA-

Waltz. ANDERSEN, Entertainer—
A Little Farce: Shot Out Andersen
WIRELESS DANCE ORCHESTRA—

Fox-trot. ANN HARVEY, Mezzo-Soprano-I Know ... Spross

Waltz. ANDERSEN, Entertainer—
A Comic Tit-bit: When Unde Sings the
Only Song He Knows ... Jackson
WIRELESS DANCE ORCHESTRA—
Fox-trot.





ANN HARVEY, Mezzo-Soprano—
Don't Cross My Wall Scott
WIRELESS DANCE ORCHESTRA— Fox-trot. JAMES RILEY, Tenor-

Serenata Tozelli WIRELESS DANCE ORCHESTRA-

Waltz.
AUSTIN ANDERSEN, Entertainer—
Humorous Sketch: The Competition,
Andersen
WIRELESS DANCE ORCHESTRA—

BRISBANE, 395 Metres

EARLY MORNING SESSION

(Relayed to 4RK.)

(Relayed to 4RK.)

30: The Chimes and music. 7.34: Weather data from the Commonwealth Weather Bureau. Cable news (copyright); Australian Press Association and "Sun"-"Heraid" News Service, Ltd. First general news from the "Courier." Comments on news. British Official Wireless News. What's on to-day. Features from the radio programmes. 8.0: Music. 8.30: Close.

MORNING, MIDDAY, AND AFTER-NOON SESSION

(Relayed to 4RK except from 11.23 to 11.30.)

11.0: The Daily Broadcast Service. 11.10: The
Morning Musicale. 11.23: Social notes from
the mertopolitan daily newspapers. 11.30:
Musical interlude. 11.40: A Literary Talk—
"Charlotte Bronte and Her Noveis," by Miss
Mary Sydes. 11.55: What's on to-day. 12.0:
The City Hall Chimes. 12.1: Midday music.
1.0: Market reports, weather data, second
general news from the "Courier." British
Official Wireless News. 1.20: Late luncheon
music from the Carlton Cabaret. Metropolitan Races—The metropolitan races will
be described during the afternoon. Between
events musical items by "The Celeste Quartette" will be broadcast from the studio.
5.0: Close.

EARLY EVENING SECOND

EARLY EVENING SESSION

(Relayed to 4RK execpt from 6.20 to 6.30.) 0: For the children—"A treat in a farm," by "Bebe" and "Bunty." 6.20: Shipping

news; train information; mail notices. 6.30: Early dinner music 6.45: Late market reports. General commercial news. Late weather data. 7.0: Late dinner music 7.23: First general news from the "Telegraph." 7.20: A Talk—"Sunny Queensland—Dalby and the Bunya Mountains," by Mr. M. J. Kirwan (Queensland Government Tourist Bureau). 7.45: General sporting, including a swimming talk by Norman Burns. 7.59: Eastern Australian Standard Time Signals.

NIGHT SESSION

(Relayed to 4RK.)

(Relayed to 4RK.)

10.15: FINAL NEWS BULLETIN—Weather data; cable news (copyright); "Sun"-"Horald" News Service, Ltd., and Australian Press Association; second general news from the "Telegraph." British Official Wireless News.

10.30: BERT TUCKFR AND HIS CARLTON OR-CHESTRA—Dance music,

11.0: Close.

ADELAIDE, 411 Metres

EARLY MORNING SESSION

30: News. Special weather forecast. 7.40: Music. 8.1: Shipping, Mail, Train, Weather and Market Reports. 8.10: Music. 8.30:

MORNING AND MIDDAY SESSION

11.0: Dally Broadcast Service. 11.28: Sporting fixtures. 11.30: Homecrafts, by "Economist." 11.45: Latest Recordings. 12.15: Stock Exchange. 12.19: News Service. 12.50: Weather, Grain, and River Reports. 1.0: Music. 1.15: News Items. 1.20: Music. 1.59: Woodend Race Results. 2.0: Close.

AFTERNOON SESSION

3.0: Woodend Race Results. 3.2: Weekly Talk under the auspices of the Housewives' Association. 3.15: Matinee Programme. 4.15: A.B.C. Bridge Club, conducted by "No Trump." 4.30: Close.

EVENING SESSION

5.50: Woodend Race Results.
5.55: Birthday Greetings.
6.0: "Miss Wireless" and "Big Brother."
6.20: CHILDREN'S HOSPITAL SENIOR BIRTH-DAY LEAGUE.
6.22: DINNER MUSIC.

6.50: Stock Exchange.
7.0: News Service.
7.5: Sporting Service, including Woodend Race Results.
7.10: The 5CL Bluebird Girls' Club.

NIGHT SESSION

7.30: AN ORCHESTRAL CONCERT FROM MELBOURNE.
10.15: NEWS SESSION.
10.20: MODERN DANCE MUSIC.
11.0: Close.

Tuesday's Programme

(Continued From Page 43)

ADELAIDE. 411 Metres

EARLY MORNING SESSION

7.30: News. Weather Forecast. 7.40: Music. 8.1: Shipping, Mail, Train, Weather, and Market Reports. 8.10: Music. 8.30: Close down.

MORNING AND MIDDAY SESSION

MORNING AND MILLORY SERVICE. 11.28: Sporting Pixtures. 11.30: The New Idea Club, by "Sister Sue" and "Betty Blue." 11.45: Latest Recordings. 12.1: Music. 12.15: Stock Exchange. 12.19: News Service. 12.50: Weather, Grain, and River Reports. 1.0: Music. 1.5: News Items. 1.15: Music. 2.0: Close down.

AFTERNOON SESSION

3.0: Matinee Programme. 3.30: Cameo Classics, a talk, by Mr. H. Brewster-Jones. 3.45: Radio Matinee (continued). 4.30: Close down.

5.50: Birthday Greetings. 6.0: "The Wattle Lady" and "Big Brother." 6.22: Dinner Music. 6.50: Official Stock Exchange. 7.0: News Service. 7.5: Sporting Service. 7.20: Music.

7.30: A NATIONAL PROGRAMME from 2FO, SYDNEY.
10.15: News Session, 10.20: Dance Music, 11.0; Close down.

THURSDAY JANUARY 12

8.0—NATIONAL PROGRAMME From 2FC, 2NC, 3LO and 2CO,—TO-NIGHT, 8.0

Company of the Compan
8.0 THE A.B.C. MILITARY BAND, conducted by J. PHELOUNG Overture, Oberon Weber
THE A.B.C. RADIO CHOIR, conducted by G. VERN BARNETT Give Ear, O Lord Oberthur Rolling Down to Rio German The Parting Kiss Pinsuti
BAND Pot-pourri, Classical Memories Ewing
MAISIE REID AND KATIE CORN- FORD, in a Two-Pianoforte Recital

FORD, in a Two-Pianof	forte Recital
Variations on Chorale	(St. Anthony
ALL AND THE STATE OF	Haydn-Brahm.
BESSIE BLAKE (Sopra	ano)
The King of Thule Re	llad

BES	SIE B	LA	KE (So	pra	no)
The	King	of	Thu	le,	Bal	lad
The	Jewel	S	ong			
Fr	om F	us	t			

. Gounod 8.50 EDWARD HOWELL AND THER-

ESE DESMOND Will continue their series of

GREAT LOVE STORIES

9.5 BAND

Naval Patrol, Britain's First Line

Valse de Concert Mattei



The A.B.C. MILITARY BAND And the A.B.C. CHOIR

CHOIR

Dream, Baby, Dream	**		Baynon
Mariners of England		13.90	Pointer
When Soft Music Di	es	150	Jenkins

MAISIE REID AND KATIE CORN-FORD, in a Two-Pianoforte Group

Romance Rachmaninoff Waltz Rachmaninoff

BESSIE BLAKE

O Luce di Quest'anima .. Donizetti Porgi Amor Mozart

BAND

Selection, Sybil Jacobi

10.0 LATEST DANCE MUSIC (Completion of Relay to National Stations)

10.30 Late Official Weather Forecast

10.32 FROM THE HOTEL AUSTRA-LIA. Dance Music

11.0 (Completion of Relay to 2NC Newcastle)

11.30 CLOSE

ALTERNATIVE PROGRAMME OVERLEAF—DAY SCHEDULES BEGIN BELOW

SYDNEY. 451 Metres

EARLY SESSION

(Relayed to 2NC, Newcastle.)

Big Ben. Early Rising Music (r.). Metocrological information for the man on the land.

the land.
7.10: This morning's news from the "Daily Telegraph" and "Labor Daily."
7.15: Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.
7.18: Studio Music (r.).
7.30: A short daily commentary for the man outback.
7.40: Radio Rhythm (r.).
7.45: Mails and Shipping.
7.48: What is on to-day?
7.50: Music from the Studio (r.).
8.15: CLOSE (Completion of Relay to 2NC, Newcastle).

MORNING SESSION

(Relayed to 2NC, Newcastle, from 10.40 a.m.)

THE LUNCH HOUR

1.6: LUNCH HOUR MUSIC. 1.57: Sectional Weather Forecast. 2.0: Programme Announcements.

2.2: Stock Exchange, second call.

2.4: A Glance at the afternoon "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.
2.10: To-day's acceptances, by the A.B.C. Racing Observer—M. A. FERRY.
2.25: Musical Item (r.).

THE RADIO MATINEE

(Relayed to 2NC, Newcastle, from 2.30 to 4.30 p.m.)

4.30 p.m.)

2.30: GEORGE TAYLOR'S TRIO:
Prelude to Fourth Act, "Carmen" . Bizet
Berceuse de Jocelyn . Godard
Laughing Eyes . Finck

2.40: DOT BROWNE, Popular Vocalist:
Sally . Towers
Just Friends . Lewis-Klenner

2.47: ORGAN SOLOS (r.).
2.56: A CHORAL INTERLUDE (r.).
3.0: GEORGE TAYLOR'S TRIO:
Simple Aveu . Amadei
Extase . Ganne

Myano Amqdei

2.10: DOT BROWNE, Popular Vocalist:
You are My Heart's Delight Lehar
Shanty in Old Shanty Town Little
Paradise PIANO SOLOS (r.).
2.22: AN ORCHESTRAL INTERLUDE (r.).
3.30: "TALES OF HIS MAJESTY'S INDIAN
SECRET SERVICE."
Told by Mr. LEO. STARK
3.45: GEORGE TAYLOR'S TRIO:
Valse—Bitter Sweet Carissima Elgar
Second Movement, Ballet Egyptian
3.55: A BAND SELECTION (r.).
4.31: GEMS FROM OPERA (r.).
4.21: "CELLO SOLOS (r.).
4.22: A BAND INTERLUDE (r.).
4.23: A BAND INTERLUDE (r.).
4.24: Stock Exchange, third call.
4.30: CLOSE.

EARLY EVENING.

EARLY EVENING SESSION

(Relayed to 2NC, Newcastle, from 5.45 to 6.45 and from 7.5 to 8 p.m.)

5.45: THE CHILDREN'S HOUR, conducted by "BOBBY BLUEGUM."

A STRAY SUNBEAM:
"When you long for all the pleasures
Which the wealthy folk may buy,
Look around you. There are treasures
You will find, if you but try."

7: CLUB NIGHT! There is something special for to-night; be sure and listen in. BE A SUNSHINE SOLDIER!

6.0: Have You a Dog? Let it join the "Tail Waggers Club." Entries received at once. Listen for Details.

6.15: Many happy returns of the day.
6.30: Do You Like the New Serial?
6.45: Sizep Tight."
(Completion of Relay to 2NG, Newcastle.)
"DENTAL PAIN."

A Talk arranged by the Chairman of the Dental Heath Education Committee Australian Dental Association, New South Wales Branch

: A Talk arranged by the Electrical Con-tractors and Electricians' Licensing Board of New South Wales.

of New South Wales.
7.5: (Relayed to 2NC, Newcastle) A.B.C. Sporting Service.
7.15: Weather Report, Stock Exchange, Wool Sales, Wheat Markets, Homebush Markets, Truck Bookings, General Market Reports.
7.45: News Service from "The Sun." Additional News from the A.B.C. Service. Cables (Copyright) from the Sun-Herald and Australian Press Association News Service. Wireless News from the British Official Service.

Service. To-night's Programme.

EVENING PROGRAMME

(See above)

SYDNEY. 351 Metres

OPENING SESSION

OPENING SESSION

8.15: G.P.O. Chimes. A Musical Interlude (r.).

8.40: Meteorological Data for the Country.

8.45: Mails and Shipping Information.

8.50: Memory Melodies (r.).

9.0: THIS MORNING'S STORY.

9.30: Melodies Grave and Gay (r).

9.40: British Official Wireless Press.

9.45: Moments Musical (r.).

10.5: News from the "Daily Telegraph" and the "Labor Daily."

10.8: Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.

vice.
10.10: Studio Music (r.).
10.35: THE AUSTRALIAN WOMEN'S RADIO
ASSOCIATION—Conducted by Miss Gwed

7.52: PETER DAWSON, Baritone—
Bedouin Love Song Pinsuti
7.55: ANNOUNCEMENT.

EVENING SESSION

THURSDAY, January 12 (Con.)

1110102111, 90		8 0. POT POTERT	OF MUSICAL COMEDY-
8.0—ALTERNATIVE PROC	GRAMME FROM 2BL—8.0	A Country Girl 8.6: REGAL CINEM	RE ORCHESTRA— Monekton A ORCHESTRA—
8.0 UNIVERSITY EXTENSION BOARD SERIES OF LECTURES PROFESSOR R. D. WATT will tell listeners about THE WONDERS OF THE SOIL—No. 2, The Structure and Physical Properties of the Soil 8.30 THE MEXICANO BAND Santiago, Waltz	9.15 THE PROPOSALS OF PEGGY No. 4. Announcing Her Engagement Featuring VICTOR GOURIET and BRENDA GRAY 9.20 LIONEL HICKEY From the Canebrake Gardner Valsette Carreno Serenade Heykens	And MARTY WIGHTS Gypsy Princess. 8.30: TRADITIONAL MANSFIELD, sung and MALE CHORU My Bonnie, Dov and His Dinah, 8.36: DE GROOT Al CHESTRA— Cavalleria Rustic 8.44: MAREK WEBE	wn in Demerara, Villikin Some Folks Like to Sigh. ND THE PICCADILLY OR- cana. R AND HIS ORCHESTRA—
8.40 THE ELLICE VOCAL QUARTET Smilin' Through	9.27 QUARTET Songs of the Evening Parting Otto When You Come to the End of the Day Smith When Evening's Twilight . Hatter 9.34 BAND Spanish Caprice Jottre Paquito Nathan 9.45 THE PROPOSALS OF PEGGY No. 5, The Wild Oat	9.3: MODERN MELC GEORGE OLSEN The Moon is Lo 9.6: JOHN BROWNI What the Red ! 9.9: NAT SHILKRET Who Cares What 9.12: PAUL WHITE Miss Annabelle 9.15: THIRD NEWS 10.0: Musical Items	Dry— AND HIS MUSIC— W. LEE, Baritone— Iair'd Bosun Said, Harrhy T AND HIS ORCHESTRA— Y You've Been Wolfy MAN'S RHYTHM BCYS— Lee Claire-Pollack AND COMMENTARY. BY MR. ROY SCOTTER— SAders' Movement
(Up-to-date Verses by Victor Gouriet) Germs Burt and Atwell	Featuring VICTOR GOURIET and BRENDA GRAY 9.50 BAND	2GB	SYDNEY, 316 Metres
9.0 Late Weather Forecast	Tango Mexicano Cupua		G SESSION
9.2 BAND Espagnole Serenade	10.0 THE FAMILY PHYSICIAN, by our Duly Qualified Medical Practi- tioner	6.45: Boys' Birthday Davis.	nd Songs by Uncle George Club. Talk by Mr. J. Gil Dech and Piano.
9.8 THE ELLICE VOCAL QUARTET Three Nursery Rhymes Old Mother Hubbard Wheeler Simple Simon Macey Mary Had a Little Lamb Wheeler	10.15 LATEST DANCE MUSIC (r.) 10.27 Late News from the "Sun" 10.30 CLOSE	7.20: Alfredo Rode, Goblins. 7.25: 2GB String Oct 7.35: Maurice Chevali Till You See Ma Clouds Away.	Violinist—Dance of the ette. ler, baritone—Louise; Wait Cheerie; Sweeping the
2BL—Continued	2CH SYDNEY, 248 Metres	7.50: Novelty Orches Bagatelle, 8.0: 2GB String Oct. 8.10: Senia Chostiak 8.15: Cricket Talk, b 8.30: 2GB String Oc	tra—Ginger Snaps; Danse et. off, Russian Tenor. y Mr. M. A. Noble.
Varley. "Understanding your Child," by Miss Gwen Varley. "Floral Decorations," by Miss Stella Fawcett. 11.0: G.P.O. Chimes, CLOSE. MID-DAY SESSION 12.0: G.P.O. Chimes and Announcements, Metropolitan Forecast and Weather Synopsis. 12.2: Studio Music (r.). 12.30: LUNCH-HOUR MUSIC. 10: Afternoon News from the "Sun." Cables (Copyright) from the Sun-Herald and Australian Press Association News Service.	Day sessions as usual. TO-DAY AT 3.30: "WOMAN'S BUDGET" HALF-HOUR, CONDUCTED BY CONSTANCE ROBERTSON (Editor of "The Woman's Budget"). EARLY EVENING SESSION 5.10: CHILDREN'S SESSION, conducted by "THE FAIRY GODMOTHER." 5.45: Music. 5.55: "THE HELLO MAN." 6.40: ALBERT W KETELBEY'S CONCERT OR-		lestra—Narcissus, wo Little Finches, lette. f. Russian Tenor. hestra—L'apprenti Sorcier. Fiesta. tette. tch—In the Sudan. e and Len Maurice. dete. Music,
1.8: Sectional Weather Forecast. 1.11: Radio Rhythm (r.). 1.35: Studio Music (r.). 2.0: What's on the Air This Afternoon? 2.2: THIS AFTERNOON'S STORY.	CHESTRA— Three Fanciful Etchings Ketelbey 6.48: BLACK DIAMONDS BAND— The Gypsy Dance. 51: ERICA MORINI. Violinist—	2UW Day Sessions as us	SYDNEY, 267 Metres
AFTERNOON ENTERTAINMENT 2.30: "SALON MUSIC" (r.). 2.45: FAMOUS LIEDER (r.). 3.0: "THE DANSANT"—Dance Music (r.). 3.9: A Song by Jeanette MacDonald (r.). 3.12: Dance Music (r.). 3.21: A Baritone Solo by Peter Dawson (r.). 3.24: Dance Music (r.). 3.32: A Popular Song by George Sorlie (r.). 3.36: Dance Music (r.). 3.45: A Humorous Interlude (r.). 3.51: Dance Music (r.). 4.0: "BOOK REVIEWS." by the "BOOKMAN." 4.0: FIFTEEN MINUTES WITH RUDOLF FRIML (r.). 4.35: "MUSIC OF THE MOMENT" (r.). 4.45: THE TRADE HOUR DEMONSTRATION MUSIC (r.). 5.40: Weather Information. 5.45: CLOSE. THE DINNER HOUR 6.15: DINNER MUSIC. 7.45: Musical Items (r.). 7.58: What's on the Air To-night? EVENING PROGRAMME	Gypsy Serenade 6.54: ANNOUNCEMENT. 6.55: PETER DAWSON, Baritone— On the Road to Mandalay. 6.59: REGAL CINEMA ORCHESTRA— Broadway Selection 7.7: WILHELM BACKHAUS, Pianist— Naila Valse 7.11: ANNETTE BLACKWELL, Soprano— (a) A Farmer's Son So Sweet. (b) As I Sat on a Sunny Bank, 7.15: PATTMAN, Organist— Valse Triste 7.19: J. H. SQUIRE CELESTE OCTETTE— Serenade 7.23: ANNOUNCEMENT. 7.24: B. B. C. WIRELESS CHORUS AND OR- CHESTRA— Wine, Women, and Song Strauss 7.32: ANNOUNCEMENT. 7.33: BLACK DIAMONDS BAND— L'Africana Prelude Meyerbeer 7.36: MARK HAMBOURG, Pianist— Waltz in A Flat Chopin 7.40: AMELITA GALLI CURCI, Soprano— La Vilanelle, 7.43: HERMAN FINCK AND HIS ORCHES- TRA— Schubertiana.	S.SE. MIDSHIPMAN IS. SE. MIDSHIPMAN IS. SE. MUSICAL PROGRAMS. 7.0: TO-DAY'S TEN. TO-DAY'S TO-DA	BOB BREEZY, in mme. in mme. in mme. in mme. in product of the
(See above)	7.51: ANNOUNCEMENT.	10.30: Close down,	

SYDNEY, 293 Metres

Day Sessions as usual.

EVENING SESSION

0: Children's Session—Auntie May and Uncle Simon. 5.40; Uncle Lionel and Ambrose. 6.30: Dinner Music. 7.30: Sporting Talk by Mr. Oscar Lind. 7.45: McLean of Scotland Yard. 8.0: Overture. Stradella. 8.10: Studio Pro-gramme. 10.0: Light Opera Selection, Floro-dora. 10.15: Music. 10.45: Tranquility Music. 11.0: Close down.

SYDNEY. 280 Metres

Day Sessions as usual.

EVENING SESSION

5.0: Conducted by Uncle John and Jerry. 6.0 Birthday Session. 6.30: Dinner Entertain-ment. 7.15: Dinner Music. 8.1: Music. 10.30: Closing Announcements.

SYDNEY. 236 Metres

Day Sessions as usual.

5.0: Children's Session—Auntie Goodle. 5.30: Uncle Tom. 6.1: Dinner Session. 6.45: Social Chatter—Marla Dawson. 7.15: After Dinner Entertainment, 7.45: Studio Music. 8.0: Evening Session. 8.10: Studio Music. 10.0: Composing Music. 10.30: Close.

MELBOURNE, 375 Metres

EARLY MORNING SESSION

7.1: Shipping. 7.3: Physical Exercises to Music. 7.10: Morning Music. 7.37: "Brother Bill's" Pick-me-up—"Take it like a Man." 7.40 to 8.15 a.m.: As on Tuesday.

MORNING SESSION

10.30: Current Happenings in Sport, by Eric Welch. 10.45 to 12.30 p.m.: As on Tuesday.

MIDDAY SESSION

1.0 to 2.0 p.m.: As on Tuesday.

WOMEN'S SESSION

2.0: Milady's Dress—A Confidential Chat by "Jane." 2.15: Music. 2.30: Successful Cook-ery—"Dainty Afternoon and Supper Dishes," Coral Showman. 2.45: Music.

THE RADIO MATENEE

THE RADIO MATNEE

3.0: A.B.C. Quintette—Minuet (Boccheriai),
Canto Amoroso (Martini), 3.6: Ernest Wilson, Baritone—There's Something at the
Yardarm (Glesson), Land of Who Knows
Where (William G. James). 3.12: Neil Fleming, Soubrette—He's the Last Word, There's
No Depression in Love. 3.18: Tasma Tiernan, Cello—Serenade (Drigo). 3.21: Gordon
Ireland, Entertainer—At the Piano. 3.27:
A.B.C. Quintette—Selection: The Toymaker
of Nuremburg (Dudley Glass). 3.37: Freda
Northcote, Contraito—June Music (Trent),
Sing, Happy Birds (Liddle). 3.43: Bertha
Jorgensen, Violin—Negro Spiritual (Cameron
White). 3.46: A.B.C. Quintette—Eastern Romance (Rimsky-Korsakof), Serenade (Arensky). 3.52: Ernest Wilson, Baritone—Three
Songs by White: When the Swallows Homeward Ply, A Memory, Let Us Forget. 3.58:
Neil Fleming, Soubrette—I'm Wonderful, The
Grass is Always Greener. 4.4: A.B.C. Quintette—I Hear You Calling Me (Marshall),
At Dawning (Wakefield-Cadman). 4.10:
Gordon Ireland, Entertainer—At the Piano.
4.16: Freda Northcote, Contraito—Little
Brown Cottage (Dickson), The Second Minuet (Besley). 4.22: A.B.C. Quintette—Indian Love Lyrics (Woodforde-Finden). 4.30:
Close down.

THE CHILDREN'S CORNER

5.45: The Tale of the Shepherd's Daughter.
This is a story Mr. Harold Moschetti has made up. And it has musical effects. It gets quite exciting sometimes. And it is funny, too. Mr. William Tainsh has a story that the boys and girls of China love. And at the end of the story he will sing a little song of China.

EVENING SESSION

7.21: Results of Women's Sports. 6.30: COUNTRYMAN'S SESSION.

7.2: ALL SPORTING RESULTS.

7.25: BOOKS—"Wise and Otherwise"—CAP-TAIN C. H. PETERS. 7.35: British Official Wireless News.

NIGHT SESSION

8.0: A.B.C. (Sydney) MILITARY BAND. (See 2FC Programme). 10.30: WEATHER, ETC.

.33: DANCE MUSIC, by WIRELESS DANCE ORCHESTRA.

MELBOURNE, 492 Metres

MORNING SESSION

8.15: Thirty Minutes' Melody. 8.45: Weather. 8.50: Music. 9.1: News. 9.5: Music. 9.17: Weather. 9.18: Music. 9.21: Radio Serial. "Cleansing Fires." by Arthur Eussell. Read by "Scribe." 9.36: Music. 10.1: British Official Wireless. 10.15: Music. 10.45: Daily Broadcast Service. 11.0: Close.

MIDDAY SESSION

12.0: Community Singing, transmitted from the Auditorium, Melbourne.

AFTERNOON SESSION

1: Vladimir Horowitz, with the London Symphony Orchestra.

EDUCATIONAL SESSION

3.0: Little Essays in Literature and History.

"A Famous Naval Duel. The Shannon and the Chesapeake." Captain Donald MacLean.

3.15: Music. 3.30: English Pronunciation.

"The Sounding of Foreign Names." Professor E. H. C. Oliphant. 3.50: Music. 5.30: Weather and Shipping. 5.45: Close.

EVENING SESSION

Dinner Music. 7.30: Foundations of Organ Music. The Fantasy, Toccata, and Fugue in Organ Literature. 7.50: Music.

NIGHT SESSION

D: THE CASUAL CARAVANNERS IN SOUTH AFRICA.

AFRICA.

8.20: PROGRAMME of INTERNATIONAL CELE-BRITIES, with Special Annotations by RU-DOLF HIMMER.

Overture in D Minor ... Handel-Elgar LONDON SYMPHONY ORCHESTRA.

Conductor: ALBERT COATES.

Symphony No. 3 in E Flat (The Eroica), Beethoven

Allegro con brio.
Adagio assai.
Scherzo-allegro vivace.
Finale-Allegro molto.
PHILHARMONIC SYMPHONY ORCHESTRA OF NEW YORK.
Conductor: WILLEM MENGELBERG.
Salome and the Head of Jokanaan—
Finale of Opera "Salome," Richard Strauss
GOETA LJUNGBERG, Soprano.

GOETA LJUNGBERG, Soprano.

Piano Concerto No. 1 in E Minor . . Chopin Allegro maestoso.
Larghetto-Romanze.
Rondo-Vivace-Romanze.
ALEXANDER BRAILOWSKY, with the Berlin Philharmonic Orchestra. Conductor:
JULIUS PRUEWER.
Pete Dieu a Seville Albeniz PHILADELPHIA SYMPHONY ORCHESTRA.
Conductor: LEOPOLD STOKOWSKI.

10.15: NEWS. 10.30: CLOSE.

BRISBANE. 395 Metres

EARLY MORNING SESSION

(Relayed to 4RK.)

(Relayed to 4RK.)

30: The Chimes and music. 7.34: Weather data from the Commonwealth Weather Bureau. Cable news (copyright), Australian Press Association and "Sun-Herald" News Service, Ltd. First general news from "The Daily Mail." Comments on news. British Official Wireless News. What's on to-day. Peatures from the radio programmes, 8.0: Music. 8.30: Close.

MORNING AND MIDDAY SESSION

(Relayed to 4RK except from 11.23 to 11.30.) Relayed to 4RK except from 11.23 to 11.30.)

1.0: The Daily Broadcast Service. 11.10: The Morning Musicale. 11.23: Social notes from the metropolitan daily newspapers. 11.30: Popular hits. 11.40: A Talk. "The Over-Sensitive Child at Home." by Miss Meta Maclean. 11.55: What's on to-day. 12.0: The City Hall Chimes. 12.1: Popular recordings. 12.30: Early luncheon melodies. 1.0: Market reports. Weather data. Second general news from "The Daily Mail." British Official Wireless News. 1.20: The Constitutional Club Lecture. 2.8: Close.

AFTERNOON SESSION

(Relayed to ARK.) THE RADIO MATINEE.

3.0: A programme of Latest Popular Releases. 4.30: Close.

EARLY EVENING SESSION

EARLY EVENING SESSION

(Relayed to 4RK except from 6.20 to 6.30.)
6.0: For the Children—A Children's Play, 6.20:
Shipping news; train information; mail notices. 6.30: Early dinner music. 6.45: Late market reports. General Commercial news.
Late weather data. 7.0: The fortnightly talk arranged by the Wireless Institute of Australia. 7.10: Late dinner music. 7.23: First general news from "The Daily Standard."
7.30: A talk arranged by the Department of Agriculture and Stock—"The Cultivation of Pineappies," by Mr. H. J. Barnes (Instructor in Fruit Culture). 7.45: General sporting notes, including a Motor Cycling Talk by Hilary Buchanan. 7.59: Eastern Australian Standard Time Signals.

NIGHT SESSION

(Relayed to 4RK.)
POPULAR RECORDED ENTERTAINMENT. 8.0: DEBROY SOMERS BAND—
Stealing Thro the Classics Arr. Somers
MAREK WEBER AND ORCHESTRA—
Flower of Hawaii
JOHN BOLES, Tenor—
Domaidson

JOHN BOLES, Tenor—

Romance Donaldson
After a Million Dreams Donaldson
BOURNEMOUTH MUNICIPAL ORCHESTRA—
Dickybird Hop Arr. Storm
Rosewood Ripples Byrne
GEORGE SORLIE, Vocalist—
To-day I Feel So Happy
Just Because I Lost my Heart to You,
Abraham
HERMAN FINCE'S ORCHESTRA—

LONDON THEATRE ORCHESTRA—
Selection, Maid of the Mountains,
Fraser-Simson
TOMMY HANDLEY, Entertainer—

CONDON THEATRE ORCHESTRA—
Selection, Maid of the Mountains,
Fraser-Simson
TOMMY HANDLEY, Entertainer—
Tommy Handley Calling.
TERANCE CASEY, Organist—
Bye and Bye Romaine
Auf Weiderschen
THE BIG FOUR, Vocal Quartette—
Shamrockland Arr. Stoddart
ANIA DORFMANN, Planiste—
Echoes of Vienna Sauer
Voices of Spring
LAYTON AND JOHNSTONE, Vocal Duets—
When It's Springtime Pittman
I Lost My Heart in Heidelberg, Raymond
DEBROY SOMERS BAND—
A Musical Comedy Switch Arr. Hall
MAURICE CHEVALIER, Entertainer—
What Would You Do?
THE LONDON THEATRE ORCHESTRA—
Selection, Country Girl Monckton
THE MANCHESTER CHILDREN'S CHOIR—
Nymphs and Shepherds Purcell
Hansel and Gretel
DETROIT SYMPHONY ORCHESTRA—
Spanish Rhapsody Chabrier
DENNIS NOBLE, Baritone—
We'll Go No More a-Roving White
FRANCIS W SUTTON, Organist—
Suite Gothique
Priere a Notre Dame,
Toccata,
0.15: Weather Data. Cable News (copyright).
"Sun"-'Herald' News Service, Ltd., and Aus.

10.15: Weather Data. Cable News (copyright).
"Sun"-"Herald" News Service, Ltd., and Australian Press Association. Second General News from "The Daily Standard." British Official Wireless News.

DANCE MUSIC.

10.30: BERT TUCKER AND HIS CARLTON ORCHESTRA. DANCE MUSIC. 11.0: CLOSE.

ADELAIDE. 411 Metres

EARLY MORNING SESSION

30: News. Special weather forecast. 7.40: Music. 8.1: Shipping, Mail, Train, Weather and Market Reports. What's on to-day Items of special interest. 8.10: Music. 8.30:

MORNING AND MIDDAY SESSION

MORNING AND MIDDAY SESSION

11.0: Daily Broadcast Service. 11.28: Sporting fixtures. 11.30: Latest recordings. 12.16: Stock Exchange. 12.19: News Service. 12.30: "Slivius" talks on "Racing Work of the Week." 12.40: Mid-day Melodies. 12.50; Weather, Grain and River Reports. 1.0: Music. 1.5: News Items. 1.15: Music. 1.59: Pakenham Race Results. 2.0: Close.

AFTERNOON SESSION

3.0: Pakenham Race Results. 3.2: Matinee Programme. 4.29: Pakenham Race Results. 4.30: Close.

EVENING SESSION

EVENING SESSION

5.50: Pakenham Race Results.
5.55: Birthday Greetings.
6.0: "The Wattle Lady" and "Big Brother,"
6.20: Children's Hospital Senior Birthday
League.

RADIO OUERIE

D.M.K. (Gordon).—We must also plead complete ignorance in the matter of the peculiar performance of your set. We would immediately suspect a faulty valve, but this is obviously not the case in your set. We feel certain that if you place the whole facts of the case before the supplier of the set he will eventually trace down the trouble, and you will obtain the satisfaction expected of a receiver of this type.

NOVICE (Kogarah).—The all-electric set which you have at Kogarah would not be suitable for use at Goulburn, where D.C. mains are supplying the current. There is a fundamental difference between alternating current and direct current, and you will need a special job for d.c. operation.

D.B. (Lakemba).—The whistle on 2YA is more or less normal, and often occurs. It is claimed to be due to a heterodyne note created by the signals of 2YA and 5CL beating together. We do not think that it is any fault of the set, and there is nothing we can suggest whereby you can stop the trouble except to fit a .01 condenser across the speaker leads, and thereby cut out all high notes from the reproduction. This, of course, will also mar the reproduction of the set.

W.G. (Canberra).—There is no Crosley radio factory in Australia, the Crosley set being of American origin. We understand that the factory representatives are International Radio Co., 254 Castlereagh Street, Sydney, and they should be able to give you any information about the set. It is quite normal to find that 2FC and 2CO get through better to up country locations than other stations; but yourset should be powerful enough to pull them all in when in good operating condition.

J.H. (Bundaberg).—It seems positively incredible that the fitting of the shoke with the condenser shunting it could improve results, or even affect them in any way. We feel certain that you have made a faulty observation, and that the improvement is due to some other factor.

J.R. (Camperdown).—For all information credible that the fitting of the choke with the R. N. Shaw, our short-wave observer, at Wauhope. The amateurs who went up to over 200

SYDNEY

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S. V. COLVILLE, Radio Engineer ALL SUPPLIES AND SERVICE.

metres when the broadcasting stations closed down are far too numerous to list, but the practice has now been stopped by order of the Radio Inspector.

CHARGER (Wynyard).—We do not know of any way of re-vitalising the metal rectifier, but would refer you to Mr. Manley, of Speak-ers, Ltd., Clarence Street, who is a specialist in metal rectifiers.

H.J.A. (Canberra).—We are unable to understand your query, as full details of the coils were published in our issue of November 4 of this year.

BOSCO (Paddington).—We are unable to give you the data for winding coils exactly the same as those specified, as they used stranded Litz wire, etc. You could get the set operating, however, with any short-wave coils such as those described in issue of December 23.

E.J. (Tempe).—We trust that you fully appreciate that the reaction coil is wound close to the secondary of the aerial coil, and on the same former. Then if the coil is wound in the right direction, and the coil connected correctly, it is certain that the reaction condenser will have some effect. However, a seven-plate midget condenser is hardly big enough, and we suggest one of at least 23 plates. If you care to use our reply by mail service we can let you have a diagram to give you a better idea of the coil arrangements and connections.

R.G.E. (Neutral Bay).—No, we do not favor the use of the 55 for any other purpose than as intended, i.e., as a second detector and audio amplifer combined. The shunt capacity would be 4 mfd. for preference, but 1, 2, or 4 would serve the purpose, with a slightly better low note response as the capacity is increased. We strongly advise you to use 175 or thereabouts, and on no account use the colls mentioned. You are right about the pick-up connections.

A.D. (Mayfield).—Yes, the condenser can be used to replace those of 1 mid. in the circuit. So long as the capacity is greater than specified the condensers will be O.K. The voltage divider and the 35 type valves will also suit quite well. We would back the six-valve super against the seven in this particular case, more particularly on account of the efficiency and general merit of the coils.

J.A.C. (Eaglehawk).—So far as we know there is no connection between field and voice coil energising, and so on, and we do not think that you can harm the speaker by operating it without field current or without signal input.

STRIKE OUT SERVICE

NOT

REQUIRED.

C.P.N. (Hurstville) would like to know the identity of a station he has heard on 320 metres at 3.15 a.m. broadcasting a church and bells, sounding like a Roman Catholic service. G.T., of Bexley, has tuned a station at 190 metres, which closes at 4.30 on Sundays and 5.30 on week-days.

A.J.M. (Sale).—If we were in America, we would say that it would be a fine idea. But being in Australia, and sober, we have to advise that the set would be quite over the fence altogether, as far as gain and so on are concerned. Besides the difficulty of lining and adjusting the condensers, there would be so much gain in the set that it would be unnanageable, and the noise level would be terrific. Sets such as the 9 valve set described in the Superheterodyne Book represent the utmost in sensitivity practicable at the moment, and it is hard to see what use any greater gain would be, until there are a few snags ironed out of present day circuits and components.

B.T. (Paddington).—Before proceeding with the superhet, we would be inclined to get the receiver operating properly as it is. The selectivity should be better with three stages, even taking your position into consideration. Why not buy a set of matched coils, of which there are several very reliable makes at the moment? Naturally you will not get either the best range or selectivity unless the set is properly lined. If you are not satisfied with this plan, you could build the superhet tuner, and hitch it up exactly as shown in the diagrams and descriptions. The superhet will, of course, easily out-perform the Five in every way, particularly as far as selectivity goes, but there is no easy way out of buying a good kit any reliable maker guarantees his product nowadays. The transformer should take the valves O.K. Sorry, we could not undertake to design the circuit.

"DOUBTFUL" (G.P.O.).—Personally, we never did care for the tone of mantel type sets, as it is not possible to get the correct baffling effect in such a small cabinet. We therefore think your results will be greatly improved by taking the set out and bullding it into a console cabinet. Make sure that the cabinet is solidly designed, and the baffle board on to which the speaker is screwed is sufficiently heavy. The shape of the cabinet would not have such an important effect on the original results—the larger console should be much better all round.

Thursday's Programme

(Continued From Previous Page)

6.22: Dinner Music.
6.50: Stock Exchange.
7.0: News Service.
7.5: Sporting Service, including Pakenham Race Results.
7.10: Music.

NIGHT SESSION

8.0: AN EPIC PROGRAMME OF POPULAR COMPOSERS.

COMPOSERS.

Cameos presented by:
 Gregory Ivanoff, Violinist.
 Francis Halls, Baritone.
H. Brewster-Jones, Pianist.
 Gertrude Hoopmann, Mezzo-soprano.
 Cliff Laycock, Tenor.
 Arranged by H. Brewster-Jones, with annotations and recreated symphonies.
9.15: CRICKET'S IN THE AIR! Let's talk about to-morrow's opening of the Third Test Match, England v. Australia.
9.25: A B.B.C. Programme reproduced by special arrangement.
10.15: News Session.
10.20: On with the Dance.
11.0: Close.

Box 3366PP., G.P.O., Sydney.

To the "Wireless Weekly" Radio Information Service

FORWARD THIS COUPON WITH YOUR QUERY

Please answer the accompanying query

(a) Free of charge through the columns of "Wireless Weekly" at your earliest convenience.

(b) Free of charge over the air during your session from 2CH at 8.0 p.m. Wednesday.

(c) In a special letter by return mail for which I enclose one shilling in | postal notes money order

stamps

RULES: All branches of the "Wireless Weekly" Information Service are governed by the following rules: (1) Readers are requested to limit the number of questions and to be as concise as possible; (2) Replies by post will not exceed 500 words; (3) Information cannot under any circumstances be given over the telephone; (4) As nearly as possible all preferential distinctions between trade brands will be avoided; (5) No special circuits can be supplied, and no special designs for transformers, coils, or other such apparatus can be given; (6) The scope of the service does not include the answering of general questions, such as "What is Electricity?" Readers are invited to make suggestions for articles dealing at length with that phase of radio in which they are interested; (7) All questions are answered sincerely and efficiently to the best of the ability of the Technical Editor, and to the extent of the channels of information available to him. No liability attaches to "Wireless Weekly" for any misinterpretation or misdirection of the information thus supplied.



W.H.H.C. (Sydney).—Two spot tuning is due as a rule to lack of selectivity in the set preceding the first detector, and should not be present in a set which has a pre-selector or an R.P. stage ahead of this valve. If it has, and adjustment will not cure it, we would certainly get busy with a bottle of other or something, and make tracks for the man whe sold it to you! No doubt adjustments by the makers is all that is necessary, but we do not think you can do much with it yourself On second thoughts, go easy with them as the set is really a good one, and they will probably be as concerned over it as you are. It is best to add another R.F. stage than an intermediate, as the noise level of the latter method would be higher in proportion than if the R.F. stage were added. We hope

W.J.S. (Toowoomba).—Many thanks lor your interesting little discourse on harmonics. Let us hasten to assure you that we are tolerably well informed on the subject, and agree that there are many—in fact, most—radio men who do not know the first thing about it, and who judge a receiver by the least amount they can give for the most money. It is a strange fact, however that even if we were able to produce sets and speakers which would include all the harmonics necessary for reatonal quality—the true tone color of an instrument—to be produced, there would be little public for it. We have ground out many weary hours designing receivers which were good to hear, and the only response the public as a whole will give is to wire a bybass condenser across the business and ruin the whole show. They call it too "edgy." We know what the ideal is, but it is mightly hard work attaining it, and plenty of kicks and headaches to be col-

E.J.H (Bowling Alley Point).—It would be possible to do as you suggest, and plug an extra speaker in place of the present one. If it is a dynamic, you must make some provision for energising the field, and this may be awkward unless it happens to be an A.C. dynamic or a permanent magnet speaker. A good magnetic would serve, but unless there is an input transformer built in there would be the danger of burning out the windings. We would not be inclined to make the extension cord too long—about 30 feet should be taken as the maximum. However, we have extended a speaker, field-energising leads, and all, nearly 50 feet, and not struck any troubles. It is not good practice, however, to use leads as long as this. We do not think any cheap little speaker would stand much chance of lasting long under the heavy current demands of the pentode.

H.P. (Punchbowl).—Some little time ago Mr. H.P., we got a deluge of indignant protest and abuse because we said that we had not seen a crystal set which would bring in and separate every local station anywhere in Sydney. We don't want any fights about it, but we would like to whisper to you the same advice, in the hope that no one else will hear. If you send in a query through the postal service we will send you a circuit which is as good as the next one, but, whether it will do what you require of it is another thing. We would be inclined to go for a single-valve set and make sure of it. The same applies to the circuit of the one-valver—we will send it to you through the postal service in place of the crystal set if you care to have it.

J.R.Q. (City).—There is not a great deal involved in the change-over from a D.C. set to an A.C. set It is necessary first of all to know what voltage the set originally worked from. If 240 volts, then you need a power transformer (250 volts per side), which will allow the rectifier to deliver 240 volts to the filter of the D.C. set. The high voltage ends of the transformer secondary are connected to the plates of a 280. The centre tap, or one side of the rectifier filament winding, is the lossitive, and the centre tap of the high voltage winding the negative side of the power supply. If the valves are not of the A.C. type, they must be changed over to heater valves and lit from suitable windings on the power transformer. It is not likely that any alterations will be needed to the actual circuit of the set under these conditions unless the design of the set is unusual. These general instructions should provide you with an outline to work from

W.E. Bassendeant.—The audio amplifier for the superhet, tuner may be almost anything you like to make it, as long as voltages are available for the tuner. The actual distance-getting properties of the superhet, portion is not affected by the audio amplifier, although it is easier to hear weaker stations with plenty of audio amplification. The set should be quite-successful.

E.A.S. (Smithfield: —Very probably the resistors are not still of their original value if they were right in the first place. This might be the cause of the noise, through wrong voltages being present. We are inserting the notice.

W.M. (Oakleigh).—If the filament terminals of the valve are bridged by a centre-tapped resistor, from which the bias is taken, or earth connection made, there is no need to use a resistance in each leg of the winding in reducing the 5 volts to 4. This is only necessary if the earth or bias connection is made to the actual centre-tap of the winding. In this case, to use a single resistance would upset the balance of each half of the filament circuit, and spoil the accuracy of the centre-tapping.

GENERAL.—Any reader interested in shortwave work and living in Manly is invited to write to Mr. T. A. Gray, 35 Hill Street, Manly.

A.M. (South Hurstville).—There would probably be some increase in volume and sensitivity by using the newer valves. But whether it would be enough to justify the purchase of a new set is problematical. All our work on the receiver was carried out in conjunction with an eliminator of the same type as you have, and it worked very well. There is sometimes a slight tendency to feed-back in some eliminators, also rather more hum than with batteries. This, however, is not likely to be serious enough to prevent you using the unit Better results could be looked for owing to the constant high voltage available.

GENERAL.—Any reader who has a wiring diagram or chart of a Udisco electric superhet. using 45 push-pull valves, please get into touch with Mr. L. Harber, 86 Union Road, Newtown

GENERAL.—Any reader knowing the value of the resistors contained in the Udisco Model M6, please communicate with Mr. E. Stein, Smithfield

J.H. 'Junee'.—We have posted the issues you requested. The speaker can be used by wiring it across the output of the nack is series with a voltage divider of 10,000 ohms. This will give you enough to energise it without imposing too much strain on the pack. A speaker of 2500 ohms, resistance can replace one of 8000 ohms, in practically any circuit if wired in this way

S.B. (Numinbah).—The eight-valve set will probably have the greatest range, with very little between the other two. The five-valve set would probably be the lightest on "B" batteries, although there is not much to choose between them The "Universal" drew from 10 to 12 mills., depending on the total voltage applied.

"WORRIED" (Warrnambool).—The pick-up will probably work best when connected between the grid and cathode of the detector. It is quite feasible to feed the pick-up through a transformer first, and connect the secondary in place of the pick-up across grid and cathode. The transformer should be of good quality. You can use the valves as you show then connected to the same filament winding, and the potential of the indirectly heated filament does not affect its own cathode bias. The mike has probably quite as much output as a pick-up, and it would vary with the frequency. We have no data on it.

W.R.W. (Solomon Islands).—The seven-valve set to which you refer is actually the "Infinite Six." with an output stage of "B" class push-pull amplification. The "Infinite Six" is really the "100%." minus the push-pull but plus another R.F. stage. So that, by combining these two sets, you will be able to get the circuit. The superhet, circuit you speak of is not available in detail for publication. In the Superheterodyne Book, we described severabattery superhets, which should interest you. Glad to hear of your fine results, and remember handling a letter from you quite recently. Good luck with the Yanks!

X.Y.Z. (Unley).—It would, of course, be possible, but by no means practicable, to rewind the transformer of your power pack to give the increased output. For one thing, it is so built into the case that there would not be room for the addition, and, secondly, the chokes, condensers, etc., are not made to stand the overload, and may easily break down. The fact that the rectifier is actually underloaded will mean that its life will be greater, and we strongly advise you not to touch the eliminator.

H.L. (Whitswood).—Wind the coils on 144in formers. The aerial coil is the straight type with 110 turns secondary and 20 turns primary Oscillator 8/10ths of this inductance—88 turns. The pick-up coil is tapped 12 turns from the bottom and has 45 turns.

"BEGINNER" (Stanthorpe; —Whether or not the "Cricket Special" would be suitable for use in your area depends entirely on local conditions, and, as we have never been in Stanthorpe, we could not definitely say. However, it would be in order to give as an opinion that, assuming reasonably good conditions, you would hear something of the Brisbane and even Sydney stations. In a good locality, a little set such as this would receive at varying strength anything worth hearing in Australia.

M.E.C (Lisarow).—Glad to hear from you and to learn that the set is now going well. That's one of the hardest things about a query department. There is so much you don't know, even when apparently the whole story is told. In your case, fifty things might have been the cause of the trouble, whereas it only needed a little intelligent adjustment to bring in the Yanks! We note with enthusiasm your remarks about some so-called technicians. Unfortunately, their name is legion. However what really matters is that your "super-Six" is now going as it should, and, as far as we are concerned, that is the main thing. The best of luck with it. As for the battery problem, well in the old days, one read a book from the valves because there was no other way out. But now that there are more e-onomical valves obtainable, people are not so keen on installing electric light built into a radio set, or using huge whacks of juice when they can avoid it. It's one of the hardest problems to solve and still satisfy everyone.

"PERPLEXED" (Bombala)—We should say that your trouble is due to the fact that the valves, or one of them, are worn out. If they have been in use for two years, no doubt this is what has happened. The power valve in particular may have reached the end of its life. If your batteries only lested you for that short period, it appears as though the power valve did not have the right bias, and drew too much current. In this case, it would also shorten the life of the valve. Check up on them all, and replace any not right up to sample. Also look over the bias connections to all the valves, and see if any have been running with insufficient C blas.

C.W. (Thargomindah).—We do not know of the battery you mentioned, and as you did not enclose the advertisement we cannot advise you about it. There are many re-chargeable batteries on the market, and they appear to be giving satisfaction—at least, the best of them are. Valves are only human after all, and must burn out some time. As a matter of fact, when a battery has been re-charged, its voltage is a little high until it settles down to work, although we should not have thought it probable that the valves would actually have blown out due to this cause. More than likely the one in question has merely succumbed to the inevitable end of all valves. We do not think there is any advantage in using a double aerial unless it must by circumstances be a very short one. A single wire about 50ft, long is about right. A taut aerial will not swing in the wind, and makes the most of available height. But if fixed to a tree, the latter may sway too much and break the aerial.

"A NEW READER" (Forbes).—We could not say whether the Special in its present form would do the trick er not. You could build it up on a larger base, and then if it did not, it would be a simple matter to add the R.F. stage. If you require it, we would be pleased to supply you with the circuit through the postal service.

M.P. (Homebush West).—There is really no need to alter the coils simply because the set is to be converted to A.C. The tuning side of things will not be affected by the changeover, as far as the number of turns is concerned. If the coils match and line up as they are, there is no reason at all to re-wind them. The only catch with the Diode set, however, is that there were special coils needed, and as they must all match, they are produced in a set, and not easily made at home. Therefore, we could not give you instructions for making these—there is no practicable alternative to buying a kit.

"INTERESTED" (Trogmore).—Your only recourse appears to be to the wave-trap, as that receiver was not as selective as some. The wave-trap is connected in the aerial lead to the set. The aerial lead-in is taken to the correct terminal of the trap, and the other terminal is connected to the aerial terminal on the set. In operation, the set is first tuned to the offending station. The wave-trap concenser is then rotated until the station disappears, or nearly so. Then you may go ahead and tune wherever you like, and except in the immediate vicinity of the strong station's position on the dial, tuning will not be affected although the interference will have vanished. We do not know the station which you heard on Corowa's wave-length

E.W.H.K. (Brisbane) —To tell you the truth, we have not had time to do much with this side of radio, which is a science in itself, and we have been so much occupied in designing Diode Fives and Fidelity Superhets. to pay much practical attention to it. We would suggest that you either subscribe to some overseas periodicals, or we will forward a letter of yours to the author if you send it care of this office. He is a real crank at the game, aithough you must not tell him we said so, and no doubt would be pleased to hear from you. He is also quite a brainy man, and his advice is well worth having



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