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VOL. 14: NO. 7.

FRIDAY, AUGUST 9, 1929

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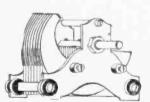




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PHOTOGRAPHS and messages were transmitted on a beam of light through space recently in Atlantic City, U.S.A. This beam of light forged the only comnection between a facsimile transmitter and receiver, which by electrolytic process reproduces transmitted images. The device is the latest development of Dr. Vladimir Zworykin, research scientist of the Westinghouse Electric and Manufacturing Company.

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1929.

The extent to which Dr. Zworykin has developed his device reveals a new/step in facsimile transmission. In the devices previously demonstrated, photographic development was necessary after the transmission had been completed. With the new receiver the transmitted image will be produced without further developing, so that an onlooker may see the image being formed at the receiving end.

Not the least interesting thing about the facsimile transmission was the fact that the waves which form the image on the receiving end are carried from the transmitter on a beam of light. This beam of light acts in the same way as the invisible waves of a radio station.

To the casual onlooker, the facsimile transmission is extremely interesting. First the picture to be transmitted is placed on a exlinder on the sending device. As the transmission starts a beam of soft light gleams from an ordinary appearing lamp, and is trained on a reflector, which may be placed at a considerable distance away. As the cylinder on the transmitter revolves, another on the receiver revolves at exactly the same speed. And passing across the cylinder is a long roll of paper, upon which is being reproduced the original photograph or message

Wireless Weekly Incorporating Radio in Australia & New Tealand"

ona

Photographs Transmitted

## LONG STRIP OF PICTURES.

These reproductions are five inches by six and one-half inches in size, and they can be printed at the rate of one every four and one-half minutes. They may be reproduced continuously, one after another. on the long roll of paper.

The transmitting equipment used by Dr. Zworykin in this demonstration is the same as used in previous types. The only change in the equipment is in the receiving end.

In the sending set, an ordinary photograph or typewritten letter is placed on the cylinder, which rotates slowly, and at the same time progresses longitudinally. A beam of light is sharply focussed on the surface of the picture, and in this way every point of the picture is explored by this beam of light. The reflected light is gathered by a parabolic reflector, which conveys the reflection to the photo-electric tube, or "electric eye," which issues an electrical impulse corresponding to the density of the image on the photograph.

As demonstrated by Dr. Zworykin, the Im-

A new and reliable method of picture transmission has been developed. In the picture on the left Dr. Vladimir Zworykin, W.E. research engineer, is holding the projector of the beam of light over which he transmits photographs and messages

puises from the photo-electric tube are simplified, then passed through the gas-glow tube, which produces the carrier beam of light. This beam is trained on another photo-electric tube in a parabolic reflector located across the room. The photo-electric tube transforms the variations of intensity of the beam into electric impulses, which, in turn, are transmitted to the receiving equipment.

Instead of changing the electrical impulses into light again, as in previously demonstrated equipment, the new device reproduces the picture by sending the actual current through a specially compounded paper. The action of the electricity on the chemicals in the paper, through electrolysis, changes the color of the paper, and recreates the original image.

To accomplish this, the special paper from the roll is passed first through a water bath 'In order to make it more conductive, thenco over a cylinder, which is rotating in synchronism with the transmitting cylinder.

On the surface of the cylinder there is a knife edge curved in spiral from one side to the other. On top of the paper there is a straight knife edge, which, with the spiral edge. forms the two electrical contacts of the receiver. As the cylinder with the spiral rotates, it produces the sliding contact along the straight edge. This contact moves from one side to the other, and makes one line of the reproduced image with each complete revolution.

The paper slowly advances through the receiver, the motion being exactly the same as the motion of the transmitting cylinder. Therefore the two motions reproduce exactly the scanning of the photograph by the transmitter to recreat the image on the paper as the varying current produces more or less chemical change in the paper.

### WIRELESS WEEKLY

Friday, 9th August, 1929



## RADIONA'S FEAST

in the manner of the Late Mr. Pope

Dedicated to Mr. Stuart F. Doyle and Mr. Bacchus

## With Annotations by the Author

"What mighty contests arise from trivial things."-Pope.

Queen of the Air, fair Radions sate High, on a gilded throne of royal State: Hier Checks were Blusiful, for her Feet were bare And ske was clad in purest mountain Air (2) And Sydney's greatest Radio Men were three (3)

Aetherial Sylphs, who hovered o'er the scene, Flew at the bidding of their aerial Queen To bring the Revellers, in their cloudy Seats The scaley Fare supplied by Horace Keats (4) Who stirred his softly simmering Orchestra Yonm a white Cloudlet, floating out afar. The Night was starred with Pireworks gay, and Bolts Of Contacts made at forty thousand Volts By valiant Burb'ry, he assumed the Risk-(5) The work was supervised by Mr. Fisk. (6)

mands

A hundred Sprites set off for foreign Lands.

Hast heard of Keats, and his Poetic Whim (9) For beaded Bubbles, winking at the Brim? (10) lis Beaker of the biushful Hippocreme Tasting of Flora and the Country green? Well, Radiona's Nectar held more Bweets Than anything conceived by Mr. Keats; Take all the Letters, sending Thanks and Prai To Wirrless Studios since their opening Days; Take all the Smiles of Children wonder-seyed; And Happiness of Listeners satisfied— Welt Radibers of Children wonder-seyed; And Happiness of Listeners satisfied— Uset all these in a Vat of old Champagne: Leave for awhile; then let the Mixture strain Such was the sparkling Nectar, subtly made That Radiona's Servanis might be glad! Praise strain-

An Instant saw the hurrying Sprites return. Tearing the Beverage in full many an Urn; (11) An Instant saw the Guests' gold Goblets filled, unother saw the molets filled once more, instant and the saw the Goblets filled once more, instant so that the same sector of the Sky. Till the Old Moon looked down with envious Ere In time to see the noted Ewart Chapple (12) Bringing his past Experience to grapple With G. Vern Barnett's Claim, however porous. The no good Ballet ever was decharus (14) That no good Ballet ever was dechorus. (14)

Just then, Miss Baumberg, who controls Publicity

(15) The probability is the controls to the second of t

Something of which I hardly dare to speak-It is so Great, Magnificent--Uniquel--A Super Ballet, featuring the Staff Whose Beaultes I can not describe by half--The music kindly lent by Mr. Albert; (16) Rehearsed, arranged, and led by Laurence Hal-berti (17)

And if Miss Baumberg's Pen were no avail (18) To etch such Splendors, ours must surely fail: And so we'll simply have to be content

And so we'll simply have to be content To pass these few Remarks of Compliment; Miss Gibson's little Act of Counnine (19) With twenty, Artiat-Harlequins, was fine; And Mr. Ferry's story of the rin (20) When Moore M'Mahon, the Racing Fiddler, won From all the Field, the evening Relay Race (21) Down Castlereagh Street, by a haif a Pace Outdid all racing Broadcests we have heard; While Mistress Haddon's "Would I were a Bird" (22) Was noted for an Air of calm Restraint;

 (22)
 Was noted for an Air of calm Restraint; And then, we had no motive for Complaint Against the shy Remarks of Captain Stevens (23) On Woodbine Willle's "Thoughts on Odds and Evens." (24)
 We also had to throw a large Bouquet At Miss Gwen Varley's Dance—"The Flowers of May" (25)
 Supported by Girl Guides and Mr. Norman (26) May" (25) Supported by Girl Guides and Mr. Norman (26) Who seemed, in this Assemblage, quite the Mor-

mon; And also we derived a Kind of Joy From Mr. Cochrane's "When I was a Boy;" (27) And the Duet, when Carlton sang with Graham (28)

"We 1 (29) nu Two are New" left us no wish to slay 'em

(Although there was a damper on our Mirth--Our dear Friend, Basil Kirke, had gone to Perth; (30) And Madame Grieg's short Sermon of Advice (31) Was (we've forgot the Subject) very nice. To end, the Toute Ensemble was so grand As none who saw it not ean understand; And Mr. Halbert well deserved the Cheers Which, at the Curtain, dinned upon his Ears. (32)

Now, all this While, the gentle H. G. Horner (33) Was sliting, like his Namesake, in a Gorner; He was not pulling out the puerlie Plum— In fact, he looked quite sad, and even Glum; But to look glum is really his Delight; And sitting in the Corner all the Night. Noting what People do and what they Say For Reference on some Propitious Day, Has made him wise in Men and their Desires Of which he spends his lifetime pulling Wires; (34)

Meantime, the guests upon their Legs do prance (35) Or, as the Moderns have it, Jazz of Dance, Through clouded Halls, all glitteringly sublime (36)

While the bright Morrisonian Band beats time;

Ope.
And everywhere is Bliss and scraping Feet.
When, suddemly, a Voice more stern than sweet (38)
Says "On behalf of all the A.B.C.
And my Directors, both in Tune with me.
Site of the strate of the sterner of the sterner of the strate of the

FALL!" He ceases. There are Lightnings all around (42) And Heaven and Earth with Cheers and Shouts resound—

"Just put me down for Ditto," says Sir Ben; (43) And Mr. Albert breathes the glad Amen.

Then Radiona rose; the Skles were riv'n With beaming Light—the mighty Winds of Heav'n Hover'd above, with aweful murnurIng; And, from her Lips, the Zephyr Breath of Spring Issued a Message to all Mortals there— "I am the deathless Queen of all the Air Since first the Sky arched blue o'er a burning Sun.

"I am the the Sky archen one Sun, And till all Suns and Stars are wither'd and done, I am the Queen of the Wind and the Hail and the Rain. And of the raging Blizzards and Tempests in-sane;

And of the raging Blizzards and Tempests in-sanc; And I have watched through the Ages Men strug-gle and fight Against my tireless Hosts by Day and by Night. I have heard again and again the despairing cry of Wretches shaken and lost and failing to die, And these things never have moved me, nor haunted my Sleep-Not the Bodies torn on the Earth, or a-rot in the Deep: I have seen Men planning their Plans and dreaming their Dreams, And Death has always completed their mightiest Schemes; For Drath is the Consummation of all men's toil. To end, I am pleased to hear the Remarks of Mr. Doyle."

By this, the rising Sun proclaimed the Day,

And soon the Guests were hurrying away: And Radiona swiftly went to Bed

All weary, with a horribly achey Head;

But, ere she slept, the fair aerial queen Murmured, "Oh, what a lovely Night it's been!"

Straight did we make our Exit, all unseen. (44)

(The author's annotations appear on page 6. Turn back this page halfway, and key numbers can be referred to without difficulty.)

A POEM-Written by JAMES JEAMES JAMES



# FITTING MeRIGHT KIND of ITEMS TOGETHER &

## Elementary Psychology for the Programme Director

## By L. E. Strachan

(formerly Station Director and Programme Organiser, 32C, Christehurch, N.Z.)

S<sup>o</sup> much comment has been made on the quality of broadcast programmes, both in Australia and New Zealand, that it would almost seem there is little left to be said.

There is, however, one aspect of the matter which has apparently not been touched on by the many who have voiced dissatisfaction with existing conditions—that is, the apparent lack of understanding of the principles of programme arrangement, as exemplified in the finished products of those responsible for the "lay-out" of the items broadcast in the so-called "concert programmes" from the various stations.

Before proceeding to discuss briefly these principles it will be advisable, perhaps, to consider the psychological effect of practically every form of entertainment in these days of hustle and bustle, as by noting the effect it is usually possible by a process of simple an alysis to arrive at the cause, or reason, therefor. It is a truism, of course, that if the result be unsatisfactory the remedy is to be found by altering the principal factor, or factors, responsible for the unsatisfactory result

Mankind to-day lives in a highly complex age-an age which imposes great mental and nervous strain on its members--particularly the town dwellers. This fact is now generally accepted in scientific and medical elrcles, and readers will no doubt recollect recent cable messages from England referring to the investigations being carried out by eminent specialists into the effect of everyday moises on the nervous system.

## Emotional Outlet

These undern conditions not only impose great nervous strain on those whose occupations render it necessary for them to live in close proximity to towns, but they have had an even more serious effect in that they have imposed a barrier which precludes to a very great extent a natural outlet for man's emotions. The need for this emotional outlet 's very real, and is evidenced by the fact that the demand for entertainment (which is in reality relaxation) is greatest where men o women are worked to their fullest capacity. Picture theatres, for example, or dances in country districts do not receive the same support proportionally as similar entertainments in industrial areas, where the nature of employment keeps the mind working along certain well-defined grooves.

## "In Tune" With Programmes

In early days the natural occupations of mankind provided a certain emotional outlet. When it was necessary, for instance, to hunt for one's food the thrill of the chase provided a very definite and healthy emotional outlet, while the necessity of being constantly on guard against marauding tribes or animal foes, provided a very effective antidote against ennul. This fact is recognised. It not actually postulated, by most leaders in the educational world. For this reason or ganised games are considered essential in any well-ordered school curriculum, not only for their physical results, but also that the adolescent mind may have a healthy outlet for its emotional content.

At first sight it may appear that this dlgression into elementary psychology can have no bearing on the matter of broadcast programmes, but in reality it is an important. factor in the dissatisfaction which is apparently so widespread among listeners-in.

In the first place, it will be generally conceded that the greater part of listening-in is done in the evenings. Probably at least 75 per cent. of those who have taken up their pens to castigate the broadcasting companies have based their criticisms on evening programmes which did not appeal to them. They have probably never stopped to consider whether they themselves were "in tune" with the type of programme being presented.

This inatter of being "In tune" with the entertalnment being groadcast is in reality the crux of the whole position as regards the listeners' attitude to broadcasting. And it is here where the whole trouble lies with most programme organisers. They do not realisa, or apparently do not know, how to so utilise the material at their disposal to put themselves "en rapport" with their unseen audience.

An analysis of niost of the published programmes shows an almost complete lack of knowledge of the principles underlying the sciencific arrangement of programme inaterial. To be deemed successful a programme just exemplify four essential factors—proportion, balance, contrast, climax. The first three named factors are, of course, well known to anyone with even a rudimentary knowledge of design or display. They are to be seen any day, and every day, in a welldressed shop window. To these factors **a** fourth—climax—is added when the appeal is made through the ears. The simplest melody reaches some sort of climax, and the storyteller whose tale had no point would find himself in the same unfortunate position as programme organisers to-day.

## Goods to Display

After all, a programme organiser is faced with the same problems as a window-dresser He has certain goods to display--to arrest and hold the attention of an unknown public. If he follows the recognised principles underlying display he will succeed in his purpose, but apparently most programmes are arranged in the same way as if a windowdresser picked up his goods at random and jumbled them into his window higgledypiggledy.

The psychological effect on a listener is a scries of clashes, or what in musical parlance

## The Author's ANNOTATIONS

## To Radiona's Feast

(Turn back edge of this page to face Page 4.)

(Turn back edge of this page to face Page 4.) (1) "In the mananer of the late Mr. Pope." of course, it will be noted that the style of this poem sometimes divigates from the Classical for-mulas of Mr. Pope. The Caesura, tor insusance, is to often absent; and more too often, in the wrong position. Moreover, there is here and there a distinct Miltonic east, as, for instance, in the second line, which is highly reminiscent of our poet; and a great deal of the latter part of our poem is Byronically favored, as we read through Byron's "Don Juan" on the afternoon preceding the night on which we completed our Work, However, we can still allow Mr. Pope the credit of the Perfected Couplet; and if the com-piete Poem is a combination of many great Styles, some Immensely superior to Mr. Pope's, their attribution to that gentleman is more complimen-tary to him than derogatory to their owners; a to apped the start to appreciate. (2) "And she was clad in purest mountain

(2) "And she was clad in purest mountain Air." This kind of phrase is known technically, among Poets, as a Bare Statement. (3) "Sydney's Greatest Radio Men." It is pre-sumed that these might cause Anyone to blush.

(4) "Scaley Fare." Our meaning, here, is un-certain. Horace Keats. A fine chap. A.B.C. Orchestral Conductor. (5) Vailant Burb'ry. 2FC Radio Engineer. A

(5) Vailant Burb'ry. 2FC Radio Engineer. A fine chap.
(6) Mr. Fisk. Builds Noise Screens for Win-dows. A fine chap.
(7) Anderson. A fine chap. N.S.W. Mgr. A.B.O. Cmpser. "A Brilliant Elf." Rhymes with "Him-self."

(8) Subtle Williams. H.P. Asst. Mgr. N.S.W. A.B.C. A fine chap. (9) "Keas's Poetic Whim." No; not Horace. John A fine chap. (10) "Beaded Bubbles Winking at the Brim." Not ours. Too mear End of Weck.

(11) "In full Many an Urn." Or in Many a Full Urn. Poetic Inversion.

(12) Noted Ewart Chapple. A fine chap. Accpst. 2FC.

(13) G. Vern Barnett. Accpst. 2BL. A fine char

(14) "No Good Ballet ever was dechorus." Quite right, too.

Miss Baumberg, A Dreamer of Beautiful reams, A good woman.
 Mr. Albert, A musical Millionairelf A fine

chap. (12) Mr. Halbert. Studo Prdcr., A.B.C. N.S.W. Rhsi. Mgr. A fine chap.

(18) Miss Baumberg's Pen. A weary instrument

(19) Miss Gibson. Prgmme Bkr. 2BL, 2PC. good woman. Columbine, Don't know who she (19)

(201 Mr. Ferry, Racng. Cmmr., 2BL, 2FC. A fine c. (21)

(20) With Ferry, Racing, Comming, Jung, arC, a (21) "The Evening Relay Race." A quaint new Oustom, which causes artists to finish their pro-grammes from one station; then run like mad down Castilercagh Street to the next. Good Ex. dustom,

(22) Mistress Haddon. O/C Office Staff. A 20

od woman. (23) Captain Stevens. Anner. 2BL. Mgr. Talks do. Supvsr. A fine chap. (24) Woodbine Willie. Old friend of Captain St 81

(54) Noothing Hinds and Stevens.
(23) Miss Gwen Varley. 2BL Women's Sessne Gris. Rdo. Clb. A good woman.
(26) Mr. Norman. A fine chap. Boys' Rdo Clb. Aro. Clb. By Scis., etc.
(27) Mr. Cochrane, Studio Annor. 2FC. Heli Mn A fine chap.
(28) Cariton. Mr. New Annor. 2FC. A fine chap. Graham. A fine chap. Mr. New Annor. 2BL.

Mar

Advo

(30) Hasil Kirke. Form: Studio Mnger 2BL.
(30) Hasil Kirke. Form: Studio Mnger 2BL.
(31) Madame Grieg. A good woman. Breu dvc N.S.W. A.B.C. Artsts.
(32) "At the Curtain," i.e., as the Curtain fell.
(33) "Gentle H. G. Horner." Sec. A.B.C. A ne chap. Hope you like what we said about ou. Mr. Horner.
(31) "Pulling Wires." Also descriptive Modern usiness.

siness. (33) "Upon their Legs do Prance." Archaism. Bush

(33) "Upon their Legs do Pranee." Archaism. introduced for effect.
(36) "Clouded Halls, all glitteringly sublicat." Moonshine. shinling through cigar smoke.
(37) "Morrisonian Band." Referring to Cec Morrison's Band. Cec. M. a fine chap.
(38) "A voice more stern than sweet." No harm meant.
(39) "There is a crystal silence under the Sky." This is a beautiful line. Teach It to your ohill-dren.

dren. (40) "Shut up! It's Mr. Doyle." When he speaks let no dog bark. A fine chap. (41) "WE WILL NOT FAIL." A common fallaci

(42) "He ceases. There are lightnings all around." But don't you believe it: we had to say something like that. (43) Sir Ben. Sir Benjamin Fuller. A fine

chap. (44) "And straight we made our exist all un-seep." In the circumstances, a Gesture of great delicacy.

are termed discords-or, to use another musical term with a rather different meaning. false relations. What, for example, could be more incongruous than the two following examples, actually heard from one of the A grade stations: An inspiring sermon by the Bishop of London, followed immediately by a cacophonous fox-trot; Saint-Saens' "Le Cygne," 'cello solo by Gasparo Cassado, foi-lowed immediately by "The Two Black Crows," So long as such appaling faux pas Crows." So tong as such appaining laux pas are permitted so long will trenchant criti-cism be levelled at broadcast programmes. Another factor which is apparently un known to many programme organisers is the

fact that master musicians do not composimelodies without giving due consideration to the mood they will awaken in their auditors An operatic composer, for instance, does no compose his melodies first and then huni round for suitable words to string to then. Consider for a moment any well-known operatic aria, excluding perhaps those of the Rossini school, which were admittedly vocal pyrotechnics. It will be found that the composer has so created his melodies that they in turn create the correct "atmosphere," or mood, for the story which is being unfolded And this mood is subconsciously awakened in the auditor, even though he or she may not hear, or know, the meaning of the words.

Probably no better example of this can be found than the works of Richard Wagner. Here are pure tone pictures, created by the composer for the specific purpose of awakening certain definite emotions on the part of his auditors. And yet we find Wagnerian ex cerpts and operatic arias jumbled up in the most amazing manner in broadcast pro-grammes with numbers which are entirely different in content. One could point to scores of examples in broadcast programmes in Australia and New Zealand, but time and space do not permit of elaboration of this point.

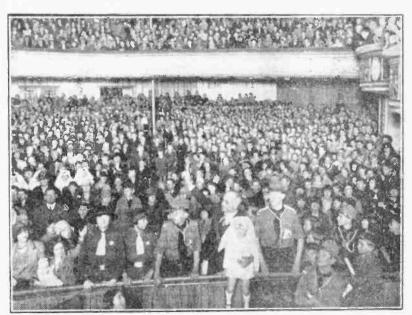
Still another fact is overlooked, or unknown, by most programme organisers-the effect on the auditor of different rhythms. How many of those responsible for the arrangement of broadcast programmes could state the difference between a fox-trot in 6/8 time and a fox-trot in common time? That there is a difference they will no doubt readily admit, but do they know the effect on a listener? It will be obvious, of course, that if a band march causes the feet to start tapping and arouses a martial feeling in the hearer there must be a reason-the reason. of course, being the well-marked and welldefined rhythm. If this is true of one form of rhythm is it not equally true of othe: forms? This is a subject about which most programme organisers have yet quite a lot to learn

Summed up, then, it would appear that there can be little hope for improvement in the standard of programmes unless and until they are arranged by those who possess the necessary qualifications for this by no means easy task. The material is available, particularly in recorded music-it remains for the broadcasting companies to secure the ser-vices of those who can "dress the window" effectively. Such men are admittedly not easily found, but a man or a woman with a all-round musical knowledge can good be trained to apply to musical knowledge the basic principles of artistic programme construction.

The programme organiser's task is by no means an easy one. He must be prepared for long hours of work, and must be unremitting in his efforts to present a well-balanced, wellproportioned entertainment, with judicious contrasts and a well-thought-out climax.

Window-dressers, of course, are highly paid by the firms who know their worth-and programme organisers, with such a vast number to appeal to, and seven or more "windows" to dress each week, should command substant! ally higher salaries. Perhaps in the case of broadcasting companies "that's the rub."

## SUCCESS OF CHILDREN'S PARTY



Probably the largest audience that has ever taxed the capacity of the St. James Theatre, as-sembled there on Saturday week, when the Radio Uncles and Aunts invited members of the Radio Club to be present at a gale entertainment provided by the Junior Red Orosa, Girl Guldes, Boy Scouts, and the pupils of Miss Kathleen Hannabury. Opportunity was afforded at the same time for the children to take leave of their "Uncle Bas" (Mr. Isail Kirke), who left the following day for Perth in the interests of GWF. The entertainment was held by the kind permission of Sir Benjamin and Mr. John Fuller, and the two thousand children present voted it one of the best entertainments ever provided for members of the Radio Children's Session. It was the first held under the auspices of the Australian Broadcasting Company, Limited.

The Wireless Hews

News

Diagara News Acrane

# Your Morning Newspaper AT Sea

A new service for voyagers which keeps them in touch with the world.

OUR first choice for the title of this article was "Newspapers at Sea," which, taken literally, is exactly what we are to write about. But, as someone was sure to read into it an underground reference to the condition of the modern press, we decided upon the one which now decorates the top of the page. Yet the first title might easily have stood in all senses, if we are to believe Mr. Marr, M.H.R., who had some caustic things to say about newspapers at sea, on his arrival in London recently. Why, asked Mr. Marr, wasn't there a better wireless news service on the ship on which he travelled? Why was it not possible for passengers to follow world events in exactly the same way as they do at home?

## In the Beginning

Ships' newspapers are not new by any means, but singularly few, except the widely travelled, know very much about them. They were begun many years ago, almost as soon as radio stations on shore began broadcasting news, and their development was rapid. In the first place they were just notes, scribbled by a wireless operator for the amusement of his favorite passengers. The shipping companies soon realised the value of this new service and gave the oneravalue of this new service, and gave the operators duplicators, typewriters, and instructions to issue a daily news bulletin. Then came the advertisement sheets, already made up in magazine form, in which the operator pasted his typewritten news reports, and which were sold for a consideration.

But it is the source of the news which evidently aroused Mr. Marr. Every power-ful nation was quick to realise the propa-ganda possibilities of a free radio news ser-vice. Thus we have Nauen, Germany, trans-mitting news of a distinct German flavor; Rochester, with a peculiarly American lean-ing, and Rugby, with the taste of whatever party is in power in England. The wireless party is in power in England. The wireless operator, therefore, must choose his news with a good deal of discrimination. Then there are other factors which prevent him extending his usefulness in this direction. News reports are probably the least vital of his duties; he has to handle a large amount of ordinary traffic in messages to and from passengers. Weather reports, time skrals, and other necessitles of navigation, also oc-cupy him. It is not always possible, there-fore, to provide news at sea in the way everyone would like, without considerable ex-pense to the steamship companies.

## Australian Service

But the demand for wireless news at sea is becoming more insistent, and more attention is being paid to ships' bulletins than ever before. This is well demonstrated by the rapid rise of the wireless newspapers of our own ships and ships on the Australian run.

On the right we re produce a selection of the handy daily newsheets published ahoard ships trading with Australia.

Early in 1923 the Niagara left Sydney 10. Vancouver with all the necessary equipment for the inauguration of the "Wireless News," the first daily newspaper to be published on board a British steamship in the Pacific Ocean. The issue of May 4, 1923, was an immediate success, and since that eventful day publication has been extended to most of the principal Australian and New Zea-land passenger steamers. Still later, the paper was published daily on the five Bay steamers of the Australian Commonwealth Line, which has since been sold to English interests. At one time the Bay steamers en-joyed the distinction of being the only daily newspaper publishers on the England-Aus-tralla voyage. And, indeed, to this very day, the first daily newspaper to be published on tralla voyage. And, indeed, to this very day, the only other ocean news sheets published on the Orient, P. and O., and other lines, are news bulletins which are not for sale, and do not carry advertisements, but are simply typewritten sheets of news drawn from Rugby and Australian stations, and distributed.

## "Wireless News'

Since its inception, the "Wireless News' nas grown from an eight page to a twenty-four page paper, which selis at threepence, and is published on all the larger passenger ships of the Australian mercantile marine. It is read by ocean travellers between all States of the Commonwealth, and between Australia and New Zealand, and Australia and the Far East. The news is typed on specially prepared stencils, is primted on board ship, and is released in magazine form for early morning distribution. The advor-tising columns contain a list of hotels, and firms interested in securing the patronage of sea travellers.

There are special settings for every port of call; for instance, a ship nearing Sydney prints advertising peculiar to Sydney firms, and a full sheet map of the harbor and city, and many interesting details, of which the following is an excellent example: "The the following is an excellent example. The traveller from abroad, entering the harbor for the first time, obtains his earliest im-pression of the city from the metropolitan air imparted by a mass of immense build-ings, standing on the elevations back from the water, and silvouetted in clear-cut out-line against the western sky." Thus does the wireless newspaper add patriotism to a strong sense of public service, and put Sydney on the map.

Then there is what an announcer might call an interesting resume of Sydney, and a list of places worth seeing. Turning over, we come to "Harbor Trips," which give details of the various places to which one may go when one hasn't the time to go anywhere go when one hasn't the time to go anywhero else. Also an essay on Sydney's historic features: another on Manly, and another on the Blue Mountains. Thus the traveller to Sydney is instructed in the necessary feat-ures of our civilisation, as well as in the general happenings of the world, before he enters our harbor. The same is done with every other port of call.

orangi

## How It's Done

The actual preparation of the news copy is done in Sydney, at the offices of Amalgamated Wireless, whence it is transmitted by landline to the transmitting station at Pennant Hills. Thence it is transmitted simultan-eously on two wavelengths; one for steamers eously on two wavelenguis, one of scenarers nearby, the other for steamers in distant parts. All publishing steamers are equipped with the company's receivers, and, irrespec-tive of distance, Australian news bulletins are always available for publication.

It is certain that we are fast approaching the time when complete and probably il-lustrated newspapers will be subliched the time when complete and probably in-lustrated newspapers will be published aboard ships touching Australian ports re-gularly. Already this is done on the large Atlantic liners, as Mr. Marr will, no doubt, observe, if he returns via America.

### WIRELESS WEEKLY

Friday, 9th August, 1929

# A BAN on BEETHOVEN and CHOPIN

An answer to Mme. Sonya Michell's suggestion that the works of the above composers be omitted from all musical programmes for two years.

## N the last issue of WIRELESS WEEKLY. under the above caption, appeared an interview with a visiting American "pianiste" (why pianiste?), Madame Sonya Michell. in which the lady, protesting too much methinks, is reported to have said inter alia:-

"I am thoroughly convinced that all musicians should agree, in the interest of both artists and audiences, to omit from their programmes for at least two years all compositions of (by?) Beethoven, and probably of Chopin as well. The world, including all musicians, who are too timid to admit the fact, is fed up with Beethoven.

"Some people have simply got the Beethoven habit as others have the opium habit. It prevents them from hearing the wonderful new harmonies of which the air is full. A great modern school of composers is at work to-day. Some of them will outlive Beethoven, Why should we cram Beethoven down the throat of our students when we can give them Stravinsky, Prokovieff. Schoenberg, and Ravel? It is like teaching a modern soldier to shoot with a crossbow."

Madame Michell professes amazement that Pizzetti is practically unknown in Australia, asserts that Beethoven's Symphonies, Sonatas, Quartettes, and Trios are so overdone as to become positively revolting, and that people look at her when she tells them that she hears with keen enjoyment and admiration such compositions as Honegger's "Pacific 231," Varese's "Ameriques," and Stravinsky's "Sacre de (du) Printemps." Madame plays "Sacre de (du) Printemps." Madame plays all the moderns she can lay her hands on and loves them.

Dislike for Beethoven allied to a love for "all the moderns" is an eccentricity which would arouse as little surprise in certain circles in America as the profession of hatred of Shakepeare and the reverential worship of Edgar Lee Masters and Miss Amy Lowell, or of contempt for Velasquez and Raphael, and adoration of Cezanne or Kandinsky.

Perhaps it is matter of taste, but I find it difficult to believe that any same musician could stigmatise the symphonies, sonatas, quartettes, and trios of the greatest master of modern instrumental music as positively revolting, merely because of frequent repetition

Madame Michell does us a service when she calls our attention to the work of the moderns, but she does her cause a dis-





service when she sacrifices Beethoven and Chopin on the altar of her modernity.

"The world is fed up with Beethoven," yet his compositions still find an honored place in the programmes of every great pianist and violinist and all the most illustrious orchestras in Europe and America (where, indeed, the finest orchestras in the world are to be heard). And why? Because all the great conductors and pianists and violinists are too timid, forsooth, to admit it.

Two years ago in Vienna, on the centenary of Beethoven's death, musicians from all over the world met and were "fed up with Beethoven," pure and unadulterated, for nearly two weeks.

As an American, it is perhaps not surprising that Madame Michell should hear with keen enjoyment Honegger's "Pacific 231"-an expressionist, patternless symphonic composition inspired by what was, when it was written, the latest American locomotive; and Paul Varese's "Americas," a frenetic imitation of Schoenberg. Stravinsky's "Rite of the Spring" may express the spirit of the age, but, to the sensitive ear, it seems barbarous, uncouth, cacophonous.

Pizzetti, director of the Milan Conservatorium, is in different category, and, in common with others of the modern Italian school, Malipiero, Casella, and Respighi, has done fine work. But these, though influenced by Debussy, are not disciples of Schoenberg or Stravinsky.

Prokovieff, though he formerly out-Stravinskied Stravinsky in the outrageousness of his harmonies and his impressionism ("Sarcasmes," "Sinfonetta," and the "Scythian Suite," for instance) is now writing more or less in the diatonic scale with some approach to lyricism.

Ravel is a refined and finished craftsman, chiefly in miniature. He has a typical French mind. Stravinsky's work is atonal, all sound and rhythm, signifying cynicism. 'The graphic ballet "Petrushka" is perhaps his masterpiece, but it is improbable that future ages will account him a great genius.

Arnold Schoenberg is a post-impressionist, post-expressionist, great musical theorist, and iconoclast, who has thrown overboard key, tonality, sequence, modulation-everything but sound, line, and color. He is the apostle of ugliness. The three men have exercised much influence on modern music, and Madame Michell, greatly daring, assures us that some of them will outlive Beethoven.

As a brilliant countryman of Madame Michell has observed, "The prophesying business is like writing fugues; it is fatal to everyone save the man of absolute genius."

As for Chopin, most musicians will be apt to prefer the estimate of Rubinstein: "The piano bard, the piano rhapsodist, the piano mind, the plano soul is Chopin. Tragic, romantic, lyric, heroic, dramatic, fantastic, soulful, sweet, dreamy, brilliant, grand, simple. All possible expressions are found in his compositions, and all are sung by him upon his instrument."

Madame Michell quite justly deplores the fact that we know so little of the moderns; and we should approach their work with a perfectly open mind. Beethoven and Chopin were both great innovators, and both suffered from ignorant contemporary criticism.

But heretofore, at least, no great advance in art has been made by complete revolu-tion, or topsyturvydom. There seems to be tion, or topsyturvydom. a law of growth in music as in life; and music, like nature, nil facit per saltum.

It is unlikely that Chopin will be dis-placed from our repertoires or our affections by any of the original atonalists, or their host of imitators. And most musicians will agree that the music of Beethoven is still unsurpassed for nobility, grandeur, and sub-limity-emotive and intellectual.

## A VOCAL and an INSTRUMENTAL QUARTETTE for 2FC.

The British Musical Society's Quartette.

NR. MOORE M'MAHON, violinist, is the leader of this quartette, with Miss Allison Short as second violin, Ruth Conway viola, and Athos Martelli 'cellist. Moore M'Mahon is well known to listeners as a soloist, and is an artist of note. Miss Alison Short is a pupil of W. J. Coad, of the State Conservatorium, Sydney. Miss Ruth Conway is a pupil of Henri Staell, of Sydney, ind has toured London and the Continent. Athos Martelli has had a varied and extensive

career as a 'cellist. He studied in Pesavo, Italy, and later with Hugo Becker, in Berlin. He also played in Toscanini's Orchestra, which is one of the finest in the world. at La Scala, in Milan. The Instruments used by the quartette are Guarnerius and Bergonze violins, a beautiful French viola, and a very rare Gaspro de Salo 'cello.

## The A.B.C. Male Quartette

()NE of the many interesting groups of artists appearing on the Australian Broadcasting Company's programmes, is the A.B.C.

Male Quartette. The quartette first came into prominence some eighteen months ago, when they operated in and around Sydney and suburbs. They have been principally engaged in Eisteddfod work, their most recent success being in the Radio Eistedufod promoted by the New South Wales Broadcasting Company. They were known as the Radio Male Quartette, but have since changed it to the A.B.C. Male Quartette. They have a fine repertoire, ranging from the classics to the most popular jazz num-

They will appear regularly from 2FC bers. and 2BL

Friday, 9th August, 1929

DMING UP FOR YOUR JUDGMEN

Next Week's

roorammen

Professor BUDDEN MORRIS, Pianist.

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STANLEY R. CATLETT. Tenor.

### Murdoch-Conservatorium Orchestra

ON Saturday Sydney will have an opportunity of hearing one of the finest classical concerts ever presented in this city, at prices well within the reach of all. This will be on the occasion of the Australian Broadcasting Company's first classical broadcast concert, which will be held at the Town Hall, and which will enable music-lovers to hear the State Conservatorium Orchestra of 75, under the conductorship of Dr. Arundel Orchard; William Murdoch, world-famous planist; and Mr. Spencer Thomas operatic tenor and Professor of Singing at the Conservatorium. Popular prices only (2/, 3/3, 4/4) are being charged for this concert, and the advance booking plan is now open at Paling's.

Among numbers to be presented by the Conservatorium Orchestra are the overture from William Tell; the "Peer Gynt" Suite (Grieg); "Minuet" (Boccherini); Symphonie Poem "Phaeton" (Saint-Saens), William Murdoch's presentation will be Beethoven's Concerto in C Minor, No. 3. Mr. Spencer Thomas, who came to Australia with the Quinlan Opera Company as principal tenor, and later returned to accept the post of Professor of Singing at the Conservatorium, will render a number of vocal excerpts from the classics.

The directors of the Australian Broadcasting Company, Limited, are endeavoring in this series of concerts to make it possible for the public in Sydney to hear outstanding programmes at considerably reduced prices, and if the support is forthcoming an endeavor will be made to secure the very best talent available.

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## The Turret Players

THE Turret Theatre was brought into existence by its managing director, Mr. Dor Finley, who designs all the scenery of the plays that are produced at the theatre, which is situated at Milson's Point. He has the assistance of some of the leading men and women of Sydney. The Turret Players will present a one-act radio play. "Danger," through 2FC, on August 15, when the artists will include Miss Phyllis Magrath, Mr. John Gould, and Mr. Richard Parry.

## English Actress Says Something

MISS ANNIE HUGHES, the well-known actress, will speak on Queen Mary on August 9, in her series of "Great Personalities I Have Met," from 2BL VIRGINIA BASSETTL

## Miss Mimi Gressier

MISS MIMI GRESSIER, young Australian lyric soprano, will appear shortly before the listeners of Sydney. She has a fine ra-clo personality. Miss Gressler left for abroad a few years ago to continue her vocal studies in London under Miss Nellie Rowe, and later in America she took lessons from While in America she at-Sergei Klibansky. tracted the attention of Dame Nellie Melba who made arrangements for a scholarship for Miss Gressier at her own conservatorium in Melbourne, but circumstances compelled her to stay in America. Miss Gressier has met with notable success abroad, giving reci-tals in London, and in the leading cities of America, appearing in Boston, Chicago, Detroit, and St. Louis. She will appear in a series of recitals through stations 2FC and 2BL. her first being through station 2BL, on August 9.

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## Virginia Bassetti

MISS VIRGINIA BASSETTI will appear over 2BL on August 11. She has been associated with broadcasting since its inception, and she has received letters from outof-the-way corners all over Australia and New Zealand. Miss Bassetti has appeared with great success with the Royal Philharmonic Society, the Welsh Choral Society and all the leading Scottish societies. Her most recent appearance was with Harold Williams at the Sydney Town Hall, in "Elijah." Miss Bassetti specialises in classica! numbers, oratorio, light ballads. and Lieder

## Stanley Catlett

ONE of the most popular tenors in Sycheis Stanley Catlett, who will be heard through 2BL on August 11. Mr. Catlett has been singing over the air for a number of years; in fact, he was associated with broadcasting before it was actually established in recognised studios, and he had to sing through a telephone instead of a microphone. ELMA PERDRIAU, Monologues.

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PHYLLIS MAGRATH.

### The Public Forum

THE Monday midday talks under thes neading are given from the studio in Sydney by Rev. V C. Bell, B.A., a clergyman well and widely known throughout the State. The subjects are always full of human interest, and the aim of all the talks is to make listeners-in feel that life is worth while. Literature, travel, history, economics, psychology, art, and other branches of thought and experience will be called upon to contribute material from week to week.

The weekly lectures will roam over all periods for material. Mr. Bell holds that no one age has a monopoly of the good things, but that there is something of interest and value, if we can find it, in every part of human history. For this reason he has used what we regard as a new word; it is "Chronopolist," or one who claims to be a citizen of all time. This will be the keynote of all his talks.

### National Broadcasting Orchestra

OWING to the success of the dinner and luncheon music through stations 2FC and 2BL, the directors of the Australian Broadcasting Company, Limited, have decided to utilise the National Broadcasting Orchestra for the supply of luncheon music between 12 and 1, through 2BL, and 1 and 3 through 2FC. The dinner music sessions are heard through both 2BL and 2FC from 6.15 to nearly 8 o'clock, and the National Broadcasting Orchestra will also provide music for both sessions.

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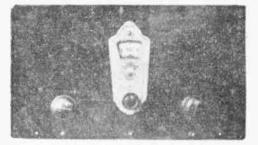
## **Old-time Dance** Night-2FC

AN old-time dance night is listed for Tuesday, August 27. Listeners who are anxious for any particular old-fashioted waitz or lancers tune they want to have broadcast on that occasion are asked to send in their request items immediately to the Australian Broadcasting Company, Limited, 96-98 Market Street, Sydney.

## Well-known Psychologist

FRED ARLINGTON-BURKE, who has been everywhere and seen everything, has chosen "Nature's Laws of Compensation" as the subject for his weekly radio address over 2BL on August 13, from 2.30 to 2.45. He will give reographical peculiarities of flora and fauna. WIRELESS WEEKLY

Friday, 9th August, 1929



The front panel of the unit described.

(TH THE DETECTOR unit about to be described, the amplifier discussed last week may be connected up to form a very effective local broadcast Though no extravagant claims are receiver. to be made, it can be said that the com-bination of this detector and the three valve amplifier will provide reception limited in musical quality chiefly by the characteristics of the broadcasting station being received.

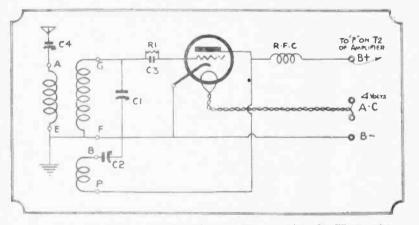
The circuit is quite straightforward. The chief differences from the usual circuit lie in



Although designed more particularly for use with the standard high quality amplifier described last week, this unit may be operated as a simple receiver in itself.

this case regeneration is controlled by means of the filament rheostat).

The method that concerns us most at the moment is that of fixed reaction with vari-able condenser. There are three ways in which the condenser may be used. In this circuit, the moving plates of the reaction condenser (a midget condenser is used) connect to the moving plates of the main tuning condenser, and also to the cathode of the The stator plates are connected to valve. one side of the reaction.



The skenik consugement of the single valve unit. The parts include: One UY type valve socket and Phillps Eith valve. Ci. "Central p.", and mid. tuning condenser (Advance). Cr. if he but here is get colls nors, and Radiokes "Brillarsta" type coll, one Radiokes radio frequency choke C3, grid or denser, should mid. (Nangame). Bi, one megohn grid-leak. Filed Art versifier dial.

There is nothing intricate about the circuit. As will be seen, the aerial connects to the first turn of the primary coil through a midget condenser. This allows adjustment for selectivity. The two midget condensers actually perform the same adjustment as would be possible by having the primary and reaction coils variable with relation to the secondary. Selectivity is increased by moving the primary further away from the secondary (or turning the plates of the aerial condenser outward) and sensitivity and selectivity are increased by placing the reaction coil nearer the secondary (or enmeshing the plates of the reaction condenser).

The other end of L1 (aerial coil) connects to earth, and thence to the last turn of L2, to the rotor plates of the main tuning condenser, .0005 mfd., to the cathode terminal of the valve socket (of the UY type) and to the rotor plates of the reaction condenser.

The first turn of the secondary (L2) connects to the stator plate of the .0005 condenser, then to one side of the grid leak and condenser. From the other side of the grid leak and condenser, a lead is taken to the grid terminal of the valve socket. A lead is then taken from the plate ter-

minal of the socket to the last turn of the reaction coil. The other side of the reaction coil then connects to the stator plates of the reaction condenser. An additional lead is taken from the plate of the valve to one side of an R.F. choke, the other terminal of which is carried from the set to the plate of the input transformer (if the amplifier is to

results.

The next point is that special attention has been paid to the reproduction of the higher notes. It is not generally known that the grid condenser has the effect of limiting the reproduction of the higher frequencies (we refer to audio, not radio frequencies) and it is generally believed that a .00025 grid condenser is suitable for any receiver. This sup-position is correct—but because a thing is "suitable" it does not follow that the very best of results are obtainable with it.

This is only one of the stereotyped ideas that exist. Another is prevalent regarding the method of regeneration. There are outc a number of methods available. Some build ers prefer one method, and others plump for another. A lot depends on circumstances, and these include financial resources, space available, vernier required, type of circuit, and other things. There are, for instance, the following principal methods of obtaining regeneration: Use of a tickler coil the coup-ling of which is made variable by its relation to the secondary, i.e., variable reaction coil; fixed tickler with variable by-pass condenser, fixed reaction coil with variable resistance; fixed reaction coil, and fixed condenser (in

two things. First, in order that the unit may be used in conjunction with the all-electric amplifier, an A.C. valve is used. This does not mean that the detector unit cannot be used with any other type of amplifier. It may be used, if desired, as a straight detector with no audio stages with quite good

Back papel view of the unit.

Friday, 9th August, 1929

## WIRELESS WEEKLY

Page Eleven

# DETECTOR UNIT

The circuit is quite straightforward and presents no difficulties for the amateur constructor. As material for a first attempt at radio construction it is ideal.

be used), or to one of the 'phone terminals if the receiver is to be used without an amplifier. With the amplifier, the B plus terminal of the input transformer is already connected to B plus, but if the receiver is to be used as a single valve receiver, the other terminal of the 'phones will connect to B plus (about' 30 volts).

Approximately one yard of insulated ousbar (electric light flex may be used) is twisted together as shown in the photograph, and two of the ends are connected to the filament terminals of the valve socket The other two ends are taken to the filament supply transformer of the amplifier unit. or to a four-volt accumulator if desired.

In a receiver using A.C. particular care must be taken to reduce all possibility of A.C. hum. Grid and plate leads should be kept as short as possible. A good arrangement which allows short leads without cramping, and without spolling layout. Is shown in the photograph.

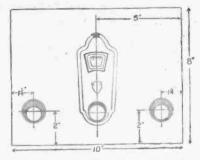
Holes should be drilled beside each component, and the leads taken to their destination below the baseboard. This not only makes the set look neater, but also keeps all wires away from the fields of components. an important factor in a detector A.C. unit. In the amplifier described last week, pro-

In the amplifier described last week, provision is made for the B negative connection. so that no additions or alterations need be made to the unit here described.

If, however, the constructor desires to use the unit as a single valve receiver (this may be done quite efficiently by using a filament; transformer to supply four volts A.C. for the filament, and a "B" eliminator or 45 volt "B" battery for plate supply), the B negative connection should be connected to the cathode terminal of the valve socket.

A Radiokes coll (Reinartz type) was used in the original receiver (which only took about two hours to make) but in case any difficulty is experienced in procuring this coll, the following data may prove useful: On a three-inch diameter former wind 12 turns 26 gauge D.C.C. wire. Space 3 inch then wind 47 turns of the same wire. Space 1-8 inch, and wind on 35 turns. The first coll is the primary, the next is the secondary, and the last reaction.

The actual construction of the unit presents no problem. The panel should receive first attention. That used in the receiver we are describing was made up with a panel measuring 75 inches by 13 inches, but this can be made much smaller if desired. It is a matter that rests entirely with the constructor, who may desire to mount the unit in a cabinet together with the amplifier and



Showing one possible lay-out for the panel.

gramophone, or in a small cabinet as a single valve receiver.

The drilling of the panel is made extremely simple by the template that is supplied with the vernicer art dial. The two midget condensers should be mounted on the panel in positions corresponding to those shown on the photograph. Keep these as low as possible, so that the leads may be taken below the baseboard, and also for the sake of appearance. Care should be taken when mounting these midget condensers to see that they are not too low, otherwise they

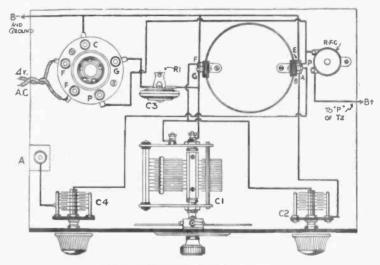
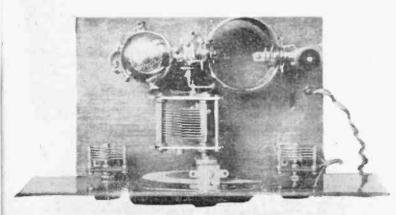


Diagram showing layout of parts and wiring.



Plan view of the unit.

will foul the baseboard. If the hole for the condenser spindle is drilled approximately 23 inches from the bottom of the panel, this distance will allow the midget condensers to be mounted at an equal distance from the bottom of the panel, glving just enough room to clear the baseboard without complicatious.

If the baseboard is a inch thick, the mounting holes in the panel should be drilled a inch from the bottom (one in the centre, and one at each end, approximately three inches from the sides of the panel). A good guide is provided by the holes made for the condenser spindle of the midget condensers. These were made exactly three inches from the sides of the panel, and in a line almost with the vernier control knob.

The layout is fairly symmetrical. Looking down on the receiver, with the baseboard facing you, the valve socket is placed on the left side of the baseboard, with the grid terminal facing the grid terminal of the coll, and so placed that the grid lead to the vari-

Friday, 9th August, 192

WILLIAM

BOSSENCE

Barrow

Artist Marguerite Mahood has sketched some popular broadcasters who appeared at 3LO on the opening night, under the new management. Left to right: Edouard Lam-bert (first violin). Bertha Jorgenson (violin), Percy Code (orchestra leader), Joy M'Arden (soprano), a large part of the orchestra, William Bossence (baritone).





# Melbourne Broadcasting Features

## Raymond Lambert at 3LO

THE young Continenetal planist. Raymond Lambert, will be giving a short recital from 3LO on August 13. Though Monsteur: Lambert has been in Australia a comparatively short time, he has established himself in the front rank of musicians, and has held several successful recitals. He studied his art in Brussels under the world-famous pianist. Arthur De Greef, and made his first public appearance at the age of ten. Though still in his early twenties, he has gone far in his chosen profession.

## Famous Women in History

A SERIES of talks, "Famous Women in History." is being given from 3AR by M ss Jessie Webb, who will take for her sub-ject during the Women's Hour on August 16, the Greek poetess. Sappho. This series has been arranged with the idea of giving a brief outline of the lives of famous women, and of keeping listeners in touch with the progress of "the eternal feminine" throughout the ages.

## Child Mimic

ADGE GUNNER, whose child studies have made her a most popular concert artist, will be heard over the air from 3LO on August 13. Possessed of an agreeable, well-trained voice, a sense of comedy, and the gift of mimicry. Miss Gunner has all the qualifications for a radio entertainer.

## For Dog Lovers

ISTENERS who are interested in the breeding of Alsatlan dogs will learn much from the talk to be given from 3LO on Au-gust 15 by Mr. Norman Mitchell, the president of the Canine Control Council. The "Talks About Our Animals" series is prov-ind deservedly popular, and, in view of the fact that the advisability of breeding the Alsatian in Australia has recently been dis-cussed in the press, this talk should be of considerable interest.

## Baritone Robusto at 3LO

REDERIC EARP, whose robust baritone voice lends itself admirably to the folk songs of the West Country, will be on the air from 3LO on August 12, in a programme of early English numbers. For many years Mr. Earp was director of singing at the Teachers' College.

## NEW PROGRAMMES You Cannot Afford To Miss

## Life's Sterner Side

HOSE who would like to overcome the ills and perplexities of life should pay close attention to the series of talks to be given by Mr. J. A. Gunn, Professor of Psy-chology at the Melbourne University. The sterner side of life's problems will be treated in a genial vein by the professor.

## Popular Fredu Northcote

REDA NORTHCOTE will be singing some dainty little numbers from 3LO during the Children's Hour on August 13. Miss Northcote is one of the most popular broadcasting artists, and has been particularly successful in competitive work, securing many first prizes. Her little pupils will be on the air again at an early date.

## Grand Opera Company Contralto

MISS CLAIRE SCOTT. who will shortly make her debut at 3AR, is a contralto with much operatic experience with the Melba Opera Company, being selected to tour with the principal artists throughout Tasmania. Miss Scott studied in England under Madame Marchesl and, since her re-turn to Australia, has taken part in important musical productions.

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## The Confidential Two

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A TALENTED pair, contralto and piano. aptly styled "The Confidential Two, will be making their debut at 3LO on August 12 in a programme of tuneful vocal and in-strumental numbers. Some original compositions will be included in their selections with popular and classical excerpts. .

### Australian Writers

LOVERS of literature will be interested in the series of talks to be given by Mr. Percival Serle, the well-known authority on Australian writers. In these days of imported literature, we are apt to forget our own gifted writers, many of whom have achieved considerable distinction in the world of letters. and these talks will do much to keep their memory green.

### Ern Trotman and His Banjo

1100

ISTENERS should remember to tune in 3LO on August 13. when Ern Trotma and his banjo will be on the air. This ve satile entertainer is known in every corn of Australia, and his original numbers a ways strike the popular taste. Particular entertaining is his burlesque of Grand Oper in which he caricatures every type of voic

## The Radio Magician

large part of I

GUS QUINN, the radio magician, has step ped into immediate popularity with li teners, as, after his first appearance at studio 3LO, a host of congratulatory letters a rived, asking for more. Unlike the majo ity of magicians. Mr. Quinn does not be on an extensive stage setting, but dependent on his nimble fingers to get his effects. H programme of radio tricks with cards equally mystifying, and "even at the othend of the ether" he is able to discover what number the listener has written on his sl of paper.

## Champion of Champions

HAROLD WEBB, a fine Melbourne bar tone, will be heard from 3AR on Ar gust 13, in some rousing numbers. Mr. Wel is well known in the musical circles Melbourne, and has also made many su cessful tours of Victoria. He has been su cessful in competitive work, and, a few yea ago, gained the coveted title of "Champio of Champions."

## Well-known Dramatic Entertainer

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KEITH DESMOND will be on the air from 3LO on August 13, in a specially so lected programme. Mr. Desmond has we fame on both sides of the Atlantic, and has appeared in London on the same programme with such distinguished artists as Sir Her bert Tree and Sir George Alexander.

## Boy and Girl Life

AN interesting talk will be given from 3LO on August 12 by Mr. N. D. Harpe ALO on August 12 by Mr. N. D. Harpe M.A., the well-known lecturer on Englis history. For his talk Mr. Harper will giv outlines of boy and girl life throughout th ages, touching on the educational and hom life, and drawing some little word pictures of the world of youth in bygone days.

## WIRELESS WEEKLY

A Dramatic Discussion on Radio Drama, With Mr. Don Finley, of the Turret Theatre. in which the participants allow themselves complete freedom, although bound down by the harsh wires of Society.

OBRAMME

Time: 8.0 p.m

Cast: Mr. D. J. (Don) FINLEY and THEY and Us.

X 3462? TISI

THEY: Turret? Yes-X 3462.

Us: Oh; Mr. Finley there, please? THEY: Yes. Just one moment, please. (Feet in distance. Feet coming nearer. Voices murmuring)

tell you? We want an interview, Mr. Finley. Us:

We understand you're going to put over a play\_er\_Danger, or something\_very soon. from 2FC. We\_ar\_\_\_

HE: The fourteenth of August, I think. US: Fourteen August. We see. Yes. Er-and we understand you are interested in Radio Plays; er-we understand you are going to put over some more? HE: Yes. I understand we are going to

put over some more in the future—a series. Something quite new. You see, we of the Turret stand for the New Drama-the Modern Outlook.

Us: The Modern Outlook?—er. HE: Yes; we believe the Radio Player. demands-ah-a New-er-Technique. That is, a New Medium must be created. Ordinary plays are-well-no good at all over the air-you know that, of course. Er-we shall go in for-er-specially adapted plays, or plays written specially for-

or Phantastic stories that appeal to the Imagination than to.

Us: Quite so, Mr. Finley

HE: You see, on the Stage the Appeal is to the Eye. Er-Radio-that is, with Radio the Appeal is purely to the ear and the In-

what I mean-

Us (quickly): Oh, yes, Mr. Finley. HE: What I mean is, the Overtones-

Us: The Overtones?

HE: Yes; the Overtones can never be con-

veyed across the Footlights. Us: These Overtones. What are these-

er-HE: The hidden qualities of Drama. They

are never brought out on the stage because —er—there's too much to see, you see? Us: Of course. The Sight destroys the

Thought?

HE: Yes. Well, we wish to present a Radio Play of more imagination. Er-I believe that Radio will make possible a Richer Type of. Drama.

Us: Now; let's see. Er-is there any such drama available, Mr. Finley?

HE: There's Richard Hughes-he wrote Danger. He makes a more or less crude, or -er-Elemental attempt to express the-er -thought of horror in-er-Darkness.

Us: Horror in Darkness? Er-ves ,

HE: Of course; well, it remains to be proved whether we can-can contribute to the Drama of the Air-er-

Us. Er-

(16)

HE: Yes, Extemporised. Written or adap-ted. You see, the Visual Effect is left out. We shall just do these ordinary plays just now: but in the near future we hope to branch out into a newer form. Now-Us: Shakespeare, Mr. Finley. He's a very imaginative chap. How'd his stuff go over.

do you think?

HE: Well, of course, Shakespeare is the nost imaginative of all writers. His er-appeal is always to the imagination-quite of another world. For example, Gordon Craig designed settings for Shakespearean plays-absolutely removed from Realities-just as abstract conception. But-ar-of course, Shakespeare didn't write for the Radio. Us: No-er-no. Of course not!

He: If he had, you see, he would have created a new lyrical dramatic form.

Us: Exactly so. Yes, that's right. You know, lyrical stuff ought to go better over the air than anywhere else. We mean, Keats. Some people think it's possible to put Keats over the air. He should go very well-ardon't you-

HE: That's so. In fact, he should be oct-er. For instance, you can take this as an example. An English family of Poets-the Sitwells-

Us: The Sitwells. HE: S-I-T-W-E-L-L-S-two brothers and one sister-made an experiment. They gave a programme of Verse Speaking through a Megaphone bidden behind a Cuttain. The sound came through a Mask on the Audi-ence's side of the curtain. The verse was delivered shortly and crisply, according to its phrasing; just as music is played. The-re-Idea was the ar-remove the Scooler

Its pirasing; just as music is played. The— er—Idea was to—ar—remove the Speaker from the Speech, if you see what— Us: Oh, yes, Mr. Finley. HE: Well, people who were there thought 't was a great improvement on the old elocu-tionary forms. But you—er—you—you see. you'd need a special audience, if you see-

Us: Oh, absolutely. You mean, an aud<sup>h</sup> ence which can appreciate good poetry. HE: Yes. The idea has been exploited in

America and in England; but you-ar-you see, it's no good unless there is a constant audience, listening specially for it. I don't think we'll do anything quite like that. Us: Exactly. Now, Mr.—er.—Mr.—ar.—Mr. Finlay—we mean, Mr. FinlEy, how about a

short Biography?

HE: Oh. yes; Biography A good study Yes. But what-

Us: No-er-what we mean is; we generally You see, this is "Wireless Weekly" you see, and we ar-write up people's Life Stories-you see? Well

HE: Oh, yes. I've seen "Wireless Weekly." A very good paper. Yes; there's often some very good stuff in it. I've seen it.

Us (sardonically, as befits a journalist): Yeahs!

HE: Well-

Us: Well, what we want is a short bio-graphy of D. J. Finley.

HE: Oh. I see. Let me see-the-er-Tur-Theatre is the first definite non-professional organisation to have its own Theatre in Sydney-

Us: Yes.

HE: We are here to give the Public what they don't want-no. What they want, but don't know they wait—in- the world's best Classical Drama, old and new. For instance, there are two rehearsals going on at this moment; one of "The Passion Flower." by Benavente, a Spaniard, and the "Romantic Young Lady," by another Spaniard, Sierra. These are-

Us: Did you say Damabentey?

Benavente-B-E-N-A-V-E-N-T-F. HE: Yes. And we've just put on Goldoni's "Mine Hostess." The Turret Theatre was begun last August, and you can say we've produced four new plays, and—ar—Alfred Hill's Opera —ah—"Teora," since April this year.

Us: Yes; but what about you? You see, we want something about-

HE: Well, I direct the business, you see.

Us: Oh! Yes, but-

HE: Of course Gordon Cralg is the Proubet of the modern theatre.

Us: Of course. And you are a follower of Gordon Craig? What's he-an Australian? HE: Oh, no.

Us: What; an American?

HE: Oh, no. An Englishman. Us: Of course; an Englishman. And when dld you first get interested in Gordon Craig?

HE: About six years ago. Us: And you've followed him ever since? HE: Yes-----

Us: But look; we understand you are-ersomething of an expert in Theatrical scenery,

Mr. Finley-

HE: Why, of course. I mean, you see-that's my main interest. Now, do you think you've got enough to write about? Us: Have you any other hobbies. Mr. Fin-

ley? HE (reproachfully): The theatre is my

HE (reproductionly), and the enough Mr. Us: Yes; that ought to be enough Mr. Pinley. Thanks very much— HE: Oh, quite all right. Yes. Well— HE: Oh, quite all right. Yes. Well—

Us: Well, yes, Mr. Finley. Thanks very much, Mr. Finley. Sorry to have bored you so long, Mr. Finley. Good-bye.

Page Fourteen

## WIRELESS WEEKLY



dio in Australia and New Zealand.<sup>11</sup> Incorporating "Radio in

FRIDAY, AUGUST 9, 1929.

## **MUSICAL APPRECIATION**

ADIO is bringing about an in-K creased study of instrumental and vocal music throughout the The best of our artists, percountry forming frequently over the air, are inspiring many listeners to develop their own musical talents.

Evidence of this is assembled from correspondence received from listeners-in. All kinds of requests for musical advice are made-where can particulars of musical scholarship be obtained, where to find a good ohoe instructor, can one learn musical notation by mail, how to decide whether one is a soprano or a contralto, whether or not an English horn can be played by a girl.

The better-known performers appearing at the broadcasting stations whose profession it is to give musical instruction find that many of their pupils were directed to them as a result of listening-in. Invariably also a microphone performance of a famous musician, such as Brailowsky, will enthuse hundreds of people with the desire to play. Others, already fairly adept at playing an instrument, listen to the interpretations given by artists over the air, and practise the compositions accordingly.

Sudden waves of musical interest are often observed after the visits of famous musicians, but seldom outside those circles which attend the 'fown Itall concerts. The influence of broadcasting, far wider and more permanent than this, reaches people who may possibly be unaware of the existence of visiting musicians.

It is in this direction that broadcasting exercises its greatest value as an Without a educational medium. doubt the next generation will have a much more intimate knowledge of music, not only because they are hearing more, but because many are studying it themselves. This will not neces sarily result in a greater number of professional artists to ghut the musical market, but it does mean that there will be a deeper appreciation of the art, since personal study cannot help hut make for greater understanding

Here lies the true educational work of broadcasting. Organised properly, it can become both entertainment for some and instruction for others. Beside this influence, its use as an educational medium in other directions falls into insignificance.

## A.B.C. EDUCATIONAL POLICY

IN discussing the policy of The Australian Broadcasting Company with regard to its educational activities, Mr. Stuart F. Doyle, on behalf of the directors of the new company, said recently that whether it be for good or for evil, wireless is, and must increasingly become, a great factor in influencing the minds of the people. So long as they listen in they will be, to a more or less extent, led by the power of speech and music and song.

Music becomes popular by its continual rendition. Its devotees increase in number because of its repetition, and so it is with every class of broadcast entertainment, recreation, and education. It is the policy of The Australian Broadcasting Company, therefore, to exercise the greatest care in selecting the programmes. It must remember at all times that the National Broadcasting Services will be a powerful influence, not only in spreading propaganda throughout the land and in stimulating a revival of musical appreciation, but in opening up for the public avenues of education and recreation hitherto undreamed of.

The vast majority of listeners requires only music and entertainment; but there is an ever-increasing minority which depends upon wireless broadcasting for church services and educational talks and lectures. This minority will be adequately catered for, and services will be extended with a view to increasing the educational appeal of radio.

Lovers of dance and popular music need not fear, however, that their needs will be curtailed in the new era of broadcasting. As a matter of fact the increased transmitting times of the stations will enable the broadcasting of more music of every class, and the dovetailing of the services will picvide listeners with alternate programmes.

"It is the policy of The Australian Broadcasting Company." concluded Mr. Doyle, "to bring Australia into line with England, Canada, and the United States of America, in which countries extensive use is made of radio for educational purposes, and by cooperating with the Federal and State Governments and universities to re-organise the educational sections of The National Broadcasting Services, having regard at all times to the requirements of every section of the community.

## **Oscar** Lind

NR. OSCAR LIND, who speaks every Wednesday and Friday from 10.30 till 10.45 from 2FC on general sporting, and sporting personalities, is one of the most versatile and capable sporting men in Sydney. For six years he was sporting editor of the "Dauy Telegraph" (Sydney), and has contributed articles on all varieties of sport to almost every sporting paper in Sydney. Mr. Lind is recognised as an expert in all forms of boating, having been associated for some years with yachts, open boats, and steam boats. He was a member of the crew of the "Amy" when she won the famous inter-State championship. He has played the four games of football, starting off as a schoolboy Australian Rules player, and finishing as a leader in soccer football, and also being an exponent of Rugby Union and Rugby League. He has acted as manager to Speedway racing, and the publicity expert to cycle racing on the Velodrome. There is scarcely a branch of sport that Mr. Lind has not at one "ime or other been associated with.

BUYING THE NEW SET 141



Being Unable To Decide On What Set To Buy-He Picks One This Way

Friday, 9th August, 1929

WIRELESS WEEKLY

Page Firteen



Readers are urged to express their opinions on matters pertaining to broadcasting. 11 you have some grievance, if you have some constructive criticism to offer, here is your chance of expression --- your safety value. The

## Same Artists at Both Stations

Dear Sir,--Probably it is a little early to criticise programmes submitted by the new criticise programmes submitted by the new broadcasting company, although so far, in my opinion, the improvement, if any, is not noticeable. There is, however, one thing that has been introduced against which all lis-teners should strongly protest, and that is, substituting artists at both stations on the same evening from 8 p.m. onward. On the 24th inst. nine artists did a turn at 2FC and 2BL; on the 25th inst., twelve; on the 26th net, and according to your published

2BL; on the 25th inst., twelve; on the 25th inst., ten; and, according to your published programmes, the same thing applies next week. Sunday there is a relay from 3LO-one programme for two stations. The public wants variety, and if the Aus-tralian Broadcasting Company cannot afford to engage sufficient artists for two stations, let then i hand over the other to another company. This policy of cheapness is no cond to the public Bed as some of the procompany. This policy of cheapness is no good to the public. Bad as some of the pro-grammes given by the old company were, they did not "put over" this stunt. One is inclined to think the P.M.G. did not intend that programmes should be given in this manner, and it would appear that the Aus-tables Proceeding Company hour in the tralian Broadcasting Company have put one over him.

fr num. If a continuance of this policy is to be lowed, why have two A class stations? allowed, why have two A class stations? Thank goodness, we still have good B class stations to fall back upon. although, unfortu nately, they do not derive any revenue from licence fees. In passing, I sincerely hope we shall not be inflicted too much with the State organ, the tone of EVERYTHING to be desired. which leaves

### Yours etc. CHAS. F. GERARD Hurstville

### Site of 2BL

Dear Sir,---May I be permitted to congratulate the Australian Broadcasting Com-pany on their improvement in the programmes, and may I offer a suggestion which will greatly please all listeners in the neigh-borhood of 2BL (if carried out); that is, to remove the transmitting station of 2BL farremove the transmitting station of 2BL far-ther afield? I would suggest the heights of Casula, on the old A.I.F. camp site. People in Randwick, Clovelly, and Maroubra would then be encouraged to spend a few more pounds on radio. Someone will say, "get a selective receiver." Yes, that's all right, if you have plenty of money: but what about crystal set owners—as nothing under a four or five-valuer will out them out? or five-valver will cut them out?

Yours etc Maroubra. SIXTH LICENCE . .

## Blank Programmes

Dear Sir,—Allow me to protest against the new A.B.C. published programmes. What care we for the names of these won-derful artists! It is what they sing and play and say we are after. The new company must be berefit to think we are going to lis-tor to OUE station the balance of the state of the state. must be bereft to think we are going to lis-ten to ONE station the whole evening on chance. Unless I get DETAILED pro-grammes, I shall sell my set and discontinue my licence, and thousands of others would do the same. I am a little bit afraid we are going to over-theatreised! WAKE THEM UP!

Boondall, Qld.

Yours etc., J. F. CLARK.

## Carry on Old-time Nights

Dear Sir,-In your issue of 12/7/'29. I read with interest a letter signed "Old-Timer." Tarana. Unfortunately, I was away, and not able to listen to the last dance, and there-fore did not hear station 3LO announce on the night of 24/6/29 that it would probably be their last old-time night. I am a lover of jazz music, but always look forward to the old-time dance music so ably supplied by Hoffman's Dance Band.

I would like to beg of our new broadcasting company to carry on an old-time night from 3LO once a month. There would be a lot of disappointment from the general isteners-in if this so much enjoyed and looked for night were cut out.

Hoping to be able to read other readers opinions on this subject, also wishing that "Old-Timer's" wish comes true.

Yours. etc.,

Curlewis

## A. H. GROSSER

Dear Sir,-In common with "Old Timer." writing in the last issue, it was with a sigh of regret that I also heard the announcer from 3LO say that possibly that would be their last old-time night.

If unfortunately this should be, then I yenture to say that it will be more than a knock-back, it will be "knock-out" to thouas the monthly old time programme from 3LO, together with the popular M.C., Hoffman's Dance Band, and girls and boys of the village was in itself worth the license fee.

What about it, "old-time friends"? Insist upon the privilege of our regular monthly treats as of yore .- Yours, etc ... Maroubra.

## We Pay for Service

Dear Sir,-I agree with "Country Listener," we pay for service. Why has the early morn-ing and midday and late news session been cut out from 2FC. When those living in the country and near Pennant Hills have to depend on 2FC for their news items, could not some of those brain-racking violin solos be cut out for the news session?

### Yours etc., A LISTENER-IN

IF

### .

## Market Reports

Wahroonga.

Dear Sir,-I wish to voice my keen disappointment at the deletion of Dalgety's mar-ket reports (wool, wheat, and stock) from ket reports (wool, wheat, and stock) from the new programmes. This was a distinct boon to the man on the land, and enabled him to keep his finger on the pulse of values of commodities from which he gets his living, early knowledge of which could easily involve a gain or loss of many pounds. The other market reports do not meet the needs of the pastoralist and wheat farmer. The new management caters largely for the city and suburban folk, almost to the exclusion of the class I refer to, a class whom moliticing af class I refer to, a class whom politicians at times designate as the backbone of the country.

Alectown

## Yours etc., WM. EDWARDS.

editor assumes no responsibility for statements made by readers and published on this page, as opinions of correspondents do not necessarily represent our editorial policies. Anonymous letters are not considered.

### News Services

News Services Dear Sir,--I heartly support "Country Listener," from Toorooka (W.W., 26/7/29), in his request for the "Herald" summary from 2FC at 7.5 a.m., and also Mr. Conlor's No. 10 point, i.e., "A complete and adequate news service, issued at exact periods daily. including Sundays and holidays.

As I stated in my previous letter, 2BL is the best station about here for daylight rethe best station about here for daying the ception. From this station we now get no news till 1 p.m., and to-day that session was from 1.3 to 1.10 p.m.-just seven minutes. The programme in WIRELESS WEEKLY says 7.20 p.m., late news. To-night at 7.16 market reports commenced and continued till 7.30, when music came on. So to-day from 2BL,

when music came on. So to-day from 2BL, though I tuned in at published times, I re-ceived seven minutes' news. Surely city listeners would not begrudge us the news they so easily get, and I hope they and the new company will read care-fully your article, "Reduction in Country Services." and after studying same give us back the old 2BL time-table from 8.15 a.m. to 8.48 a.m., and 6.30 p.m. I would also like to ioin the "Old-Timers"

would also like to join the "Old-Timers" I would also like to join the "Old-Timers in requesting that the old-time dance nights from 3LO be continued. I believe they were among the most popular of all night enter-tainments, and Hoffman's Dance Band one of the best that broadcast.

Yours etc., COUNTRY LISTENER. Bodalla.

## Bombay and Japan on One Valve

Dear Sir,-During the past couple of years the two and three valve hams have been showing us how to pull in the stations. Now let the one valvers have a say. I have an extraordinary one-valve receiver, and the following are the stations heard :- 2FC. 2BL. 3LO, and 3AR in the middle of the day; and these are heard in the night time without an arial on headphones or with an aerial on the speaker. The following stations are also heard at good headphone strength:--72L, 3UZ, 5CL, 2GB, 4QG, 7BY (Bombay), JOAK (Japan)

(Japan). Normally 18 volts are used on the plate of a UX199 valve, but on test only one volt was sufficient for the headphones. Parkes is approximately 200 miles from Sydney, and 300 miles by air-line from Melbourne. Come on, you one valvers. see if you can do better .-

Parkes. RADIO ACE.

## No "Desert Song"

Dear Sin, Last night (20/7/'29) 2BL were to broadcast the production of "The Descrit Song." Quite a lot of publicity was given to this project, and numbers of people like to this project, and numbers of people like myself were looking forward to a night's en-joyment. At the conclusion of the first act Mr. E. J. Tait said a few words to the' listen-ers-in, and also remarked that "The Desert Song" would be given in its entirety for the last time. However. at the conclusion of his speech items were given from the studio. until the time of closing down. Many people were disappointed, more especially so when they had to listen to the class of "entertain-ment" from the studio. What was 2BL's idea of disappointing the public on the second-iast night under the old regime? It certainly was not like 2BL at all. Yours etc., Albion Park. DISAPPOINTED.

Albion Park.

DISAPPOINTED.

Friday, 9th August, 1929

## Get Your Money Back Here's a Picture of Our Wonderful New "AMPLO" "B" ELIMINATOR SOLD ONLY BY THE ECONOMIC RADIO STORES THE NEW "AMPLO" B ELI-**MINATOR** supplies 4 different IF you are not satisfied with B plus Voltages, ranging from your New "Amplo," return 20 volts to 150 volts. it to us in good condition, FREE FROM HUM within seven days, and GET CONNECTS EASILY. YOUR MONEY BACK. Price, £5/15/-SOMETHING NEW --- Have you seen the new AMPLO "B" and "C" ELIMINATOR Does all the "B" Eliminator does and more-It provides for 2 C- adjustments THE AMPLO "B" and "C" ELIMINATOR **PRICE**, £6/5/ All Electric LAYOUT AND WIRING LIND VERNIER VARIABLE SHEET RENOWN CONDENSERS FOR THE ALL ELECTRIC RENOWN. Low Loss. 6'6 The New Home Building .0005. Electric Set. PRICE. FREE WITH KIT. You've tried the battery Renown-now try the SIZE .00035 HEGRA CONE SPEAKERS Electric. Andrews ONLY. Parts, complete with Low Loss Were 38 6. Now 27'6 Adjustable. 3'6Valves and wiring sheet,

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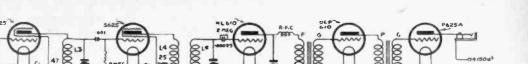
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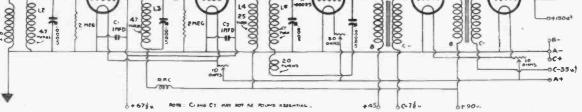
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## ADDING A SECOND STAGE OF SCREEN-GRID R.F. AMPLIFICATION TO THE MARCO

From correspondence received, it would appear that many owners of "Marco" receivers are anxious to install a second stage of screen grid radio frequency amplification in order to obtain greater selectivity and improved sensitivity. We present details of one "Marco" type receiver remodeled successfully in this manner....

T HE set described in the following article, when correctly adjusted, gives a high degree of selectivity, clarity, and considerable volume from stations in other States.

It is to be emphasised this is no freak receiver. Other similar receivers have been built which perform as well as the set concerning which detail is given. For normal results the set must be properly shielded and I do not recommend makeshifts. Unfortunately many experimenters will persist in changing things around and dispensing with shielding. Then they will wonder why they do not get results hoped for.

I do not propose to go into any technical detail in this article, but would like readers to take particular notice that complete screening is necessary if the maximum efficiency is to be obtained. Without it, high amplification with stability will be impossible.

On looking at circuit diagram you will notice that A— is connected to B—; this facili-

tates the use of the Stedipower Unit and a B and C Eliminator giving a hum-free All Electric set using ordinary D.C. valves.

The valves used in this circuit are, radio (requency-two Osram S625; deteotor-Osram HL610; first audio-Osram DEP610; last audio -Osram Power Valve P625A. This combination works splendidly, and gives high amplification in all stages. Of course, these may be substituted by valves of other makes, providing suitable types are used in each case.

The coils used are those of the "Marco Four" kit with an extra coil of 47 turns wound on a three-inch bakelite former with 62 SWG double sik cov-

## By E. R. PARK.

This is the list of parts required :
1 Dilecto panel, 241in. x 101in.
3 pcs. aluminium, 16in. 2 83in.
1 piece aluminium, 24in, x 104in.
1 piece aluminium, 23in. z 15in.
4 sub-panel brackets.
3 Formo De Luxe condensers. 0005.
f Formo De Luze condenser, .00025.
3 Pilot Art Dials.
2 10-ohm, rheostats.
1 30-ohm rheostat.
2 8625 valves.
1 HL610 valve.
1 DEP610 valve.
1 P625A valve.
5 valve brackets.
2 transformers (any good make).
2 .001 condensers fired.
1 .00025 condensers fixed
2 2-meg. leaks,
2 chokes, Lewcos.
1 single circuit tack

ered wire. If any experimenters desire to build the whole kit of colls. full detail is here given.

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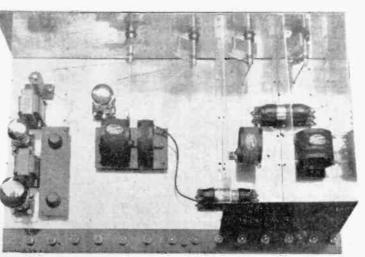
All coils are wound on 3-inch dilecto tubing with 26 SWG double silk covered wire. The first coil, L1 comprises an untuned primary of 15 turns, the grid coil L2 is of 47 turns wound in the same direction spaced  $4\pm$ inch away from the primary. The length of tubing for this coil is 28 inches. Coil L3 is 47 turns wound on 14 inches of bakelite. Coil L4 is 25 turns wound on 14 inch bakelite. Coil L5 is a coil of 67 turns wound in the same direction with a tap at the first 20 turns. The length of bakelite required for this will be 24 inches long. These coils must be mounted at least 15 inches from shield for best results.

Any reliable condenser may be used for tuning, but Formo have been used in this particular set. This condenser does not take up much space in the set, and, furthermore, it may be mounted on the panel without the

> rotor plates making contact with it. This I find to be a point which means a great deal in this circuit. I have found in shielding that it is best not to run the rotor plate wires or negative leads to the shield direct but to a point on the shield as near as possible to earth.

> The aluminium for shields may be purchased at John Danks and Son, Pitt Street, and the cutting, bending, etc., may be done by A. Bennett, Sheet Metal Worker, 12 Cumningham Street, off 429 Pitt Street. This will give you quite a "professional" looking job which could not be duplicated without special facilities.

To mount condenser



and rheostats it is necessary to cut a fairly and theostats it is necessary to but a ranky large hole in shield and mount a square of bakelite behind it. Alternatively, a bakelite panel may be used in front of the shield. The size of set described is fairly large, the panel being 24in. x 10in.; the sub-panel, 23in. x 15in.; and the shields 142in. x 8in.

Just a few words in conclusion re batteries, valves, and tuning. The B batteries voltages for best results are as follows:-First two plates 100 volts, screen grid of first two valves 671 volts, detector, either 221 or 45 voits. First audio 90, last audio 160 volts. In the audio stages make sure you are using the

right grid blas. A Philips B and C. Eliminator will work quite satisfactorily on the B side, giving all the desired voltages. Nearly every type of valve has been tried in this receiver and many types wil work quite satisfactorily. Trouble possibly will be avoided if valves with characteristics as near as possible to valves specified are used.

In tuning this receiver you will find the dial readings are nearly all the same when all circuits are in resonance on the station desired. The tuning is rather fine, but high selectivity is obtained. On the circuit dia-gram an aerial marked No. 2 is drawn on L2. This may be used when local stations are off the air, for long-distance reception of broadcasters and amateurs from other States. many of which are picked up on this receiver on Sunday nights.

## The Old Order Changeth

AT 3LO, nowadays, upon entering the busy Studio offices, one hears the programme managers being addressed as "Doctor" or 'Professor," and so on, instead of plain "Mister." Professor Bernard Heinze is a busy man these days directing the musical destinies of broadcasting, and so is Dr. Loftus Hills in his position as Lectures Director, whilst W. G. James is revelling in conducting audi-tions from the thousands of budding broadcasting artists, and Percy Code is licking into shape the National Broadcasting Orchestra. from which great things are expected.

## . Children's Hour Entertainers

VICHOLLS and Mack, two newcomers to the broadcasting world, have been engaged for the Children's Hour at the new 3LO Studio, where they will introduce some delightful musical novelties to amuse their young listeners. Both are very versatile ar-tists and with guitar and one-string fiddle can imitate practically every known instru-And this is by no meas all, for one of the duo is a master in the art of mimicry, especially when it comes to domestic animals and he is so true to life that listeners will be forgiven if they think the office cat has been suddenly called upon to give a turn.

## . Will Prior's Broadcasting Ensemble

.

MR. WILL PRIOR, conductor of the State Theatre Orchestra, will arrange a num-Theatre Orchestra, will arrange a num-ber of Sunday evening concerts to be relayed to 3AR, Melbourne. Mr. Prior has formed an ensemble of artists from the personnel of the State Theatre Or-chestra. All of them are soloists of the highest order. Messrs. Lionel Lawson (vio-linist), Bryce Carter ('cellist), Harry Whyte (nanist). Sam Barbleci (saxonhonist) and (planist), Sam Barbleci (saxophonist), and the original Tom Katz Band Leader are names that are sufficient to assure listeners all over Australia of the quality of the programmes to be offered. Orchestral items will be featured as well as solos by the various members of the ensemble. There will also members of the ensemble. There will also be a string quartet, chamber music, organ solos by the State Theatre's organist, Mr Price Dunlavy, and vocal numbers by well-known Sydney artists. Mr. Prior stresses the fact that popular numbers of the more melodious type will be included whenever merchile in the programme without lengame possible in the programme without lowering the standard which Mr. Prior hopes to set.

## NEW PROGRAMME FEATURES

## Frazer Coss

FRAZER COSS, the well-known baritone, who will broadcast from station 2BL on August 9, is not unknown to listeners, as he has done a considerable amount of radio work in the last couple of years. He is a young University student, and holds the degree of B.A. He is now completing a law course, and hopes to be through next year when he intends acting on the advice of Browning Mummery, who told him to go abroad and complete his vocal studies. Mr. Coss found himself in a very unenviable posltion one Sunday night when broadcasting from 2FC. An episcopal gentleman had just finished giving a twenty-minute address, and Mr. Coss was appearing immediately after him. His choice of song was "It Is Enough." from Elijah.

Mr. G. E. Smith, one of Amplion's country ales representatives, well known to Astor dealers in the north and north-west.

## The Spanish Serenaders

THE Spanish Serenaders, who will appear on 2BL's programme on August 5, are three very clever instrumentalists, well known to 2FC listeners as "Sid and Molly Owen." They were with the "Bandollers" in London, a troupe of mandollists and guitarists, and travelled all over England and the Continent with them playing be-fore the Kalser at Leipzig (Germany) in 1907. Sid Owen, the leader of the Serena-ders, ran the string quartet for "Broken Wings." at the Palace Theatre, for J C Wijliamson, not long ago.

## . Interesting Woman Speaker

OSE ANTILL DE WARREN, a Sydney Journalist, is giving a series of talks over 2BL every Tuesday from 1.15 to 1.30. The title of her talk for August 13 is "The De-lights of New Zealand," where the speaker has spent many happy holidays.

## Well-known Radio Lecturer

ONE of the best known radio lecturers is Mr. C. Price Conigrave, who speaks from 2BL every Monday in the "Magic Carpet" travelogues. He has something inter-esting to say to all his hearers. On August 12 he will speak on "Canoes and Pots in Papua," detailing some of his experiences there when afloat a few months ago with the Lakatoe Fleet.

## Popular Major's Talks

MAJOR SANDFORD-MORGAN is one of the contributors to the "Magic Carpet' series of travel talks from 2BL. He is one of the most widely travelled men in Aus-tralia. On August 9 he will transport hu hearers to Nineveh, and will speak on "Mosul and the Tomb of Jonah."

## J. Knight Barnett

MR. JACK BARNETT, the deputy-organist at the Capitol Theatre, likes oranges for breakfast. His hobby is ping-pong.

.

## Rev. A. E. Walker, Newtown Methodist Mission

REV. A. E. WALKER, of the Newtown Methodist Mission, whose church service was broadcast through 2BL on Sunday, August 4, at 11 a.m., is probably one of the best-known ministers in the Methodist Church. For many years he served as Convocational Minister for the Methodist Conference. He had no particular church, but was sent to conduct missions through the State. He was subsequently appointed to the South Sydney Methodist Mission and to the City of Grafton. During the present term of six years at Newtown, the Methodist Mission has been established there, and it has now become one of the most important missions of the State. Mr. Walker was the Convenor of the Methodist Church Evangelisation Committee, and is also a representative of the Methodist Conferences of the Council of Churches.

## Rev. W. J. Grant

REV. W. J. GRANT, of the Randwick Presbyterian Church, will often be broadcast from Station 2BL under the new broadcasting company. An honors graduate of Sydney University, he has been associated with the leading Presbyterian Churches in the State. He has been assistant to the Rev. John Ferguson at St. Stephen's Church. Phillip Street, and been Classical Master and Chaplain at Scots College. He took charge of the Randwick church in 1922. Mr. Grant is a member of the Council of Churches. Councillor of the Presbyterian Ladies' College, Croydon. and of the Father and Son Welfare Movement.

## The National Broadcasting Orchestra THE personnel of the new National Broad-

casting Orchéstra for 3LO has been announced by Mr. Stuart F. Doyle on behalf of the directors of the Australian Broadcasting Company, as follows:-Director-general of music, Prof. Bernard Heinze; director, William G. James; conductor, Percy Code; leader violin, Edouard Lambert; first violin, Bertha Jorgensen; pianist, Cecil Fraser; second violins, Guilford Bishop and Alfred Ackland; viola, Dorothy Roxburgh; 'cello, Tasma Tiernan; bass, G. C. Fraillon; flute, J. Barille; oboe, Mignon Weston; clarinet, Anderson; trumpets, J. Geary, Walter Smith; trombone, J. Shackles; horn, L. J. Davis.

## An Irish Night

FEW musical numbers have a wider appeal than Irish melodies, and the programme arranged by 3LO on August 13 should prove most popular. "An Irish Overture" will be played, by the National Broadcasting Orchestra, and "The A.B.C. Glee-singers," with solos, quartettes, and concerted numbers, will contribute "A Night of Irish Melodies, with song and story."



Page Nineteen

# RADIOKES "MARCO" COIL KIT

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Agents all States and New Zealand. WIRELESS WEEKLY

Friday, 9th August, 1929

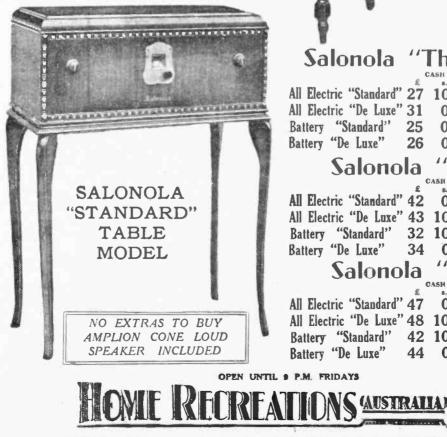
## THE "SALONOLA" ALL ELECTRIC TABLE MODELS

Mechanically identical with our famous "Salonola" Full-Size Console Cabinet Models

----but much more convenient, because you can place it just where you want it. A new device----

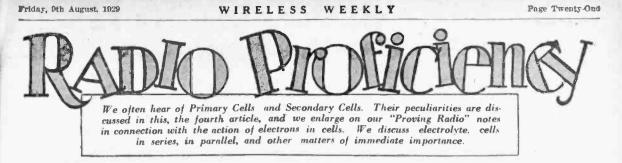
## DETACHABLE **LEGS**

----are fitted as standard (Patent applied for). If you wish to place your Set on a table or a cabinet you can dispense with the legs in a moment.





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T HE existence of an electric current in any circuit means that energy in some form is being liberated at the generating source, and the continuance of this current necessitates the continuous expenditure of energy.

In the case of a dynamo driven by steam engine, the source of supply is the coal, and the place where the energy is liberated is the furnace. Coal liberates its energy in heat, and this turns the water into steam, the latter propelling a generator which causes to moves electrons, a flow of which constitutes a flow of electricity.

The coal is consumed in the process, and the quantity of energy obtainable is thus limited by the amount of fuel consumed.

In the case of an ordinary voltaic cell, the conversion of the energy of supply into electrical energy is a much simpler and less wasteful process, though the material which acts as the source of supply (in other words, the fuel), is far more expensive.

In most cells the fuel consists of zinc and acid, which are consumed, but which, instead of giving out their energy in the form of heat, give it out directly in the form of current.

A cell is in reality nothing more than a little furnace in which zinc, instead of coal, is used as fuel.

There are two types of cells. All cells come under one of these headings. Primary cells consist of three essential constituents for the production of an E.M.F., and these are a positive plate, a nevative plate, and an exciting liquor (or electrolyte).

According to the nature of the plates and the electrolyte, a certain P.D. is set up between the plates in a manner discussed previously. When the circuit of the cell is closed, the chemical energy stored up in the primary cell is converted into electrical energy.

In the primary cell, the action which takes place is as follows: The negative plate (generally zinc) dissolves gradually under the action of the electrolyte. This liberates hydrogen.

The positive plate, usually copper, but sometimes carbon or plathnum, remains unaffected, and a film of hydrogen gas bubbles from the negative plate accumulates over the positive plate. This process is called polarisation. Depolarisation is the method wher-bythe hydrogen is stopped from settling on the positive plate, since it stops the action of the electrolyte by insulating the plate from it. As discussed in "Proving Radio" the chemical used to depolarise is called a depolariser, and this is used to absorb the hydrogen.

The negative plate (called negative because it has a superfluity of electrons), allows some of these electrons to flow when the circuit is closed. A flow of electricity then takes place from the negative to the positive pole.

The voltage obtainable from the cell depends entirely on the number of elements used in the cell, i.e., the number of negative and positive plates, the substance used for the plates, and the electrolyte. If only one set of plates isused, i.e., one positive and one negative, the approximate voltage will be 1.5.

The size of the electrodes and the size of the cell have no effect on the voltage, but the larger these are, the greater will be the amperage or capacity of the cell. A diluted solution of sulphuric acid in water or a saturated solution of sal-ammoniac is commonly used as electrolyte.

Each cell has a certain resistance, termed "internal resistance." This latter is dependent upon the area of the plates immersed, their distance apart, and the specific resistance of the electrolyte. The larger the plates and the closer they are, the less is the internal resistance.

For all ordinary calculations, the resistance of a cell may be taken as 2 ohms. An external resistance is one used outside the cell. The advantage of a large cell is not the value of its E.M.F., but in its smaller resistance, owing to the area of surface contact; also it contains more energy, is capable of producing greater current, and lasts longer without recharging.

When cells are connected in series, the total E.M.F. is equal to the sum of the separate E.M.F's, i.e., three cells each 1.5 volts connected in series, would have a total E.M.F. of 4.5 volts; and the total resistance of each cell is the sum of their separate resistances. (See Ohm's Law, "Proving Radio.")

When a number of cells are placed in parallel, i.e., all positives to one terminal, and all negatives to another, their total E.M.F. is that of one cell, and their total resistances that of one cell divided by the number of cells (assuming each cell to have the same resistance and E.M.F.).

When cells are placed in series, the amperage is equal to that of one cell, but in parallel the amperage is equal to that of one cell multiplied by the number of cells. Ohm's Law will explain these dissimilarities perfectly.

The other type of cell is known as the secondary cell, or accumulator. This is an arrangement from which an electric current may be drawn for a certain time. Ilke a primary cell. (Note here that a single cell is terimed "a cell," and NOT a battery. A number of cells in series or parallel constitute a battery.)

Unlike the primary cell, the secondary cell may be recharged by means of an electric current. In the primary cell, it is necessary to renew the elements and electrolyte. An accumulator does not actually store

An accumulator does not actually store electricity. Many make the mistake of thinking it does. That this is not so should be obvious to the student who has thoroughly grasped the Atomic Theory discussed in "Proving Radio." We learnt that an electrical flow does not take place unless there is a movement of electrons from the negative to the positive pole. If the accumulator circuit is open, there will be no flow of electricity from the negative to positive pole. It is, however, quite correct to say that an accumulator stores energy. Remember that electricity can neither be generated nor destroyed.

When an accumulator is being charged, the electrical energy imparted to it causes a chemical charge in the cell. Then, when the cell discharges, that is, when an external circuit is completed through which the current can be forced by the E.M.F. of the cell, a further chemical change takes place and electrical energy is produced until the chemical condition of the original uncharged cell is again reached.

After an accumulator has been charged, the approximate voltage is 2.2, but this quickly falls to about 2 volts, and while in use the voltage is very constant. This means that a curve showing the life and voltage of an accumulator, before recharging is necessary, would be very straight. This would show that approximately 2 volts would be available nearly all the time. Near the end of its life, the voltage suddenly drops. A radio set may be functioning perfectly one moment, and half an hour later will give absolutely no results because the "A" battery is flat. The dry cell is different, in that its curve has a gradual slope. The voltage gradually drops all the time the cell is in use.

The capacity of accumulators is usually reckoned by the "Ampere-Hour." This term, which was recently discussed, signifies that an accumulator having a capacity of 80 ampere hours would be capable of supplying one ampere for 80 hours, or half am ampere for 160 hours, or quarter ampere for 320 hours.

Now, it is a peculiar fact that chemical action inside the accumulator is going on all the time the cell is not in use, as well as the time it is in use. This is due mainly to the fact that the electrolyte is a conductor to a certain extent. Owing to this fact, a fully charged accumulator will lose its charge if left idle for any appreciable length of time.

Chemical action also takes place in anothen manner. When we say an accumulator has a capacity of 80 ampere hours, this term is only an approximate calculation. If the accumulator is used intermittently the total use of the accumulator for one period of charging will exceed 80 hours at one ampere consumption, and may give 90 hours' service. We term this "90 hour intermittent amp.-hour" capacity.

On the other hand, if the battery was used for 80 hours straight off, it would be flat before the 80th hour was reached, in fact probably only 75 hours' service would be available. We call this "75 amp.-hour actual" capacity. Thus accumulators are usually rated at an actual ampere-hour capacity, and an intermittent ampere-hour capacity.

The plates of the accumulator are manufactured in the following manner: Spongy lead or lead peroxide in the form of a propared paste is pressed into the interstices of a special grid (a kind of honeycombed frame). The positive and negative plates are arranged alternately, each group being comnected at the top by lugs into a lead bar. The negative group contains one more plate that the positive group (except in two-plate cells). The plates are kept close together in order to ensure small internal resistance, and are kept apart by separators of wood, glass, celluloid, etc.

Distilled water should always be used with the sulphuric acid. If pure water is not available, rain-water or melted artificial ice can be used. Sulphuric acid in a  $fu!!_7$ charged cell should have a specific gravity of 1.22 (sometimes written 1220), which means that the sulphuric acid should be 1.22 heavier than an equal bulk of water.

A frequent question given A.O.P.C. aspirants is "Elow can you tell when an accumulator requires charging?" This, and other alled subjects, will be discussed next week. 1.(24)

**RADIOTRON UX226** is an amplifier Valve, the A.C. filament of which can be operated by alternating current direct from a power transformer.

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UX171 A. Power Amplifier, Last Audio Stage only, UX280. Full Wave Rectifier.

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RCA Radiotron

WEEKLY WIRELESS

Page Twenty-Three



## Loud Speaker Developments

N listening to the reproduction provided by a moving-coil speaker and a good amplifier one is tempted to think of it as being highly realistic and capable of little improvement. One has only to listen for an hour or so to the reproduction of, say, a group of orchestral records and it is then possible to sit back and visualise satisfactorily the orchestra itself in the room. Of course, in making this pos-sible our ears are just fooling us, since even the best reproduction is far from being truly realistic.

On one occasion the writer had the opportunity of listening to some records made by the Philadelphia Symphony Or-chestra on a very splendid amplifier and speaker immediately prior to attending a recital by the same or-chestra "in person." The tremendous contrast between the reproduction and the real thing was enough to dampen his enthusiasm thing was endern amplifier and speaker for a period of many weeks. The point is, that though we may be permitted to delight in good reproduction as we know it, and sing songs of pralse about it, we must realise that technically we are still very far from the ideal. Speaking of the speaker itself, it takes

nothing more than a glance at the frequency a characteristics of a modern moving-coil instrument (as printed recently on this page) to convince one of the seriousness of its weaknesses.

All of which is a prelude to the statement that the experimenter might well add to his active interest in the moving-coil speaker a study of recent development work with speakers of other types.

There is, for instance, the electrostatic speaker -a type with which considerable progress has been made in Germany and the United States. The German "Vogt" spea-ker, named after Herr Vogt (one of three experimenters interested in the development) is now well advanced, and it would appear that the instrument is destined to be commercially successful. The original speaker of this type con-sisted of a single thick plate about 15 metal inches in diameter. and honeycombed with holes. Supported slightly away from one surface of this plate, and insulated from it was a diaphragm of thin metal foll of the same diameter as the plate. In operation the plate and the diaphragm were kept at a potential difference of about 600 volts by a supply of con-

stance voltage, while the signal voltages were applied in parallel (a large stopping condenser being used to separate the polarising and signal voltages). With no signal voltage arriving, the diaphragm was normally bowed slightly towards the plate by the attraction introduced by the polarising potential. The signal input to the speaker, superimposed on this potential, then caused movement of the diaphragm in accordance with its frequency and amplitude.

In the new speaker developed by Vogt two heavy and slightly separated plates enclose the diaphragm, both of these plates being held at a high positive polarising potential with respect to the diaphragm. In this way the normal position of the diaphragm is in the exact centre of the space between the two plates. The output transformer from the amplifier feeds directly to the two plates and the signal voltages therefore create a poten-tial difference between them. This difference causes the diaphragm to move in accordance with the signal input. The load provided by the speaker is, of course, that of a con-denser, and a considerable voltage step-up is necessary from the plate circuit of the output valve.

From technical descriptions of the electrostatic speaker appearing in a number of the magazines from overseas, it would appear that relatively high efficiencies and quite satisfactory frequency characteristics have already been obtained. One of the chief difficulties, it would seem, is in the provision of a diaphragm not definitely resonant to some frequency within the limits of the musical scale.

Yet another important departure from normal speaker practice is found in the "in-ductor dynamic" loud speaker at present being developed in America. The driving unit of this speaker is essentially an induction motor in which the action is reciprocating instead of rotary. The armature consists of two separate iron bars connected by the rods and each working between a pair of permanent magnet pole faces. Unlike the ordinary magnetic speaker the distance between the armature and the pole faces is constant, the area by which they overlap being varied during the operation. It is claimed that the inductor speaker is not only more efficient than the moving-coil type on account of the use of a permanent magnet field, but that it also has an improved frequency characteristic, particularly on the low frequencies. It would seem highly probable that it is yet another instrument which will find a place in the reception equipment of the future.

		CONE		Voice	COIL		TRANSFORMERS			N	MAGNETIC FIELD		
NAME	Diameter	Thickness	Angle	Impedance	No. of Turns	Wire Size	Ratio	Primary	Secondary	Volts	Watts	Flux Density	
Aı	8″	0.008″	90°	5.95 ohms at 100~	105		<u>#4</u> 3			6 d.c.	2.4	12000 lines/sq. cm.	
As	8"	0.008"	90°	5.95 ohms at 100~	105		20			110 d.c.	3.5	12000 lines/sq. cm.	
As	8"	0.008"	90°	5.95 ohms at 100~	105		85 1			110 a.c.	4.2	12000 lines/sq. cm.	
Bı	6 1/2 "	0.008″	90°	6.4 ohms at 100~ 6.7 ohms at 500~ 26 ohms at 5000~	100	33	33 1	4000 No. 35	120 No. 19	6.12 d.c.	3.9- 15.6		
Bı	61/2"	0.008"	90°	6.4 ohms at 100~ 6.7 ohms at 500~ 26 ohms at 5000~	100	33	83 1	4000 No. 35	120 No. 19	100 to 200 d.c.	4.8		
с	9"		135°	less than 0.001 ohm	1		4600	4500	1	110 a.c.	10	14000 lines/sq. cm.	
Dı	8"			13.5 ohms at 100~	140	54		3600	180	6 d.c.	5.5		
Dz	8"		ļ.	13.5 ohms at 100~	140	34	20	3600	180	90 d.c.	4.2		
G	61/2"		110°	0.5 ohms at 100~	29		56 1			6 d.c.	6	10,000 lines/sq. cm.	

SOME DATA ON MOVING-COIL SPEAKERS: We find evidence of the existence of many experimenters whose interest is the home-building of moving-coil speakers or the alteration of the standard types for work with valves having somewhat extra-ordinary characteristics-when as the peniode-or with unusual valve and output transformer combinations. The table of constants of a variety of moving-coil speakers, at present on the market, presented on this page, quite possibly is of particular interest to these individuals, and of general interest to others. It was abstracted from a paper by Mr. Joseph Morgan, of the international Resistance Company, in which the modern dynamic speakers were given consideration.

### WIRELESS WEEKLY

Page Twenty-Four

Friday, 9th August, 1929

## A SINGLE A.C. DETECTOR UNIT

## **Continued From** Page 11

able condenser will be very short. With the Radiokes' coil, the plate connections are conveniently placed on the other side of the coil, where the choke and reaction condenser are mounted. The only long lead will be from the aerial terminal of the coil to the rotor plates of the aerial midget condenser, but this is unimportant.

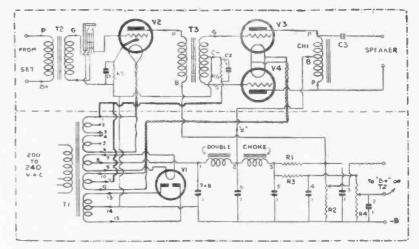
A hole is drilled at the right end of the panel in order that the filament cable and other battery leads may come through. If desired a small clamp could be placed over the leads where they come up to the top of the baseboard. By using colored leads, it becomes unnecessary to remove the unit from a cabinet to find out where leads belong should they become disconnected.

The art dial has a small lamp which is exceedingly useful for adjusting the receiver to a pre-determined setting when the light is bad. It is not necessary to use this lamp, but it may be connected up to the filament supply if desired.

When the panel controls have been mounted, the baseboard should be given two Coats of shellac variish (made by dissolving shellac flakes in methylated spirit) or a coar of Condy's fluid (permanganate of potash) crystals dissolved in water, though the latter method gives only a stain, and for best results should be collowed by a coat of some quick-drying varnish, such as clear Duco.

The panel should next be mounted to the baseboard, which will dry in a few minutes. Mount the components in the positions described, and wire up carefully, taking particular care to adhere to the important points discussed herein.

One essential, of course, is a switch in the power supply to the amplifier and detector units. If the entire apparatus is mounted in a gramophone cabinet this switch Can

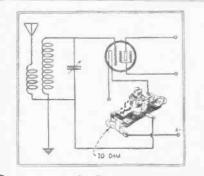


CORRECTING AN ERROR IN LAST WEEK'S DIA GRAM. The complete circuit of the amplifier to which the output of the single valve is fed. The heavy line from R4 to terminal 11 of the power transformer is the lead that got snarled up in the diagram printed last week. The change should be noted enrefully, since the arrangement shown previously is quite obviously unworkable.

either be on the panel of the detector unit or somewhere on the cabinet itself. The latter arrangment is preferable. If power is to be obtained from a power point or light socket independent of any other equipment the switch on the power point or light can, of course, be put to use.

In actual operation the combination of de-tector and amplifier was found to permit a splendid performance. The selectivity was found to be quite high enough for all normal local reception, while the sensitivity was such that an aerial 10 feet high and fifty feet long was sufficient to provide signals capable of overloading the moving-coil speaker used. And those are some signals! On the other hand, the regeneration control was found to be quite effective as a volume control. That is, the local stations could be reduced to 'normal" strength merely by decreasing regeneration to a minimum. A special volume is essential in a receiver which has to deal with both very loud and very weak signals. A "local" receiver, however, does not require the same variation of sensitivity, and a special volume control is therefore unnecessary in most cases.

In the operation of the outfit it will be found advantageous to connect the negative plate supply lead (the detector cathode) to a good ground connection. In this way, the A.C. hum will be reduced greatly.



Improved Grid Biasing FOR SCREEN GRID VALVE

ITH theeadvent of the screen-grid valve, several new problems have been brought to the set manufac-turer or set builder. Chief among

and perhaps the most neglected, is that of biasing the control grid at 11 volts negative potential, a factor that assumes even greater proportions with the employ-ment of the screen-grid valve in short-wave sets and adaptors.

Many manufacturers and constructors have disregarded this feature entirely, hav-ing found that the valve will function with-out a grid bias. However, the characteristic charts of the valve show that the plate current is actually considerably higher when a bias is applied.

There are several ways of securing the necessary potential, most of which are too

costly or impractical in short-wave recep-tion where a storage battery filament current is essential for good results. The potentiometer system, while satisfactory, gener-ally causes too much drain on the battery, while the insertion of a flashlight cell in the ground lead, shunted by a condenser, re-sults in unstable operation. The ideal solution is to secure the blas from the storage battery without creating any additional drain. This may be done with the aid of a very small variable resistance of the centre tap type. This device is a compact wirewound resistor with variable centre tap covering half the total length. In the 20-ohm rating, it may be inserted in the negative filament lead of the screen-grid valve in such manner that it acts as a filament limiting resistance and a variable grid bias at the same time, by connecting one end to the negative of the storage battery, the other end to the filament lead of the valve, and the centre contact arm to the ground side of the antenna tuning unit, as shown in the accompanying diagram. A smooth variation of grid bias is obtained, the filament is operated at proper temperature, and maximum results are obtained from the valve.

## **Clever Imitator at 3LO**

THE children are well catered for at 3LO, and many musical novelties will be introduced. A pleasing combination is the ever-popular "Little Miss Kookaburra" and Roy Ryan, who is one of the best whistlers in Australia. Apart from the excellent whistling medleys of popular songs, Roy is a true-to-life mimic of animals and birds, and has a real kookaburra to assist in his impersonations.

## Compton Coutts

THE "Fun Devil" was one of the many titles bestowed upon Compton Coutts by the natives of Fiji. He played the part of beachcomber in the "Adorable Outcast," and, during his stay, he was perpetually attended by huge hordes of natives who took a keen delight in watching every movement, shrieking with laughter. He often wonders what attracted the natives. Mr. Coutts is an Englishman, and has been in Australia some time. He has played leading roles in comedies, staged in Sydney and Melbourne, appearing as the subscription complex parson in "New Brooms," and with Gregan M'Mahon in "Dear Brutus," "Getting Married," and "Anna Christle." He will be heard from 2BL on August 9.

## The Happiness Girls

**DOPULAR** numbers, harmonising, and in-

strumental novelties, is the business of "The Happiness Girls." Miss Anne Henderson, Miss May Sharpe, Miss Poppy Fields, and Miss Ailsa Lewis comprise the quartette. They were the only item on the programme which held their audience for the full hour at the Radio Exhibition of 1928. "The only people who moved," Miss Sharpe said, "were those who edged in closer. We were very proud at the time,"

### WIRELESS WEEKLY

Page Twenty-Five

C



How to make various kinds of heavier-than-air craft. which will fly without propulsion. An interesting article for the model aviation enthusiast.

## By NORMAN LYONS

which HEAVIER-THAN-AIR craft, has no contained power plant, but derives its lift from the reaction of wind the wings as it coasts through the on air, is known as a glider. But it must be understood that a glider flying in still air must lose altitude, as it depends on upward air currents, and must be manoeuvred to obtain height continually in these currents

Model Gliders are of various kinds, the simplest being folded paper. No doubt. many will, at first, ridicule the idea that gliders must be constructed with the same care as Model Aeroplanes. Yet this is so. Most of the elaborately-folded gliders do not give the satisfactory flight that can be obtained from a simple glider (Fig. 1), folded on the correct lines.

The paper should be 11in. x 7in., or same proportion. First, fold paper in half as at "A," then fold in the two front corners to the centre line. Fold inwards again, as shown at "C." At "D" is shown how the paper is folded on the centre line, and the dotted line indicates how the last fold is made. "E" is the end view of the completed glider; a pin may be put in at "A" to hold it together.

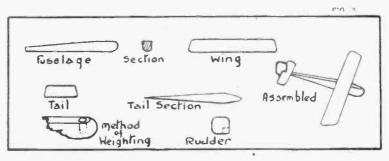
The Aero paper glider, as illustrated in Fig. 2, gives a very graceful flight, and can be made to do stunts by bending its tail and wing rear edges. Again. in this case, sizes must be adhered to if a satisfactory flight is expected

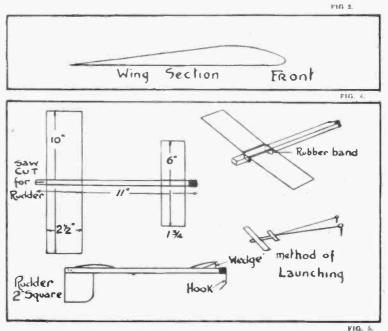
Take a piece of paper 8in. square, and fold down the centre, as shown at "A." Now start the fold as shown, half an inch away from front edge, folding six times. Mark out wings and tail as shown, "B," and cut out with scissors. A spot of gum on the outside edge of the wing folds will keep them in position.

Fig. 3 illustrates one type-of hand-launched glider that is used in glider contests. The fuselage is carved from a piece of clear pine or spruce, 28in. x 3in. x 2in. The wing is pine or spruce, 30in. x 4in. x 4in., shaped as shown in Fig. 4. The tail is made from a piece 12in. x 3iin. x tin., and not having a lifting section, is shaped as shown in Fig. 3. The rudder, having the same section, is made from a piece 4in. x 4in. x 1in., and is to be glued into a slot which must be cut in the tail end of the fuselage. The tail is to be glued and fastened with two small brads to the fuselage, as shown in Fig. 5. The wings are held in position by a rubber band, as shown, and the front edge of the wing is to be elevated by a piece of wood about sin. square and 2 inches long.

As shown in detail, about loz. of lead is necessary to weight the nose down. The correct weight can only be determined by ex-

6 C D F FIG. 1. A B





periment, and it is rather a good plan to use lead shot, placing a cork in the hole, when you have arrived at a definite amount.

To launch this glider, choose the side of a hill or a position that faces the wind, and at the same time gives an open space for the course of the glide. Hold it about level with your shoulder, and throw it forward, aiming just a little below the horizontal. If it dives too abruptly, lessen the weight by taking out a few shot, move the wing forward, or increase the wing elevation. If it rises and stalls, thus falling back on its tail, increase the weight, or move the wing back, or lessen the wing angle by cutting down the elevating stick. It may be found necessary to make any or all of these alterations before the glider performs satisfactorily, but when you have arrived at the proper combination, glue and nail the wing in place with fine brads.

Another type of competition glider may be made from the diagrams of the Indoor Endurance Tractor that will be published next week in WIRELESS WEEKLY. The only difference is that the power plant (that is, the propeller, rubber, bearing, etc.) is eliminated, and a slight weight added to the front. Needless to say, such gliders are made as light as possible, and since no power is used the motor stick can be considerably reduced.

Astonishingly long glides can be made with

either model, as sometimes it may encounter a rising air current and be carried aloft, whence it may make a long return glide, or if upset by a gust, it may nose over and dive until its speed forces a greater lift on the wing and raises the glider into normal position.

Gliders, as shown in Figs. 3 and 5, may be converted from "hand launched" to "catapult" by the addition of a wire hook, as shown in Fig. 5.

To make a catapult, all you require is an old blcycle inner tube and two stakes. Cut the tube into a long strip about 1 inch wide and 3 feet long. Tie each end of the rubber to a stake, and drive them into the ground about 2 feet apart. The glider then may be drawn back about 5 feet before releasing. These gliders travel very fast, and give almost the same pleasure as a power driven model.

Thus we come to the end of elementary aircraft, and if the readers have constructed the various types described so far, he or she has made all the essential parts of a model aeroplane. It only remains to improve them by alterations, which increase their flying power, and a tangible beginning is made in model aviation.

Next week you will see the Indoor Endurance Tractor, a model that holds the world's indoor record of 173 seconds.

# A MODEL AEROPLANE CLUB

A MODEL Aeroplane Club is a success if it has four features: Organisation, membership, operation, and incentive. Clubs that are famous to-day and in a healthy condition include all four features. To the Playground and Recreation Association of America, Inc. and the Kite and

tion of America, Inc. and the Kite and Model Aeroplane Association of Great Britain grateful acknowledgment is made for valuable data. ORGANISATION: The backbone of the

club is its officers and the rules that are agreed upon. The officers for a model aero club might be a President. Secretary, Treasurer, Recorder, and a Committee of, say, five. The President should arrange for and preside at meetings, but in the event of his absence the chair to be taken by the Squadron Commander. The Secretary is responsible for all correspondence, minutes and roli The Treasurer is responsible for ali funds, making note and reporting of all disbursements. The Recorder has charge of posting the Club's Bulletin board up to date. tabulating all records of flights, etc. The Committee to meet as required to arrange all competitions and be responsible for their success and smooth running.

Officers may serve only one season in any one capacity and then must either move up into another office or return to the ranks of the Squadron. The exception to this rule is that the Past Presidents become Directors, and constitute an advisory board for the club Honorary officials are good additions to a club, lending it prestige and support.

MEMBERSHIP: First, the organisers should decide upon age limits, if there are to be any. The Playground and Recreation Association of America recognises no minimum age but fixes the maximum at 20. The best clubs, however, have many members who are adults and because of long experience they are wonderful helpers for those just joining. However, on account of competitions, it is best to divide the members into three groups: Junior, which comprises all from the minimum age limit to 15 inclusive: Senior, which includes those from 16 to 20 years inclusive; and Adult or Graduate. which includes those over 21 years. These can be further subdivided into candidates. apprentice members, regular members, assoclate members, corresponding members, etc. The entrance requirements should be such that both members and candidates will have a chance to study each other before admissión An appropriate initiation ceremony

Now that model 'plane building and flying has become popular as a result of the Aero Club Sessions broadcast from 2BL in conjunction with the WIRELESS WEEK-LY articles, it has been decided to form a Model Aeroplane Club of Australia. The objects and suggested rules of the club are published below.

might be developed which would include agreement to abide by the club's constitution and rules, eagerness to learn model-making, intention to build a model within a specified time, etc.

OPERATION: Meetings should be held every week or every two weeks, and at such times events should follow a prearranged order of business such as: Roll call, reading and correction of minutes, committee reports, unfinished business, announcements. new business, plans, elections, features, and adjournment. The meetings should be short and snappy, interest should not lag, and the business part of the meeting should be concluded promptly so that model-making, flying, and discussions can be taken up. In regard to features, the Capitol Model Aero Club has a popular diversion called "ground school." On that occasion the members sit in rows and answer questions on model fly-ing and aeronautics in general, put to them by the Squadron Commander. Those who miss a question must move their seat down the order of sitting, giving way to the one who answered the question correctly. At the conclusion of several rounds of questions the leaders in the sitting order are awarded some little prize, usually a piece of model-making equipment. Other features might be lectures by visiting notables or talks from one of the members on a newly discovered improvement in model construction.

In holding its contests, the club should train various members to certain tasks, such as timers, recorders, flagmen, etc. Others should be responsible for bringing the contest equipment, such as repair kits, odometers, flags, stop-watches, ground spikes, with rope, etc.

The club should be alive to municipal projects and participate in them. In that way new members will learn of the club and desire to join it, and the community in general will appreciate and approve the advancing organisation. Remember, "nothing succeeds like success." INCENTIVE: Upon the feature of inceltive hangs the success of the others, for without desire to do, nothing will be done. One of the best ways to maintain members' interest is by obtaining and maintaining an attractive club room. Boys always like the feeling of possession and if they are made to feel a part of an organisation that has an inviting meeting place, they will be inspired to attend meetings and assist in preserving their club room.

Competitions, as they are wonderful sources of incentive, should be held frequently. Awards and trophies should be given for leading performances. Local jewellers, newspapers, organisations, etc., should be asked to put up prizes for which the members could strive. Cloth wings in different colors, to be worn in the coat lapel, will be given by Headquarters for flights of 500, 1000, 2000 feet, or durations of 30, 60, 100, 300 seconds, etc.

All clubs are to have a progressive system of advancement, and when a member has passed the stipulated study and achievements he assumes a new rank in the club KIWI:

1. Construct a box kite, or tetrahedral kite capable of steady sustained flight for 10 minutes.

2. Construct a glider capable of straightaway flight of 100 feet within an arc of 30 degrees.

3. Construct a model aeroplane carrying its own power, capable of flying 150 feet in distance or 15 seconds in duration.

CADET (In addition to filling requirements above):

1. Construct a model aeroplane capable of a flight of 300 feet in distance or 30 seconds duration.

 Construct a balloon inflated with either hot air or gas, capable of remaining aloft five minutes.

3. Build a model aeroplane capable of flying 35 feet a second in still air. It must fly at least 100 feet.

PILOT (In addition to filling require-

ments above): 1. Make a model aeroplane which will fly at least 500 feet or 45 seconds.

2. Make a model aeroplane which will fly at the rate of not less than 40 feet a second for at least 100 feet.

3 Build a scale model capable of flying 100 feet in distance or 10 seconds' duration. GLIDER SQUADRON:

When a member has attained the rank of pilot he is eligible to join the glider squadron, a central body building and flying their own gliders, under the instructorship of trained pilots.

In Germany to day hundreds of boys are flying in their own gliders. To gauge the popularity of this sport 3000 took official instruction in 1928.

- (Next week will deal with how model contests are conducted.) Friday, 9th August, 1929

Page Treamp Roman



Page Twenty-Eight

9.52: The National Broadcasting Orchestra. 10.5: Compton Coutts, comedian. 10.15: Favorita Duo, instrumentalists. 10.25: Late weather report and late news

2GB

Theosophical Broadcasting Station, 29 Bligh St., Sydney, (Wavelength, 316 metres).

Theosophical Brondeasting Station, 29 Bligh St., Sydney, Wavelength, Slif metrew). 10.0: Music, 10.10: Happiness talk, by A. E. Bennett, 10.20: Music, 10.30: Women's session, oy Miss Heien J. Beeging, 11.30: Music, 11.45: Close down, 2.0: Music, 2.5: Women's Radio Service, by Mrs. Dorotr, Jordan, 2.50: Music, 3.0: Feature story, 3.30: Close down, 5.30: Children's session, by Uncle George, 7.0: Music, 7.45; Feature story, 80: Miss Marjorie Aliomes, contraito, 8.7: Symphony Orchestra, 8.15; Madame Betts-Vincehut in an illustrated talk on Music, 3.30: Mc Clement Hosking, baritone, 8.40; Humorous interinue, by Mr. Jack Win and Mr. Heath Burdock, 8.45; Instrumental Trio, 8.50: Miss Gwen Selva, soprano, 9.0; Weather report, 9.3: Address, 9.15; Miss Marjorie Allomes, contraito, 9.25; Symptony Orchestra, 9.35; Humorous interlude, by Mr. Jack Win and Mr. Heath Burdock, 9.30; Win solos, 9.55; Miss Gwen Selva, 10.5; Instru-mental music, 10.30; Close down.

2UW

Radio Broadcasting, Ltd., Paling's Building, Ash St., Sydney (Wavelength, 267 metres.)

MIDDAY SESSION.

MIDDAY SESSION. 12.30: Music and request numbers. 1.0: Clock and chimes. 1.45: Talk on "Home-craft," by Pandora. 1.40: Music. 2.30: Close down. 4.30: Music and request numbers. EVENING SESSION. 5.30: Children's Hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Music and request items. 8.0: Popular orchestral re-cital. 9.0: Comments on foreign affairs, by Mr. J. M. Prentice. 9.10: Request numbers. 10.30: Close down.

2KY

Trades and Labor Council, Goulburn Si., Sydney (Wavelength, 280 metres.)

(Wavelength, 280 metres.) 10.0 a.n.: Tune in to the ticking of the clock. 10.3: Popular tox-trots. 10.15: Ha-waiian steel guitar selections. 10.30: Request numbers. 10.50: Vocal items. 11.0: A few laughs. 11.5: Pianoforte selections. 11.15: Calis and announcements. 11.20: Musical interlude. 11.30: Request numbers. 11.40: Music and vocal items. 11.55: Where to go to-night. 12 noon: Closing announcements. **CHILDREN'S SESSION.** 6 p.m.: Birthday calls, request numbers, and kiddles' entertainment, Aunt Jemima and Uncle Bert.

and kiddles' entertainment, Aunt Jemima and Uncle Bert.
 EVENING SESSION.
 7.0: Musical interlude, 7.5: Birthday calls, 7.15: Sporting feature—Turf topics, review of candidates and their prospects for tomorrow, Mr. Geo. A. Davis. 7.40: Request numbers. 8.0: Hawaiian steel guitar selections. 8.15: Request numbers. 8.30: Music and vocal items, from the Studio. 9.10: Sporting feature—Presented by Tooth and Co., Ltd., Kent Brewery, from ringside of M'Hugh's Leichhardt Stadium, full description of main 15-round fight, Mr. Jack Dunleavy. 10.0: Closing announcements.

2UE

Broadcasting Station 2UE, Storey Street, Maroubra Junction, Sydney (Wavelength 293 metres.) EARLY MORNING SESSION. LARLY MORNING SESSION. 7.15 an.: Breakfast-time Hour Orchestral music. 8.30: Weather report. Close down. MIDDAY SESSION. 11.30: Old-time Musical Hour. 12.30:

Close down. AFTERNOON SESSION. 1.0: Music. 1.45: Organ solos. 2.0: Or-chestral and vocal selections. 2.30: Close

EVENING SESSION. 7.15: Orchestral dinner music. 8.0: Over-ture, "Morning. Noon, and Night." 8.10: Or-chestral and vocal concert. 10.15: Close

down.

down.

10.30: Close. National Anthem.

service

## Local Programmes, Friday, August 9

## 2FC

## Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 112 metres). EARLY MORNING SESSION-7 to 8.15.

"Guardian." 7.3: Lary rising music. 7.45: Mails and shipping. 7.48: what's on to-cay. 7.50: Children's birthday calls. 8.0: Music from the Studio. 8.15: Close. MORNING SESSION—10.30 to 12.30 p.m. 10.30: Announcements. 10.32: To-morrow's sporting events, by

- 10.35: Aumouncements. sporting events, by
  Oscar Lind.
  10.45: From the State Theatre—Recital at the Grand Organ, by Edgar Stone.
  11.0: Household Helps—Talk on cooking.
  by Miss Ruth Furst.
  11.10: A.P.A caples and "Sun"-"Herald" news service.
  11.15: The Studio Orchestra.
  12.0: "Big Ben": Stock Exchange and metal quotations.
  12.20: What so read for the week-end
  12.20: Midday market < and weather reports, supplied by the N.S.W. State Marketing Board.</li>
  12.30: Close.
  THE LUNCH HOUR—1 p.m. to 2.39 p.in.

- THE LUNCII HOUR—1 p.m. to 2.30 p.in 1.0: Lunch to music with the A.B.C. C Or.
- Chestra.
   Stock Exchange, second call.
   2.1 A glance at the afternoon paper.
   2.7: Popular education.
   2.27: Announcements.

- 2

- 33
- 3
- 4
- 4.17:
- 217: Announcements.
  THE RADIO MATINEE—2.30 to 4.30.
  230: The A.B.C. Orchestra.
  46: Alma Berge, soprano.
  52: Enid Hynes, planist.
  17: Maurice Balance, basso.
  24: The Janetski Trio, instrumentalists.
  31: The A.B.C. Orchestra.
  45: Alma Berge, soprano.
  52: Enid Hynes, planist.
  52: Enid Hynes, planist.
  52: Enid Hynes, planist.
  52: The Janetski Trio instrumentalists.
  45: Alma Berge, corbano.
  49: The Janetski Trio instrumentalists.
  17: The A.B.C. Orchestra.
  28: Stock Exchange, third call
  30: Close.
  EARLY EVENING—545 to 255 4.28
- EARLY EVENING-5.45 to 7.55.
- Coding and a state of the state of

- 7.37
- 7.40: Late news service. 7.45: From the State Theatre-Mr. Price Dunlavy, at the Grand Organ.

## EVENING PRESENTATION-8 to 11.30.

- 8.0: William Everand Quartette, 8 12: The Happiness Girls, Instrumental-
- Ists

- Compton Coutts, comedian.
   2:2: Lionel Lunt, English baritone.
   3:3: Barbara James, xylophone solos.
   4:4: William Collins and May Nancarrow. in sketches.

- a sketches. 8.56: The Favirita Duo, instrumentalists. 9.0: Charles Lawrence, entertainer. 9.10: The Frisco Novelty Duo. 9.20: William Everard Quartette. 9.30: The Happiness Girls, instrumental-
- 1s
- <sup>15</sup> A. (a) A talkle short.
   <sup>15</sup> 40: A talkle short.
   <sup>10</sup> 10: From the Oriental ballroom—Sydney Simpson's Syncopaters in dance music.
   <sup>10</sup> 15: From the Studio—Official weather
- 10.10: From the Oriental ballroom-Syd-ney Simpson's Syncopaters in dance music. 11.30: Close. National Anthem.

## 2BL

- Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 353 metres).
  - OPENING SESSION-8.15 to 11 a.m.
  - 8.15: Music for every mood—records. 8.45: Meteorological data. 8.50: Songs and choruses. 9.30: British Official wireless news.

  - 9.35: New music. 10.5: News from the "Guardian."

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10.10: The Ladies' Club hour—The Austra-lian Women's A.B.C. Association, conducted by Miss Gwen Varley. 10.30: The Studio Orchestra—Mr. Rodda. 11.0: Close.

- MIDDAY SESSION-12 noon to 2.30 p.m.
- 12.0: Announcements, 12.2: The A.B.C. Orchestra.
- 1.0: Afternoon news from the "Evening News. 1.5: Studio music.

Studio music.
 1.5: Studio music.
 1.15: Women's "Interest Talk."
 1.30: The Traders' "Selling the Set" music.
 2.0: At the console of the Wurlitzer organ at the Capitol Theatre, J. Knight Barnett.
 2.12: Studio music.

## AFTERNOON ENTERTAINMENT-2.30 to

545 p.m. 2.30: Business Efficiency talks. 2.45: "The Magle Carpet"—a story of travel 2.45: "The Magle Carpet"—a story of t and adventure.
3.0: The A.B.C. Dance Band.
3.12: Roy Scrivener. baritone.
3.19: Googs Hanlon, novelty pianist.
3.27: The A.B.C. Dance Band.
3.39: Reg. Harrison. comedian.
3.46: Rozina Maddell, soprano.
3.52: The A.B.C. Dance Band.
4.12: Roy Scrivener, baritone.
4.13: The A.B.C. Dance Band.
4.29: Rozina Maddell. soprano.
4.36: Reg. Harrison. comedian.
4.45: "The Trade Hour."
5.45: Close.
THE DINNER HOUR.

5.45: Close: **THE DINNER HOUR.**6.15: The Studio Dinner Orchestra.
6.45: "The A.B.C. Younger Set Club"—Boy Scouts: Mr. Norman Lyons.
7.5: Studio music.
7.20: Late market reports.
7.30: The Studio Dinner Orchestra.
7.55: What's on the air to-night? **THE NIGHT PROGRAMME—8** to 10.30.
8.0: The National Broadcasting Orchestra.
8.15: Mimi Gressiar, soprano.
8.22: To-night's Interview with a famous personality.
8.30: Frazer Coss. baritone.

830: Frazer Coss, baritone. 837: The National Broadcasting Orchestra 8.52: Ilma Messkabarnes, elcutionist. 9.2: Weather report.

837: The Masskabarnes, electrony
8.52: Ilma Messkabarnes, electrony
9.2: Weather report.
9.3: The National Broadcasting Orchestra.
9.18: Mini Gressiar, soprano.
9.25: Barbara James, xylophone.
9.35: Ilma Messkabarnes, elocutionist.
9.5: Lionel Hunt, baritone.



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9R 50

## Page Thirty

Friday, 9th August, 1929

## Interstate Programmes, Friday, August 9

## 3LO

## Australian Broadcasting Co., 120A Russell St. Melbourne (Wavelength, 371 metres.) EARLY MORNING SESSION

7.0: Time signal from Melbourne Observatory; weather forecast 7.5: Early rising music. 7.40: Malls and shipping. 7.43 What's on To-day, 7.46: Market reports 7.55: Breakfast news. 8.0; Mel-bourne Observatory time signat. 8.1: Birthday greetings. 8.15: Close down.

## MORNING SESSION

10.30: Eric Welch-Current events in the racing world. 10.40: Reproduced music. 10.50: Mel Morris-"The Football Field."

## MORNING MUSICALE

## 11.0; A.B.C. Studio Orchestra with Madame Sykes, contralto. 12.15; News session; rates on 'Change; weather forecast. 12.30; Close down.

MIDDAY SESSION

1.0 to 2.0; Provided by the National Broadcasting Orchestra. Under direction Wm. G. James. Con-ductor: Percy Code.

## THE LECTURETTE SESSION

THE LECTURETTE SESSION
2.0. Mr. C. R. Long, M.A. — "Stories from Aus-trailian History". 2.15: Reproduced music. 2.25: Madame Nina Brevnova. Home life in other countries: (1) Russi. 2.40: Reproduced music. 2.46: Dr. Loftus Hills, D.S. — Topics of the wreek. THE RADIO MATINEE
3.0: National Broadcasting Orchestra. Overture, "Son and Stranger" (Mendeissonn: "Boaring" (Schumenni 3.10: Vlolet Semple, Contraito. "The Yain Suit: UBrahaw. "Early Morning: "Oraham Peel, "Prelude" (Gyril Scotti 3.20: The Studio Quartette, First Movement Quartette (Hayda), 3.30: Robt Gillard, Bass. "Old Barty (Grant). "In Shel-tered Vali" (D'Alenguin. "Rolling Down to Rio (Jordani 3.40: John Sinons, plano "Minuet" and "ambourine" (Rameau) "Bourree" to felt hand alone (Saint-Saena). "Jumbo's Luillaby" (Debussyl, "Scenes Reapolitaines" Massenet, 4.10: The Flu Makers" will sing some cheerful dittes. 4.30: Close down. **The CHILDREN'S CONNER**.

## THE CHILDREN'S CORNER.

5.45. "Billy Bunny" knows a lot about "The Wee Polk" and "The Mitchell Trio" will dispense melody of a new variety. 6.25: A talk of interest to the Older boys and girls.

### EVENING SESSION

6.40: Mr J. T. Smith. Curator Melbourne Parks and Gardens. Gardening—Community Gardens. 6.55: Mr E. H. Wyon. B.Sc. Motorists' Problems—Traffic signals. 7.10: Mr. P. R. E. Mauldon, B.A., M.Ec.: Australian Problems in Economics. (11 The Coal In-dustry of Australia. 7.25: To-morrow's races, by Eric Welch. 7.33: To-morrow's football. by Mel-tre Welch. 7.33: To-morrow's football. 7.40: News of the day Morris

## NIGHT SESSION

7.45: Frank Lanterman at the Wurlitzer Organ. 8.0. Collingwood Citizens' Band (Conductor: P

- 7.43. Frank Lattermain at the voltext output of the second context of the secon

  - kowsky). Fifnella" (Tschaikowsky).
  - 9.15:
  - 9.20

  - 9.35

  - Roway," (Tschalkowsky).
    15: Orchestra:
    Suite of Four selected Pieces (Primi)
    Suite of Desmond'
    Bamatic monologue.
    O's Dr Hoffman:
    "Etude de Concert" (Chopini.
    "Valse in A Flat" (Chopini.
    "Valse in A Piat" (Chopini.
    "Valse in A Piat" (Chopini.
    "Valse in A Piat" (Chopini.
    "Valauca" (M. de Falla).
    Marche: "L'Amour di Trois Orenges" (Prokofef).
  - fleff). 9.55: Senia Chostiakoff, tenor: "The Northern Star" (Glinka) "Star Vicino" (Salvator Rosa)

  - "Star Vicino" (Salvator Rosa) Selected Selected Selections from musical comedy. 10.20: News from to-morrow's papers 10.30: "The Rex" Dance Band. 11.30: God Save the King.

## 3AR

Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength 484 metres.)

Moleourne (wavelengta est micross) MORNING SESSION 8.15: Morning music. Weather forecast. Items of interest. 9.30: British official wireless news. 9.40: Reproduced music. 10.30: Arnold Coleman at the Wurlitzer. 11.0: Close down.

MIDDAY SESSION 12.0: "Mainly for Women." Miss J. S. W. Webb, M.A., Pamous Women-I. Hatshepsut, Queen of Egypt, 12.15: Midday news session from the studio. 12.30 to 1.0: National Broadcasting Orchestra (under direction of Wm. G. James, conductor Percy Code). 1.0: Time chimes from G.P.O. 1.1: Stock Exchange. Weather reports. Comments on the day's news. 1.30: Reproduced music.

Meaner reports. Comments on the day's news.
1.50: Reproduced music.
ATTENNON SESSION
2.0: Stephens Dance Orchestra. Foxtrot. "Picking Cotton." "Honey." 2.10: V. Drinkwater (tenor). "You Were Made for Me." "Broadway Melody."
"My Neighbor's Daughter." 2.20: John Stephens (xylophone). "The Wedding of the Painted Doil."
2.25: Violet Jackson (soprano). "The Inquirer" (Schubert). "Cradie Song" (Schubert). "Wandering" (Schubert). "The Almond Tree" (Schumann). 2.35: Stephens Dance Orchestra. Slow lox, trot, "High Up in the Clouds." "Cinderelia Blue: 2.55: Made Vivian (contralto). "There Art Pairtes at the Bottom of Our Oarden" (Lehmann). "A Summer Night" (Goring Thomas). "Dove, M Love (Fring J. B. Dove, M Cove, (Fring J. B. Dove, M Cove, (Fring J. B. Dove, M Cove, (Fring J. B. Dove for Pairtes at the Bottom of Our Oarden" (Lehmann). "A Summer Night" (Sor Ing Thomas). "Dove: "Itip-There Arts of the Song States." (Fring J. B. Dove, M Cove, (Fring J. B. Dove, M Cove, (Fring J. B. Dove, M Cove, (Fring J. B. Dove for themes)." "There Arts of Dance Orchestra. Slow foxtrot." 'My Mother's Eyes."
3.0: Mainly for Women. A Chat by a prominent werman. 3.45: Mr. W. C. Rueg. "Backyrad Poulury." "4.0. Mr. E. S. Richards, M. Sc. "What Science s Doing for Women." 4.15: Reproduced music. 5.45: Close down. Doing for lose down.

EVENING SESSION 6.15 to 7.30: Dinner music, supplied by the studio orchestra. 7.30: What's On the Air To-night? 7.32: Latest musical releases. 7.45: Market reports. 6.15 to 7.30: Dinner music, supplied by the studio orchestra. 7.30: What's On the Air To-night? 7.32: Latest musical releases. 7.45: Market reports. NIGHT SESSION
8.0: National Broadcasting Orchestra, under the direction of Wm. C. James; conductor, Percy Code. 8.10: Colin Nash tharltone)—
 "Sons of the Sea" (Coleridge Taylor).
 "Pleading" (Kramer).
 "Sons of the Sea" (Coleridge Taylor).
 "Pleading" (Kramer).
 "Sons of the Sea" (Coleridge Taylor).
 "Bleading" (Kramer).
 "Sons of the Sea" (Coleridge Taylor).
 "Bleading" (Kramer).
 "Murgarian Dance No. 8" (Brahms).
 "On Wings of Song" (Mendelasohn, arr. Achron).
 "Bolero" (Burleigh).
 R.30. Ceclina Choir of Women—
 "The Briddgroom" (Brahms).
 "The Briddgroom" (Brahms).
 "The Briddgroom" (Brahms).
 "Dream. Haby, Dream" (Hayes).
 "The Briddgroom" (Brahms).
 "Dream. Haby, Dream" (Hayes).
 "Nou Khow What I Mean" (Hayes).
 "Nou Khow What I Mean" (Hayes).
 "Ave Maria" (Bolat)
 "Coulia Choir of Women—
 "Ave Maria" (Bolat)
 "Coulia Choir of Women—
 "Ave Maria" (Bolat)
 "Coulia Choir of Wallord Davies).
 "Conde Song" (Wallord Davies).
 "Conde Song" (Bachubert)
 "Jonsenh (Balau)
 "Son Ace, Bradley will continue his recital
 So? Ceclina Choir of Wallord Davies).
 "Conde Song" (Bachubert)
 "Jonsenh (Balau)
 "Gomene" (Bachubert)
 "Jonsenh (Balau)
 "Gomene"
 "Ave Maria" (Holat)
 "Conde Song" (Berlann),
 "Do The Song" (Berlann),
 "Do The Song" (Berlann),
 "Jonsummer-time in Brein" (Peel).
 "Jonsummer-time in Brein"
 "Son An one-act play. My, Milliner's Bill." Scene:
 A pretily-furnished dining-room. Mr. Merridew,
 Maurice Dudey; Mrs. Merridew, Mrs. Maurice Dude
 "As Bucht Aroaming" (Decene)
 "As I Went A-roaming" (Decene)
 "As I Went A-roaming" (Decene)
 "As I Marine I (Berlann)
 "Dorder Aroaming" (Decene)
 "As I Marine I (Berlann) (Peel).
 "Dorder Aroaming" (Decene)
 "As I Marine I (Berlann) (Peel).

- 9.50: Olive Painter (mezzo-soprano)---"As I Went A-roaming" (Poster), "A Little Winding Road" (Landon Ronald), "Spring, the Fiddler" (Baumer), 10.0: Bob M'Questen's Melody Boys, 10.30: God Save the King.

## 3DB

## The "Herald" Broadca.ting Station, Flinders Street. Melbourne (255 metres.)

MORNING SESSION, 11.0: Time signal. A halt-hour concert of light music, 11.30: The world's fashions and fobles, by "La Vogue." 11.35: An orchestral concert. 12.0: Whispers of melody. 12.26: News, 12.30: Close down.

Whispers of melody. 12.26: News, 12.30: Close down. AFTEENOON SESSION. 2.0: A light symphony programme, 2.30: Brass bands and balleds. 2.55: Adwater Kent radio hour 3.50: News. 4.0: Close down. EARLY EVENING SESSION. 5.30: Elly Bunny's children's hour. 6.0: Tea-time music. 6.30: Organ recital and songs. 7.0: A popular orchestral half-hour. 7.30: Madame S. E. Soward-French without tears. 7.45: Market reports. NIGHT SESSION

state without tears. 7.45: Market reports.
 9.0: From the Musical Comedies. 8.30: An or-chestra, a bass, and a 'cello. 9.0: Operatic excerpts.
 9.30: Variety. 10.0: Dance music. 10.30: Slumber music. 10.40: News. 10.45: Close down, God Save the King.

## 4QG

- Queensland Government Radio Service, Brisbane (Wavelength, 385 metres).

Control and the service of the

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

AFTERNOON SESSION 3.0: Electrically reproduced records. 3.30: Mail train running times. 3.31: Records. 4.15: This after-noon's news. 4.30: Close down.

## EARLY EVENING SESSION

EABLY EVENING SESSION 6.0: Mail train running times; mail information; shipping news. 6.5: A travel talk, Mr. J. W. Hayes, Q'id organiser, Australian National Travel Associa-tions storis: Commercial announcemptic association with storis: Conducted by "The Saddman"? To News in brief: Stock Exchange news; metal quota-tions; market reports; weather information; Pen-wick's stock report; announcemptic, standard time signals. 7.45: To-morrow's sporting fixtures re-viewed.

# NIGHT SESSION NIGHT SESSION 8.0: The Studio Orchestra. \*1. Was Dreaming." "Good Morning, Brother Sunshine" (Lehmann). 8.10: The Orpheans-Selection. "Sanderson's Songs." 8.20: The Studio Orchestra-"My Ships" (Barrath). 8.32: George Willamson (tenor)-"My Ships" (Barrath). 8.32: George Willamson (tenor)-"Adieu, Marle" (Adams). 8.31: The Orpheans-"Little Brown Jug." \*4.22: J. Cornwall (bass)-"A Chip of the Old Block" (Squire). 8.48: The Studio Orchestra-"Always." "Dream Daddy" (Keefer).

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"When the Science and Angle -staffel. 40: May Jordan (soprano)-"Here's to Love" (Rubens). 44: The Studio Orchestra-Selection, "Stephen Adams' Songs."

9.40

0 4

## WIRELESS WEEKLY

Page Thirty One

- 9.50: George Williamson (tenor)---"Sally Horner." 9.54: J. P. Cornwell (bass)--"Star of Bethlehem" (Banderson). 9.58: The Orphenas--Perfect Day" (Carrie Jacobs-Bond). 10.0: News supplied by the metropolitan dailies: enther information; close down.

5CL

Central Broadcasters, Ltd., 114 Hindmarsh Square. Adelaide (Wavelength, 409 metres.)

## MORNING SESSION.

MURNING SESSION. 11.16: Chimes. 11.16: Recordings. 11.45: Kit-chen craft and meau talk. 12.1: Recordings. 12.50: General news service. 12.40: Recordings. 12.50: Stock Exchange: meteorological information. 1.1: Community singing from the Adelaide Town Hall. 1.50: Meteorological. 2.0: Glose down. AFTERNOON SESSION. 20: Chimes. 21: Descention.

AFTERNOON SESSION. 3.0: Ohimes. 3.1: Programme review and an-mouncements. 3.10: Musical entertainment. 3.300 Dr. Elsanor A. Allen. B.A., on "Phychology." 3.45: Musical entertainment. 4.10: Educational talk on "Position of Industry in U.S.A." 4.25: Stock Ex-change. 4.30: Close down.

## EVENING SESSION.

EVENING SESSION. 6.0: Chimes, 6.1: Elithday greetings, 6.30: Din-ner session. Wallace Kotter at the Wurlitzer Organ. Richard Smith: xylophonist. 7.1: Birthday League greetings: SCL's sporting service. 7.20: "Mo" Man-ning on "Pootball." 7.35: Mr. J. R. Willoughby (secretary of the Soccer Association) on "Soccer Activities." 7.45: Mr. A. Grenfell Price, M.A. F.R.G.S., on "Pioneers of Australia." NIGHT SESSION.

NIGHT SESSION.

8.0: Chimes. 8.1: Programme review. 8.10: Unley Orchestra, conducted by Norman Sel-

## 6WF

## Commonwealth Government Broadcasting Station. Perth (Wavelength, 100 metres.)

Perth (Wavelongth. 100 metres.) 10.0; Cramophone records. 11.6; Close down. 12.30; Markets, news. etc. 1.0; Time Weather, 1.3; Muisić. 2.0; Close down. 3.30; Tuin in: 3.33; Musić. 4.30; Close down. 6.45; Tuin in: 5.45; Bed Line; Stories by Unele Dury, 7.5; List Stabel Line; Commercial and general information. 7.45; Vosci artists. 8.50; Late news. Station announcements Ships within range. Late weather. 8.58; 'Oarden-lag; Talk by Mr. James Conarty, 9.14; Pro-gramme continued. 10.30; Close down. 104.5; Metres Or programme given on 1250 metres com-metres of programme given on 1250 metres com-mencing at 6.45 p.m.

## 7ZL

## Tasmanian Broadcasters Pty., 95 Elizabeth St., Robart (Wavelength, 516 metres.)

Tanbanian Breadensiers Ptz. 95 Elizabeth St., Bohart (Wavelength 816 metres.)
11.30: Record recital. 11.34: Midlands, weather forecast. 11.35: Record recital. 11.55: Tasmanian formation; ships within wireless range; mult no-tices; housewires' guide; commercial news. 12.8; Record recital. 12.25: Announcements. 12.33: Record recital. 12.25: News service. 1.10: Record re-cital. 12.50: News service. 1.10: Record re-cital. 12.50: News service. 1.10: Record re-cital. 12.50: Close down. 3.1: Record recital. 3.4: Weather. 3.5: Record recital. 4.15: Personalities. 4.30: Close down. 6.13: Children's hour with "Uncle David" and "The Storey Lady." 7.0. Birth-dry greeting." 7.10: News service. 7.15: Sid Jone: Number 11.55: Tasman State Storey Lady." 1.0: Birth-dry greeting." 7.10: News service. 7.15: Sid Jone: Number 11.5: Tasman State Storey Lady." 1.0: Birth-dry greeting." 7.10: News service. 7.15: Sid Jone: Number 1.15: Close down. 6.13: Children's hour with "Uncle David" and "The Storey Lady." 1.0: Birth-dry greeting." 7.10: News service. 7.15: Sid Jone: Number 1.15: Close down. 6.13: Children's hour with "Uncle David" and "The Storey Close, 7.14: L. O. Maddoct, Jonitone (a). "The Liac Tree" (Gart-an). (b) "Caro Mio Ben" (Glordani). 8.12: Daisy Waiters (c) "The Valler of Memory" (Coverby, (d) "Shall we Remember" (Rayners). 8.36: L. O. Mad Goct. (c) "Shally Rose: Bootelman.40: M. B. Store For "The Cuckoo Clock." (d) "That's All" (Brahe). 5.45: J. M. Counsel. "The History and Development of Music." 9.46: News session. 10.6: G.P.O. Clock shimes the hour. Close down.

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## Local Programmes, Sat., August 10

## 2FC

Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 442 metres).

EARLY MORNING SESSION-7 to 8.15. 7:0: "Big Ben" and Meteorological infor-mation for the Man on the Land. 7.3: This morning's news, from the

7.3: Th "Guardian.

7.8: Early rising music. 7.45: Mails and shipping. 7.46: What's on to-day. 7.50: Children's birthday calls. 8.0: Music from the Studio. 8.16: Close.

MORNING SESSION-10.30 to 12.30.

MURNING SESSION-14.30 W 12.30. 10.30: Announcements. 10.32: The A.B.C. Racing Observer. 10.45: Studio organ recital, by G. Barnett. 11.0: Household Helps-Week-end suggestions 11.10: Cables-A.P.A. and "Sun"-"Herald"

news service. 11.15: The 2FC Studio Orchestra. 12.0: "Big Ben" and Stock Exchange in-

12.0: "Big Ben" and Stock Later and formation. 12.20: Midday weather forecast. 12.32: Music. 12.50: From Moorefield—Description of the races in the running. During intervals, from the Studio, items by the A.B.C. Orchestra and Norman Francis. tenor. Race results from Rosebery. 4.45: Close.

**EARLY EVENING**—5.45 to 7.55. 5.45: Kiddles' "Goodnight" stories, told by the "Hello Man." assisted by Aunt Willa. 6.45: The Studio Dinner Orchestra. 7.25: A.B.C. Sporting Service. 7.37: Stock Exchange information. 7.40: Late news service. 7.45: From the State Theatre--Mr. Price Dunlavy at the Grand Organ.

**EVENING PRESENTATION-8 to 11.30** 

8.0 From the Sydney Town Hall—6 the Haw. State of the sydney Town Hall—A classical concert, arranged by the Australian Broadcasting Company, Limited, featuring the Conservatorium Orchestra and leading

Sydney artists. 9.0: From the Studio-Official weather forecast and musical items. 9.15: From the Sydney Town Hall-Second half of the classical concert arranged by the Australian Broadcasting Company, Limited. 10.15: Late weather forecast and an-nouncements.

nouncements

10.30: Romano's Cafe Dance Orchestra. conducted by Bennie Abrahams. 11.30: Close. National Anthem

## 2BL

Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 353 metres).

OPENING SESSION-8.15 to 11 a.m.

8.15: Music for every mood. 8.45: Meteorological data. 8.50: A musical pot pourri. 9.30: British Official wireless news.

9.35: New music.

10.5: News from the "Guardian."

10.10: Gardening talks. 10.30: The Studio Orchestra—Mr. Rodda. 11.0: Close.

MIDDAY SESSION-12 noon to 2.30 p.m. 12.0: Announcements. 12.2: The A.B.C. Orchestra. 1.0: Afternoon news from the "Evening

News." 1.5: Studio music.

1.15: Music. 1.30: Records

1.30: Records.
2.0: At the console of the Wurlitzer organ at the Capitol Theatre, J. Knight Barnett.
2.12: Studio music.
2.30: From the Sydney Sports Ground: De-scription of the fotoball match. During In-tervals. from the studio. music.
5.0: The A.B.C. sporting resume.
5.15: Close.

THE DINNER HOUR.

THE DINNER HOUR. 6 15: The Studio Dinner Orchestra. 6.45: The A.B.C. Younger Set Chub—Tales of adventure, told by the captain. 7.5: Studio music. 7.20: Late market reports. 7.30: The Studio Dinner Orchestra. 7.55: What's on the air to-night?

## THE NIGHT PROGRAMME-8 to 12 mid-

 THE NIGHT PROGRAMME—8 to 12 mid-night.
 Night.
 aight.

 8.0: A radio revue, arranged by Charles
 Lawrence and Ed. Warrington.
 9.0: The A.B.C. Dance Band.
 9.12: The A.B.C. Male Quartet.

 9.22: Josef Kaartinen, saxophonist.
 9.30: The A.B.C. Dance Band.
 9.42: Rae Foster, popular vocalist.

 9.42: Rae Foster, popular vocalist.
 9.40: The A.B.C. Dance Band.
 10.1: Deraine and Dixie, plantation melodies.

- dies.
- anes.
  10.10: The A.B.C. Dance Band.
  10.25: Late weather report and news.
  10.30: The A.B.C. Dance Band.
  11.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.
  12.0: Close. National Anthem.

## 2GB

Theosophical Broadcasting Station, 29 Bligh St., Sydney (Wavelength 316 metres).

3.0: Musical session. 5.30: Children's ses-sion, by Uncle George. 7.0: Request Hour. 8.0: Dance programme, by Suttons' Dance Orchestra. 10.30: Close down.

## **2UW**

Radio Broadcasting, Ltd., Paling's Building, Ash St., Sydney (Wavelength, 267 metres).

5.30: Children's Hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Request items, 10.30: Close down.

## 2KY

Trades and Labor Council, Goulburn St., Sydney (Wavelength, 280 metres.)

## CHILDREN'S SESSION.

6 p.m.: Birthday calls, request numbers and kiddies' entertainment, Aunt Jemima and Uncle Bert.

### **EVENING SESSION.**

7.0: Musical interlude, 7.5: Birthday calls, 7.15: Sporting feature—Turf topics, how they ran to-day, Mr. Geo. A. Davis, 7.50: Request night, 10.0: Closing announcements.

## 2UE

Broadcasting Station 2UE, Storey Street, Maroubra Junction, Sydney (Wavelength 293 metres.)

## EARLY MORNING SESSION.

7.15: Orchestral breakfast music. 8.30: Weather forecast. Close down,

## EVENING SESSION.

7.15: Orchestral dinner music. 8.0: Over-ture, "Zampa." 8.10: Orchestral and vocal concert. 10.15: Announcements. Close down.

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Page Thirty Three

## Page Thirty-Four

## Interstate Programmes, Saturday, August 10

## 3LO

## Australian Broadcasting Co., 120A Russell St., Melbourne «Wavelength, 371 metres.) EARLY MORNING SESSION

7.0 to 8.15: See Friday.

### MORNING SESSION

10.30: Current events in the racing world, by Eric Welch. 10.40: Reproduced music. 10.50: "The Football Field." by Mel Morris.

## MORNING MUSICALE

H.O. A.B.C. Studio Orchestra. Assisted by Tom Sturzaker, tenor: Rita Hilton, entertainer. 12.15: News: rates on 'Change; weather reports. 12.30: Close down.

### AFTERNOON SESSION

1.0 to 2.0: Luncheon music. Provided by National Broadcasting Orchestra, under direction of Wm. O. James. Conductor: Percy Code.

2.0: Rev. W. Bottomley, "Sigurd the Voisun 2.15: Reproduced music. 2.25: Mr. J. Howlett R "Banjo Patterson," with illustrations. 2.40: 1 produced music. 2.45: Lieut.-Colonel Eldred P tinger, D.S.O., F.R.G.S., "Personal Adventu While Exploring." Voisung Re Adventures

## THE RADIO MATINEE

THE RADIO MATIVEE 3.0: National Broadcasting Orchestra, under direc-tion Wm. G. James. Conductor: Percy Code. "Petite barden Statose..."Silent Noon' (Williams), "Like a Damask Rose" (Elgar), "The Carpet" (Sanderson). 3.0: Mina Heseleva, Soprarom Williams), "Like a Damask Rose" (Elgar), "The Carpet" (Sanderson). 3.0: Mina Heseleva, Soprarom Williams), "Like a Damask Rose" (Elgar), "The Carpet" (Sanderson). 3.0: Mina Heseleva, Soprarom Williams), "Like a Damask Rose" (Elgar), "The Carpet" (Sanderson). 3.0: Mina Heseleva, Soprarom Williams), "Like a Damask Rose" (Elgar), "The Carpet" (Sanderson). 3.0: Mina Heseleva, Soprarom Williams, "Like a the source of the Sander of the Sanderson (Sanderson). 3.0: Mina Heseleva, Soprarom (Sanderson). 5.0: Mina Heseleva, Soprarom (Sanderson). 3.0: Mina Heseleva, Soprarom (Sanderson). 3.0: Mina Heseleva, Soprarom (Sanderson). 3.0: Mina Heseleva, Sanderson, Mina Heseleva, Sanderson, Sande

## THE CHILDREN'S CORNER.

5.45: "Little Miss Kookaburra" will tell the bigger ones a thrilling story to-night about the "Witches" Pool." "Winks" Smith, the boy xylophonist, will entertain. 6.25: A talk for older boys and girls, 6.40: Sporting results.

### EVENING SESSION

6.55: Mr. Alec. G. Campbell-"Stories of our Mining Pields-Broken Hill." 7.10: Lieut.-Colonel Eldred Pottinger, D.S.O., F.R.G.S.-"Come with Us Round the World"--1, Manchurla. 7.23: Dr. J. A. Lesch, D.S.-"Australian Birds." Tree Creepers.

## NEWS SESSION

### 7.40: News of the day

### NIGHT SESSION

7.45: Prank Lanterman at the Wurlitzer
8.0: A special programme has been arranged.
10.30: News.
10.40: Ern Spry's Jazz Band.
11 30 Close down.

## 3AR

## Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength 484 metres.)

## MORNING SESSION

8.15: Morning music. Weather forecast. Items of interest. 9.30: British official wireless news. 9.40: Reproduced music. 10.30: Arnold Colman at the Wurlitzer organ. 11.0: Close down.

## MIDDAY SESSION

12.0: Feminine topics. 12.15: News of the day. 12.30 to 1.0: National Broadcasting Orchestra, under direction Wm. G. James; conductor, Percy Code. 1.1: Stock Exchange information. Weather reports. Comments on the day's news. 1.30. Reproduced music

## AFTERNOON SESSION

2.0: National Broadcasting Orchestra. Chas. Tre-Wavis (baritone). Sporting descriptions by Eric Welch and Mel Morris. 5.30: Final scores. 5.35: Close down.

## EVENING SESSION

6.15 to 7.30: Dinner music, supplied by the studio orohestra. 7.30: What's On the Air To-night? 7.32: Latest musical releases. 7.45: Market reports.

## NIGHT SESSION

8.0: Jones)-St. Augustine's Band (conductor, Percy

- Jones) Overture, "Don Giovanni" (Mozart). 8.10: The "Radio Dandies" present a bright and therry programme of harmony and hilarity. 9.10: St. Augustine's Band Intermezzo, "March of the Mannikins" (Flet-
- cher). "Chanson Triste" (Tschaikowsky).

## 3DB

## The "Herald" Broadcasting Station, Flinders Street. Melbourne (255 metres.)

MORNING SESSION.

10.0: Milltary Bands and singers, 10.30: Light music and songs, 11.0: An octet programme, 11.30: Brass bands and lieder. 12.0: Close down.

### EARLY EVENING SESSION

EARLY EVENING SESSION 5.30: Bobby Bluegum's children's hour. 6.0: Tea-time music. 6.25: What's on at the theatres and movies. 6.27: Radio Club. 6.30: Sporting results. 6.45: An organ recital. 7.0: A popular hail-hour. 7.30: A symphony concert. 8.0: Operatic excerpts. 8.30: Violin, flute, and harp, and a contraito. 9.0: Military band concert. 9.30: Light orchestral. 10.0: Military band concert. 9.30: Light orchestral. 10.0: Dance music. 10.30: Slumber music. 10.40: News 10.45: Close down. God Save the King.

## 4QG

## Queensland Government Radio Service, Brisbane (Wavelength, 385 metres).

EARLY MORNING SESSION 7.43 to 8.30: See Friday.

## MID-DAY SESSION.

12.0: The official opening cremony of the Mt. Gravatt Show, which will be performed by the Hon. R. M. King, M. L.A., Minister for Public Works and Public Instruction, will be relayed. 1.0: Close down. AFTERNOON SESSION 3.0 to 4.30: See Friday.

EARLY EVENING SESSION

## 6.10 to 7.30: See Friday.

- NIGHT SESSION
- 8.0: Quintette-Pianoforte and Strings-Overture to "Magic Flute" (Mozart).
- Overture to "Magic Flute" (Mozart). Doris Mclinnes (aoprano)— "Chanson Indoue" (Rilmsky-Korsakoff). Daisy McDowell (soprano), Mrs. Stoddard (con-tralto)—Vocal duet— "When the Wind Blows in from the Sea"
- When the standard strings-(Smart). liette-Pianoforte and Strings-Jossack Revel' (Tschakoff). Extase D'amour' (Roze). Quintette

Quintette-Planoforte and Strings-"Cossaek Revel" (Tschakofi.
"Extase D'amour" (Roze).
Neil S. Mackay (bass)-"Captain Mac" (Sanderson).
Ladies' Quartet-Misses M. and N. King, D. McDowell. Mrs. Stoddard-"Waltz Song" (Tring).
"Guintette-Planoforte and Strings-"Solvely's Song" (Grieg).
"Berenade" (Drigo).
Mae King (contraito)-"By the Waters of Minnetonka" (Lieurance).
Scott MacCallum (violinist)-"Zingaresca" (Ellerton).
9. p.m.: Metropolitan weather forecast.
Ladies' Quartet-Misses M. King, N. King, D. McDowell, and Mrs. Stoddart-"Binning Chorus" (from "The Plying Dutch-man-Wagner).
Nas Kasay (Bes)-"Ittmo inducts dance music by Planoforte and String Quintette-Doris McInnes (soprano)-"T Love the Moon" (Rubens).
Howard Sleath (violinist)-Selected.
Ladies Three Part Song-

- Selected.

- Selected. Ladies Three Part Song--"O Hills, O Vales of Pleasure" (Mendelssohn). Fifteen minutes dance music by Planoforte and String Quintette. 10 p.m.; News supplied by metropolitan dailles; weather information; close down.

## 5CL

Central Broadcasters, Ltd., 114 Hindmarsh Square, Adelaide (Wavelength, 409 metres.) MIDDAY SESSION.

12.0: Chimes. 12.1: Special late selections for Caulifield races. 12.3: Probable starters and selec-tions for races at Kadina. 12.15: General news. 12.55: Kadina and Caulifield race results. 1.1: De-scription of Carnival Procession. 1.15: Close down. AFTERNOON SESSION.

2.0: Chimes. 2.1: Resume of race results. 2.3: Musical recordings. 2.30: Caulifeid race result. 2.50: Description of League football. 3.0: Resume of race results at Kadina and Caulifeid: 3.5: Gaui-field race result. 4.1: Resume of race results at Kadina and Caulifeid. 4.3: Description of League football. 4.15: Caulifield race result. 4.16: Descrip-

tion of League football. 4.40: Description of League football. 5.0: G.P.O. chimes and resume of race results at Kadina and Caulfield and final football scores; close down. During the afternoon description of the Carnival Sports from the Adelaide Oval by Mr. F. J. Mills.

### EVENING SESSION.

6.0: Chimes. 6.1: Birthday greetings. 6.30: Dinner session 7.00 Chines, birthday greetings, 0.30, Din-ner session 7.00 Chines, birthday greetings, 7.100 Rev. G. E. Hale, B.A., on "Do You Belleve in Fate?" 7.25: Mr. C. G. Riley on "Items of Interest." 7.40: SCL's sporting service. NIGHT SESSION

8.10: Magill Vice-Regal Band, conducted by Orto

"Song of Australia." Quickstep, "Repasz Band." Fox-trot, "All By Yourself in the Moonlight."

8.34: Dino Pelardi, tenor. 8.41: Magill Vice-Regal Band, with band accom-

8.21: Mrs. R. E. Ardill, mezzo-soprano-"The Moorish Maid" (Parker). "A Heart That's Free" (Robyn).

"Land of Hope and Glory" (Elgar). Waltz, "When You Played the Organ" (Gilbert) (with chimes and vocal chorus).8.54: Ada Wordie, soprano.9.1: Meteorological information, including sema-

9.2: Overseas grain report; announcements. 9.5: P. H. Nicholis and Bessie Francis in m Tennyson interlude, "Balla and Balan," 9.25: Magill Vice-Regal Band-

5.45. Magin Vice-Regai Band-Morceau, "In a Monastery Garden" (Eatelbey), Quickstep, "The Iron Division."
 9.37: Mrs. R. E. Ardill, mezzo-soprano--"Carissma" (from "Red Feather").
 "Carmena" (Lane Wilson).

"Carmena" (Lane Wilson). 9.44: Dave Howard, comedian. 9.50: Dino Pelardi, tenor. 9.57: Maxill Vice-Regal Band--"The Fair Maid of Perth." 10.4: Ada Wordle, soprano. 10.11: Magill Vice-Regal Band--Quickstep, "The Vanished Army." Waltz, "Ever True." 10.20: SCL's sporting service, including Kadina and Caulfield race results, etc. Results of S.A. Ama-teur Golf Championship, League football scores, coun-try sporting, Soccer (three grades), lacrosse results, and sentlemer's hockey, cycling, athletics, and other sporting results. 11.0: Close down.

6WF

Commonwealth Government Broadcasting Station, Perth (Wavelength, 100 metres.)

Perth (Wavelength, 100 metres.) 10.0: Gramophone records. 11.0: Close down. 12.0: Racing anticipations. 12.7: Pianoforte solos. 12.44 Markets, news, etc. 1.1: Weather bulletin. 1.3: Close down. 3.30: Sporting session. Race results and quarter-time scores of the lootball matches. Musical items. 5.30 approx.: Close down. 6.45: Tune in. 6.48: Bedtime stories by Aunty Amy. 7.12: Sports results. 7.30: Commercial and general infor-mation. 7.45: Music. 8.0: Time signal. Weather. 8.3: Popular programmes from the studio. 8.30: Dance music, 8.50: Late news. Ships within raree. Late weather. 9.6: Programme confinued. 10.30: Close down. 104.5 Metre Transmission: Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.5 p.m.

7ZL

Tasmanian Broadcasters Pty., 95 Elizabeth St.,

Hobart (Wavelength, 516 metres.)

Bohart (Wavelength, BiG metres.)
 Bohart (Wavelength, BiG metres.)
 1.30 a.m.: Musical selections. 11.35: Musical selections. 11.35: Tasmanlan stations' 9 a.m. weather report, 12.0: G.P.O. clock chimes the hour. 12.1: Shipping in-formation; ships within wireless range; mail notices; housewives' guide; commercial news. 12.3: Musical selections. 12.30: Sporting Commissioner's last minute selections for Melbourne races, also Sydney races by our Special Representative. 12.33: Musical selections. 12.55: Nwws service; British ofielal wire-less news; railway auction produce sales held at railway. 12.56: Nws service; British ofielal wire-less news; railway auction produce sales held at rourse, Flemington, Victoria. 31: Transmission from the North Hobart Oval, football match, North Juniors v. South Juniors, described by Sid Jones. 4.50: All sporting results to hand. 5.10: Children's hour with "Uncle David." 7.15: News session. 7.30: Belle St. Laurence will continue her travel taiks, 7.45: J. M. Counsel will speak on "Buropean Affairs." 8.0: G.P.O. clock chimes the hour. 8.1: A request programme of popular records specially arranged by Paton's Music Warchouse. 9.30: News session. 2.30: Request programme (continued). 10.30: Close down.

8.28: Dave Howard, comedian.

8.0: Chimes.

Lovell-

paniment-

phore tides.

WIRELESS WEEKLY

Page Thirty-Five





# Local Programmes, Sun., August 11

## 2FC

## Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 442 metres).

THE CHURCH HOUR-10 a.m. to 12.30 p.m. 10.0: Announcements.

Organ Prelude—"Motturno," from Men-delssohn's "Summer Night's Dream." Doxology. Prayer—with Lord's Prayer chanted. Responsive Reading from Psalm 19. Hymn. "How Pleased and Blessed Was I" (597).

Responsive Reading from Psalm 19. Hymn. "How Pleased and Blessed Was I" (597). Lesson, from 2nd Timothy, 2nd Chapter. Hymn, "We've a Story to Tell to the Nations" (793). Offering. Offering.

Anthem, by the Choir.

Prayer. Hymn, "Break Thou the Bread of Life"

Hymn, "Break Thou the Bread of Life" (209). Solo. Mr. Cyril Huggett, "Hold Thou My Hand, Dear Lord." Sermon, Psalm 19, verses 7 and 8, Rev. G. A. Craike. Hymn, "Lead. Kindly Light" (340) Benediction.

Recessional. 12.15: Music. 12.30: Close.

### AFTERNOON CONCERT-3 to 4.30.

3.0: From the Lyceum Hall, Pitt Street-Pleasant Sunday Afternoon Concert, ar-ranged by the Central Methodist Mission. 4.30: Close.

EVENING PROGRAMME-6 to 10.30.

**EVENING PROGRAMME**—6 to 10.30. 6.00: A programme of Jewish music. 6.40: An address by Rear-Admiral Evans. 7.0: An hour with the great composers. arrangéd by Madame Evelyn Grieg. 8.0: Ted Henkel's Capitolians and Fred Scholl at the Wurlitzer Organ. 10.0: Meditation music. 10.30: Close.

## 2BL

Australian Broadcasting Company, Ltd., Market St. Sydney (Wavelength, 353 metres).

MIDDAY SESSION-10.55 a.m. to 3 p.m. 10.55: Announcements.

11.0: From St. Andrew's Cathedral: Morn-ing service, conducted by the Rev. the Dean

Ing service, conducted by the Rev. the Dean of Sydney. 12.15: From the Studio: Musical items. 12.30: Néws items. 12.38: Studio presentation of a specially arranged programme of music. 2.15: The "Cheer-up" Society, conducted by Mr. Frank Grose. 2.30: Half an hour's music with the great master

masters. 3.0: Close.

- 5.52: Marjory Allomes, contralto.

**EVENING SESSION-6 to 10.** 6.0: A session for children in hospital. 6.40: From Pitt Street Congregational Church, organ recital by Lillan Frost. 7.0: The evening service from Pitt Street.

Congregational Church, conducted by Rev. T Congregational Church, conducted by E. Ruth. 8.45: Stanley Catlett, tenor. 8.52: Carl Budden Morris, planist. 9.4: Virginia Bassetti, soprano. 9.11: Monarco Quartette. 9.26: Stanley Catlett, tenor. 9.33: Carl Budden Morris, planist. 9.45: Monarco Quartette. 10.0: Close. National Anthem.

## 2GB

## Theosophical Broadcasting Station, 29 Bligh St., Sydney (Wavelength 316 metres).

Theosophical Broadeasting Station, 29 Bligh St., Sydney (Wavelength 316 metres). 9.0: Address, by Miss Mary Rivett, "Wis-dom and Experience." 9.30: Address, by Mr. Victor E. Cromer, "Wisdom and Health." 10.0: Music from Studio. 10.15: Organ music, from St. Alban's Church, Regent Street, Syd-ney. 10.30: Morning service, from St. Al-ban's Church. 12 noon: Music from Studio. 12.30: Close down. 3.0: Musical session. 5.30: Children's session, by Uncle George. 7.0: Lec-ture from Adyar House. 8.0: Music from Studio. 8.15: Sacred concert, by courtesy of Messrs. Suttons, Ltd.; player piano solo. 8.23: Miss Ethel Muller, contraito. 8.30: Mr. Gre-gory Valentine. violinist. 8.38: Mr. Gecil Houghton, tenor. 8.45: Miss Elsie Peerless, soprano. 8.53: Player piano solo. 9.0: Weather report 9.1: Miss Ethel Muller, con-traito. 9.8: Mr. Gregory Valentine, violinist. 9.16: Mr. Cecil Houghton, tenor. 9.23: Miss Elsie Peerless, soprano. 9.30: Address by Mr. Victor E. Cromer, "Do Spiritual Qualities Count?" 9.45: Close down.

## 2UW

Radio Broadcasting, Ltd., Paling's Building, Ash St... Sydney (Wavelength, 267 metres).
10.30: Music and request items. 1.0: Close down. 5.30: Children's Hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Request items. 10.30: Close down.

## 2UE

**ZUL** Broadcasting Station 2UE, Storey Street, Maroubra Junction, Sydney (Wavelength 203 metres.) 11.0: Mass from St. Mary's Church, Ridge Street, North Sydney. 12.15: Orchestral music from Radio House. 1.0: Close down. 6.0: Music from Catholic Studio. 6.15: Bes-sion conducted by Rev. Father T. Walsh, S.J. 6.40: Question-box talks, arranged by Dr. L. Rumble, M.S.C. 7.30: Evening devo-tions, from St. Mary's Church, North Syd-ney. 8.10: Vocal and instrumental items. 10.15: Announcements. Close down.

# SUNDAY WIRELESS TALKS

In speaking of "spiritual" power, has the religious consciousness of the ages been concerned with a reality capable of being scientifically investigated, or with a mere nebulous nothing which it were folly to attempt to analyse?

If spiritual power be indeed a definite form of energy, then surely must the laws of its operation be capable of exact statement, and the conditions able to be determined under which man may become conscious channel for such power

Should such a line of thought interest you, listen in to WIRELESS TALKS from STATION 2GB on SUNDAY MORNINGS, from 9 to 10 o'clock, and on SUNDAY EVENINGS from 9.30 to 9.45 o'clock.

## PUBLIC LECTURES

## SUNDAY EVENINGS,

The Vestibule, The Sydney Town Hall.

commencing at 7 o'clock.

## TUESDAY EVENINGS,

The King's Hall, 69 Hunter St., Sydney, commencing at 7.45 o'clock.

LATE AFTERNOON-4.30 to 6. 4.30: The Marrickville Silver Band. 4.30: The Marrickville Silver Band.
4.45: George F. Manuel, tenor.
4.52: Irene Burkitt, violinist.
5.0: The Marrickville Silver Band.
5.16: Marjory Allomes, contralto.
5.20: George F. Manuel, tenor.
5.37: The Marrickville Silver Band.
5.52: Marjory Allomes contralto.

Interstate Programmes, Sun., Aug. 11

## 3LO

Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength, 331 metres.) MORNING SESSION 10.0: Birthday greetings, 10.15: Reproduced music. 10.45: News of the week-end, 11.0: Morning ser-vice from St. Paul's Cathedral; sermon by Canon Snodgrass. 12.30: Close down.

### AFTERNOON SESSION

3.0: Pleasant Sunday afternoon from Wesley Church; speaker, J. J. Virgo, O.B.E., chairman of the Brithsh Commonwealth Union of the Y.M.O.A soloist, Madame Saflo Arnay. 4.30: Glose down. CHILDREN'S HOUR

8.0 to 7.0: An hour's happiness with John the Piper's Son and Brother Bill. EVENING SESSION

EVENING SESSION 7.0: Melbourne String Quartette.—String Quartette, Op. 18, No. 1 F Major (Esethoven); "Allegro Con Brio," "Scherzo," Finale. 7.15: Mary Hotham. contraito-"The Linden Tree" (Schubert), "How Lovely Are Thy Dwellings" 7.22: Ceell Parkes, vio-lin; Myra Montague, piano-Sonata for Violin and Jano, Op. 24, F Major: "Alegro Con Brio," "An-dante Gantabile," "Scherzo." 7.75: Mary Hotham, Melbourne String Quartette-"Variations" (Bee-thoven), "March Militaire E Fiat (Schubert).

- Melbourne Sting Guardete- variations (See-thoven), "March Milliaire E Fiat (Schubert)." NIGHT SESSION 3.0: Overne, "Zampa" (Herold), Stan Porter and Is Symphony Orchesira. Plano solo, "Soiree Vlenne" (Liszt), Mr. Carl Bartling, Vocal number, Selected Jazz Medley, a symphonic arrangement of "Roses," Bob M'Queston and his Band. String Tro, Wigueston and his Band. Theor Soilo, Selected, Arved Norit, Orchestral Selection, "The Fortune Teiler" (Her-bert). Soilo to be selected.

  - Orchestral Selection, "The Fortune Teller" (Her-bert). Baritone Solo, to be selected. Popoular Melody, (a) I Wonder, (b) Together, (c) Dream House, Bob McQueston and his Band (vocal chorus by Charles Stephens). Orchestral Number. "The Waltz Dream" (Strausa). Vocalists: Miss Merna Stewart and Charles Stephens. Organ, Love's Songbore Dust, "The Crucifix" Truppet, Messis, Robertson and Whestland. Sally Selection.-A selection of the most popu-lar Sally Tunes, featuring "Sally of My Dreams," soloist, Chas. Stephens. Tenor Solo, Sicnor Carlo Martini. Cor Anglais Sole, "Fruings Erwachen" (Bach), Edgar Richmond. Orchestral Number. "Coronation March" from "Le Prophete" (Myerbeer), Stan Forter and Symphony Orchestra. 0.30: God Save the King.

10 30

## 3AR

## Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength 484 metres.)

11.0: G.P.O. chimes. 11.1: Morning Service from Scots Church. Preacher: Rev. R. W. Macaulay, B.A.-"Behold the Man." 12.30: Reproduced music. 20: Frank Lanterman, at the W urlitzer. 3.0: Close Arrows and Arr down

### AFTERNOON SESSION

down. AFTERNOON SESSION 4.30: Regal Band---'The Schindian': overture. 'The Order Spinters' The Schindian': overture. 'The Schind Spinters' 'The Creation'' (Burleigh): 'Bean-calise My Name'' (Burleigh): 'Bean'' (Burleigh): 'Going Home'' (Dvorak). 4.50: Organ recital from St. Peter's Church, by Mr. Claude E. Montesth--"Fantasia in G Minor' (Bach), "Pastorale from Or-gan Symphony No. 1' (Vierne). March upon a Theme of Handel (Guilmont. 5.5: Herbert Sanu-derson (burltone). 'Ny, Tho' My Heart Should Break'' (Tachalkowsky). 5.10: Regal Band-Golarms' (Brewer). 'The Rosary'' (Nevin). Medicy of Charms' (Brewer). 'The Rosary'' (Nevin). Medicy of Solo: Regal Band-Oran Fantasi, "Cleopatra'; cor-net solo. 5.0: Clair Scott. contralto-"Romanee.'' (Grichton). 6.10: Gremona Tris-''.'or Ora Without Words'' (Mendelsson). 'The Sonr'' (Ireig). 'A Swam' (Grieg). 6.33: Myra Montasue, plano-'Song yithout Words'' (Mandelsson). 'The Son'' (Rameau-Parkes). 'Bource'' (Handel). **EVENING SESSION.** 6.53: Wat's on the Alt.

### EVENING SESSION,

- 5.8: What's on the Air.
  7.0; Evensong Service from Independent Church. Preacher: Rev A. Penry Evans.
  8.30: Relay from 2PC, Sydney—
  Ted Henkel and his Capitolians, which includes the Capitol Light Orchestra; Pred Scholl at the Wullitzer.

## 3DB

WIRELESS WEEKLY

- The "Herald" Broadcasting Station, Filnders Street, Melbourne (255 metres.) AFTERNOON SESSION.
  - 3.0: Chamber music and songs. 4.30: Close down. EVENING SESSION
- 6.30: Children's hour. 7.0: An opera, "The Master-singers" (Wagner). 8.0: Request programme, 10.0: God Save the King.

## 4QG

## Queensland Government Radio Service, Brithane (Wavelength, 385 metres). MORNING SESSION

- MORNING SESSION 11.0: The complete morning service will be relayed from St. John's Cathedral. 12.30 p.m.: Conclusion. AFTERNOON SESSION 2.15: From the Church of Denmagk-----Opening Prayer. Hymn Ktrixe og Hjeml, No. 403. The Collect for the Day. The Episitle. Hymn No. 408. The Greed. Hymn No. 467. Solo No. 624 (Mr. C. Christiansen). Sermon.

  - Sermon
- Sermon. Hymn No. 316 The Genediction. Hymn No. 668. Glosing Prayer. IS: Conclusion. he observed the Brisbane Betanic Gardens. Letalyzed from the Brisbane Botanic Gardens. EaRLY EVENING SESSION will

EARLY EVENING RESSION 6.0: Greetings to little listeners, and replies to letters. 7.0: Children's service. NIGHT SESSION The complete evening service from St. John's Gathedral will be relayed. At the conclusion of the church service, the con-cert by the Brisbane Municipal Band will be re-layed from Wickham Park.

### 5CL

Central Broadcasters, Ltd., 114 Hindmatsh Square, Adelaide (Wavelength, 409 metres.)

Ageiaide (Wavelength, 409 metres.) MORNING SESSION. 10.45: Carillon of Belis from Adelaide Town Hall 11.1: Service from Filnders Street Baptist Church 12.10: British official wireless news. 12.15: Close down.

- AFTERNOON SESSION 3.1: A Pleasant Sunday Afternoon Close down
- 7.1: Sertings

down. 3.0: Chimes. 3.1: A Pleasant on Service. 4.0: Close down. EVENING SESSION 6.0: Chimes. 6.1: Birthdaw greetivity vice from Magill Methodist Church. NIGHT SESSION NIGHT SESSION

- itee from Magill Mathodist Church. NIGHT SESSION 8.15: Announcements. Whitled Institute Distress Message. 8.20: From Makill Methodist Church. A concert. Math Withight Stream "White Withight Stream" Athen Newlyn, soprano-"Rejolec Greatly" from "The Messiah." Magill Vice-Regal Band-Selected. Alleen Newlyn, Soprano-Selected. Alleen Newlyn, Soprano-Selected. Macill Vice-Regal Band-Selected. Macill Vice-Regal Band-Selected. Macill Vice-Regal Band-Selected.
- Selected.
- Cowardine, Elocutionist-Fileen
- Elecen Cowfinite, Electronist-"Carry On." Maglil Methodist Cholr-Anthen, "God Came from Teman." From SCL Studio. 10.0: General news. 10.18: Close down.

## **6WF**

UVY1 Commonwealth Government Broadcasting Station. Perth (Wavelength, 100 metres.) 10.30: Speedal heil hour for the enthusiantic lis-tener. 11.0: Moning service from St. Andrew's Church, Perth. 12.15: Close down. 3.30: Tune in, 1.33: Musical programme. 4.30: Close down. 8.45; Beddime stories. 7.30: Evening service from St. George's Cathedral. 8.45; Concert relayed from Queen's Hall, Perth. 10.5; Close down. 104; S. Metre Transmission: Simultaneous broadcast on 104;5 metres of programme given on 1250 metres, com mencing at 6.45 p.m.

## 7ZL

**LALL** Tesmanian Broadcadets Piy, 55 Elizabèth St... Hobart (Wavelength, 516 metres.) Llo ami: Mording service from Memorial Congre-sational Church, Hobart 12.15: Close down. 2.30; From the Studio, a concert programme arranged by the Derwent Concert Band, conducted by T. W. Hog-kins 4.30; Close down. 6.15: Children's Chorus Singing. Conductor, Trevor M. Morris. 6.45: Bertha Southey Brammall. 7.0; Evening service from St. Dsvid's Cathedral. 8.25: From the Studio. A pro-gramme of sacred music, arranged by Madame Helen Gramme J. 30; Close down.



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### VIA2892

(and Melbourne)

2UW

Radio Broadcasting, Ltd., Paling's Building, Ash St., Sydney (Wavelength, 267 metres).

MIDDAY SESSION. 12.30: Music and request numbers. 1.0: Clock and chimes. 1.15: Talk on "Home-craft," by Pandora. 1.40: Music. 2.30: Close down. 4.30: Music and request numbers.

a.30: Music and request numbers.
 EVENING SESSION.
 5.30: Children's Hour, conducted by Uncie Jack.
 6.30: Close down.
 7.0: Music and request items.
 7.45: Radio talk, hints and advice, by Mr. E. Homfray.
 8.0: Songs about Mother.
 9.0: Comments on foreign affairs, by Mr. J. M. Prentice.
 9.10: Request items.
 10.30: Close down.

2KY

Trades and Labor Council, Goulburn St., Sydney (Wavelength, 280 metres.) MORNING SESSION.

MORNING SESSION. 10 a.m.: Tune in to the ticking of the clock. 10.3: Popular fox-trots. 10.15: Ha-walian steel gultar selections. 10.30: Re-quest numbers. 10.50: Vocal items. 11.0: A few laughs. 11.5: Pianoforte selections. 11.15: Calls and announcements. 11.20: Musical interlude. 11.30: Request numbers. 11.40: Where to go to-night. 12 noon: Closing an-nouncements. CHILDREN'S SESSION. 6 p.m.: Birthday calls, request numbers, and kiddies' entertainment, Aunt Jemima and Uncle Bert. EVENING SESSION.

and Uncle Bert. EVENING SESSION. 7 p.m.: Musical interlude. 7.15: Dance music. 7.45: Militant Women's Group. 8.0: Overture. 8.8: Tenor solos, Mr. A. Hillman. 8.15: Dance music. 8.30: Series of Biblical talks, presented by I.B.S.A. 8.45: Soprano solos, Miss Wright. 9.0: Novelty interlude. 9.10: Request numbers. 9.30: Selection of latest Parlophone, Columbia, Regal, Bruns-wick, and Golden Tongue records. 10.0: Closing announcements.

Owing to the fact that we have

not been able to give our many

service calls the attention they

demand, we have removed to

West

Livingstone Rd.,

Marrickville, and are now ready for quick action.

For any Service Calls or

Information, Ring

PETERSHAM 1630

Note our New Address :--

The **Resco Radio Supply Co.**,

235 LIVINGSTONE RD.,

WEST MARRICKVILLE

Petersham 1630

Closing announcements.

235

# Local Programmes, Monday, August 12

## 2FC

Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 442 metres).

EARLY MORNING SESSION-7 to 8.15. 7.0: "Big Ben" and Meteorological infor-

7.0: Big Ber mation. 7.3: This morning's news, from the 7.3: This morning's news,
"Guardian."
T.8: Early rising music
7.45: Mails and shipping.
7.48: What's on to-day.
7.50: Children's birthday calls.
8.0: Music from the Studio.
8.15: Close.

- MORNING SESSION-10.30 to 12.30 p.m. MORNING SESSION-10.30 to 12.30 p.m. 10.30: Announcements. 10.32: A.B.C. Racing Observer. 10.45: From the State Theatre-Recital at the Grand Organ, by Edgar Stone. 11.0: Household Talks-Talk on cooking, by Miss Ruth Furst. 11.10: Cables, A.P.A. and "Sun"-"Herald" news service.

- news service. 11.15: The Studio Orchestra. 12.0: "Big Ben": Stock Exchange, and metal quotations. 12.2: Fiction talk. 12.30: Midday market and weather reports. supplied by the N.S.W. State Marketing Board
- Board. 12.30: Close.

- THE LUNCH HOUR-1 p.m. to 2.30 p.m. 1.0: Lunch to music with the A.B.C. O Orchestra.
- 2.0: Stock Exchange, second call. 2.2: A glance at the afternoon papers. 2.27: Announcements.

- 2.27: Announcements.
  THE RADIO MATINEE—2.30 to 4.30.
  2.30: The A.B.C. Orchestra.
  2.45: Anne Mills, mezzo.
  2.52: Scott Alexander, In a sketch.
  3.2: The A.B.C. Orchestra.
  3.12: Dorothy Farmer, pianist.
  3.22: Anne Mills, mezzo.
  3.30: The A.B.C. Orchestra.
  3.45: Keith Kennedy, violinist.
  3.52: Scott Alexander, in a sketch.
  4.10: Dorothy Farmer, pianist.
  4.18: Keith Kennedy, violinist.
  4.18: Keith Kennedy, violinist.
  4.28: Stock Exchange, third call.
  4.30: Close.

- 4 30: Close.
- EARLY EVENING-5.45 to 7.55. 5.45: Kiddles' "Goodnight" storles, told by the "Hello Man." assisted by Aunt Willa and
- the Marjory. 6.45: The Studio Dinner Orchestra. 7.30: A.B.C. Sporting Service. 7.37: Stock Exchange, final call. 7.40: Late news service. 7.45: From the State Theatre-Mr. Price Dunlavy at the Grand Organ.

- bunlavy at the Grand Organ. **EVENING PRESENTATION-8 to 11.30.** 8.0: The National Broadcasting Orchestra. 8.15: Raymond Beatty, basso. 8.23: Gladstone Bell. 'cello. 8.31: The National Broadcasting Orchestra. 8.46: Molly Mackay, soprano. 8.54: Seignor Torzillo, harpist. 9.2: The Country Man's weather session-(a) New South Wales forecasts. (b) Inter-State weather synopsis. 9.3: The Arcadians Male Quartette. 9.13: The National Broadcasting Orchestra. 9.28: Elma Perdriau. monologues.

- 9.13: The National Broadcasting Orchestra.
  9.28: Elma Perdriau. monologues.
  9.42: The National Broadcasting Orchestra.
  9.57: The Arcadians Male Quartette.
  10.5: Connie Harris, violinist.
  10.15: Announcements; official weather forecast.
- 10.20: Romano's Cafe Dance Orchestra. conducted by Bennie Abrahams. 11.30: Close. The National Anthem

## 2BL

- Australian Broadcasting Company, Ltd., Market St., Sydney (Warelength, 353 metres). OPENING SESSION-8.15 to 11 a.m. 8.15: Music for every mood. 8.45: Meteorological data. 8.50: Light music and songs. 9.30: British Official wireless news. 9.35: Now music

  - 9.35: Now music.

9.35: New fusic. 10.5: News from the "Guardian." 10.10: The Ladies' Club hour—the Austra-lian Women's A.B.C. Association, conducted by Miss Gwen Varley.

10.30: The Studio Orchestra—Mr. Rodda 11.0: Close.

- MIDDAY SESSION-12 noon to 2.30 p.m.
- 12.0: Announcements. 12.2: The A.B.C. Orchestra. 1.0: Afternoon news from the "Evening

News.

- 1.5: Studio music
- 1.5. Southo music.
  1.15. Women's "Interest Talk."
  1.30: The Traders' "Selling the Set" music.
  2.0: At the console of the Wurlitzer organ at the Capitol Theatre, J. Knight Barnett.
  2.12: Studio music.
- 2.30: Business efficiency talks. 2.45: "The Magic Carpet." a story of travel and adventure.

  - nd adventure. 3.0: Pepular dance numbers. 3.12: Laurel Mather, popular vocalist. 3.19: Walter Searle, entertainer. 3.29: Popular numbers. 3.41: From the Oriental Ballroom, Syd
- 3.41: From the Oriental Ballroom, Sydney Simpson's Syncopaters in dance music. 3.48: From the studio, Laurel Mather, popular vocalist. 2.55: Dance music
- popular vocalist. 3.55: Dance music. 4.7: Walter Seale, entertainer. 4.71: Popular items. 4.72: From the Oriental Ballroom, Sydney Simpson's Syncopaters, in dance music. 4.34: From the studio, popular numbers. 4.45: "The Trade Hour," demonstration music.
- music Close 5.45:

## THE DINNER HOUR.

- 6.15: The Studio Dinner Orchestra. 6.45: The A.B.C. Younger Set Club-Boys' Aero Club, conducted by Mr. Norman Lyons. 7.5: Studio music.
  7.20: Late market reports.
  7.30: The Studio Dinner Orchestra.
  7.55: What's on the air to-night?
  7.55: What's on the air to-night?

8.10: Henry and Horace, a musical novelty act. 8.20: Grace Quine, popular vocalist. 8.28: Will and Barbara James, musical en-

8.20. Will and parota barles a master chetertainers.
8.38: Tom Foggitt, novelty pianist.
8.46: Raymond Beatty, basso.
8.54: Gladstone Bell, 'cello.
9.4: Will and Barbara James. musical en-

9.14: Molly Mackay, soprano. 9.22: Henry and Horace, a musical novelty

act. 9.30: Late weather forecast, for the man

9.30: Late weather forecast, for the man on the land. 9.32: Elma Perdriau, monologues. 9.42: Seignor Torzillo, harpist. 10.0: Grace Quine, popular vocalist. 10.8: Tom Foggitt, novelty planist. 10.18: Connie Harris, violinist. 10.25: Official weather forecast, metropoli-tan and country; late "Evening News" ser-vice

2GB

2GBB Thesesophical Broadcasting Station, 32 Bligh St. Sydney (Waveleagth Sile metres). 10.0: Music. 10.10: Happiness talk, by A. E. Bennett. 10.20: Music. 10.30: Womer's session, by Miss Helen J. Beegling; house-keeping hints and shopping guide; Holly-wood news. 11.30: Music. 11.45: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Movie Know-all. 3.0: Talk by Mr. H. Morton. 3.30: Close down. 5.30: Children's session. by Uncle George. 7.0: Music. 8.0: Miss Florence Gordon. contraito. 8.7: Symphony orchestra. 8.15: Mr. Leslie Herford, baritone. 8.22: In-strumental Trio. 8.30: Humorous interlude, by Mr. Jack Win and Mr. Heath Burdock. 8.35: Miss Dorothy Stacey, soprano. 8.45: Address. 9.0: Weather report. 9.3: Sym-phony Orchestra. 9.13: Miss Florence Gor-dor, contraito. 9.23: Humorous interlude, by Mr. Jack Win and Mr. Heath Burdock. 9.28: In-strumental Trio. 9.53: Miss Dorothy Stacey, 9.33: Mr. Leslie Herford, baritone. 9.38: In-strumental Trio. 9.53: Miss Dorothy Stacey, soprano. 10.0: Instrumental music. 10.30: Close down.

10.30: Close, National Anthem.

Writer.

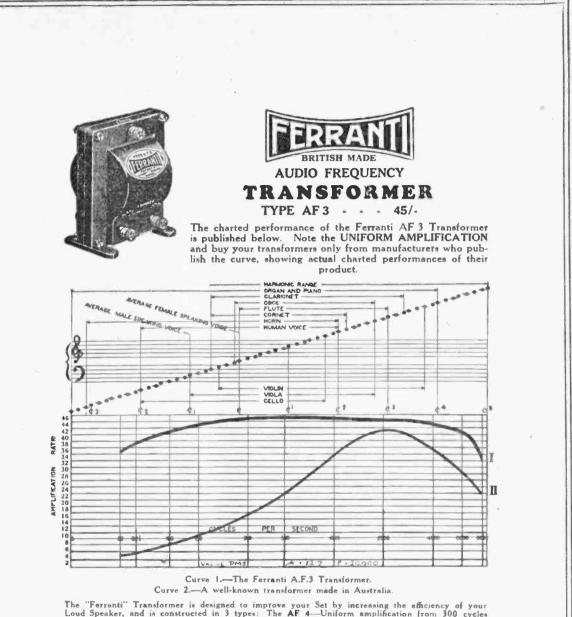
tertainers

vice

- THE NIGHT PROGRAMME-8 p.m. to 10,30 p.m. 8.0: Sonny Miller, the Crooning Song

## WIRELESS WEEKLY

Page Thirty-Nm?



The "Ferranti" Transformer is designed to improve your Set by increasing the efficiency of your Loud Speaker, and is constructed in 3 types: The AF 4.—Uniform amplification from 300 cycles upwards, 50 per cent. of maximum amplification, even at 50 cycles, Price 34/-. The AF 3---Uniform amplification from 100 cycles upwards, over 80 per cent. amplification at 50 cycles, Price 45/-. And the AF 5---Uniform amplification from 100 cycles upwards, over 90 per cent. amplification at 50 cycles---one can almost say uniform amplification from 50 cycles upwards, Price 57/-.

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### Page Forty

## WIRELESS WEEKLY

Friday, 9th August, 1929

5CL

Central Broadcasters, Ltd., 114 Hindmarsh Square, Adelaide (Wavelength, 409 metres.)

MORNING SESSION

3.0 to 4.30: General programme, see Friday, 3.0 to 4.30: General programme see Friday, EVENING SESSION 5.50 to 7.35: General Programme see Friday. NIGHT SESSION

Walter Barratt and his Maison Masters of

"Kashmir." (Founded on Amy Woodforde-Finden's famous "Love Lyrics"). "My Dream Sweetheart" (Hall). 8.20: Jack Burgess and his Ukuleje-"Why Should I say I'm Sorry." 8.24: Walter Barratt and his Maison Masters of Melody-

8.24: Waiter Barratt and his Maison Masters of Melody— "Back in Your Own Backyard" (Jolson). "Let a Smile be Your Umbrella" (Fayne). "Lonely Little Bluebird" (Woods).
8.34: Introducing Rupert Hazell and Elsie Day, who will entertain you.
8.42: Waiter Barratt and his Maison Masters of Elody—

"The falls of the farratt and his Maison detection of the farratt and his Maison Masters of Mclody— the farratt and his Maison Masters (Joison)

'dy--'' Klas your Hand, Madame'' (Erwin).
''Love Sings a Song in my Heart'' (Cherniavsky).
''Honey'' (Simon).
18: Jack Burgess and his Drkulele-''Me and the Man in the Moon'' (Leslie).
52: Walter Barratt and his Maison Masters of viv--

9.32: Watter Datrate and "A Precious Little Thing Called Love" (Davis). "Sweet Ste. Just You" (Harris). "That's how I feel about you" (Davis). 10.2: Jack Burges and Als Ukulete— "Oh, what a night to love." 10.6: Walter Barratt and his Maison Masters of Menody.

NEWS SESSION. 10.15: General news service. 60.30: Walter Barratt and his Maison Masters of

10.10. (a).30: Walter Barrau "That's Her Now" (Ager). "The Wedding of the Painted Doll" (Brown). "You're Wonderful" (Fields). "You're Wonderful" (Brown). "Beautiful" (Shay). "Beautiful" (Shay). Happy Humming Bird" (De Sylva). Beauter numbers. Beauter numbers.

**6WF** Communication Government Broadcasting Station, Perth (Wavelength, 100 metres.)

Perth (Wavelength, 100 metres.) 10.0: Granuophone records. 11.0: Close down. 12.30: Markets, news, etc. Weather, 1.3: Music. 1.30: Close down. 3.30: Afternoon tea music. 4.0: "Scal-ling Wax Craft." by Miss B. Hoyle, 4.30: Close down. 6.45: Bedtime stories by Uncle Duffy. 7.3: Light music. 7.30: Commercial and general informa-tion. 7.45: Popular science talk. 8.0: Time signal. 8.1: Weather. 8.3: Children's Orchestra. 8.50: Late news. Ships within range. Late weather, 9.8: Programme continued. 10.30: Close down. 104.5 Metre Transmission: Simultaneous broadcast on 104.5 metres of programme given on 1250 metres. com-mencing at 6.45 p.m.

7ZL Tasmanian Broadcasters Piy., 95 Elizabeth St., Hobart (Wavelength, 516 metres.)

11.30 a.m.: Record recital. 11.34: Midlands weather forecast. 11.35: Record recital. 11.55: Tasmanian stations? 9 a.m. weather report. 12.1: Shilpping in-formation; ships within wireless range; mail notices; housewives; guide; commercial news. 12.4: Record

11.15 to 2.0: See Friday.

8.10: Walter Barratt and Melody— "The Line Up" (Lake). "Kashmiri."

Chimes.

10:

Melody

9.48

9.52:

Melody---"I do" (Ash). "Marle" (Berlin). "Glad Rag Doll" (Ager). NFWS 5

# Interstate Programmes, Monday, August 12

## 3LO

Australian Broadcasting Co., 120A Busseti St., Melbourne (Wavelength, 371 metres.)

EARLY MORNING SESSION 7.0 to 8.15: See Friday. MORNING SESSION Sporting

MUGRNING SEDERON Sporting 10.30: Current Events in the Racing World, by Eric Weich, 10.40: Reproduced music. 10.50: "The Potball Field," by MeL Morris. MORNING MUSICALE 11.0: A.B.C. Orchestra, with Jean Harrison Lee, contrailo. 12.30: Close down. MIDDAY SESSION 1.0 to 2.0: Luncheon music provided by the Na-tional Broadcasting Orchestra, under direction of Wm. O. James; conductor, Percy Code. 2.0: "Boys and Cirls of Other Days," Mir. N. D. Harper, M.A. Bure, Conductor, Percy Code, 2.0: "Boys and Cirls of Other Days," Mr. N. D. Harper, M.A. Bure, Other Days, "Mr. N. D. Harper, M.A. Bure, Other Days," Mr. N. D. Harper, M.A. Bure, Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. Harper, M.A. Bure, C. A. St. Other Days, "Mr. N. D. St. Marper, "Mr. Bure, "Mr. Bu

## THE RADIO MATINEE

Serie. THE RADIO MATINEE 3.0: Orchestra-"If I Were King", (Adam), "Othn-ette" (Bos), 3.10: Sytiet M"Pherson, soprano, "Three Green Bonnets" (D'Hardelot), "Laekaday" (Crampton), "The Fairy Laundry" (Montague Phil-lips), 3.20: J, and G, the Confidential Two-Song waitz, "Was it a Dream?"; siow foxtrot, "It's a Precious Little Thing Calld Love"; piano novelty, "Noia"; song, "Mighty Litte a Rose"; novelty song, "A Good Man Nowadays is Hard to Find." 3.35: Prederic Earp, barltone. Old English folk songa-"Summer Is a-Coming" (13th century), "Bring US in Good Aie" (15th century), "My Little Pretty One" (16th century), "The Biacksmith" (17th century), 3.65: Eunice Garland, piano reelta-"Spinning Song" (Mendelssohn), "The Music Box." Op. 32 (Luidow, "The Lark" (Glinka-Baiakires). 4.0: Prederic Earp, barltone, more English folk songa-"Strawberry Fair" (traditional), "Farm Laborers" Song- "traditional), "Sally Gray" (traditional), 4.10: Orchestra--Thiree Dances." Cyril Scott, 4.15: Edward Beachcroft, tenor-"Ott in the Stilly Night" (Moftai), "I Hear a Thrush at Eve" (Cadman), "Passing By" (Purcell). 4.25: Orchestra--"Salut d'Amour" (Eigar), "Adleu" (Frinl), 4.30: Closse town. THE CHILDREN'S CORNEE down.

### THE CHILDREN'S CORNER

5.45: Travel on the Magic Carpet with Billy Burniy. Rita Hilton will amuse the children with songs at the plano. 6.15: A Taik of Interest to the Older Boys and Girls. 6.30: Market reports. EVENING SESSION

"Public School Activities," Mr. Percival Tay-lor, 7,15: "Recent Discoveries and Inventions"—1. Wireless Transmission of Pictures, Mr. H. Johnston. 7,30: "Recent Books of Note," Mr. A. A. Phillips, BA. 7,45: "The World's Kaleidoscope," Professor H. K. Bailey, B.A., LLB.

K. Bailey, B.A., LL.B.
NIGHT SESSION
0. National Broadcasting Orchestra (under di-lon of Wm. G. James; conductor, Prey Code)vonic Rhapsody" (Friedman).
10: Hulf an Hour of Classical Music, arranged Mary Campbell.
40: Mias A. Liewellis, harpist-Selections from remetioner 8.0 rection

8.10 bi 8.40

her repertoire. 8.50: The Melbourne Repertory Theatre Company present "Five Birds in a Cage," by Gertrude Jen-

nings

a.30. The Meinodrine Repertory Intextre Combality present "Five Birds in a Cage," by Gertrude Jen-ings.
PERSONS OF THE PLAY (In order of speaking):
Susai, the Duchess of Wilshire Athol Fulford Leonard, Lord Porth Frank D. Clewlow Nelly, a milliner's assistant Kathleen Salter Sere, a liftman George Falkner Bert, a workman Frank D. Clewlow Nelly, a milliner's assistant Kathleen Salter Scene: A London Tube Lift. The play produced by Frank D. Clewlow.
9.20. Orchestra— Selections from his repertoire.
9.35: Orchestra— Stite, "Harvest Time" (Haydn Wood)
9.45: Claude Carter, entertwiner-"The Rowd is Hup it's Hup." 9.55: Pitteen minutes with Yvonne and Yvetle and plano.
10.10: Orchestra— Selections from "Katinka." 10.20: News from To-morrow's Papers.
10.30: The "Rex" Dauce Band 11.30: Close down.

## 3AR

## Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength 184 metres.)

Alto to 11.0: See Friday. MIDDAY SESSION 12.0: "Mainly for Women." 12.15: Midday news session from the studio. 12.30 to 1.0: National Broadeasting Orchestra (under direction Wm. G. James; conductor, Percy Codel. 1.0: Time chlmes from G.P.O. 1.1: Stock Exchange; weather reports; comments on the day's news. 1.30: Reproduced music. comments music.

AFTERNOON SESSION. 2.0: Overture, Stan Porter's Symphony Orchestra. 2.10: Grace Jackson, contraito. 2.30: Bertha Jor-gensen, violin-two movements from Sonata (Han-

del). 2.40: "Business by Telephone," an original farcical sketch by Lesile Williams. The scene takes place in the office of Messrs. Rusty and Dusty, House and Estate Agents. Mr. Rusty, Lesile Williams, Miss Julia Riskitt, Eleanor Underwood, 3.0: Jock Gormley, ten minutes of whisting comedy. Jock Gormley, ten minutes of Notions Revue Company." 4.15: Reproduced music, 5.45: Close down. 6.16 to 7.30: Dinner music, supplied by the A.B.C. Studio Orchestra. View Note Setting the A.B.C. Studio Corbestra. 7.45: Meyeroduced music, 5.45: Close down. 6.16 to 7.30: Dinner music, supplied by the A.B.C. Studio Corbestra. You the Art Tounght." 7.32: Latest musical releases: 7.45: Market reports.
8.0: Prahran City Band-March. "Bilver Badge" (Rimmer). Intermezzo. "Amina" (Lincke).
8.10: Thirty minutes with "The Town Topics."
8.0: Prahran City Band-Badge" (Rimmer). Bate Your pencil paper, and pack of cards in readiness.
9.0: Mariana Trio, modern melodies.
8.10: Mariana Trio, Bander (Rimmer). 1914; "A Rustic Holday" (Rimmer). 2014; "A Rustic Holday" (Rimmer). 2015; "A Rustic Holday" (Rimmer). 2014; "A Rustic Holday" (Rimmer). 2014; "A Rustic Holday" (Rimmer). 2014; "A Rustic H

- "Drink to me Only, and O, today, 9.45: Frank Thomas, bass-"When the Sergeant-Major's on Parade" (Long-staff), "Sylvia" (Oley Speaks), 9.52: Edouard Lambert, violin, 10.0: Sketch from Dickens-Maurice Dudley, 10.12: Frank Thomas, bass-"When the King Goes Forth to War" (Koene-man), "At Dawning" (Cadman), 10.20: Prahran City Band-"La Travista" (Verdi), 10.30: Close down.

## 3DB

## The "Herald" Broadcasting Station. Flinders Street. Melbourne (255 metres.)

Melbourne (253 metres.) MORNING SESSION. 11.0: Time signal. Light orchestra and songs. 11.30: The world's fashions and folbles, by "La Vogue" 11.35: Operatic favorites. 12.0: Ken Cotton's Revellers, and community singing at King's Theatre. Conductor, Mr. G. J. Mackay. 1.45: Close down. AFTERNOON SESSION 2.0: Instrumental and vocal solos. 2.30: Symphony orchestra and songs. 2.55: Atwater Kent radio hour. 3.55: News 4.0: Close down. 5.30: Billy Bunny's children's hour. 6.0: Wur-litzer organ, and modern songs. 6.15: Dorothy Silk, stories for the children. 6.30: What's on at the theatres and movies. 6.32: Radio Club. 6.35: Trios and songs. 7.0: Brass bands and balas. 7.30: Hawalian music. 7.45: Market reports. NIGHT SESSION

Richt Bisker (Epoils): Richt SESION 8.0: "Aeollan" programmie 8.30: Symphony session. 9.0: Band music and humor. 9.30: Organ, 'cello, and songs. 10.0: Variety. 10.30: Slumber music. 10.40: News. 10.45: God Sawe the King.

## 4QG

## Queensland Government Radio Service, Brisbane (Wavelength, 385 metres).

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Page Forty-One

recital. 12.29: Announcements. 12.55: News service; British official wireless news; railway auction produce sales held at railway. 1.16: Under the suspices of the "Come to Tasmania" organisation, A. J. Honey, will speak on "All Australia" or down. 3.0: G.P.O. clock chlmes the hour. 3.1: Record recital. 4.15: "Aunt Edna" on "Evening Wear." 4.30: Clock colors the hour. 3.10 Professor T. Francos, of Tasmanian University Professor T. Francos of Tasmanian University Under the auspices of the Tasmanian University Professor T. Francos of Tasmanian University Deck chlmes the hour. 8.1: Record recital. 4.15: O. S. Roberts, of the Government Tourist Bureau, will Speak on "Tasmanias East Coast." 5.0: G.P.O. clock chlmes Marsh, organist MrS. emple, bartione. Marsh. James Marsh, organist MrS. emple, bartone. 9: O. New seeking 5: Record recital. 10.0: G.P.O. clock chlmes the hour. Close down.

### Radio Crossword Competition

PRICE'S Radio Service announce a novel competition—to construct a Radio Crossword Puzzle incorporating not less than 50 per cent. Radio terms and the name "Prices." First prize is an open order for £3/3/, second prize open order for £1/1/. Closing date is fixed for August 20, and winners will be announced in WIRELESS WEEKLY issue August 30.

### Dramatic Baritone

RIC JONES. Melbourne bass-baritone, is

included in the programme from 3LO on August 13, in some dramatic numbers. Apari, from his previous broadcasting and concert work, Mr. Jones will be remembered as the winner of last year's Sun Aria Competition, when the judges predicted a most promising future for this young artist.

## Successful Young Singer

MISS KATHLEEN SIMMS will be heard from 3AR, commencing on August 12, by of Old English songs, interspersed with some string quartette "period" music. Miss Kathleen Simms will be remembered as a successful entrant in the 3LO voice competition, and among her Melbourne appearances may be mentioned "Elijah." in which John Brownlee sustained the title role.

## Negro Spirituals From 3AR

A MONG the many new quartettes that have been heard over the air lately. mention must be made of the Victory Quartette, who are giving a programme of Negro Spirituals from 3AR on August 11. Each individual member is a soloist of repute. and their ensemble work reaches a high standard.

## A Globe-trotter at 3AR

A DIVERTING series of talks will be given from 3AR, commencing on August 12, by Mrs. Maurice Posner, who has just returned from a two years' trip round the world. Mrs. Posner will endeavor to give some intimate glimpses of home life in other countries, as seen through a woman's eyes.

## Maynard Dakin Broadcasts

MR. DAKIN has been before the public for many years, and when he first embarked upon his professional career, appeared several times on the same programme as the famous Dan Leno, at the London Pavilion, which was, at that time, the world's recognised home of vaudeville. It is also interesting to know that, during the war, Mr. Maynard organised a band of entertainers. "The Girls Who Stayed at Home," and through this medium, was successful in raising about £14,000 for war charities.



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### Page Forty-Two

Friday, 9th August, 1929

2KY

ZK I Trades and Labor Council, Goulburn St., Sydney (Warelength, 280 metres.) MORNING SESSION. 10 a.m.: Tune in to the ticking of the clock. 10.3: Popular fox-trots. 10.15: News items. 10.30: Vocal items. 10.50: Hawailan steel guitar selections. 11.10: A few laughs. 11.5: Pianoforte selections. 11.16: Calls and announcements. 11.20: Musical numbers. 11.30: Request numbers. 11.40: Music and vocal items. 11.55: Where to go to-night. 12 noon: Closing announcements. CHILDREN'S SESSION. 6 pin.: Birthday calls, request numbers, and kiddles' entertainment, Aunt Jemima and Uncle Bert. EVENING SESSION.

and Uncle Bert. EVENING SESSION. 7 p.m.: Musical interlude. 7.13: Sporting feature—Turf topics. how they should rur. to-morrow. Mr. Geo. A. Davis. 7.45: Request numbers. 8.0: Novelty numbers, Miss Billie Underwood. 8.10: Soprano solos. 8.18: Bari-tone solos, Mr. Higgins. 8.26: Pianoforte solos, Mr. Hancock. 8.30: Series of Biblical talks, presented by I.B.S.A. 8.45: Music and request numbers, from the Studio. 9.0: Sporting feature—Presented by Tooth and. Co.. Ltd., Kent Brewery, from the ringsize of M'Hugh's Leichhardt Stadium, results of early events, and full description of main 15-round event. 9.40: Dance music, from the Studio. 10.0: Closing announcements.

2UE

Broadcasting Station 2UE, Storey Street, Maroubra Junction, Sydney (Wavelength 293 metres.)

AFTERNOON SESSION. AFTERNOON SESSION. 1.0: Orchestral and vocal music. 1.45: Organ solos. 2.0: Vocal and instrumental music. 2.30: Announcements. Close down. EVENING SESSION. 7.15: Orchestral dinner music, 8.0: Over-ture, "Pique Dame." 8.10: Orchestral music. 10.15: Close down.

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# Local Programmes, Tuesday, August 13

## 2FC

- Australian Broadcasting Company, Ltd., Market St., Sydney (Wardenuth, 442 metres). EARLY MORNING SESSION-7 to 8.15. 7.0: "Big Ben" and Meteorological Infor-
- 1.0: Englishing since the from the 1.3: This morning's news, from the
- 7.8: Early rising music. 7.45: Mails and shipping. 7.48: What's on to-day. 7.50: Children's birthday.

- 7.45: What's on the 7.50: Children's birthday cars. 8.0: Music from the Studio. 8.15: Close. ORNING SESSION-10.30 to 12.30 p.m. Observer. Pacital a MORNING
- **BURNING SESSION-10.30 to 12.30 p.m.** (0.30: Announcements, 10.32: A.B.C. Racing Observer, 10.45: From the State Theatre-Recital at the Grand Organ. by Edgar Stone. 11.0: Household Helps-Hints to house-wives, by Miss Ruth Furst. 11.10: Cables, A.P.A. and "Sun"-"Herald" pews service.

- news service. 11.15: Studio Orchestra. 12.0: "Big Ben" Stock Exchange and metal quotations. 12.2: Literary talk. 2.20: Midday market and weather reports. suppled by the N.S.W. State Marketing Board Board.

## 12.30: Close. THE LUNCH HOUR—1 p.m. to 2.30 p.m. 1.0: Lunch to music with the A.B.C. C Or-

- 1.0: Lunch to music with the A.B.C.
  Chestra.
  2.0: Stock Exchange, second call.
  2.2: A glance at the afternoon papers
  2.7: Pojular education.
  2.27: Announcements.

  - A. Foldiar education.
    Arbouncements.
    THE RADIO MATINEE—2.30 to 4.30.
    30 The A.B.C. Orchestra
    45: John Andrews, tenor.
    52: Nellie Ferguson, monologues.
    6. The A.B.C. Orchestra
    15: Pergy Dunbar, contraito.
    22: Lionel Hickey, violinist.
    29: John Andrews, tenor
    36: The A.B.C. Orchestra
    51: Pergy Dunbar, contraito.
    52: Lionel Hickey, violinist.
    53: Lionel Hickey, violinist.
    54: The A.B.C. Orchestra
    55: Lionel Hickey, violinist.
    56: The A.B.C. Orchestra
    57: The A.B.C. Orchestra.
    58: Stock Exchange, third call.
    30: Close
  - 222

  - 3.0
- 4.30: Close. NOTE —Race results from Gosford will be yon as received. EARLY EVENING-5.45 to 7.55, given.
- 45 Kiddies "Gondiaht" stores to "Hello Man." assisted by Aunt Eily 45 The Sludio Dinner Orchestra. 30: A.B.C. Sporting Service. 37: Stock Exchange final call. 5 45 told by
- the
- 67

- 7.40: Late news service. 7.45: From the State Theatre-Mr. Price wilsow of the Grand Organ. FVENING PRESENTATION-8 to 11.30. Ð١
- EVENING PRESENTATION-8 to 11.30. <sup>6</sup> O: Fun from Fullers'. <sup>8</sup> 15: From the Studio-A dance night-<sup>16</sup> ABC. Dance Band. <sup>8</sup> 24: The A.BC Dance Band. <sup>8</sup> 44: Studio Delignoff Presing Ballalaika. <sup>8</sup> 53: The A.B.C Dance Band. <sup>9</sup> 5: Offein' weather forecast. <sup>9</sup> 6: Alf Lawrance and Nell Crane, enter-timers.
- The

- ainers. 9 16: The ARC Dance Band.
- Rand
- 9.33; The ABC Dance Band 9.45; Fred Bluett comedian. 9.55; The ABC Dance Band
- 10 15 Late weather report and announcements 10,20: The A.F.C. Dance Rand. 11 30: Close National Anthem

## 2BL

- Australian Broadcasting Company, Ltd., Market St., Sydney (Waveleneth, 333 metres). OPENING SESSION-8.15 to 11 a.m 8.15: Music for every mood. 8.45: Meteorological data. 8.50: A bunch of ballads. 9.30: British official wireless news. 9.35: New music. 10.5: New fice the "Coursion "
- 9.35: New music. 10.5: News from the "Guardian." 10.10: The Ladies' Club Hour—The Austra-flan Women's A.B.C. Association. conducted by Miss Gwen Varley. 10.30: The Studio Orchestra—Mr. Rodda. 11.0: Close.

## MIDDAY SESSION-12 noon to 2.30 p.m.

12.0: Announcements. 12.2: The A.B.C. Orchestra. 1.0: Afternoon news from the "Evening evs." News. 1.5: Studio music.

- News."
  1.5: Studio music.
  1.15: Women's "Interest Talk."
  1.30: The Traders' "Selling the Set" music.
  2.0: At the console of the Wurlitzer organ at the Capitol Theatre, J. Knight Barnett.
  2.12: Studio music.
  AFTERNOON ENTERTAINMENT-2.30 to 5.45 p.m.
  2.30: Business efficiency talks.
  2.45: "The Magic Carpet," a story of travel and adventure.
  3.0: Romano's Cafe Dance Crchestra, con-ducted by Bennie Abrahams.
  3.12: From the Studio-Gwladys Rowling. popular vocalist.
  3.45: "The Ahad Duo.
  3.45: From the Studio-Gwladys Rowling.
  popular vocalist.
  3.52: From the Studio-Gwladys Rowling.
  popular vocalist.
  3.52: From the Studio-Gwladys Rowling.
  popular vocalist.
  3.52: The Ahad Duo.
  4.0: Romano's Cafe Dance Orchestra, con-ducted by Bennie Abrahams.
  3.45: From the Studio-Gwladys Rowling.
  popular vocalist.
  3.52: The Ahad Duo.
  4.0: Romano's Cafe Dance Orchestra, con-ducted by Bennie Abrahams.
  4.15: From the Studio-G. W. Desmond, comedian.
  4.22: Dance music. comedian.
- comedian.
  4.22: Dance music.
  4.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams.
  4.45: From the Studio—"The Trade Hour."
  demonstration music.
  5.45: Close.

5.45: Close. THE DINNER HOUR. 6.15: The Studio Dinner Orchestra. 6.45: The A.B.C. Younger Set Club-Girl Guides-Miss Gwen Varley. 7.5: Studio music. 7.20: Late market reports. 7.30: The Studio Dinner Orchestra. 7.35: What's on the Air To-night? THE NIGHT PROGRAMME-8 p.m. to 10.30 p.m.

10.30 p.m. 8.0: From the Conservatorium—A concert arranced by the Svdney Madrigal Society. 9.15: From the Studio—Official weather re--A concert

9.15: From the Sound Constraint of the sound of the sound

vice. 10.30: Close. National Anthem. 2GB

2GGB Theosophical Broadeasting Station, 29 Bilgh St. Bydney (Wavelength 316 metres). 10.0: Music. 10.10: Happiness talk, by A. E. Bennett. 10.20: Music. 10.30: Women's session, by Miss Heien J. Beegling, 11.30: Music. 11.45: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. Dorothy Jordan. 2.50: Movie Know-all. 3.0: Music 3.30: Close down. 5.30: Children's session, by Uncie George. 7.0: Music. 7.30: Talk from Suttons' 2GB Radio Service Dept., by Mr. Stan Crittenden. 8.0: Miss Molly Long. contraito. 8.7: Instrumental Quartette. 8.15: Mr. Leon Cavallo. tenor. 8.22: Symphony Orchestra. 8.30: Humorous Interlude, by Mr. Jack Win and Mr. Heath Burdock. 8.35: Miss Gladys Verona. soprano. 8.45: Instru-mental Quartette. 8.50: Miss Molly Long. contraito. 9.0: Weather report. 9.3: Ad-dress. 9.15: Symphony Orchestra. 9.25: Mr. Leon Cavallo. tenor. 9.35: Humorous inter-lude. by Mr. Jack Win and Mr. Heath Burdock. 9.50: Miss Gladys Verona. soprano. 10.0: Instrumental unusic. 10.30: Close down. **2UUW** 

2UW

LUW Radio Breadcastine, Ltd., Paling's Building, Ash St., Sydney (Wavelength, 267 metres), MIDDAY SESSION. 12.30: Music and request numbers, 1.0; Clock and chimes, 1.15: Talk on "Home-craft." by Pandora, 1.40; Music, 2.30; Close down, 4.30; Music and request numbers, EVENING SESSION. 5.30; Children's Hour, conducted by Unclé Jack, 6.30; Close down, 7.0; Music and re-quest items, 8.0; A Carnival of Animals, 9,0; Comments on foreign affairs, by Mr. J. M. Prentice, 9,10; Request numbers, 10.30; Close down.

Close down.



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A12-29

### Page Forty-Four

## WIRELESS WEEKLY

Friday, 9th August, 1929

# Interstate Programmes, Tuesday, August 13

## 3LO

Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength, 371 metres.) EARLY MORNING SESSION 7.0 to 8.15: See Friday.

NO 10 0.10: See Friday. MORNING SESSION Sporting 10.30: Eric Welch—Current events in the Racing Vorid. 10.40: Reproduced music. 10.50: Mel Mor-is—"The Football Field."

## MORNING MUSICALE

11.0: A.B.C. Studio Orchestra, assisted by Ar-thur Douglas, Scottish comedian. 12.30: Close down. EDUCATION SESSION

2.0: Storles from the operas-Miss A. Babington-2.15: Reproduced music. 2.25: Science in Everyday Life-Mr. T. O. Graham. M.Sc. 2.40: Reproduced music. 2.45: A Talk in French-Mons. Th. Rouel, music.

### THE RADIO MATINEE

THE RADIO MATINEE 3.0: National Broadcasting Orchestra—"Dance of the Hours" (Ponchiellin, 3.10: Eric Jones, bari-tone—"Sons of the Sea" (Coleridge-Taylor), "Hope the Hornblower" (John Irelandi, "O Could 1 But Express in Song" (Maiashkini 3.20: Raymond Lam-bert, plano—First Movement of Schumann Concerto, with orchestral accompanimeut, 3.30: Keith Drs-march, "Herolque" (Saint-Sensi, "Leibesfraud") (Kreisieri, 3.55: Jessie M'Michael, soprano—'The Tryst" (Sibellius, "Black Roses," "The Forge" (Brahms), 4.5: Madge Gunner, entertainer-Child Studies, 4.20: Orchestra-Suite, "Gitanilla" (La-conet, 4.30: Close down. THE CULUPEN'S CORNEE

### THE CHILDREN'S CORNER

5.45 "Bobble Bluegini"-Further adventures with "Bcfor and Orace 6.5. Freda Northcote will sing some children's songs "The Second Minuel" (Bes-ley. "My Bear," "Missing," 6.15. "Bobble Bluegun" basn't finished yet. 6.25: A Talk of Interest to the Older Boys and Girls. EVENING SESSION

EVENING SESSION 6:40: Careets for Our Boys and Girls-(1) "What is Vocational Guidance?"-Mr. J. M'Rac, M.A. 6:55: The Things We Drink -(3) "Tea." Mr. R. N. Gilbert, f.10: University Extension Series. 7:25: For the Man on the Land-(a) For General Application. Choral Items 7:30: A programme by St. Paul's Cathedral Choir, Chaccompanied Motels and Anthems of the 18th and 17th centuries-Two Motels by William Byrd (1538-1623): (a) Are Verum (Jesu, Bicst Redeement): (b) Bow Thine East: "Lord, for Thy Tender Mercles' Sake" (Farrant-1520). "Oh Lord, Look Down from Meaven" (Battishill-1738-1801). Two motels from "The Songs of Parewell" (Hubert Parry-1848-1918): (3) "There is a Sure Bellef." (b) "Never Weather Beaten Soll": "There is a Scret Place of Rest (A. E. Floyd) NIGHT SESSION

### NIGHT SESSION

- NIGHT SESSION A Millitary Band Contest : Raifways Military Band. 0. J. Alexander Browne, baritone— "What the Red-Haired Bo'sun Said" (Edith Harrby): "Than -8.10
- "Thou Art Risen My Beloved" (Col. Taylor). 'Sea Fever'' (Irelandi.) ' Musici
- 8 20

- 8.20. Band.
  8.20. Muriel Creek, soprano.
  8.40. Muriel Creek, soprano.
  8.40. Band.
  8.50. "The Wanderers" in song and story— The Pirst Port of Call.
  9.20. The National Broadcasting Orchestra (under irection Wm. G. James, conductor, Percy Code)— "Song of the Fisme" i Romberg).
  9.30. Ern Troiman, humorist— Pifteen Minutes' Privolity.
  9.45. "The Whidburns," Hawaiian Instrumental-tidirection
- "Bongs of the Southern Seas." MO: Jane Douglas, soprano-"Btere's to Love" ("Sunshine Girl"), "Tugette's Song" ("Vagabond King"), "Some Day" ("Vagabond King"), BoLO: Orchestra-Selection, "Katinka" (Primi), BLO: The Rex" Dance Band. 11.30 God Save the King.

## 3AR

Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength 484 metres.)

Melbourne (Wavelength 484 metres.) EARLY WORNING SESSION 8.16 to 11.0: See Friday. MIDDAY SESSION 12.0: How to hang pictures, by W. Dean. 12.15: News service. 12.30: National Broadcasting Orches-tra (under direction Wm. G. James; conductor, Percy Code)-Overture, "Rosamunde" (Schubert). Selections from Modern Composers. 1.0: Time chimes from G.P.O. 1.1: Stock Exchange; weather reports; comments on the day's news. 1.30: Repro-duced mustc. AFTERNOON SESSION

## AFTERNOON SESSION

AFTERNOON SESSION 2.0: "Victory" Brass Band (conductor, F. C. Johnston)--March, "Angle-Oriental"; overture, "Cor-della," 2.10: C. Simons, baritone---Thy Sentinel Am I" (Watson), "My Dreams" (Tosti), "The Ban-dolero" (Lesile Stuart). 2.20: Theima Ready will emtertain with her banjo. 2.30: Marjory Jacoby, so-prano--Selections from musical comedy. 2.40: "Vic-tory" Brass Band--Internezzo, "Penelope's Garden." **3.66**: Martin La Matt, tenor-"'Away in Athlone"

(Hermann Lohr), "I Love You Truly" (C. Jacbos-Bond), "Beautiful Garden of Roses" (J. C. Schmid). 2.55: Clarice Weston will Interpret the spirit of Jazz, 3.3: Marjory Jacoby, soprano—Selections from her repertoire. 3.10: "Victory" Brass Band—"The Little Michus." 3.15: Agnes Orlebar, comedienne— "How Now, Brown Cow." "The Locket on Her Gar-ter," a "Slavey" aumber, "Oo-erl" "That Means Nothing to Me." 3.25: "Victory" Brass Band— Selections from "Tolanthe" (Gibert and Sullivan). 3.30: "The Baby"—Before the Baby Arrives, Sister Anne Purcell. 3.45: Useful Crafts at Home— Stringy Bark Work, Mrs. Henrietta Walker. 4.0: The Latest Fashions, Madame Peliter. 4.15: Reproduced music. 5.45: Close down.

## EVENING SESSION

6.15 to 7.30: Dinner music, supplied by the A.B.C. Studio Orchestra, 7.30: What's on the Air To-night? 7.32: Latest Musical Releases, 7.45: "Age" news service. Stock Exchange reports,

## NIGHT SESSION

- NIGHT SESSION NIGHT SESSION 8.0: National Broadcasting Orchestra-Overture, To an Irish Comedy (Ansell). 8.10: The A.B.C. Gleesingers present-"DEAR OLD IRELAND" "DEAR OLD IRELAND" Chorus, "Dear Old Ireland." Song, and Chorus, "The Hills of Donegal." Song, "The Meeting of the Waters." Chorus, "Let Erin Remember." Song, "The Marp That Once." Chorus, "Let Fin Remember." Song, "The Marp That Once." Chorus, "Robin Adair." Song, "Kitty of Coleraine." Song, "Kitty of Coleraine." Song, "Kitty of Coleraine." Song, "Kitty of Coleraine." Song, "Cockles and Musseis." Chorus, "Saint Patrick was a Gentleman." Song, "In County Clare." Chorus, "Oublin Bay." Chorus, "Oth In the Stilly Night." Song, "In County Clare." Chorus, "On, Erin Dear" (Londondery air). 8.40: Orchestra-Suite of English Folk Songs (Vaughan Williams). 6.50: One Act Play-"THE BISHOP'S GANDLESTICKS."
- - "THE BISHOP'S CANDLESTICKS."

  - (Pounded on an Incident in Victor Hugo's novel "Les Miserables")

By Norman M'Kinnell. Produced by Terence Crisp.

## CHARACTERS:

Produced by Trender Charles.
CHARACTERS:
CHARACTERS:
CHARACTERS:
Charles of Charles Singles, Singl

## 3DB

## The "Herald" Broadcasting Station, Flinders Street. Melbourne (255 metres.) MORNING SESSION.

11.0: Time signal. Military band concert. 11.30: Wurlitzer and modern songs. 12.0: Light orchestral and ballads. 12.25: News. 12.30: Close down.

### AFTERNOON SESSION

2.0: Brass bands and songs. 2.30: Chamber music. 2.55: Atwater Kent radio hour. 3.55: News. 4.0: Close down.

### EARLY EVENING SESSION

5.30: Bobby Bluegum's children's hour, 6.0: Instru-mental and vocal solos. 6.30: What's on at the theatres and movies. 6.32: Radio Club. 6.35: Dance music. 7.0: Orchestra and singer. 7.30: Chamber music. 7.45: Market reports.

### NIGHT SESSION

NIGHT SESSION 8.0: Military bands and vocal quartettes, 8.30: Organs and oratorio. 9.0: Symphony concert. 9.30: Chamber music. 10.0: Brass bands and ballads. 10,30: Slumber music. 10.40: News, 10.45; God Save the King.

## **4QG**

## Queensland Government Radio Service, Brisbane (Wavelength, 385 metres). Schedules for morning and afternoon sessions, see Friday.

AFTERNOON SESSION 3.0: The ring events at the Royal National Show will be described direct from the Exhibition Grounds.

NIGHT SESSION

will be described direct from the Exhibition Grounds.
NIGHT SESSION
8.0: Francis Hawailans-Selected novelies.
Mrs. Phil Stewart (soprano)-"It is Only a Tiny Garden" (Wood).
"Wondering Why" (Clarke).
L. Collins (baritone)-"The Tramp" (Trotere).
"Cloze Props" (Charles).
Ruby Massey (elocutionist)-"Specially Jm."
Hvy Rogers (contraito)-"The Glory of the Sea."
"The Swetest Flower that Blows" (Hawley).
8.30: From the annual dinner of the Axemen's Association. Main speech.
8.50: Francis Hawailans in a specialty Hawailan novelty.
W. W. Crisp (tenot)-"Twilight is Gently Falling" (Raff).
"Bowes of England" (Alyward).
Jeanette Smules (soprano)-"Prince Charming" (Lehmann).
"Love's Echo" (Newton).
9.0: The Brisbane Apollo Club will sing the following:-"Drake's Drum" (Coleridge Taylor).

"Love's Echo" (Newton). 9.0: The Brisbane Apollo Club will sing the fol-lowing:--"Drake's Drum" (Coleridge Taylor). "Trish Folk Song" (Foote). "Vietory" (Schubert). "Eventide" (Schepherd). 9.15: Francis Hawailans in Hawailan noveltes. Ruby Massey (elocutionist)--"The Dunsual Way" (Weatherley). Phyllis Dauth (soprano)--"The Star" (Rogers). "Spring" (Henshell, Allen Hughes (tenor(--"A Dream" (Bartist). "O Night of Stars and Splendour" (Thompson). Francis Hawailans in Hawailan noveltes. Lilian Comior (contralto)--"The Adleu" (Schubert). "The Adleu" (Schubert). Francis Hawailans in selected numbers. 10.0: News suppleed by the metropolitan dailles Weather information. Close down.

5CL Central Broadcasters, Ltd., 114 Hindmarsh Square, Adeialde (Wavelength, 409 metres.)

MORNING SESSION

MORNING SESSION 10.0: G.P.O. chimes 10.1: Francis Xa-vier's Cathedral. Jubilee Pontifical High Mass. 11.30: Recordings. 11.45: An Educational Talk on "Pro-gress of Civil Aviation In U.S.A." "Importance of CaseIn Production." 12.1: Recordings. 12.15: Gene-ral news. 12.52: Stock Exchange and meteorologi-cal information. 1.0: Chimes 1.1: Recordings. 1.59: Meteorological information. 2.0: Close down. AFTERNOON SESSION ACTION SESSION

3.0 to 4.30; General programme. See Friday.

EVENING SESSION 6.30 to 7.30: See Friday. 7.35: Mr. R. C. Bald, Ph.D. (Assistant Lecturer in English at the Adelaide University) will continue his series of talks. 7.45: Dr. Herbert Basedow, M.P. EVENING SESSION

NIGHT SESSION

NIGHT SESSION 8.0: Ohimes 8.1: Programme Review. 8.10: Opera Night. Characters: Leonora (Sopramol-Marcelle Berardi. Manrico (Tenor)-Dino Pelardi. Conte de Luma (Baritlone)-Malcolm Jones. Azueena (Contralto)-Gwen Collett. Perrando IBass)-Fred. Guster. Ines (Mézzo)-Ann Young. Ruiz, Un Messo, Un Zingan-Bert Woolley. And Chorus. Explanatory remarks by Horace Perkins, Mus. Bac., A.M.U.A., and Bessie Francis. Music by the Operatic Orchestra. 10.29: Modern Dance; Recordings. 11.0: Close down.

6WF

Commonwealth Government Broadcasting Station, Perth (Wavelength, 100 metres.)

Perth (Wavelength. 100 metres.) 10.0: Gramophone records. 11.0: Close down. 12.30: Markets. news. etc. 10: Weather. 12: Lunchcon music. 1.4: Talk. 1.19: Music. 2.0: Close down. 3.30: Tunne in. 3.35: Planoforte solos. 4.30: Close down. 6.46: Tune in. 6.48: Bedtime stories by Oncie Dulfy. 7.5: Light music. 7.30: Commercial and general information. 7.45: Talk. 8.0: Time signal. 8.1: Weather. 8.3: Variety programme. 8.30: Late news items. Late weather. 9.5: Programme continued. 10.30: Close down. 104.5 Metre Tran-mission: Simultaneous broadcast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

## 7ZL

## Tasmanian Broadcasters Pty., 95 Elizabeth St., Hobart (Wavelength, 516 metres.)

11.30 a.m.: Selections. 11.34: Midlands weather forecast. 11.35: Record recital. 11.38: Eager will speak on "Household Hints." 11 Adeline 11.50: Selections. 11.55: Tasmanian stations' 9 a.m. weather report. 12.1: Shipping information; ships within wireless range; mail notices; housewives' guide; commercial news. 12.8: Selections. 12.29: Announce-ments. 12.33: Selections. 12.55: News service; British official wireless news; railway auction produce sales held at railway. 1.10: Selections. 1.30: Close sales held at railway. 1.10: Selections. 1.30: Close down. 3.0: Clock chimes the hour. 3.1: Selections. 3.4: Weather information, 3.5: Belections. 3.4: Miss Joyce Walker on "Homecraft." 4.0: Selections. 4.15: An Educational Talk on "Meat: Production in U.S.A." 4.30: Close down. 6.15: Children's Hour, with "Uncle David" and "The Storey Lady." 6.45: with "Uncle David" and "The Storey Lady." 6.45: Elicen Carter will play the plano for the wee folk. 7.0: Answers to Letters and Birthday Greetings 7.15: News session. 7.30: Under the auspices of the Agricultural Department, T. Philp, Chief Veterinary Officer, will speak on "Mammitis in Dairy Cattle." 7.45: w. E. Puiller will speak on "Literary Lapses and Library Lists." 8.1 p.m.: Record rettal. 8.15: Dance numbers. 8.45: W. E. Geord rettal. 8.15: Dance numbers. 8.45: W. Star, Wohlter "My Angel." 8.46: Dance near Star Star Wendul Hall, "My Dream Sweet-"Just Like a Melody." 9.16: Dance numbers. 9.27: Lew White, "Roses of Yesterday." 9.30: News ses-sion. 9.40: Dance numbers. 9.22: Slumber music 10.0: Q.P.O. clock chimes the hour. Close down.

## St. John's Church, Balmain

REV. ARTHUR GEORGE RIX, of St. John's Church, Balmain, began church Join's Church, Balman, began church life as a choir boy. His thoughts turned first to a musical career; but he served his apprenticeship in church and social work, particularly in teaching in his spare lime in the Chinese Mission in Sydney. He served as a lay reader in the Parish of Brewar-rina, which extends into the heart of Australia and across the Queensland border, and lia and across the Queensiand border, and which has an area as large as England. After ordination, Mr. Rix worked in the parishes of Grenfell, Adaminaby (which included Kosciusko, and Kiandra), also the parishes of Moruya, Yass, South Goulburn, and Tu-mut, and he was also on the staff of Goul-burn Cathedral. He came to Sydney and was assistant to Canon Lea at St. Mark's. Darling Point, and was Acting-Rector of that parish when Canon Lea went to Eng-land. It was in this parish that he was associated with Canon Lea in the broad-casting of the first church services broad-cast in the Southarn Hennishess through cast in the Southern Hemisphere, through 2FC; he intoned the service, while Canon Lea was the preacher. Afterwards for a year Mr. Rix was acting-rector of St. Tho-mas', North Sydney, the Mother Church of the North Shore. He was appointed Rector of the old parish of St. John's, Birchgrove, Balmain, eighteen months ago, and in this large industrial parish finds great scope in work amongst men and boys and the young people of that suburb.

The morning service at St. John's, Bal-main, will be broadcast through 2FC on August 4

## Goodie Reeve in Children's Session

**PEOPLE** are hearing something quite new in the Children's Session now that Goodie Reeve is assisting on 2FC. She sings a song then talks to the children, explaining it. while she continues to strum away some ap-propriate tune on the piano. "It seems to take away some of the dullness of the speak-ing volce," Goodle Reeve explains, "to have an accompaniment in the background; but it is not too each to keap the picture dere action is not too easy to keep the piano down quiet enough to be sure of the voice being heard." It is impossible for anyone to accompany Goodie Reeve as most of her little talks and stories are impromptu, and no one else would know when to start or when to stop. Listen in next Friday night about 6.15 p.m.

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BRYAN	NIS	Lta.,	Ele	ctrical and	Radio Dealers,

## Page Forty-Six

WIRELESS WEEKLY

Friday, 9th August, 1929

**2UW** 

CUW
 Radie Broadcasting, Ltd., Paling's Building, Ash St., Sydney (Wavelength, 267 metres).
 MIDDAY SESSION.
 12.30: Music and request numbers. 1.0: Clock and chimes. 1.15: Talk on "Home-craft." by Pandora. 1.40: Music 2.30: Close down. 4.30: Music and request numbers.
 EVENING SESSION.
 5.30: Children's Hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Music and re-quest items. 8.0: Band recital. 9.0: Com-ments on foreign affairs, by Mr. J. M. Pren-tice. 9.10: Request numbers. 10.30: Close down.

2KY

2KY2 Trades and Labor Council, Goulburn St., sydner (Newelength: 200 metres) MORING CESSION 10 a.m.: Tune in to the ticking of the folds of the synthesis of the system to the system in the trade of the system to the system in the system in the system to the system in the system in the system of the system in the system in the system of the system in the system in the system to the system in the system in the system to the system in the system in the system to the system in the system in the system to the system in the system in the system to the system in the system in the system to the system in the system in the system to the system in the system in the system to the system in the system in the system of the system in the system in the system of the system in the system in the system to the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system of the system in the system in the system in the system of the system in the system in the system in the system of the system in the system in the system in the system of the system in the syste

2UE Broadcasting Station 20E. Storev Stret, Maroubra Junetion, Sydney (Wavelength 293 metres.) 7.15: Breakfast-time Orchestral Hour, 8.30:

Weather forecast. Close down. **EVENING SESSION**. 7.15: Orchestral dinner music. 7.58: Pro-gramme announcements. 8.0: Overture, "Bo-hemian Girl." 8.10: Vocal and instrumental items. 10.15: Close down.

THE RADIOPTICAN

**Postcard Projecting Lantern** A Great Home Entertainer-No ex-

pense for slides. Just slip in the back a picture postcard, colored or plain, a snapshot, a cutting from a comic paper.

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395 GEORGE ST. (opp. Dymock's), SYDNEY.

screen

down.

# Local Programmes, Wednesday, August 14

## 2FC

- Australian Broadcasting Company, Ltd., Market St., Sydney (Wavelength, 442 metres). EARLY MORNING SESSION-7 to 8.15. 7.0: Big Ben' and Meteorological infor-mation. 7.3: This morning's news, from the
- "Guardian.

  - 7.8: Larly rising music. 7.45: Mails and shipping. 7.48: What's on to-day. 7.50: Children's birthday calls. 8.0: Music from the Studio. 8.15: Close
- MORNING SESSION-10.30 to 12.30 p.m.
- .0.30: Announcements. 10.32: General sporting talk, by Oscar Lind. 10.45:
- 10.45: From the State Theatre—At the Grand Organ, by Edgar Stone. 11.0: Household Helps—Talk on cooking. by Miss Ruth Furst.

- by Miss Ruth Purst.
   11.10: Cables. A.P.A. and "Sun"-"Herald" news service.
   11.15: The Studio Orchestra.
   12.0: "Big Ben"; Stock Exchange and match cabetations
- 11etal quotations. 2.2.2: A "Dicken's" story. 12.20: Midday market and weather re-ports, supplied by the N.S.W. State Market-Ine Board 12.30: Close.
- THE LUNCH HOUR-1 p.m. to 2.30 p.m. 1.0: Lunch to music with the A.B.C. C
- chestra
- a. Stock Exchange, second call. A glance at the afternoon papers. Popular education. Announcements. 2.6.
- 2

- ern

- 2.7? Popular education.
  2.7? Announcements.
  THE RADIO MATINEE—2.30 to 4.30.
  2.30: The A.B.C. Orchestra.
  2.45: Aida Bulmas, soprano.
  2.59: The A.B.C. Orchestra.
  3.14: H W Varna and partner, in a mod-rn radio sketch.
  3.24: Wilfred Arlom, pianist.
  3.34: Aida Bulmas, soprano.
  3.41: The A.B.C. Orchestra.
  3.66: David M'Kissock, 'cellist.
  4.3: H. W. Varna and partner, in a mod-rn radio sketch.
  4.13: Wilfred Arlom, pianist.
  4.14: H. W. Varna and partner, in a mod-rn radio sketch.
  4.13: Wilfred Arlom, pianist.
  4.13: Wilfred Arlom, pianist.
  4.21: The A.B.C. Orchestra.
  4.28: Stock Exchange, third call 4.30: Close. ern

- 4.30: Close. NOTE-Race results from Ascot will be transmitted as received.
- EARLY EVENING-5.45 to 7.55.

5.45: Kiddles "Goodnight" stories—An hour of entertainment for the children; the Fermyard Five, associated with other artists.

- 1sts
  6.45: The Studio Dinner Orchestra.
  7.30: A.B.C. Sporting Service.
  7.37: Stock Exchange, final call.
  7.40: Late news service.
  7.45: From the State Theatre-Mr. Price
  Durnlavy at the Grand Organ.
  EVENING PRESENTATION-8 to 11.30.
  8.0. Will Price's Hour, from the State

- 8.0. Will Prior's Hour, from the State Theatre—The State Theatre Orchestra, con-ducted by Will Prior; Price Dunlavy at the Grand Organ. 9.0 "Bie Ben." From the Studio—Sonia

- 9.0 "Bie Ben, 1.000 Michell, nianist. 9.13: Muriel O'Malley, contralto. 9.16: Florent Hoogstoel, violinist. 9.27: John Boult and Reg MitchelL
- otches.
- 6.37: Lance Jeffrey, tenor. 6.37: Lance Jeffrey, tenor. 6.34: Music of Bygone Days—A novel pro-gramme arranged by Madame Evelyn Grieg. In Association with Keith Grant and Rene
- Rich 10.0 Romano's Cafe Dance Orchestra. In hy Bennie Abrahams. From the Studio-Weather report Conducted 10,151 J
- and amouncements. 10 20: Roman's Cafe Dance Orchestra. condivided by Bennie Abrahams. 11.30: Close. National Anthem.

## 2BL

- Australiar Broadcastine Company, Ltd., Market St., Sydney (Wavelength, 353 metres).
- OPENING SESSION-8.15 to 11 a.m. 8.15: Music. 8.45: Meteorological data.

- An old folks' programme. British Official wireless news 8.50: 9 30

- 9.35. SPUEN Official wireless news. 9.35. New music. 10.5: News from the "Guardian." 10.10: The Ladies' Club Hour-The Aus-tralian Women's A.B.C. Association, conduc-ted by Miss Gwen Varley. 10.30: The Studio Orchestra-Mr. Rodda 11.0: Close.
- MIDDAY SESSION-12 noon to 2.30 p.m.
- 12.0: Announcements. 12.2: The A.B.C. Orchestra. 1.0: Afternoon news from the "Evening News."

- ews. 1.5: Studio music. 1.15: Women's "Interest Talk." 1.30: The Traders' "Selling the Set" music. 2.0: At the console of the Wurlitzer organ at the Capitol Theatre, J. Knight Barnett 2.12: Studio music.
- AFTERNOON ENTERTAINMENT-2.30 to
  - 5.45 p.m.
- 5.45 p.m. 2.30: Business efficiency talks. 2.45: "The Magic Carpet." a story of tra-el and adventure. 3.0: The latest dance numbers. 3.15: Hairy Croot, basso. 3.22: Hilda Grace, novelty planist. 3.30: Dance music. 3.42: Rozina Madell, soprano. 3.58: Popular dance numbers.

- ă
- Harry Croot, basso. Harry Croot, basso. Hilda Grace, novelty pianist. Rozina Madell, soprano. 58 10
- 17
- 4.32
- Dance numbers. "The Trade Hour"-Demonstration 45
- music 5.45: Close

8.0: N.S.W 8

8

9 9.30

vice

sketches.

## THE DINNER HOUR.

- 6.15: The Studio Dinner Orchestra. 6.45: The A.B.C. Younger Set Club-Boys' Radio Club-Mr. Norman Lyons.

  - 7.5:

  - Studio music. Late market reports. The Studio Dinner Orchestra. What's on the Air To-night? 7.30

# THE NIGHT PROGRAMME-8 p.m. to 10.30 p.m. Our Hour of Comic Opera-The Tramways Band. Gwladvs Evans, soprano. The Wireless Singers. The N.S.W. Tramways Band. George Brown, barltone. The Wireless Singers. Official urgether, foregast

22. Official weather forecast. 33. The N.S.W. Tramways Band. 18. Sonia Michell, planist. 30. John Boult and Reg Mitchell in

setches. 9.40: Muriel O'Malley, contralto. 9.47: Florent Hoogstoel, violinist. 9.54: Lance Jeffrey, tenor. 10 1: Trifles from the Talkles. 10.25: Late weather report, and news ser-

2GB

Theosophical Broadcasting Station, 29 Bligh St., Sydney (Wavelength 316 metres).

Sydney (Wavelength 316 mettes). 10.0: Music. 10.10: Happiness talk, by A. E. Bennett. 10.20: Music. 10.30: Women's session, by Miss Helen J. Beegling; house-keeping hints and shopping guide. 11.30: Music. 11.45: Close down. 2.0: Music. 25: Women's Radio Service. by Mrs. Dorothy Jordan. 2.50: Movie Know-all. 3.0: Labor-saving demonstration. 4.0: Close down. 5.30: Children's session. by Uncle George: Movie Children's session. 7.0: Music. 7.45: Feature story. 8.0: Miss Heather Kinnaird, contralio.

Club session. 7.0: Music. 7.45: Feature story. 8.0: Miss Heather Kinnaird, contraito. 8.7: Violin solos. 8.15: Mr. Clement Q. Wil-liams, haritone. 8.22: Symphony Orchestra. 8.30: Humorous interlude, by Mr. Jack Win and Mr. Heath Burdock. 8.35: Miss Gwladys Edwards. soprano. 8.45: Address. 9.0: Weather report. 9.3: Violin solos. 9.13: Miss Heather Kinnaird. contraito. 9.23: Symphony Orchestra. 9.33: Humorous inter-lude. by Mr. Jack Win and Mr. Heath Bur-dock. 9.38: Mr. Clement Q. Williams, bari-tone. 9.48: Instrumental Trio. 9.53: Miss Gwladys Edwards, soprano. 10.0: Instru-mental music. 10.30: Close down.

10.30: Close. National Anthem.

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## Interstate Programmes, Wed., Aug. 14

## 3LO

## Australian Broadcasting Co., 120A Russell St., Melbourne (Wavelength, 371 metres.) EARLY MORNING SESSION

7.0 to 8.15: See Friday

SPORTING

10.30: Current events in the Racing World, by Eric Welch. 10.40: Reproduced music. 10.50: "The Pootbali Field," by Mel. Morris.

MORNING MUSICALE

11.0: A.B.C. Studio Orchestra, assisted by Clarice Kingsley at the plano. NEWS SESSION

12.15: News service. Rates on 'Change. Market reports. 12.30: Close down. MIDDAY SESSION

1.0 to 2.0: Luncheon music provided by the National Broadcastip Orchestra, under direction Wm. G. James (conductor, Percy Code),

Broadcastib Orchestra, Under direction wm. G. James (conductor, Percy Code),
 SCHOOL SESSION
 2.0: Miss Alice Smith—"Spoken English." 2.15:
 Reproduced music. 2.25: "Rambles in the Bush." 2.40: Reproduced music. 2.45: Dr. Loftus Hills. D.Sc.—"What is Happening in the World."
 THE RADIO MATINEE
 3.0: The National Broadcasting Orchestra (under the direction Wm. G. James: conductor, Percy Code)—"Ballet of the Flowers" (Hadley), 310: Mary Liley, contraito—"Sjetsi" (Besley), "Sylem" (Landon Ronaid), "Love's Rhapsody" (D'Hardeiot), 3.20: A one-act play, "The Vamp"—Characters: The Vanp, the Wife the Husband. 3.35: Joan Smith, cello. 3.45: Uctor Baxter, tenor—"Beauty's Eyes" (Tosti), "The Star" (Rogers), "Chanson de Plorian" (Godard), 3.55: Orchestra-Bxcerpts from Coppelia Ballet, "Serenade" (Rachmaninoff), 4.5: "The Courters", 4.26: Orchestra. "Thre Dances from Henry VIII." (German), 4.30: Close down

Mann. 4.30: Close down. CHILDREN'S CORNER 5.45: Little Miss Kookaburra knows all about some dear little kittens and a little mouse named "Miss Millicent," and she is going to tell it to the tiny tots. The Mouth Organ Man will blow some pretty airs. 6.15: A talk of interest to the older boys and girls. 6.30: Market reports.

giris. 6.30: Market reports.
 EVENING SESSION
 EVENING SESSION
 The ordinary listener—Mr. Pritz Hart. 7.15: Romance and History—(1) Lord Clive and India, Captain Donald MacLean. 7.30: Techni-cal talks for mechanics—(1) Modern Steels. 7.46: How to attain and retain good health—Dental Ad-vice for the public, Dr. J. Polack, D.D.Sc.
 National Broadcasting Orchestra, under direc-tion of Wm. G. James (conductor, Percy Code)— Overture, "Merry Wiges of Windsor" (Nicolai). March, "Cornavlesque" (Frimi).
 8.10: Ernest Wilson, bass-boartoner, "Long Ago in Alcala" (Messager).
 "Serenath" with Violin (Toselli); obligato by Guildford Bishop.
 "One Carpet" (Sanderson).

- 8.10: Ernest Wilson, bass-baritone-"Long Ago in Alcala" (Messager). "Berenata" with Violin (Toselli); obligato by Guildford Bishop.
  "The Carpet" (Sanderson).
  2.20: Joseph Barrile, fute-"Mazurka" (Popp).
  2.32: Ernest Wilson, bass-baritone-"Walata Pol" (Alfred Hill).
  OUT DANCE NIGHT
  3.33: Ken Cotton's Dance Band--"Stay at Home Girl" (O'Hagen).
  "Deep Night" (Henderson).
  "Der Visht" (Henderson).
  "Por Ever More" (Burnett).
  2.39: Syd Exton, tenor4.21: Ken Cotton's Dance Band--"Old Man Sunshine" (Dixon).
  "Wheart Stood Still" (Rodgers).
  "Where the Shy Little Violets Grow" (Kahn).
  8.16: Bessle Banks, soprano-"Giota Rag Dol" (Ager).
  "Bason Wood, barttone--"Cloze Props" (Charles).
  "Bene Cotton's Dance Band--"Thinking of You"" (Ruby).
  "Ta Carb Give You Anything But Love" (Fields).
  1.5: Alan Adcock, entertainer--Five Minutes' Fun.
  2.0: Ken Cotton's Dance Band--"Swethearts on Parade" (Lombardo).
  "Breace Cotton's Dance Band--"You Kinge Spane-"An Moon of My Delight" (Lower).
  2.23: Syd Exton, tenor-"Ah Moon of My Delight" (Lower).
  2.34: Ken Cotton's Dance Band--"The Winutes' Fun.
  2.44: Ken Cotton's Dance Band--"The Minutes' Fun.
  2.52: Syd Exton, tenor-"Ah. Moon of My Delight" (Lower).
  2.53: En Sonis Dance Band--"The Winute's Fun.
  2.54: Ken Cotton's Dance Band--"The Wonker the Funinos." (Fisher).
  2.54: Ken Cotton's Dance Band--"The Outware the Kenhow" (Rose).
  2.55: Alan Adocok, entertainer--Fire Minutes' Fun.
  2.66: Ken Cotton's Dance Band--"The Wonker the Kenhow" (Rose).
  2.74: Moon of My Delight" (Lowman).
  2.75: Ken Cotton's Dance Band--"My Angeline" (Wayne).
  "Carolina Moon" (Bourne).
  "Carolina Moon" (Bourne).
  "Carolina Shore Song" (James).
  3.64: Ken Cotton's Dance Band--"My Angeline" (Wayne).</l

- 10.18: Ken Cotton's Dance Band-"Pickin' Cotton" (Henderson). "One the Crest of a Ware" (Henderson). "Blue Night" (Rollins) 10.27: E Mason Wood, barttone-"A Dinder Courtship." 10.30: "The Rex" Dance Band. 11.30: God Save the King.

## 3AR

## Australian Brondeasting Co., 120A Russell St., Melbourne (Wavelength 484 metres.) MORNING SESSION

8.15 to 11.0: See Friday.

### MIDDAY SESSION.

12.0 to 12.15: Inexpensive and nutritious dishes for winter meals—Miss Avis MacLachian. 12.15: Mid-day news session, from the studio. 12.30 to 1.0: Na-tional Broadcasting Orchestra; under direction Wm. G. James, conductor, Percy Code. 1.0: Time chimes from G.P.O. 1.1: Stock Exchange: weather reports; comments on the day's news. 1.30: Relation of character to service. J. Virgoe, C.B.E.

### AFTERNOON SESSION

character to service, J. J. Virgoe, C.B.E. AFTERNOON SESSION 2.0: Estreillta Trio-Light classical. 2.15: Dawn Harding, mezzo-"Come Away." Old English (John Dowiand), "Downe-a-Downe." Old English (John Dowiand), "Downe-a-Downe." Old English (John Dowiand), "Downe-a-Downe." Old English (Julking-ton). 2.22: Cecilia Kilduff, violin. 2.27: E. Mason Wood, bartione--"Olf to Philadelphia." "Nightal.l at Sea" (Montague Phillips). "Onaway Awake" (Co-wen), "Wimmen" (Kennedy Russell). 2.37: Margod Sheridan, piano--"The Indian Maid" (Coleridge Tay-lor). 2.47: Dawn Harding--Request (Bantock). 2.34: Cecilia Kilduff, violin. 3.2: Robert Le Ben, Austra-lian speciality entertainer--"Stk Brown Boxner Hats' (John O'Brien), "The Old Bush School" (John O'Brien), "Thoub on the Selection" (Henry Law-son). 3.10: Wm, Perryman, tenor--"Lolita" (A. Buzzi Pucel), "Thank God for a Garden" (Terese del Riego), "Garoil" (Frerie). 3.20: Estrellita Tio, Margod Sheridan (Piano), and Cecilia Kilduff vio-lian Special," Miss R. Gladen Life in Other Countries-Casada," Miss R. Glased dawn. EVENING SESSION 6.15 to 7.30: Dinater music, supplied by the Studio Orchestra. 7.30: What's on the Air To-night? 7.32: Latest musica release. 7.45: Market reports. NIGHT SESSION 8.0 to 10.15: Concret by the students of the Doi-

NIGHT SESION 8.0 to 10.15: Concert by the students of the Doi-versity Conservatorium. 10.15: The Smart Set-Ffiteen minutes' frivolity. 10.30: God Save the King.

### 3DB

## The "Herald" Broadcasting Station, Flinders, Street, Melbourne (255 metres.)

Melbourne (335 metres.) MORNING SESSION. 11.0: Time signal. Brass bands and songs. 11.30: The world's fashions and foibles, by "La Vogue.' 11.35: Light classical music. 12.0: Modern tunes and songs. 12.25: News. 12.30: Close down. AFTERNOON SESSION 2.0: Trios and duets, instrumental and vocal. 2.30: Mrs. Dorothy Silk, "Homerafts." 2.45: Musi-cal comedy memories. 2.55: Atwater Kent radio hour. 3.55: News. 4.0: Close down. EARLY EVENING SESSION 5.30: Children's hour. 6.0: Varlety. 6.30: What's on at the theatres and movies. 6.32: Radio Club. 5.30: Chamber music. 7.0: From many countries. 7.30: Mr. Harman, of Burns Philp, and Co...-"Travel Talk." 7.45: Market reports. NIGHT SESSION

NIGHT SESSION 8.0: A trip to New Zealand, 8.30: Famous over-tures and singers. 9.0: Chamber music. 9.30: Idylls of other countries. 10.0: Slumber music. 10.40: News. 10.45: God Save the King.

## 4QG

Queensiand Government Radio Service, Brisbane (Wavelength, 385 metres). Schedule for morning and afternoon sessions, see

Friday. 10.0: The unveiling of the Burns statue will be described and the speeches broadcast.

MIDAY SESSION 12.0: The official opening of the Royal National Show, which will be performed by his Excellency the Governor, Sir John Goodwin, will be relayed from the Exhibition Grounds. 2.0: Close down.

stom the Exhibition Grounds. 2.0: Close down. AFTERNOON SESSION 3.0: A description of the ring events will be re-layed from the Exhibition Grounds. Musical items from Hotel Cariton between events.

NIGHT SESSION 8.0: A Scottish programme arranged by Mr. W. Donald.

- a Southan programme introduct of introduct of and and concentration intervention.
  Studier's Songs" (Lauder).
  "The Star of Rabbie Burna."
  Duncan (bass)"Oor Ain Gien."
  Wiss H. Oswald and Miss G. HendersonVocal duet, "Lang Syne."
  I. Morrison (Scotch reading)"Preparing for Visitors" (J. M. Barrie).
  Miss H. Chenderson (contralto)"Fisher Lad."

- W. Donald. jun. (tenor) --"Dear Were the Days." Structure of the Days." Fostrod, "Thistles and Heather" (srr. Biack). W. Donald--Scotth comle, "Sailing Up the Clyde." Scotth Pour--Quartette, "The Banks o' Doon." . Morrison--Quarteries, "The Banks o' Doon." J. Morrison-Scotch reading, "Edinburgh Castle." Miss H. Oswald (soprano)-"A Roschud in Her Early Walk." J. Cruickshank-Humorous song, "The Roden Tree." Studio orchestra-Highland Patrol, "Wee M'Gregor" (Amers). Miss G, Henderson (contrailo) and W. Donald. "The Crockit Bawbee." D. Duncan (bass)-"Hurthan for the Highlands." W. Donald-Scotch comle. "Ye Can Come and See the Baby." Study Fisher." Scotch comle. "Yen Can Come and See the Baby." "The Aud Fisher." Scotch Four"-Scotch Four"-Scotch reading, "Johnnie Gunn" (Morrison) W. Donald Jung 'Johnnie Gunn" (Morrison) Jun J. Morrison-Sectch reading, "Johnnie Gunn" (Morrison). W. Donald, Jun. (tenor)-"Scottish Emigrant." W. Donald, Jun. texas, "South Emigrant,"
  Orchestra-One-step medley, "Savoy Scottish" (arr. Somers).
  W. Donald, Jun., and J. Cruickshank-Vocal duet, "Wee Cooper o' Pife."
  W. Donald, "Brither Scots," The Company-Scotch come, "Brither Scots,"
  The Company-The Company-Scotch come, "Dance to Your Shadow."
  Orulckshank-Humorous song, "The Beadler o' the Kirk."
  Studio Orchestra-Partol, "Scottish Patrol" (Williams).
  0.30: "The Hoot Owis."
  10: News supplied by the metropolitan dailies. Weather information. 11.0

## 5CL

Central Broadcasters, Ltd., 114 Hindmarsh Square. Adelaide (Warelength, 409 metres.) MORNING SESSION 3.0: Genéral programme, see Friday. EVENING BESSION 6.0 to 7.30: See Friday. 7.35: An addrees to Boy Scouts. 7.46: SCL Bluebird Girls' Club. NIGHT SESSION 6.0: Chimes.

 log Scouts.
 7.45:300

 NIGHT SESSION

 8.0: Another Fireside Evening- 

 A Twenty-first Birthday Party.
 Characters:- 

 Guest (21 years old)
 Bessie Francis

 Friends
 The Madrigal Singers

 (Under the direction of Borace Perkina.)
 Brother Torn

 Brother Torn
 Jack Burgers

 County Jack
 Jack Burgers

 County Filends of Jack.
 Alaris Mouth Jean Finlay

 Friends of Jack.
 Angelo Demodena

 9.1: Melcorological information, including Sema

9.1: Meleorological information, phore tides.
9.2: Overseas grain report.
9.3: General news.
9.10: Fireside Evening continued.
9.10: Sonce treorollags.
11.0: Close down.

6WF

Commonwealth Government Broadcasting Station. Perth (Wavelenth, 100 metres.) 10.0: Gramophone records. 11.0: Close down. 12.30: Market, mexs, etc. 1.0: Time. Weather, 1.3: Pana-trope Hour. 2.0: Close down. 3.30: Musical pro-gramme. 4.30: Close down. 6.36: Bedtime storles by Uncle Duffy. 7.5: Light music. 7.30: Commer-cial and general information. 7.45: Talk by Lieut.-Colonel le Sout, Director, Zoological Gardens, South Perth. 8.0: Time signal. 8.1: Weather. 8.3: Con-cert. 8.20: Talk. 8.50: Late news. Ships within range Late weather. 9.5: Programme continued. 10.30: Close down. 104.5 Metre Transmission: Simultaneous brondeast on 104.5 Metres of programme given on 1250 metres, commencing at 6.45 p.m.

## 7ZL

PZCL Tangener Bradesaters Fir. 8: Bitmanes Ba. Marking Bradesaters Fir. 8: Bitmanes Ba. Marking Bradesaters Bitmanes Ba. Marking Balances Balances Balances Balances Marking Balances Balances Marking Balances Balances Marking Balances Marking Balances Marking Balances Marking Balances Balances Marking Bala

## WIRELESS WEEKLY

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# Local Programmes, Thursday, August 15

WIRELESS WEEKLY

Friday, 9th August, 1929

2UW

Radio Broadcasting, Ltd., Paling's Building, Ash St. Sydney (Wavelength, 267 metres). MIDDAY SESSION.

12.30: Music and request numbers, 1.0: Clock and chimes. 1.15: Talk on "Home-craft," by Pandora. 1.40: Music. 2.30: Close down. 4.30: Music and request numbers.

EVENING SESSION.

5.30: Children's Hour, conducted by Uncle Jack. 6.30: Close down. 7.0: Music and re-quest items. 7.45: Garden talk, by Mr. S. H. Hunt. 8.0: Famous scenes from opera. 9.0: Comments on foreign affairs, by Mr. J. M. Prentice. 9.10: Request numbers. 10.30: Close down.

2KY

Trades and Labor Council, Goulburn St., Sydney (Wavelength, 280 metres.) MORNING SESSION.

MORNING SESSION. 10.0 a.m.: Tune in to the ticking of the clock. 10.3: Popular fox-trots. 10.16: Ha-walian steel guitar selections. 10.30: Request numbers. 10.50: Vocal items. 11.0: A few laughs. 11.15: Calls and announcements. 11.20: Musical interlude. 11.30: Request numbers. 11.40: Music and vocal numbers. 11.55: Where to go to-night. 12 noon: Clos-ing announcements. CHUI DEVEN SESSION

CHILDREN'S SESSION.

6 p.m.: Birthday calls, request numbers. and kiddies' entertainment. Aunt Jemima and Uncle Bert.

EVENING SESSION.

EVENING SESSION. 7 p.m.: Musical interlude. 7.5: Birthday calls. 7.15: Request numbers. 7.30: Ha-walian steel guitar selections. 7.45: Humor-ous interlude. 8.0: Orchestral selections. 8.10: Tenor solos, Mr. G. Mason. 8.17: Bert Warne presents a humorous interlude. 8.30: Frederick Holt presents a recital of Austra-lian composers and compositions, with musi-cal and vocal illustrations. 8.45: Selection of humorous records. 9.10: Request numbers. 9.40: Continue record recital. 10.0: Closing announcements.

2UE

Broadcasting Station 2UE, Storey Street, Maroubra Junction, Sydney (Wavelength 293 metres.)

EARLY MORNING SESSION.

7.15: Breakfast-time Hour orchestral selections. 8.30: Weather forecast. Close

MIDDAY SESSION.

AFTERNOON SESSION. Orchestral and vocal items. 1.45: solos. 2.0: Vocal and orchestral 2.30: Announcements. Close down.

EVENING SESSION.

gramme announcements. 8.0: Overture, "La Traviata." 8.10: Orchestral and vocal music

Lord Mayor's 3LO Hospital Radio Fund

SIR BENJAMIN FULLER, one of the di-

Company, has announced the scheme for

the Hospital Radio Fund, to be known as The Lord Mayor 3LO Hospital Radio

Fund," which has been organised to mark the advent of the new era of broadcasting in

victoria. The object of the fund is to provide and maintain radio sets for all hospitals throughout Victoria. The secretary of the Lord Mayor's Fund (Mr. E. Glan-

wile Hicks) will act as secretary, and the auditors are Messrs. David Fell and Co. A special committee will be formed to supervise the collections at the 3LO weekly community

singing, which will be devoted entirely to the fund, to which the profits from the sale of community singing books will also be ap-

rectors of the Australian Broadcasting

7.15: Orchestral dinner music. 7.58: Pro-amme announcements. 8.0: Overture, "La

Orchestral and vocal selections

Close down.

announcements.

11.30: Orchestr 12.30: Close down.

10.15: Close down.

down.

1.0. Organ

music.

plied.

## 2FC

Australian Broadcasting Company, Ltd., Market Sf., Sydney (Wavelength, 442 metres).

EARLY MORNING SESSION-7 to 8.15. 7.0: "Big Ben" and Meteorological infor-

mation. 7.3: This morning's news, from the "Guardian."

Page Fifty

- Guardian." 7.8: Early rising music. 7.45: Mails and shipping. 7.46: What's on to-day. 7.50: Children's birthday cails. 8.0: Music from the Studio. 8.15: Close.

## MORNING SESSION-10.30 to 12.30 p.m.

10.30: Announcements. 10.32: A.B.C. Racing Observer. 10.45: From the State Theatre-Recital at the Grand Organ, by Edgar Stone. 11.0: Household Helps-Talk on domestic

- notes 11.10: Cables, A.P.A. and "Sun"-"Herald"

## THE LUNCH HOUR-1 p.m. to 2.30 p.m.

- 1.0: Lunch to music with the A.B.C. Or chestra
- chestra.
  2.0: Stock Exchange, second call.
  2.2' A glance at the afternoon papers.
  2.7: To-day's acceptances, by the A.B.C
  Racing Observer
  2.17: Popular education.

## THE RADIO MATINEE-2.30 to 4.30.

- THE RADIO MATINEE-2.30 to 4 2.30: The A.B.C. Orchestra. 2.45: Nora Hill, soprano. 2.52: Marcus Burkitt, blind planist 3.20: Maurice Ballance. basso. 3.28: Dorothy Nall, monologues 3.38: The A.B.C. Orchestra. 3.38: The A.B.C. Orchestra. 3.53: Nora Hill, soprano. 4.0: Maurice Ballance. basso. 4.10: Maurice Ballance. basso. 4.17: Dorothy Nall, monologues. 4.28: Stock Exchange. third call

- 28: Stock Exchange, third call
- 4.30: Close.

## EARLY EVENING-5.45 to 7.55.

5.45: Kiddles' "Goodnight" stories, told by e "Hello Man," assisted by Uncle Ted and the Sandy. 6.45: 7.30:

The Studio Dinner Orchestra. A.B.C. Sporting Service. Stock Exchange, final call.

- 7.37: Stock Exchange, hnal call. 7.40: Late news service. 7.45: From the State Theatre-Mr. Price Dunlavy at the Grand Organ.

- EVENING PRESENTATION-8 to 11.30. 8.0: British Music Society's String Qua
- tette. 8.15: 8.22:
- 8.30
- Etta Field. soprano. Mildred Harris, harpist. The Royal Four Quartet. The Turret Players. in 40 in a modern
- radio play 9.10: Of

- allo piay. 9.10: Official weather forecast. 9.11: Gabriel Joffe, pianist. 9.23: Frazer Coss, baritone. 9.30: British Music Society's String Quar tette. 9.45: Margaret Grimshaw, popular vocal
- ist. 9.52: Billy O'Hanlon and Zara Clinton, in
- sketches. 10.2: From the Hotel Australia—Cec. Mor-rison's Dance Band. 10.15: From the Studio—Late weather re
- Nortison's Dance Band. Norrison's Dance Band. 11.30: Close. National Anthem.

## 2BL

- Australian Broadcasting Company, Ltd., Markel Sydney (Wavelength, 353 metres). OPENING SESSION-8.15 to 11 a.m.
- 8.15: Music for every mood. 8.45: Meteorological data. 8.50: A melange of mirth and melody 9.30: British official wireless news.
- 9.35: New music.

- 10.5; News from the "Guardian."
  10.10: The Ladies' Club Hour—The Australian Women's A.B.C. Association, conducted by Miss Gwen Varley.
  10.30: The Studio Orchestra—Mr. Rodda 11.0: Close.

## MIDDAY SESSION-12 noon to 2.30 p.m.

- 12.0: Announcements. 12.2: The A.B.C. Orchestra.
- 1.0: Afternoon news from the "Evening News."
- ews." 1.5: Studio music. 1.5: Women's "Interest Talk." 130: The Traders' "Selling the Set" music. 130: The console of the Wurlitzer organization of the sense 2.0: At the console of the Wurlitzer orga at the Capitol Theatre, J. Knight Barnett. 2.12: Studio music.

## AFTERNOON ENTERTAINMENT-2.30 to 5.45 p.m.

- 2.30: Business Efficiency talks. 2.45: "The Magic Carpet." a story of travel

- 2.45: "The Magic Carpet," a story of travel and adventure.
  3.0: Romano's Cafe Dance Orchestra, con-ducted by Bennie Abrahams.
  3.15: From the Studio-Len Maurice.
  popular vocallst.
  3.20: Turner Ross, entertainer.
  3.30: Romano's Cafe Dance Orchestra conducted by Bennie Abrahams.
  3.42: From the Studio-Eva Newbury. con-traito. tralto
- 3.49: Turner Ross, entertainer. 3.56: Popular dance items. 4.0: Romano's Cafe Dance Orchestra, con-ducted by Bennie Abrahams. 4.15: From the Studio-Len Maurice Dopular vocalist.

bopular vocalist.
4.22: Turner Ross. entertainer.
4.30: Eva Newbury, contralto.
4.37: Romano's Cafe Dance Orchestra.
conducted by Bennie Abrahams.
4.45: "The Trade Hour"—Demonstration

music. 5.45: Close.

· orecast

9.1: 9.9:

9.26

9.41:

liner

st

9.51:

## THE DINNER HOUR.

- 6.15: The Studio Dinner Orchestra. 6.45: The A.B.C. Younger Set Club-Girl uides-Miss Gwen Varley 7.5: Studio music
- 7.20:
- 20: Late market reports. 30: The Studio Dinner Orchestra. 55: What's on the Air To-night? 7.55:
- THE NIGHT PROGRAMME-8 p.m. to

## 10.30 p.m.

ecast. 1: Etta Field, soprano. 19: Gabriel Joffe, violinist. 19: Mildred Harris, harpist. 26: The Royal Four Quartette 36: Connie Harris, violinist. 31: Frazer Coss, baritone. 51: Dan Thomas and May Crean. enter-pers

10.1: Margaret Grimshaw, popular vocal-

10.8: Billy O'Henlon and Zara Clinton. in

ketches.
>10.18: Connie Harris, violinist.
10.25: Late weather report and news ser-

2GB

Theosophical Broadcasting Station, 29 Bligh St., Sydney (Wavelength 316 metres).

Sydney (Wavelength Station. 29 Bills St.: Sydney (Wavelength Station. 29 Bills St.: Bennett. 10.20: Music. 10.30: Women's esssion. by Miss Helen J. Beegling. 11.45 Close down. 2.0: Music. 2.5: Women's Hadio Service, by Mrs. Dorothy Jordan. 2.50: Movie Know-all. 3.0: Gardening talk. 3.30: Close down. 5.30: Children's session. by Uncle George. 7.0: Music. 7.30: Gardening alk. 8.0: Mr. Len Howell, tenor. 8.7: Syn-shony Orchestra. 8.15: Miss Mary Neal, con-ralto. 8.25: Mr. Jack Win and Miss Nora Windle, In a dramatic sketch. 8.35: Mr. Clif-ord Lathlean, baritone. 8.50: 'Cello solos '0: Weather report. 9.3: Address. 9.15 '4r Len Howell, tenor. 9.25: Symphony Or-hestra. 9.35: Mr. Jack Win and Miss Nora Windle, in a humorous sketch. 9.45: 'Cello solo. 9.50: Miss Mary Neal, contralto. 10.0: Instrumental music. 10.30: Close down.

10.30; Close. National Anthem

8.0: From the Capitol Theatre-Ted Hen-kel's Hour; Fred Scholl at the Wurlitzer organ. 9.0: From the Studio-Official weather

WIRELESS WEEKLY

Page Fifty-Ono



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## PRICE'S RADIO SERVICE,

Angel Place, Sydney.

B4146

# Interstate Programmes, Thursday, August 15

## 3LO

Australian Broadcasting Co., 150A Russell St., Melbourne (Wavelength, 371 metres.) EARLY MORNING SESSION See Friday.

See Friday. 10.30: Cnrrent events in the Racing World, by Eric Weich. 10.40: Reproduced music. 10.50: "The Football Field," by Mel. Morris. 11.6: A.B.C. Or-chestra, with Jessie Shmith, contraito. 12.30: Close down.

Weich. 10.40: Reproduced music. 10.50: "The Football Field," by Mcl. Morris. 11.0: A.B.C. Orchestra, with Jessle Shmith, contraito. 12.30: Close down.
 MIDDAY SESSION
 1.0: Luncheon music provided by the National Broadcasting Orchestra, under direction Wm. C. James Conductor, Percy Codel, SESSION
 2.0: Charles Draw, and State S

6.10. Clarice instruct instruction of the second sec

8 43 Outstanding the second se

		Uno.				
Serpolette				Eveline	Rin	gwood
Germaine				. Ver	onic	Gibbs
Gertrude				Marlo		
Jeanne				2 lad	n L	Miller
Manette					110	Dixon
Suzanne						Bryer
Grenicheu						Smith
						Craig
Notary						
Gobo						Craig
Gaspard						Evans
Marquis			1000		31.44	131 0111
		ACT	1.			
Scene 1	Sea Coa	st of C	orney	V1108.		
Scene 2	Market	Place	0			
		ACT	2.0			
Scene He	unnted Cl	namper	01 0	NELIC		
	1. 0. 11	ACT	3.			

Scelle Apple Orchard. 10.20: News from to-morrow's papers 10.30 "Rex" Dance Haud 11.30 God Save the King

## 3AR

3AR Australian Broadca: the C. 120A Russell St. Melhourne (Wavelength 184 metres.) EARLY MORNING SESSION 8.10 to 11.0 See Priday. MIDDAY SESSION. 12.0: Community Singling, transmitted from the Melhourne Town Hall; conductor, Frank Hatherley, Procerds in aid of the Lord Mayor's Hospital Radio Find. 12.15 "Argus" news session from the studio E.30. Community singling Orchestra—"Blue Dan-ube" (Stranssi, 2.10; J. Alexander Brown, hartform

AFTERNON SESSION 2.0: National Broadcasting Orchestra-"Blue Dan-the" Stranss, 2.10° J. Alexander Brown, baritone-"On the Road to Mandalay" (Oley Speaks), "The Jolly Miller" Quilter: 2.17. Tasma Tiernan, 'cel-list-Movement from Sonata (Griegl. 2.27. Leonora Scott, Sopraio-selected 2.37. National Broadcaving Orchestra--"White, Women, and Song" (Strauss), 2.47. Leonora Scott and J. Alexander Brown, duel-"At Lovr's Beginning" (Lisa Lehmann), "Troi Here and There." from Veronique. 2.57. One-act Play, produced iv Catherine Nelli. 3.13: Jack Hocking-Latest sor- hits. 3.23: National Broadcasting Or-chestra-S-lections, "High Jinks" (Friml.). 3.30 to 2.45. Your Health and Appearatue-Prace Massace, by "Alus." 3.46: Reproduced music. 4.0: 10 4.15: Food and Cookery-Cooking by gas, Miss Noble. 4.15:

## **3DB**

BOBB The "Herad" Broadcasting Station, Filners Street. MORNING SENSION. MORNING S

## 4QG

Queensland Government Radio Service, Brisbane (Wavelength, 385 metres). Schedules for morning and afternoon sessions, see

- Schedules for morning and afternoon sessions, see Priday. 3.0: The ring events at the Royal National Show will be described. 8.0: A description of the ring events. 9.0: Metropolitan weather forceast. Movements of the Travelling Dental Clinic. Movements of the Travelling Dental C

  - E. Ryberg-
  - Mouth organ solos. Selected. 10.0: News supplied by the metropolitan dailies Weather information. Close down.

## 5CL

Ceutral Broadcasters, Ltd., 111 HIndinarsh Square. Adelaide (Wavelength, 409 metres.) MORNING SESSION 2.0. See Friday. AFTERNOON SESSION 3.0 to 4.30: See Friday. 6.0 to 7.30: See Friday. 7.35: Mr. H. G. Olifent will speak on "Public Administration," 7.45: Mr. A. M. Whitehoury. "Hints to Poultry Breeders." 8.0: Chimes.

8.0: Chimes. 8.10: A Special Programme has been arranged. 10.15: General news scryloc. 10.30: Dance, recordings. 11.0: Close down.

Commonwealth Government Broadcasting Station, Perth (Wavelength. 100 metres.) 10.0: Graphoner (Wavelength. 10.0: Graphoner, 12.30: Markets, news, etc. 10: Graphoner, 10: Community Singing, 150: Pro-rramme continued, 20: Close down. 6.45: Bed-time stories by Uncle Duffy. 7.5. Light music. 7.30: Commercial and general information. 7.45: Taik 8.0: Time signal. Weather. 8.3: Musical programme, 8.50: Late news. Ships within range. Late weather. 8.50: Late news. Ships within range. Late weather. 8.50: Late news. Ships within range. Late weather. 8.50: Programme. 9.45: 'Health' taik, 10.30: Close down. 104.5 Metre Transmission: Simultaneous broad-cast on 104.5 metres of programme given on 1250 metres, commencing at 6.45 p.m.

6WF

## 7ZL

Tasmanian Broadcasters Pty. 96 Elizabeth St., Hobart (Wavelength, 516 metres.) 11.30 a.m.: Selections. 11.34: Midlands weather forecast. 11.35: Selections. 11.34: Addine-Eager will speak on, "Household Hints." 11.55: Tasmanian stations" 9 a.m. weather report. 12.1: Shipping In-formation. Ships within wireless range. Mail notices. Housewives' guide. Commercial news. 12.33: Selections. 12.55: News services. British official wireless news. Railway auction produce sales held at railway. 1.10: Selections. 1.30: Close down. During the afternoon results will be given of the Bendigo Races, held at Bendigo Racecourse, Bendigo, Victoria. 3.0: G.P.O. clock chimes the hour. 3.1: Selections. 3.4: Weather information. 3.5: Selections. 3.4: Weather windows." 4.30: Close down. 6.15: C Artersechtative of the Child Welfare Association will speak on, "Open Windows." 4.30: Close down. 6.15: C Mere, Tas-tor Tasmania" organation. add Lett. Racy an Griffiths speak on "Mountaineering on Mount Weilington." 7.45: W. H. Cumhie will speak on, "Soccer." 8.1: Musical selections. 8.15: A studio concert by

Wellington." 7.45: W. H. Cumhie will speak on, "Soccer." 8.1: Musical selections. 8.15: A studio concert by 7ZL artists (interspersed with gramophone records). 8.22: Ducis. Val Ulbrick and Les Ulbrick. 8.29: Musical selections. 8.36: Gwen Davidson (soprano), "Gradle Me Low" (Brahe). "John Anderson" (Lees). 8.43: Musical selections. 8.55: Ducis, "Val Ulbrick and as ULbrick. 8.55: Ducis, "Val Ulbrick Musical selections. 9.30: News Secarry Ript" 9.14. Musical selections. 9.30: News Secarry Ript" 9.14. cal selections. 10.1: Close down.

## Mr. Rowell Bryden

R. BRYDEN has been broadcasting in Australia since October last, and his voice is one of the most appreciated by radio fans in the Commonwealth. Whilst in New Zealand he toured both islands for concert festivals. He has an extensive repertoire. ranging from operatic to light ballad. He has made a study of English folk songs and negro spirituals. He is very keen about the former, for they are, as he says, the very heart of the people. Mr. Bryden first achieved fame as a boy soprano in Dunedia

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Page Fifty-Five

# The WIRELIESS WEEKILY RADIO INFORMATION SERVICE

linder the direction of Ross A. Hull

GENERAL.-Can any reader please supply K. Richardson, 1 Beaconsfield Road, Mosman, Sydney, with Nos. 4 and 5 (January 18 and 25) WIRELESS WEEKLY, Vol. 13?

E.V.D. (Arneliffe) .-- "If I place my eliminator in he same cabinet as my receiver will I get A.C.

hum?" Answer.—It is as well to place the eliminator at least two feet sway from the receiver unless the eliminator is totally shielded.

MARCO (Concord).—"I built the Marco Four and used the straight out winding on the aerial coll. L1. using 55 turns turned with a .0035 condenser. This I found was not selective enough." Answer.—The ganacity of the condenser should be .0005 mfd., not .0035 mfd. The coll should consist condenser, but this is too small to cover the band recently.

condenser, but this is too small to cover the source property.
(2) "I found tuning rather broad, and the band difficult to cover, so I then used an aerial coll of 15 turns, loosely coupled, and found I could not control reaction. I am using 35 turns reaction coll, tuned by a midget condenser." The removing about eight turns of wire, and placing a .00025 fixed condenser is shunt with the midget condenser that you now have in the R.E. circuit.
W G (Hurstrille)...nerease length of nerla, and

concenser that you now have in the R.F. circuit. W.G. (Hurstrille)--Increase length of aerial, and decrease length of eurth. Better to use an outdoor aerial. Makes no difference whicher insultated wire is used or not so long as lead in or aerial touches no earthed object. Three feet by three feet baffle bourd O.K. Berther, see last week's Radio Infor-mation Service.

C.M. (Sydenham) .- Sorry, no copies. See below.

C.M. (Sydenham).--Sorry, no copies. See below. GENERAL.--Can any reader please supply Mr. C Mack. 41 Unwin's Bridge Road, Sydenham, with a copy of WIRELESS WEEKLY containing instructions on building a 90 volt "B" accumulator? J.M. (Double Bay).--Alterations would be necessary in filament wiring and by-passing, also in the audio stages: There is no room here for a detailed de-scription, which would entail publication of nume-rous disgrams. for which we have no space at present. Re Peridyne Colis, Messrs. Grose and Danniel market a kit for winding your own. Instruc-tions are supplied. F.C.J. (Batow).--Olad you liked the Countryman's

tions are supplied. F.C.J. (Badow).-Olad you liked the Countryman's Two. Katoomba is good, Yes, Countryman's Two O.K. for headphone reception three. A.H. (Maroubra Sanction).-No, not as a general charger, but only to be used when special occasion demands. We do not sell radio apparatus Write to one of our advertisers. Yes. Mr Hull was con-nected with Q.S.T.

A.W.E. (Leichhardt).—Primary twenty turns, sec-ondary 50 turns, on a three-inch diameter former. Space, ¼ inch. Yes, the condensers may be ganged.

Space, ~« incn. res, the condensers may be ganged. J.G. (Mowiman).—"Re the Midget S.G.S.W. re-ceiver. Would 4 inch plain dials be quite satis-factory in place of the vernler dials?" **Answer.**—They can be used, but tuning will be "erv difficult, and S.W. tuning is very sharp. (2) "Could a 1 mfd. condenser be substituted for the p mdring. (2) "Could e 2 mfd?"

th

Answer.-Yes (3) "I am going to use an A.F.4 transformer in place of the "All American." Will the value of R4

lace of the shift of the source of the sourc

be a good combination?" Answer, and Brub Valves Answer, A better selection would be A442, A415. B406, A492, What is the connection to top of valve? Is it grid, plate, or screen grid?" Answer, Plate terminal of valve. The P terminal of valve Scket is the S.G. connection. (6) "Is the enclosed batter? connection diagram Correct?"

Answer .--- Yes

W.G.B. (Hamilton) .- Probably an open grid cir-cult. See last week's queries re bad reception of 2PC

W.G.B. (Hamilton).--Probably an open grid cir-out: See last week's queries re bad reception of 2FC at Newcastle. "COCKHE" (Buralyang).--Perhaps you are using wrong voltages. However, I am inclined to believe that in spite of what you say a valve or several valves are faulty. You haven't got the "C" battery leads reversed have you? D.J.S. (Tumut).--Signal Box Four is an excellent S.W. receiver, and incorporates several movel truthic, and the prevent band without further tumba, and the prevent band without further are achiever of the simplest type should receive baddon, so your request for the distance possible to cover with the 6.B.F. is rather wasted.

A.C.C. (Braidwood) .- Probably wrong battery connections, or faulty valve. Also test batteries.

E.T. (Granville).--Use a filament jack in th first stage. Run the positive filament lead throug the jack. When speaker is plugged into last stage filament jack will have a closed filament circuit When speaker is plugged into first jack (filament) the filament supply to the last valve will be opened. the second secon

K.C.P. (Avou. S.A.).---'Prom what address in Aus-tralia can I subscribe regularly to Q.S.T.?' Answer-Mesars. McGulis. 179 Elizabeth Street. Melbourne, Vio. (3) "Where can I obtain back numbers of this

Answer.-Either from McOills, or direct from the

GENERAL.-Can any reader please supply Mr K. C. Parker, Avon, S.A., with a copy of WIRELESS WEEKLY containing the "All Empire" S.W re-

K.R.H. (Sydney) .-- Try a 100,000 ohm variable r Astance across the primary of the transformer, Yo reaction condenser is much too large. Use one .00025 mfd. Your subscription has been passed o and you will receive acknowledgment in a few day The circuit is not a "Reinarts" but a "Schneil."

The circuit is not a "Reinarts" but a "Behnell." F.S. (Delegate) "Some time and WIZELESS: WEEKLY explained how to recharge a dry "B" battery. The one I wish to experiment with is a Columbla flat 45 volt. Please explain where holes have to be bored, and other procedure." Answer.—Strip off all paper and cardboard, then drill % inch holes in the bottom of each cell. Place battery in a solution of sal-animoniac (same as used in Ecchinge cells), and leave for twenty-four hours, in Ecching cells, and leave for twenty-four hours, and recharge solution of resh-animoniac (same as used in Ecchinge cells), and leave for twenty-four hours, and a pluing on fresh modifure-proof these solutions, after-less the battery still retains at lease 20 volta, the re-juventum process will not be worth while.

A.Y. (Naremburn) .-- "Would earthing the 'A' bat-ry of a Neutrodyne blow the valves or run the Bal

d through the primary. If not, it will l

Ca.

catthed through the primary. If not, it will be O.K. (2) To hear infer-State stations fair strength on the apeaker with inree valves is good reception. You could add an R.P. stage if you wanted more volume. The R.P. stage of the Marco Pour would base to be omitted or placed before the waverap would have to be omitted or placed before the R.P. stage. J.G. (Mosman)..."is enclosed copy of S.W. adap-tor O.K.? Re valve base. I have marked two plan and B. Which is the plate? Could a Bid9 be used in place of the B466 in the Go-Octier? Have you any copies containing this particu-lar receiver left. See below. GENERAL...GAM sorry, no copies containing this particu-lar freelver left. Bee below.

lar receiver left. See below. GENERAL-CAB any reader please supply Mr. J. Oswiland, Hollydene, S. Middle Head Road, Mosman. with copy of WIRELESS WEEKLY containing the "Screen Grid Pentavox" receiver: GENERAL-Has any listener an old worn-out 'Philoc' "S" battery for saie? Must be unbroken. Enquirer, Robert Olson, 26 Comfort Avenue. Cess-nock, N.S.W.

nock, N.S.W. Y.G. (Broken Hill).--"On page 60, WIRELESS WEEKLY, 5/7/39, you referred me to the A.R.R.L. Handbook. I wrote to the N.S.W. Bookstall Go., re this book, and was advised that it cannot be pro-cured locally. Can you recommend any other pub-lication that would cover the design of choke colls for 'B" battery elimitator purposes?" Answer.-"The design and construction of Induct astes and Chokes." "Electrifying the Rado Re-trom Messrs. Ancus and and some full the sec-tion of the second second second second from Messrs. Ancus and some senting. Ltd. have a few cooles of the A.R.R.L. Handbook left. If not, you mith be able to get a copy from WGills Agency. 179 Elizabeth Street, Melbourne, Vic. B.H. (New Zealand).-The Pilot Wasn. Sorry

M'Gills Agency. 179 Elizabeth Street, Melbourne, Vic. B.H. (New Zealand).-The Pilot Wasp. Sorry. do not know the receiver though the name points to an American version. See below. GENERAL-MT. B. Hope, Public Trust Office. Christchurch, New Zealand, writes: "I wish to ob-tain copies of WIRELESS WEEKLY prior to No. 20. Vol. 13. containing articles on "Proving Radio," or vol. 13. containing articles on "Proving Radio," or cost and postage." Wave receivers. Will pay cost and postage. The Wave receivers. Will pay

cost and postage." A.N. (Litherow).--Reason why battery consumption is high is probably owing to the fact that the ineter (which is permanently connected) draws a heavy current. Advise you to carry leads through a switch. If the switch on the receiver does not operate the meter, there is probably a faulty connection inside the receiver.

J.T. (Hurstville) .--- I carry the current -Use a 30 Henry choke designed to to carry suitable.

C.R. (Harris Park) .-- Try a midget condenser in series with the aerial. If this does not suffice, a wavetrap will probably be necessary.

D.M. (Corrinal) --- Yes, it could be done. A circuit of a Screen Grid R.F. Marco Four was published in queries columns a few months back. The R.F. stage of this would be quite suitable for the Flexible Three, though, of course, it would be unsuitable for short waves unless the condenser capacity and coils were determined of the state of the changed

B. (Hurstvillel .- See reply to A.H., Maroubra-Ju

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J.W. (South Australia).—We do not reply by post-o which article do you refer? N.E.C. (Gorley).—Almost any receiving valve can c used as a transmitting valve with fair results. A pecial transmitting is, however, very desirable. In-inference eliminator may help with hum from A.C. net.

A.B. (Queensland).→Your letter and Q.S.L. passed on to Messrs, Colville Moore, who are distributing these cards to the various institutes.

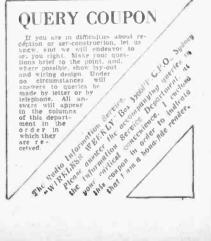
B.C.G. (Adelaide).—Sorry, no copies of Co-Oetter, see below. No, Countryman's One Valver is a Broad-cast receiver only. Yes, Go-Getter may be used on broadcast band.

General.-Can any reader please supply Mr. 1 C. Godirey, Box 951. H. G.P.O. Adelaide, with coj of WIRELESS WEEKLY containing the "Go-Getter Copies required have been forwarded

**K.T.P.** (Enfield).—No other connections have to made to the adaptor. Merely plug the adaptor in the detector societ, removing hout the detector at the R.F. valves, and transferring the aerial at earth connections to the adaptor

earth connections to the adaptor L.P. (Bronte).—You will probably find the fault the in the set, and not the climinator. See if two different makes of transformers are being used, and if a connection to the climinator of the set of the test of the set of the set of the set of the probable of the set of the set of the set of the constant of the set of the set of the set of the cause interaction. Try the inclusion of an R.P. chole in series with the plate of the set we und the plate terminal of the first transformer A .003 transformer may help.

transformer may help. **A.N.S.** (Masset).-"As there appears to be nome doubt as to the terminals of transformers of Eu-lish type, I would esteem it a favor if you would lish type, I would esteem it a favor if you would be able to the terminals of transformers of Eu-period to the terminals of the terminal terminal OF, plate: 15, grid: OS. filament in the Guardian, he list is 1P, plate: OP, B plus 15, grid: OS. fila-ment. The A.W.A give IP, plate OP. B plus; 16, filament; and OS grid Whitch is correct? Answer.-These differ greetly, but the writer has always used IP. B plus: OS, grid of S. filament; without striking trouble. Siggest you use this, and if a whisle is heard, reverse con-nections to primary. i.e., IP and OP



WIRELESS WEEKLY

J.H.W. (Parramatta).—The additional stage of sudio. in back of panel wiring diagram. can be followed from "Proving Radio." Circuits were re-cently given. A battery switch is not required. Pila-ment rheostat when off breaks "A" supply, and no "B" current will fow unless filament current is on. Yes. "B" stations can be heard.

K.G. (Allawah),-"'I have a .0005 condenser. Ho many plates shall I have to remove to make this .00025?" How

many plates shall have to remove to make this a 000025?" Answer.--Remove half the fixed and half the mov-ing plates, since .0005 is twice the capacity .00025. (2) "Do the higher priced condensers (about 12/) possess any characteristics which the lower priced ones, say 5/ to 6/, do not possess." Answer.-Besides being a better mechanical job, they are generally so made as to bring dielectric losses down lower. Noises due to frictional con-tacts are less common. Further, the higher-priced condenser of .0005 mid., has a maximum capacity of .0005 mid., whereas the cheaper condenser is usually "somewhere round about therc." The plates and supports of the better quality condenser are more frigidly constructed, so that shorts through buckled plates are less common. (3) "I have a B.T.H. 4-1 and a 2-1 transformer in are convertible to the solution of the stars of the set of .0005 mid. the transformers and supports of the better quality condenser are more frigidly constructed. So that shorts through buckled plates are less common. (3) "I have a B.T.H. 4-1 and a 2-1 transformer in are composed. The stransformers high elass?" Answer.-Yee. The B.T.H. Co, transformers high elass?"

elass?" — Answer.—Yes. The B.T.H. Co. transformers carry a guarantee that the transformers are true to curve within 5 per cent., and they replace transformers that become faulty within a certain period (six months, I think).

A.S.Q. (Brisbane).—An article appearing in is: week's WIRELESS WEEKLY treated this subject i detail. Re needle-scratch filter. Did you see "Tr Electric Phonograph." an article by Alexander, put lished in "RADIO." Covers the subject thoroughly if you haven't a copy please advise, when we can give you a paragraph in these columns.

give you a paragraph in these columns. A.C.H. (Cessnock).—Yes, the Reinartz may be used for short waves providing S.W. condensers and proper inductances are used. No need to use rheo-stats for audio stages. One ten ohm rheostat for the detector is O.K. Colis could be wound as sug-gested. 24 gauge wire suitable. Don't know the battery to which you refer. Glad you liked "Prov-ing Radio." Mr. Simmonds. "Gunton." Marsh Street, Arneliffe, country organiser of the P.R. Club, will be able to give you some help on forming a club in Cessnock. Re R.F. stage. Wind 47 turns 24 gauge wire on a three-inch diameter former. Connect aerial to first turn, then to stator plates of a .0005 variable condenser, and to grid of R.F. valve sceket. From end of coll to earth and also to rotor

plates, and thence to A plus, and on to one filament terminal of the R.F. valve socket. Other filament terminal of socket to one side of rheostat, and other side of rheostat to A negative. Plate of valve to first turn of a 26 turn coil on three inch diameter former, same wire (this is the plate coil, and should be coupled to the other coil, coupling to be vari-able till best spot is found) and other end of coil to B plus R.F. (about 45 volts).

A.R.S. (Queensland).—Coil system all wrong. Wind 15 turns 24 gauge wire on a three inch diameter former. Space quarter inch. Now, wind 50 turns. Connect, as in your diagram, only try earth tapping in a different place. The original Reinart is better, Would be easy to alter. L1 should be 15 turns. Space ½ inch. L2 47 turns, then without breaking wire, but making a tap, wind another 25 turns. First turn of L1 to aerial. Last turn to earth. First turn of L2 to stator plates, grid leak, and condenser, thence to grid of valve. Tapping of coil to rotor plates and to one side of nlament (as in your drawing). Other end of coil to moving plates of reaction condenser, and stator plates of condenser jo plate of valve. of reaction conden to plate of valve.

GENERAL. Mr. E. Collins. "Given." Edenholme Road. Five Dock. writes: "I have a quantity of WIRELESS WEEKLY, dated from about October last year. No copies are missing. Any render can have these copies by calling for them." (Thanks, Mr. Collins.)

F.K. (Ballina).—Evidently someone is using your call sign, or someone has a very bad fist. Hil The Q.S.L. cards have been handed over to Colville Moore, so we have passed your letter on to them.

R.W.P. (Ulmarra).--Your proposition being con-sidered. Good idea. Glad you liked "P.R." Thanks for kind remarks. See below.

for kind remarks. See Delow. **GENERAL.-MJ. R. W. Pattermore, Deep Creek,** Ulmarra, writes: "I can supply the following back numbers of WIRELESS WEEKLY to readers requir-ing same: Vol. 12, from No. 9 to 35, except Nos. 10 not 14, These may be had on receipt of cost and postage. Volume 13, No. 2 to No. 24 (except No. 13) Vol. 13 can be had for 3d a copy ino postage), and I would advise only those who are after circuits and diagrams to apply for these, as I am keeping the 'Proving Radio' articles."

A.T.F. (Canberra).-The article appeared in WIRE ESS WEEKLY dated December 28, 1928.

LESS WEERDY duted Detender 26, 1956.
G.F. (Kensington).-Sorry, know of no firm which would be willing to let you have a receiver on these terms, but suggest you try J. Beardsmore, United Distributors, Levensons, P. V. Wallace, Colville Moore, Harry Wiles, Price's Radio Service, Economic Radio, E.S.E. Co., Resco Radio Co., Slingsby and Coles, Harrington, etc. Dr. Cedric W. Whiting, Marsden Street, Pariamatia, advertised such a set in last week's "WIRELESS WEEKLY."

GENERAL.—Can any reader please supply Mr. Jackson, Salisbury Flats, Salisbury Street, Waver-ley, with a copy of "WIRELESS WEEKLY," con-taining the circuit of the Economist "B" Elimina tor?

tor? GENERAL.-Mr. Arthur M'Laren. "Delmont." Mort Street, Toowoomba, Queensland, writes:.-"Since my last letter to you re "WIRELESS WEEKLY back numbers, which I offered to listeners, I have had numerous requests for these, so many, in fact, that I am compelled to ask you to publish the list of numbers left, as there are many letters that I have had to refuse, as I have previously sent the numbers are still available to readers paying post-age:-"RADIO, Vol 1., Nos. 2, 3, 4, 7, 8, 10; Vol. 2, No 8. "WIRELESS WEEKLY. 1927 numbers, Vol. 11, Nos. 8, 9, 11, 12, 13, 14, 16, 17, 18, 19, 20, 22, 23; Vol. 12, Nos. 3, 26, 27, 32, 33; vol. 13, Nos. 4, 12, 17, 20, and issues up to date."

GENERAL--Mr. N. W. Morgan. Thomas Street, Toowoomba, Queensland, writes:---'Having scen a number of requests for back copies of 'WIRELESS WEEKLX'. I would like you to let readers know, through your paper, that I have back copies from October, 1928, to present issue. I will be pleased to forward any copy on receipt of address and postage.'' Thanks, Mr. Morgan.

W.H.W. (Chatswood).--"Which is the better ar-rangement for Reinartz? Detector and one stage transformer with Penthode, or detector and three stage relationer anyllage?" age resistance amplifier?" Answer: Detector with three stage resistance amstage resistance

plifier

L.T. (Victoria).--Sugest A.R.R.L. Handbook. Cas-sell's also publish a Short-wave Handbook. Go-Getter, May 10. Sorry, no numbers left of supple-ment. Date March 31. Perhaps some reader can help you. Write to ane of the readers (see pre-vious notes) who have so kindly offered to supply back numbers to readers requiring them.

back numbers to readers requiring them. **XYZ** (Canley Vale)..."'I am going to build the Countryman's Two-valve receiver, but am held up owing to two things. What gauge wire is need no colls? In which 'WIRELESS WEEKLY' was the two-valve receiver published's thave looked through my copies, but cannot find it." Answer: 24-gauge D.C.C. wire. The Countryman's Two was not published as an article. A reader requested that a circuit be published showing the Countryman's One with a stage of audio added. A circuit of the Countryman's Two was published in queries columns May 10, 1929. Back of panel dia-gram of the Countryman's Two was published in queries columns March 1, 1929. R.H.L. (Canterbury).—Same as per Marco Four

R.H.L. (Canterbury).—Same as per Marco Four published February 1. only make primary a little larger, say, 15 to 20 turns.

# PERATING

NFORTUNATELY an article published last week under the above heading was incomplete. The conclusion of the article follows below. Refer to Figs. 1, 2, and 3,

Though no reader forwarded a complete explanation of the "Hum Problem," the prize of one Precise 4-1 audio transformer has been awarded to Mr. G. Younger, Wallsend Street, Pelaw Main, who submitted his theory regarding grid and plate returns.

In Fig. 1 we see the conventional detecto circuit. The principle is generally known. The filament on being supplied with D.C. heats up, and emits electrons (particles of owing to the negative electricity), which. positive potential of the plate with respect to the filament, are attracted. On their way to the plate, the electrons are controlled as regards their rate of flow, by the grid which is made negative to decrease the rate of flow (as like kinds of electricity repel. and positive when a greater flow is required The coil, together with the grid condenser grid leak, and grid element of the valve, form the "grid circuit."

Now it will be noticed that (still on Fig. 1) one half of the filament (in the dia-gram, the left half) will be less negative than the other (i.e., the right half). The polarity of the filament wire will gradually become more negative as we follow it round to the right. Since a flow of electrons constitutes a flow of electricity, and since the direction of flow is from negative to positive (because of a superabundance of electrons at the negative nole) it stands to rea-son that the greater filament emission will be from the right or negative half of the filament.

Now glance at Fig. 2. Here the "A" battery has been reversed, and as a result the grid is returned to the negative (whilst before it was the positive) and the greater electron emission is from the left side of the filament.

FILAMENTS

Fig. 3 comes next. Here you see the de-tector circuit using an A.C. valve. The additional element is termed the cathode. Note that the filament is now independent of any part cf the circuit, and that the cathode is placed so that it will intercept neat from the filament.

In Fig. 3, the filament supply is shown as A.C. According to the rate of fluctuation the potential of the left half, and the right half of the filament will be continually However, we are not much conchanging. cerned with this when using the cathode, because the purpose of the filament here is not to emit electrons, but to supply heat for the cathode, in order that the latter .nay upply electrons. As the cathode is eventually connected to B negative (through the plate circuit), the complete electrical circuit s completed, and the fluctuating temperature f the filament Itself is negligible.

we strike another interesting fact Then Jsing the ordinary D.C. valve, a field is set up ound the filament, and this influences the electron stream. In "Proving Radio" we earnt that when a current is passed through wire, magnetic lines of force are set up Our galvanometer experiment showed us that another wire placed near that carrying

a current, would accept energy. Since the magnetic lines of force the electron are fluctuating. stream will be caused to fluctuate. In addition to this, the A.C.

supply (one side of the filament being connected to the grid cir-cuit) will alternately make the grid negative and then positive. Advancing further, we see that a fluctuating grid potential will

fluctuation in electronic flow cause (since the grid control controls that flow), and still further, the fluctuating electronic flow will cause a fluctuating plate current. The cathode is termed "Indirectly Heated,"

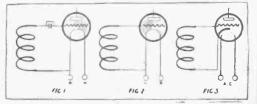
FROM

since it derives its heat not directly from the A.C. mains, but from the heat generated by the current through the filament.

Thus, it will be seen that using A.C. on a three electrode valve, i.e., one without an indirectly heated cathode, a fluctuating magnetic field is set up round the filament; a fluctuating potential drop along the filament, and fluctuations in the filament temperature are three factors which must be considered.

The hum is more pronounced when A.C. is being used on the detector owing to the fact that the audio stages following amplify all that is fed to them by the detector.

The fluctuating drop along the filament results in an output voltage ripple which may be reduced greatly by returning the grid and plate circuits to a centre tap across the filament supply. This means across the filament supply. This means that the B negative return to filament (for return of the electrons to the filament) and the grid return, should be connected to the electrical centre of the filament supply when it is A.C. When this is done, it matters little whether the left half or the right half of the filament is at negative or positive potential



You hear them all with a

Friday, 9th August, 1929

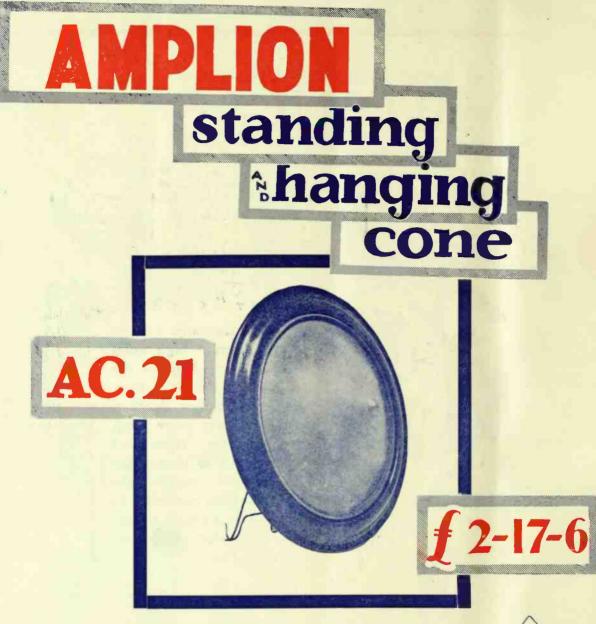
Allied to Marconi Speakers are Marconi Valves, famous alike for their economy of both "A" and "B" Battery consumption and their capacity to handle great volume without distortion. WANG of the banjo—boom of the drum — high notes of the violin—blare of the cornet. They're all there with the Marconi Speaker. Nothing is lost; every single instrument is reproduced naturally just as though the orchestra were actually in the room. Volume controlled to any pitch by a simple adjustment—tone that satisfies the most critical ear.

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