Ray Allsop and Don. B. Knock - Technical Editors.



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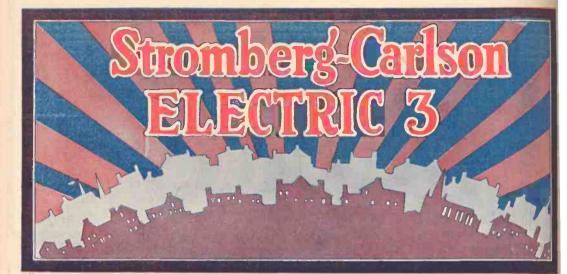
FRIDAY, MAY 3, 1929 (Registered at the G.P.O., Sydney, for transmission by post as a newspape

-AT THE RADIO EXHIBITION

at

Special Attractions at the Radio Exhibition u u Mrs. Smeebolger Visits the Melbourne Radio Festival u u How to Make Your Own Coils u u Large Radio Information Service Friday, 3rd May, 1929

WIRELESS WEEKLY



The World's Latest and Best!

COR £27/5/0 do you realise you are offered a genuine STROMBERG-CARLSON ELECTRIC 3?

A Quality Set backed by the great Stromberg-Carlson Organisation—known the World over and famous for High Quality and Efficiency. This is no ordinary set, but a highly sensitive, scientificallyconstructed Receiver---yet so simple a child can operate it---which brings to you over the air the best of the programmes with won terful Volume and Clarity of Tone. In handsome metal box. Newest ripple finish, two-tone Brown with Gold High-lights. A set that would grace any home. See it and hear it before you finally decide on the set you will buy.

SO SIMPLE A CHILD CAN OPERATE IT-JUST PLUG IN.

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TEN SUPERB ASTOR MODELS

From the modest Astor Two Valve to the magnificent electrically operated Astor "Duo Symphonic" (combined radio and phonograph). The Astor Exhibit will contain the most comprehensive range of receivers ever manufactured.

They are all Australian too.

See Stand No. 19, Great Hall RADIO EXHIBITION, May 1st to 11th

Out of Town folk, who are unable to visit the Exhibition, send the coupon for further particulars.

AMPLION A/SIA., LTD., 53-55 YORK ST., SYDNEY



CONSOLE ASTOR SHIELDED SIX complete with Amplion Speaker, Battery, £52. All Electric, £64



On the left hand side of the Vestibule, Sydney Town Hall.

Nowhere will you see a more comprehensive and interesting exhibit of Modern Radio than at Harringtons' Stand. Some of the World's Finest Receivers, and all Radio parts and accessories are on view. DO NOT MISS

HARRINGTONS

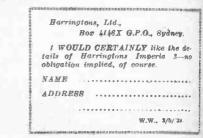
ALL ELECTRIC Battery Operated

This entirely new Receiver has met with such success that production facilities had to be considerably augmented to supply the demand.

There are two beautiful models—the Console, illustrated above, a full length cabinet finished in two-tone effect; and the Table Model (below), encased in a gold-finished metal cabinet.

We have prepared a handsome illustrated price list of the Imperia 3. MAIL THE COUPON NOW FOR YOUR COPY.







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Latest styles in combination Radio and Phonograph.

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386 George Street, Sydney Branches all States and New Zealand.

Vol. 13, No. 19, Friday, May 3, 1929. Mireless Weekly Incorporating Radio in Australia & New Zealand

Address: Box 3366 PP, G.P.O., Sydney.

PRIVATE HISTORIES OF ANZAC

In connection with the Anzac Day Celebrations, 2BL, in conjunction with "Wireless Weekly," solicited stories from witnesses of the landing in an endeavor to record, before it finally becomes glorious legend, private histories of the landing. Hundreds of accounts were received. The three best, which were read from 2BL by Mr. Scott Alexander on Anzac night, are published before

First Prize ANZAC, 1915.

O^N April 18, 1915, we embarked at Alexandria, leaving behind us all the growls and curses at Gyppos, standstorms, and endless marches over the desert. We reached Lemnos a few days later-everyone (Turks, too, I suppose, now), knowing our destination; a couple of days followed at practising disembarking from the troopship into the boats and landing knee-deep on the island

and galloping up over the ploughed fields. We were pald E3 in sovereigns, but the canteen was empty, so good old Captain Mac-Kenzie went ashore and bought all that was obtainable—foul cigars and some dreadful sweet, like candled honey. The boys sportingly bought him out and pitched most of it overboard.

Then, on April 24, General Birdwood's simple and manly appeal was read out:—On the morrow we landed on a hostile shore! At alghtfall the 40 or more ships slipped quietly out of Lemnos. There was a subdued feeling of excitement after the deadly inaction of the weary months in Egypt. We slept little that might—all lights were out.

I smile still when I think of the persistent growls of my cobber that night when he found that a bag of coins of about two nationalities, and worth about 1/6, had been "lifted." He prayed fervently that there would be one casualty on the morrow—his coin thief.

We reached our destination about 2 or 3 am on Sunday, AprIl 25, and all hands were roused, and, dressing quickly with all gear and provisions, we waited. Breakfast was hurriedly disposed of, and then, after an interminable wait—below deck—the crash of a shell was heard. The darkness was intense, and we crowded round the portholes. We all nearly fell over when an unseen warship, not 20 yards away, commenced firing. We were rushed on deck, and between the sounds of the big guns of the warships and the shrapnel from the Turks on the Point, we heard joyful Aussie yells, and the strong crackle of

rifles. Navy pinnaces and came up We tumbled into them. Dawn was now breakand troopships ing. and warships and pinnaces were moving in directions. Shrap-was flying indisall directions. nel criminately. The Turks

A big shell would burst suddenly in the water, sending a mighty spray high in the There was only one tasualty in our air. boatload, and we jumped out into the water and rushed for the friendly shelter of the ridges. "All packs of !" yelled our captain. and we shed our packs, containing blankets and food, and charged up the hill to the crackle of rifles and the whine and splutter of Turkish shrapnel. We did not fire a shot at the retreating Turks, but kept going up the rough steep ridge. Our warships were going at a terrific rate, pouring shells in all directions at the enemy. We reached the top and flopped into a Turkish trench, vacated by them a few minutes before. It was only 20 yards long, and very narrow, and with the parapet on the wrong side for us, we suffered heavily throughout the day. Several attacks were beaten off, and when nightfall came we were pretty tired, thirsty, and hungry. Throughout the night we worked like fury, connecting up with the rest of our mates on

CLORION

the ridge, and beating back enemy assaults. Towards midnight our artillery, 100 yards down the hill, fired its first salvo, to our joy—a joy that was soon to be turned to curses, when we found that it drew the concentrated and inaccurate fire of the Turkish guns to our discomfort in the tiny trench. In one corner was a muddy pool which an irascible sergeant declared was poisoned—but our thirst was so great that all except the sergeant risked it, and enjoyed a drink that no ne care could excel.

In the morning, we found that only 20 feet remained to link up with the boys on the left. By this time, the "Good Samaritans" of the Navy had landed water in kerosene tins, and these were passed along the line. We took it in turns to pass a tin over the end of the trench, jump out, filing it into the next trench, and scramble back to the accompaniment of shots from snipers. Several tins were "portholed," and three casualties occurred, but by mid-day we had linked up on each side of us.

Three days later, to our joy, we were relleved; went down to the ravine, passing our Chaplain—Captain Mac., singing happily in a loud, flat voice, "We'll have eggs for our breakfast in the morning."

Four hours later we were rushed back to the line to defend a Turkish attack. And so it went on!

-"740" (1st Brigade). 7 Alexander Avenue, Willoughby.

Second Prize

THE LANDING.

IT would be hard, or rather, impossible, to forget that awful day, April 25.

Being care-free and happy after such a sea voyage, with good wholesome food and the training in Egypt, we were, I suppose, considered to be real specimens of fitness, and I think we were. If there had been any signs of weakness, the hard training would have found it out, and so debarred us from participating in what afterwards proved to be the opening chapter of Australian war history.

To give my narrative of the landing, it would be necessary to commence on April 24. On that date we were on board the Der-

finger, a German prize ship, rolling over the beautiful waters of that wonderful isle-dotted Acgean Sea, all unaware of what the morrow was going to be.

None of us had any idea where we were



Ladies and Gentlemen and Listeners

THE conductor of community singing broadcast by 3AR from Geelong recently, in his opening speech said: "Ladies and Gentic-men and Listeners-in." We are wondering if this is the commencement of a new class distinction.

Mass Production

THE National Broadcasting Company of America finds that out of 510 broadcasts



ing January there were 212 lectures. twenty-eight plays and sketches, and nlnety-three news announcements. Now, that is what we, and possibly our American friends, call talking. And then again our American friends may have found other modes of defound scription.

from New York dur-

Capital Error

A LETTER to 2FC was addressed "To Whom it may concern." Although Miss Gibson disclaims all right to such worshipful attention.

Australia's Call-sign

A LETTER from San Francisco admits that Mr. Wolett, of that little old burg, has received 2BL. But Mr. Wolett wants to know what "Coo-ee" means. Mr. Chas. Youngson thinks it is a corruption of the term "oscil-lation;" and, indeed, the simile is very well drawn; but we believe the term was in ex-

istence long before radio. No. We have it on expert authority that "Coo-ee" is the tribal call of the Australlan Sphinx, a species of she-cat peculiar to north. south, east. and west of the Aus-tralian hinterland. The Australian Sphinx (Sphinxus Australianus) is prevalent during the summer months, and



is noted for its coloring, which is indescribable, and for the extreme beauty of its face. which no one has yet seen. The tribal call of the Sphinx has been imitated with some of the Sphinx has been imitated with some success by Australian tourists, who find it belpful, in the quieter "beauty spots" of this fair land of ours, in dispelling the inhar-monious silence of the Australian bush; and it has gradually come to be recognised as the Australian national call. Hence it has been used to some extent by radio announcers when they have felt the precessity for meakwhen they have felt the necessity for speak-ing on behalf of Australia, our own beautiful mortgaged country; and many people have said that, although this is a good excuse for the use of the term "Coo-ee" in radio. it is the only one.

No Aberdonians in Heaven

FROM 3LO this Sammy Shield's story was heard. An Aberdonian went to Heaven and was asked at the pearly gates where he came from. "Aberdeen," exclaimed the newcomer proudly. "Very sirry," said Sk Peter ,"but we cannot take you in. You see. it would be too much trouble to make poiridge for one."

The Universal Tongue

AN Englishman gave a lecture on "Loudspeakers and their development." Moving curtain lecture to moving coil?

Those Well-selected Numbers

THE B.B.C., it is reported, has refused to allow titles of dance items to be broad-cast. Some conductors have been receiving up to £100 a week from parties interested in boosting new numbers. We are interested to hear that there are people in England who can distinguish one dance number from an-other. Still, no one in his senses would be-lieve that a jazz band plays for the fun of the thing.

Songs of the Sea

MR. W. E. LEWIS, with Mr. Charles Lawrence, Mr. John Warren, Mr. Richard Parry, and retired Sea-captains Tyrer, Gale. Palmer, Livingstone. Ree. and Carter. was re-

sponsible for an exceptionally fine hour of nautical songs from 2BL. Many old. chanties were sung. including Rio Grande, Shenandoah. Blow the Man Down, The Drunken Sailor. etcetera, as they were sung, many ago, at sea. years The evening was quite informal, and intervals between items were enlivened with

strange exhortations to "Belay" and "Sheet the main halliards," although we don't think have the latter expression quite accurately. Also, Mr. Charles Lawrence butted in with comments, as is his habit. Downstairs. after the singing, one of the captains told us how several of the songs used to be sung, be-fore a lot of landlubpers monkeyed with the words. We wish you could have heard him.

Public Notice

WE wish to contradict the rumor that 2FC's broadcasts of "The Desert Song" will lead to an agitation against a superfluity of dinner music in the programmes.

More Progress

THERE are springing up already, says an American journal, composers of music dedicated expressly to radio purposes and an entirely new technique can be, and right now is being, evolved. And, in fact, we have noticed this coming change, even in the works of the Great Masters themselves, as we have sat in our armchairs and listened to the evening programmes.

Luck Indeed

MELBOURNE station, 3LO, is giving an a lucky ha'penny to everyone who st scribes one shilling to the Tasmanian Luo Ha'penny Relief Fund. A young Col House student accountant was one of the first to procure a lucky ha'penny, and with three minutes after leaving the Studio found a sovereign in the street. There may be some magic charm in these lucky have nies, and I am thinking that one might wa wonders in "Tattsmania."

A Foolish Paragraph

A FEW Saturdays ago, the races were per poned because it was raining; so 2FC p on a solid musical programme during afternoon. Whereupon one of the statis

severest critics, who hates racing, sporting, and brass bands, dispensed the follow. ing mouthful: "What a wonderful weekend of afternoon music we have had! No racing on Saturday, and no Manly Band on Sunday. Hail, glorious rain! May we have twentywet week-ends six Which brings up the



whether books are superior to mus-a question which no sporting Austri ian would care to answer until after the me for, of course, he who loses the office cash book-speculations must be prepared to is the music.

(Does this mean anything?-Ed.) (No. Do you think it ought to?) .

A Yankee Retort

URING a rebroadcast by 3AR of State W2XAF, Schenectady, the following m heard from the announcer:-

"Hullo, Australia, how are you way down under? You have heard of the American bison, of course. Well, I hear that a 'bison' in your country is something you wash your face with."

We are wondering if this was meant at slur on the Australian accent.

The Early Bird

T a quarter to eight o'clock on the Wed nesday night of Milk Week, Dr. Artis appeared at the IE



studios. It had been arranged, he su that he should gives talk, or a lecture or something at about that time. Mr. Kits was able to fit ha in; and the talk me ceeded and came a a. close. It was m until about nh o'clock that the ner came through the the doctor's talk m to have been give

from 2FC on the following Thursday nem

SPECIAL ATTRACTIONS at the Radio Exhibition

Radio enthusiasts will be most attracted at the Radio and Electrical Exhibition, which will be open from May 1 to 11, by the special lines exhibited which have not hitherto been available to the public. Many firms have withheld their 1929 apparatus in order to make a good showing at the Exhibition. Below we list the special attractions in the new developments in receivers and components.

WHILE an extraordinarily comprehensive display of general radio apparatus will be shown at the Radio Exhibition, the most noteworthy attractions will be the new model receivers and the range of new apparatus which has not hitherto been available, and which are entirely new developments.

SETS

Among the new type receivers are the fol-

Astor

THE new baby three all-electric of this popular range of models wil be on view Amplion (Aust.). Ltd., which markets these receivers in N.S.W., will also have on view a screen-grid five-valve neutrodyne. This will be sure to attract considerable attention, for a screen-grid neutrodyne will be something

of a novelty.

Airzone

A IRZONE will introduce to the public an A.C. set with the whole of the components, including a Magnavox loud speaker, aerial, A.C. power pack, etc., all contained in the one cabinet. No outside connections of any description are necessary; all that is needed is either a lamp socket or a power point, into which the connecting cord from the set can be plugged. Tone, quality, range, and volume are features of this new A.C. set. Perfect reproduction has been developed on the most unique lines. This set is most attractively finished in a cabinet similar to the popular Airzone portable.

Stromberg-Carlson

NEW season Stromberg-Carlson receivers will be on view. These are all wholly made in Australia, and represent the very latest designs in both "all electric" and "battery-operated" types. Both the All-electric Six and the Battery Six give excellent inter-State reception. The tuning condensers which are recognized as one of the vital parts of a receiver, are of standard heavy type. securely ganged and mounted on special bedplate, with facilities for rocking the stato of the aerial condenser in order to get maxinum distance reception. The audio section of the receivers is equipped with large capadiv audic transformers capable of uniformly amplifying the whole range of musical frequencies. The windings are well proper tioned and properly insulated, whilst the cores are made of highest quality laminated Included in both the Six-valve restalloy. Included in both ceivers is an output filter.

Provision is made for permanent connection of phonograph pickup unit, which is brought into use whenever desired by the simple operation of a switch. Pilot lights are provided, and in the case of the Battery Six a special fuse lamp is incorporated to guard against burning out of valves should the set user inadvertentely connect his batteries up the wrong way. A meter stand is also built into the Battery Six with special jacks, into which plugs a Jewell double reading volt meter, which readily indicates the condition of both the "A" and "B" batteries.

Colvomox

COLVILLE-MOORE will come forward with some modern 1929 receivers, incorporating the "all-electric" principle, and the screen grid. Worthy of mention are the A.C. Three, the A.C. Six, and the screen-grid All-wave Four.

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Udisco

UNITED DISTRIBUTORS have concentrated for some time on the development of an all-electric set, which will be on view at the Exhibition. A notable feature is the built-in speaker unit. On each set also there is a permanent gramophone attachment and pick-up. The range of models is exceedingly large, but perhaps the favorite will be the Udisco All-electric Four. This set has satisfactorily withstood all its trials, giving excelient volume with all desirable clarity. The set is also very selective, an important feature in these days of modern radio.

Harringtons

THIS firm will exhibit new "All-electric" designs in the Imperia models. Good use is made of the Pilot A.C. power pack to obtain A.C. supply.

Noves Bros.

rojes bros.

[PHIS company will bring before public notice the Igranic seven-valve Neutrosonic, the ideal country receiver, and the Seyon (Noyes spelt backwards) All-Electric Chree, made in Australia.

Mick Simmons, Ltd.

MICK SIMMONS will exhibit a nine-valve receiver, incorporating all the latest improvements in component and receiver design. In addition, dynamic speakers (Magnavox) of the latest type, including Beverley Junior, Beverley Senior, the Belvedere (made up as a fire screen), the Aristocrat, and the Cordova, will be shown at Stand 44.

Cossor

COSSOR will show a totally enclosed metal shielded three-valve receiver, termed "The Melody Maker," which uses a screen grid valve, and which can be made up by anybody in 90 minutes from simple charts supplied. Of this, more in a later issue. The new Cossor valves, with Kalenised filament, including several new types, as, for instance, the two-volt screen grid valve, will also be on view.

COMPONENTS

A large number of new component parts will be on view. These will include:-

Manufacturers Products

THIS firm has brought out a line of M.P. Stirling dynamic speakers, manufactured the Stirling Instrument Co., of U.S.A., bv and made under the Maznovox patents. These units handle reproduction perfectly, effectively bringing out the rich, deep notes. A feature of the M.P.80 Stirling Dynamic, which connects direct with the power point, with the necessary step-down transformer and metal rectifier, is the special hum-eliminator, which effectively silences the aggravating hum always prevalent in A.C. current when being rectified. The M.P.6 Stirley when being rectified. The M.P.6 Stirley Dynamic unit is used for direct connection with any six-volt A battery, and gives wonderful results. These units will be displayed separately or in very attractive cabinets. The console model, finished in walnut, and the table model should appeal to anyone requiring a really good speaker, and in addi-tion to these there is a shield, or standing. model, which is creating a great deal of attention. This not only acts as an ornamental shield, but also has a very effective baffie board.

Another new feature of the Manufacturers Products Pty, Ltd., show is the Baldwin Pickproducts Pty, Ltd., show is the Baldwin Pickproducts Pty, Ltd., show is the Baldwin Pickproducts Pty, Ltd., show is the Baldwin Pickproduct with a special tension spring, and makes it susceptible to any irregularity, thus prolonging the life of the records, as it is balanced over the record and not on it A volume control enables adjustments to be made to suit individual requirements, and the reproduced tome is marked with unusual clarity. It is finished in either old gold or polished nickel, with black trimmings, and is equipped with a cord all ready to plug in.

As exclusive factory representatives for Emmod they display many new lines, includling A.O. equipment complete, from separate transformer, chokes, condenser packs, etc., to a complete power pack adapted for all the different voltages and type of tubes. A new type of bakelite resistance, which will not burnt out. should prove of great interest to the technical men. The Mello metal vernier dial, similar to a well-known American make. is very attractive, and will undoubtedly buused on many new sets this season. These are but a few of the twenty-old new lines which Emmo is bringing out for the 1929 radio season.

British General Electric Co.

OUR queries have offered excellent proof that some hundreds of excited television fans are cagerly awaiting the advent of the photo-electric cell on the market. The first firm to land the photo-electric cell were the B.G.E., when the only three samples available were immediately procured by Mr. All-sop. One of these valves will be on view.

For the fan interested in new valve creations, B.G.E. advise that a new range of Osram power valves (four volts, P425--six volt P625 and P625A) will be on view. These valves are suitable for moving coil speakers, and delive" tremendous volume without distorticn. The new screen-grid valve, taking only two volts filament (S215) will also be E 10WR, together with the now famous Osram 8625, screen grid.

Perfect reproduction is claimed for the P aque Cone Speaker, which has been named Gecophone Junior Cone (cat. No. EC1720), which is to be retailed at the extrao.dinary price of £3. A set of photographs showing the place-

m nt of apparatus in the Southern Cross radio equipment will also be on view. It is a noteworthy fact that Smith and Ulm were able to listen nightly, by means of their Osram valves. to 2FC and 2BL. In addition to this, it is hoped to exhibit Wing-Commander Wackett's original transmitter, which he used during the long search.

A novel innovation, which will be practical proof of the extraordinary strength of the new Osram Tenacious Filament will be shown. A valve inside its cartch will be rolled about inside a box (the interior of which can be seen). A battery will be connected to the filament, and so arranged that as soon as the filament breaks a bright pilot lamp will be extinguished. As long as the pilot light glows the filament of the valve is proved to be intact.

Nor is this all. Our description commenced with something of interest for the television fan, but there is yet some more good news Mr. Allsop, Associate Technical for him. Editor of this paper, and Chief Engineer of 2BL, found the greatest difficulty in television was in arranging a synchronised motor. Several people laughed when B.G.E. undertook to convert a stock model motor to carry out the job. By means of adjustments to a 1 h.p. motor (three phase) the characteristics of which were 415 volts at 50 cycles, running at 1400 revolutions per minute, with



The Philips' Permognetic Speaker.

one end glared to a television disc and the other balanced for a chain supply wheel, Mr. Allsop now rejoices in perfect synchronism.

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Amplion

THE principal new exhibit in the component part field will be a new speaker driven by the reed current system.

Airzone

A IRZONE will show a very compact allmetal "B" eliminator, which can be fitted into the Airzone Portable. It is made up in a very attractive all-metal case, blue crystal-

Captain Stevens, of times when he used to

sing on concert platforms and at select gather-

ings to the Barnett accompaniment. "Vern."

line enamel finish. Airzone are also showing a new four-valve accumulator, which s specially designed for use in the Airzone Portable and two and three valve receivers. eliminating the use of dry "A" batteries. The accumulator is solidly constructed and finished in rubber black, with a capacity of 3 ampere hours actual. Size, 5% x 7 inches high.

\$

Philips

PHILIPS LAMPS, LTD., will exhibit

compact gramophone amplifying unit, with switch and single control, employing the A415 and B443 (the latter a Penthode valve). The "Peter Pan," a new speaker with an ertra large baffle and full floating cone, the F209 A.C. valve, which will be in great demand as soon as All A.C. receivers take ca the 10-watt A.C. operated amplifier, complete with power supply apparatus, the Philm Power Pack for A.C. valves, consisting of a B and C unit and filament transformer, and a new dual rate "A" charger (the 1453, which may be used for boosting or trickle charging will be among the many attractions on the stand.



THE NEW PHILIPS PICKUP.

CONCERT

THE JNBROADCAST

THE other night Mr. G. Vern Barnett came up from an afternoon's playing at the musin teachers' conference at the Conserva-

awe of his father's sartorial splendors. When

the chorus had come to its usual disgusting

conclusions, Mr. Barnett introduced his son

to Captain Stevens, who asked him, in the

manner reserved by indulgent uncles for their

special favorites, whether he could play. Forth-

with, young Andrew Barnett was holsted to

the piano stool, whence he began to strike the

keys to some purpose, producing "Long, Long Ago" and "The Bluebells of Scotland," while

his father watched him anxious and sym-

pathetically as he might watch Spivakovsky.

Meanwhile, Mr. Vern Barnett's festival attire had roused old memories in the bosom of



torium to play for 2BL's chorus. He was very beautiful to behold. His boots were perfect; his striped trousers most becoming; his morning coat was superb; and there is only one word for his doublebreasted, speckled waistcoat; and that word is, ravishing. His son Andrew ac-companied him, and seemed very much in

he said, "could you play an accompaniment to 'Still wie die Nacht' from memory?" "Of course," said Mr. Barnett. "Would you?" "Yes, if you don't mind," said the Captain; "I don't often get the chance of an accompaniment nowadays." So Mr. Barnett displaced young Andrew at the piano stool, and Captain Stevens sent forth his soul in song. It was a darn good song to send forth one's soul on; and the Captain sang it very well. We felt, although we did not make the experiment, that if we had stuck a pin in the Captain while he was singing that old song he would not have noticed it. This first song only whethed the Captain's appetite; and has sang another-"Bois Epais," which, he in-forms us, means sombre woods. We are under the impression that this song, also, was very well rendered, but are not certain, bccause just in the middle the winding apparatus of young Andrew's watch came unput. and we spent many unfruitful minutes attempting to put it together again. Andrew blamed his father, and his father admitted the fault, adding that although the watch was termed boyproof it was not manproof, an attitude very strange and rare in fathers. All these things happened in the 2BL studio on a night when "Hit the Deck" was going over the air.

Australian Made

THREE announcements were made the week, showing that in the manufacture of wireless apparatus Australia can hold in own with the rest of the world.

The New Zealand Government has accepted the tender of Amalgamated Wireless for a short-wave transmitter, to be used for E This contract was game pire broadcasting. in face of competition from the whole work

It is reported also that the wireless equip ment for the Adelaide Company's new motor ship Manunda, which is now being built a the Clyde, has been made by Amalgamated Wireless, and is now on the way to Scolland to be fitted. This seems almost like carting coals to Newcastle, but the Adelaide Com-pany has had experience of Australian-mat wireless equipment, and the Australian conpany gained the contract in the face of overseas competition. The Manunda equipment will be the most modern on the Australia coast. It includes directional-finding appace tus, band repeater equipment, which enables music to be heard in every part of the supbesides valve transmitters and receivers.

It is announced also that the Public Works Department of New South Wales has decided to extend the wireless telegraphy scheme which is in use for communications over the area served by the Burrinjuck hydro electric scheme. To this end a contract for two new radio transmitters has been given to Amalgamated Wireless.

ELECTRIFYING the RADIO DEALER

Mrs. Smeebolger, well known to most of our readers as author of the Bargain Sale Five, visits the Melbourne Radio Fes. tival, accompanied by Mrs. Mahood. Our contributor, who is often heard from 3LO in talks on interior decoration, takes the woman's point of view with excellent humor.

By MARGUERITE MAHOOD

T'S quite useless saying that women don't take an interest in wireless these days. They always did. Wireless in the home would never have gone beyond the crude experimental stage but for the gentle voice of womanly encouragement, urging:--

120

"For heaven's sake, Henry, are you going to leave that mess on the dining-room table? Can't-you put ANYTHING away? And LOOK what you've done to the carpet! You're absolutely DESTROYING the furniture. Upon my word, if I'd known what a menace-you were going to make of yourself with this wireless, I'd never have allowed you to start ti? Yes, women have allowed you to start it? wireless in the Home—so much so that it was often forced to migrate to the woodshed.

The radio dealers were quick to realise this, so now, as demonstrated at the recent Melbourne Radio Festival, they make their sets all nice and tidy in dainty little boxes with instructions that they are not to be meddled with. They have transformed the loud-speaker—that aggressive horn. It was to big for the occasional table, it was not at home on the plano, on the floor it was up to be mistaken for a cuspidor, it refused to blend with any scheme of decoration—in fact, the only place it might be appropriate was on a ship's deck among the ventilator funnels, and so it was always being planted behind the sofa for appearance sake.

Now they have speakers that pretend 10 be rosebowls and soup plates and fire-screens and canary cages and lampshades and all sorts of non-committal things. And with the coming of the indoor aerial it is still easier to conceal the evidence of such domestic pests as wireless fans and silverfish. One can explain that the glittering metal tape which decorates the gasolier is part of last decorations which has been Christmas overlooked, or the electron wire festooned under the cornice is merely to break the fall of the flies when they tumble off the ceiling. No longer must we expose the shortcomings of our set when visitors brightly remark :-"I see you've got the wireless," by mumbling apologetically: "Yes, and it was lovely last week, but Henry thinks the worms must have got into the earth connection, or something; It's not working just now?"

But, of course, the greatest achievement of modern wireless is in making the set and speaker look like something else—for something that looks like something else. for something that looks like something else is the beau ideal of most home decorators. The radio dealer is a cunning fellow; he has saved his bacon by this policy of masterly camouflage. How long do you think wireless in the home would have lasted had he still permitted Henry to mass up the living-room with his nasty little coils of wire and batterles and bits and pieces? I ask you. As ever, the hand that crocks the radio rules the world. Feminine opinion in this matter, as in others, is paramount and deserves to be considered.



And who is a better representative of tem-inine opinion than my friend, Mrs. Smeeboi-ger? In the world of radio she has swept in where man has feared to tread. With the assistance of other members of the Footscrayfish Ladies' Aid Society (myself among them) she made a five-valve set THAT WORKED from parts gathered from radio junk counters, and costing in all only £1/19/113. Who, among my male readers, has done that? Certainly Mr. Smeebolger had to call in a radio expert to put in a few extra odds and ends before it did work, but, as Mrs. S. says, "Who asked him to call an expert in?" And it didn't cost Mrs. S. a penny more than the sum mentioned. So that settles that-and I do not think anyone will question our claim to be competent critics of the radio display at the Melbourne Exhibition.

The first thing that is impressed upon one in entering the exhibition is the fact that it is the day of the Electrifled Radio Set. This means that you don't have to use batteries in the set at all; there is just a string to which is attached a thing with two prongs on it, which you stick into a power point, and the set works. This is so much simpler, that it seems a pity it wasn't thought of be-fore. As Mrs. Smeebolger says, it would take a man all that time to think of a simple, labor-saving device like that. If they had only used it in the early days of wireless, it would have saved no end of trouble with accumulators and things. She says it isn't the wireless that wants electrifying so much as the people who invent it. Wireless, she says. is inclined to be selfish. All this apparatus-amplifiers and power valves and beam wireless and what-not, all for the enjoyment of some wretched little man who wants to listen to the football instead of spudding weeds out of the lawn-this mighty force should be applied to more useful ends.

The next few stands we came to displayed a remarkable lack of originality, showing nothing but wireless sets of various shapes and sizes, some resembling in form and color large madeira cakes, others week-end cases. all being more or less oblong in construction with square corners, and containing valves. At one of these stands the salesman was particularly busy descanting on the virtues of his sets, but, boiled down to essentials, they worked on just the same system as all the others. "What I should really like to see," said Mrs. Smeebolger, cutting short his explanations, "is one of those Camisole sets." "Oo-er-er!" stammered the youth in a puzzled manner. "I mean," explained Mrs. Smeebolger, with remarkable patience, "one of those sets like a linen cupboard with the

speaker inside." "Oh," said the young man, looking relieved. "You mean a console-He caught Mrs. S.'s eye, and stopped. Mrs. S. does not care to be corrected. "Pardon me, young man," she said sternly, "I think I may claim to have had more acquaintance with the article in question than you haveor should have, at any rate. But I will not bandy words. ... " and haughtily she swept out of the stand, leaving the demonstrator slowly opening and closing his mouth and blinking his eyes in a dazed manner. Mrs. S. has a way with these salesmen; she will not be imposed upon.

The battery exhibit did not interest us to any great extent until we came upon a collection of Holdem Batterles, in glass boxes, which took Mrs. Smeebolger's fancy. "I shail insist on Mr. S. using these." she exclaimed; "what nice pickle-jars they would make when he has sucked all the juice out of them with the wireless set. We may as well get something out of Henry's wireless besides the earache"-and she made a note of them in her shopping list, and salled on to the next exhibit.

This was a collection of giant valves about the size of footballs, with cucumbers attached to each end-that is, the valves didn't have cucumbers attached to each end, but they were the size that footballs would be if the footballs had cucumbers attached to each end of each football. I hope that makes my meaning clear. They were called Marcoul valves, after the man who discovered America, and they are used in transmitting messages to Japan and England, and places that cannot be reached by ordinary telephone. They strongly reininded Mrs. Smeebolger of a man she had seen playing tunes on bottles at the Aquarium; in fact, she assured me that each different sized valve had its distinctive note, and tapped one of them sharply with the tip of her umbrella to demonstrate the fact. She was proceeding to demonstrate on some of the others, when an extremely officious person, in charge of the stand, interfered in an unnecessarily excited manner. Mrs. Smeebolger, having expressed her opinion that a person of his temperamental propensities was unfit to have charge of a public display, made her exit

with dignity.

"They do hate to have their technical secrets given away." she explained to me in confidence, at we made our way through the crowd to the place where an elegant elegant' young man in glasses proclaiming RBW points of his set-its village maiden simplicity and purity, its surgeon-like ease of operation, the com-pactness of its arthe comrangement, and the knoblessness of its panel. "This Backpanel. "This Back-water Dent receiver," he orated, "answers every requirement of radio fan. the No point has been overlooked. I shall be pleased to answer

Result of the Interpretation

Competition

UT of the many hundreds of entries received in connection with the "Interpretation Competition," held at 2FC on April 18, only one person succeeded in correctly guessing the order of popularity of the performances, which was as follows :---

Brunton Gibb	(Coster).
H. W. Varna	(Englishman).
Carlton Fay	
Montgomery	Stuart (French
man).	
Lawrence Ma	acaulay (Scots

Joe Cahill (Irishman).

man).

The prize of £2 2s offered for the correct entry received goes to Mrs. E. Hergenhan, Auckland Street, Bega, South Coast.

The competition was an outstanding success, and many who had not entered the competition enjoyed the various interpretations of the performers.

any question that may be asked by those any question that may be asked by those present. . . Yes, madam," he continued, as Mrs. S., with a few deft thrusts of her elbows, forged to the front, "there is," answered Mrs. S. "I should very much like to know who made those parchment lampshades at the back of your stand. My niece, Annie

Foozle, made some almost identical with the for our church bazaar, and I suspect the there are those not above copying her ideas' The salesman stood, quite at a loss for a answer to Mrs. Smeebolger's pertinent queies, a picture, it seemed to me, of embar-assed guilt. He did not dare to internat her flow of justifiable indignation until a ill-bred person in the crowd interrupted with some trivial question, when the flurried de-monstrator seized him by the arm and dired with great velocity into the demonstration cave at the back of his stand. We waite for him for some time, but he did not a appear, though we thought we saw his fare several times peeping through the window of his cave. So, like a lioness disappointed Mrs. Smeebolger gave up her virgil and re went on.

We came upon an exhibit of valves when the exhibitor was displaying a panel @ which was mounted a valve in various stage of growth; but his fine flow of eloquence was suddenly stemmed by Mrs. Smeebolger's que tion as to whether the vacuum was put to the valve or pumped out; and if it wash definitely put in, how did they know it TH there. He just stared at us in reply. "Cart even answer a simple question," said Mm S., as she turned away impatiently. "Now, # women were running this show, they would never be at a loss for an answer, right a wrong."

The rest of the show was not particulaty interesting, consisting mainly, as I said fore, of radio sets, more or less square shape, with valves in them. On the who it was merely another exhibition of mascula inefficiency. As Mrs. Smeebolger said "Ja wait. When woman makes up her mind a give a display, then you'll see something the really is worth seeing."

Dorothy Stephens

DOROTHY STEPHENS, a dainty and rim cious entertainer, who will soon become very popular at 3AR, is well known in Stdney, especially with regard to concerts in the young folk, and is always a welcome vis-

tor to the Childrent Hospital. Miss Ste phens' popularity with the little folks in the hospitals is readily a plained when it h known that she spen a great deal of be childhood in the har pital-a bad leg keep ing her prisoner iz some years. Durg this time many artic visited the hospital and, after they be taken their departure the frank criticism p dulged in by the children (which Miss Daothy has never forme ten) was a sure adication of what the really enjoyed, and since she has blossor ed into an entertaine on her own account this is what she sought to give. Though she has studied music seriously, Miss St phens is at her best t novelty numbers, mi will sing a group that have been speciality written for her by the gifted composer, Jut Lumsdaine, who will play the accompaniments to his own compositions.

AUDITION SALON

WITH GREAT VELOCITY.

"Onward Up Shrapnel Gully"

bound for, until late on the afternoon of April 24, when we were assembled on deck and were told that early next morning we were to taste our first battle, and well I remember our grand old Colonel, with tears to use his own words, he said, "To-morrow we are to engage the Turks, and, no doubt. we shall have some very stiff fighting, but I have great faith in my men and we shall come out victorious. But many who are here now will not be with us this time to-morrow. and I advise all of you boys (for most of you are no more than boys) to write to your mothers and sweethearts who will be praying for your safety. All letters will be left on the ship and posted later. At our next muster I hope I will see all the same faces, and that my fears of heavy losses will be groundless. He wished us all good luck. We then had Divine Service, and that old hymn, "Nearer, My God, to Thee," was sung like it had never been sung before. When night fell, all lights were extinguished, and smoking on deck, or even talking, would have been one of the greatest crimes one could have committed. We were told not to get undressed, but get as much rest as possible, for orders would be given at any time to get over the side of the ship into the barges. This order came about 4.30 a.m. on the 25th.

It was an uncanny business, as there was no order given louder than a whisper, and every move was on tip-toe. as if the Turk were on the deck below. Rations had preonly riously been handed out, which consisted of about one pound of small plain biscuits, one in of bully beef, and a tin of sugar and tea. We carried a full pack, 250 rounds of ammunition, and a rifle, so, altogether, we were carrying about 80 or 90lb. on our backs.

We were then packed like sardines in the barges, which was no easy job, for we had to come down a Jacob's ladder, and to do this with our heavy packs on our backs and a rifle in one hand took a long time. Six barges were tied one behind the other, and a naval pinnace towed us in as near as possible to the shore. About fifty yards or so from the shore we met our first casualty -a shell from the Turks landed right into one of the barges, which threw pieces of wood and human beings high into the air, and the water became red with the blood of some of Australia's finest sons. This, of course, made our landing more difficult, and, in the mix-up that ensued, a number of men in the other barges were getting hit with shrapnel.

Eventually we got close enough to the shore to jump into the water, but we did not know what the bottom was like. Instead of, as we thought, being sand, it was big boulders, and very deep in some places-it came over my head, because I had jumped between two boulders. I lost my rifle, but had no difficulty in securing another on the beach, because I had no sooner stepped ashore than a signaller was shot dead just in front of me. I took his rifle and placed his flags over his face.

By this time the battle was in full swing. British, Japanese, and Russian battleships were pouring their death messages over the Turkish rifles and machine-guns were spitting death in every direction. Doctors and Army Medical Corps men were tending the wounded and improvising hospitals, which rere becoming more like butchers' shops, nava pinnaces were racing backwards and forwards to the ships with the wounded and dving, water bottles were being emptied in satisfying the craving that always follows the wound. Every few minutes was heard that dreaded half-whispered, half-spoken cry of "Stretcher-bearers wanted on the right," "Stretcher-bearers wanted on the left." Officers were becoming fewer, non-commissioned officers stepping into their places. When a non-commissioned officer fell, a private would fill his place, and so up the hill

went the first ANZAC, the sun rising, and pouring down its heat, the smell of powder, the excitement; food was forgotten-in fact. I doubt if many had food with them, because in the first rush for the hills, our packs were thrown away, and, in a great number of cases, the rations followed the packs.

At about 10 o'clock we had made some sort of order out of chaos, and were now making a more concerted attack, where, before, it was individual. Oup first prize was at Fisherman's Hut. We had seen the hut nestling in the long grass, or, rather, herbs, for Gallipoli was overrun with sage and thyme, and, hearing someone moving about inside, we all dropped to the ground and, like Indians, surrounded it. One of our men rushed at the door, which flew open and, instead of capturing perhaps the headquarters of the Turkish Army, we had taken no less than a fine lot of donkeys, the famous "Murphy" being one of that bunch.

Onward up Shrapnel Gully, in single file, with Turks on either side picking us at will, only for unevenness of the country not one of the Australian would have made the top. It is really wonderful what men can do when they are put to it. If a bullet feil short, someone would say, "You're a rotten shot; have another go," and, sure enough, he would. Anzac must have been made for the sniper, for all the hills had slits or crannies, and in these a Turk would take up his abode with, perhaps, three or four boxes of ammunition and two or three rifles, and was prepared to remain there until he was shot or captured. Some were very hard to pick up, because they were practically sewn up in greenery.

Towards the afternoon we were on the crest of the hills, and had a good view of the surrounding country, which looked more like the Hawkesbury than anything else. I think we could have had a nice picnic there, only we realised, even then, that a war was on

'Our water now was becoming a very serious question. We had drunk most of it in the forenoon, and water at that time was far more valuable than food. We had passed a small stream of water, about a foot wide and about three or four inches deep, on our way up. Four of us were told off to collect as many water-bottles as we could and go back and fill them. We found the stream, and all fell on our stomachs and drank and drank. I don't think I have ever drunk so much water in all my life. On our way back, about six yards from where we had been drinking, were about seven dead men, apparently all having been killed by the one shell, lying in the water. We reached the main body about an hour later, having lost one of the water carriers, who was killed by a spent nosecap of a shell striking him in the chest

At about 4 o'clock we were well over the hill in what seemed to me to be a ploughed paddock, and very boggy. Here we lost a great number of our men through machine-gun fire. It was then that we gave ground and got back to the crest of the hill, and consolidated our positions and made some sort of trenches with our entrenching tools. A rough muster was taken, and it was found that more than 50 per cent. of our battalion was missing. A final check was made on the Friday following, and a number of our men turned up. They had got mixed up at the landing, and had attached themselves to any battalion, but that did not lessen our casualty list to any great extent.

It was when night began to fall and our nerves began to take shape again that the reaction of that terrible day started to tell on us. To make things worse, the night was cold, and drizzling rain began to fall. The

moans of some poor fellow who had been nit. and whom it was impossible to move made than night the worst nightmare I ever want to experience. The day was bad, but the night was infinitely worse, and yet, that a man can get used to it is shown by the fact that a good number of us went through to the end of the war, and saw many a night after a battle, but the landing at Gallipoli stands out alone in my memory of the Great War.

W. D. HOUGHTON. Late 746, 4th Batt.

(Stories of Anzac,

continued from Page 3)

Third Prize

AN ANZAC STORY

WE were a small bombing party of six. of "C" Squadron, 7th A.L. Horse, in a sap connecting our front line and the Turks' front line

The sap was about 20 feet long and six feet deep, with a shelter midway of two widths of galvanised iron, overlaid with sandbags; at the other end was a hairpin curve, the sap being blocked up with a sandbag wall with a small aperture for a rifle. We dominated this vital curve, and one of our men was continuously, night and day, on guard with his rifle through the aperture, watching for Turks who might show up on the other side of the sandbag wall; this man, likewise, had his protecting roof of galvanised iron overlaid with sandbags,

The sap did not go straight forward from our front line, but ran almost parallel with it at a distance of a few feet only, but our front line was built up so that we really had a wall of earth behind us about 10 feet high. Before us, and also roughly parallel, was the trench occupied by the Turks, at a distance up to about 15 feet.

Those were the days of jam-tin bombs, and some of our party were killers and others life-savers.

Curran was our chief bomb-thrower, and how elated he was when a Turk's groans signalled that he had caused a casualty! He won the D.C.M. on this job.

The Turks, in throwing their cricket ball bombs, had two marks, the main trench and our sap, and if they hit the wall behind, well, their bombs simply rolled down among us, and, by the time they reached the ground, were ready to explode.

Our life-saving party had loosely-filled sandbags and old blankets with which to cover the Turks' bombs as they fell, with the object of extinguishing the fuse. Their job necessitated watching the Turks' bombs in the air and smothering them immediately they lobbed, but if they were to lob on the roof shelter, there was nothing to do but to rush underneath and wait until they exploded, and that would be only a few inches above us, as we had to stoop to get under the shelter. The noise of the explosion would then almost lift our heads off.

One dark night the fuse of a bomb was sighted in the air, and it hit the marapet of the trench behind us and, in rolling down the wall, was very difficult to follow

Hampson, the nearest life-saver, may have failed to follow its course to the ground or failed to completely smother it. On the other hand, it is likely that he located it by touch too late, and lay on it to save the rest of us. In any case it got him full in the abdomen, and he died almost immediately.

He was an Englishman, and had not been long in Australia, and seemed to have no friends. If any listener-in should be acquainted with his relatives. I should be glad for them to pass on the story of his brave end C. H. JONES,

Ex-Corporal, 460, 7th A.L. Horse Reg.



Mr. Albert . Cazabon.

Mr. Albert Cazabon

M.R. ALBERT CAZABON began as a child, like so many of us, in London. His rather gave him early lessons in violin playing, and afterwards he studied under Johannes Wolff, Senor Arbos, Dr. Hamilton Robinson, and Gustave Holst. We said yes; we've heard of that man somewhere? "I should think so," said Mr. Cazabon amusediy surprisedy. "I regard him as one of the greatest composers in the world." Which shows that a little knowledge in interviewers is a discomforting thing.

When he was nine years old he gave nis first concert at the Queen's Hall. Since then he has given many others, which is dry humor. He has published many pieces for the violin and orchestral works, and has written music to productions from Shakespeare to light opera, which, of course, is a very long distance, indeed; and he has conducted the London Symphony Orchestra. We mean to say.....

Eventually he took up film music, composing and conducting in London; but, in spite of his various attainments, he sticks-with the stickiness of a mid-Victorian husband to his early love, the violin;

Mr. Cazabon ślways wanted to come out to Australia, as his wife is an Australian, and had often thought of coming out here as solo violinist; but until E. J. Carroll saw him two years ago he was unable to finalise any arrangements. When he arrived Australia exercised her well-kuown charms (climate, people, and unique atmosphere in case you have forgotten), and he is quite content to remain here for many a long day to come. Certainly one would miss the dapper little figure, conducting in front of the mottling curtain of the Prince Edward.

He believes in picture theatre music. This and radio, he says, will in future share the responsibility for the musical taste of the masses. "The greatest factors in modern musical development are the chema and broadcasting. After two years' experience of Australian conditions I have no fears for the future--Australian music is potentially as good as any in the world. To give it full expression and to develop it still further the public must be kept interested in the best music, and this responsibility must be shouldered by radio broadcasting. In England the British Wireless Symphony Orchestra (which he conducted through several of his own compositions) has a permanent staff of from 35



to 40 musicians. It plays every night. The orchestra is frequently increased to about 200 performers, and gives concerts in the Albert Hall, which seats about 9000 people. As these performances are subsidised by the B.B.C., the 9000 people can get seats from one shilling to five shillings. Thus, broadcasting guarantees good music at a low price to people on the spot, and the best performances obtainable to listeners-in. Without broadcasting these things would be financially impossible I hope Australia may approach towards such conditions "

Mr. Cazabon will be heard often from 2FC in the future. He recalls that his first performance in Australia was from that station on the occasion of the great Empire broadeast, remarking, with some show of pleasure. the coincidence that his first recital should be a greeting to Home.

He tells the story of a Canadian, who complimented him on his virtuosity with the violin. "Til say, guy." said the flatterer. "that fiddle of yours is as good as a saxaphone."

Miss Dagmar Roberts

WHAT is the Emperor Concerto? The Emperor Concerto is what Miss Dagmar Roberts played with both hands, by ear, at the age of three. Thus does great music at last find recognition. But the conversation should turn on Miss Dagmar Roberts; so we have begun badly. Another paragraph is clearly indicated. It follows:

When she was five, Miss Roberts was reading music properly. Her first lessons were from Mr. J. W. E. Pople, of the Redfern Conservatorium of Music, and continued until she went to the Sydney Conservatorium



Miss Dagmar Roberts.

of Music, where she studied under Mr. Law ence Godfrey Smith. But we must not for that Mr. Gode taught her the violin for n year, when she was nine years old, althought the violin was dropped in favor of the parwhich better suits Miss Roberts' temperment.

Twenty medals and a couple of scholard are hers, and the first time the board an a £50 prize it gave that prize to Miss Rober Also, Miss Roberts may, when she was put the letters A.M.E.V. (Con.) after in name. She holds Performance and Teak diplomas, and has played at hundreds of an certs, won in the Radio Eisteddod plander section, and Ignace Friedmann head a play the Ohromatic Fratasy, and space statically in German with Mr. Smith.

Last year Miss Roberts gave her firs a recital at the Conservatorium, and appear in the Girls' Week concert at the Town and When you consider that she is not yet mey years old, you may understand why erapm expects to hear a good deal more about he At present she is studying with Mr. Alexand Sverjensky.

Miss Roberts wishes to go to Leipa; m thence to Vienna, and thence to the warm accepted places to study and give reach and there may be an Australian tour any year. Her very extra favorite compose Brahms, whose Sonata (Op. 5) she play with great success at one of her comm And she is very fond of Schumann un Chopin.

But music is only one thing. Miss Roem nobbles include swimming, surfug, as yachting, and she is rather keen on dank although many invitations must be thruregretfully under the concert platform. The her mother, Mrs. J. Waller Roberts, produce plays for the Roseville Amateur Dramu-Society, and Miss Roberts enjoys acting is though she prefers humorous character pai in straight drama to musical comedy.

Finally, Miss Roberts reads tremendour Jules Verne, Rath, Victor Hugo, us someone who wrote "Typhoon," are her faorites, and occasionally she takes up her pa to write. As follows:--

PADEREWSKI

(By MISS DAGMAR ROBERTS.)

Great surging waves of overwhelming coal Impassioned notes that kindle ecslay, The stormy mood of windswept earth su sky,

And thund'ring sea.

Then melodies of such suces poignancy That in those slender fingers-thus a secons-

Lie all the sorrows of this world of our And all the dreams.

Soft lilting tunes that quicken memories. Recalling childhood's laughter-lighteen years;

Cascades of liquid sound like scattered pearls,

Or falling tears.

High Quality AMPLIFICATION

overworked, it will be the power stage. A very satis T is desirable to design the earlier stages of a power amplifier with ample margin so that if any valve is factory indicator to show when the intensity exceeds the straight line capacity of the amplifier, consists in a milliameter in the grid circuit and a meter in the plate circuit. If the grid swings positive with respect to the filament, the grid meter will kick and perhaps the plate meter also, while too great a negative swing will cause a kick on the plate meter. Careful listening will reveal an impairment of quality which disappears as soon as the intensity is reduced to a point where the meters cause to show disurbance.

Listening alone is not a satisfactory substitute since the distortion is not so quickly or surely noticed, particularly in view of fatigue of attention, and if distortion is noticed, its origin might be elsewhere in the system.

The increased output from a power amplifier, obtained by adding power valves in multiple, is often disappointing, the gain being slow compared with that which can be accomplished with increased voltage, or with valves of higher rating. However, there are cases in which it is desirable to use several valves in multiple. With the load impedance already several times the valve resistance, which is the proper relation for maximum output, the addition of a second valve in multiple with the first would not give a perceptible increase in ontput. But if the load impedance is readjusted to half the previous value, twice the power output can be obtained, corresponding to about 40 per cent. increase in sound amplitude, which is a noticeable but not a striking difference.

When several valves are connected in multiple, they may form an oscillating system, and fill the valves with high frequency oscillations. This is less likely to occur if the connecting wires are made very short, but with high power valves, it is frequently necessary to employ some means of stopping the parasitic oscillations, such as an individual resistance or choke connected in series close to the grid of each valve. A few turns of wire on a small solid iron core will suffice, since such a choke introduces a high effective resistance at the extremely high frequeneies concerned.

With a supply of high voltage available, such as is necessary for power valves, the design of the preceding amplifier stage is simple. Resistance-capacity coupling can be used with sufficiently high plate resistance to obtain three-fourths or four-fifths of the full amplification of the ralve. Under these circumstances, and with high amplification valves available, there would be little argument for transformer coupling. In designing a resistancecapacity coupled amplifier, the following points must be kept in mind :--

1. The reactance of the coupling condenser at the lowest frequency to be passed must be less than the grid leak resistance. By RAY ALLSOP (Associate Technical Editor) Mr. Allsop, who is also Chief Engineer of 2BL, continues his series on Broadcasting

2. No grid should swing positive with respect to the negative end of the filament, or, in other words, the grid hias must be greater than the extreme grid swing required.

3. If the expected swing in plate potential of any valve is more than 20 per cent. of the average voltage on the plate, or if the plate current is very small, the dynamic characteristic should be worked out to make sure of constant proportionality between plate and grid voltage swings. The load resistance is that of the plategrid resistance and the grid leak of the next tube in multiple.

4. If a hattery of power tubes in multiple is employed, so that the grids constitute a considerable capacity load, or if any of the earlier valves have very high internal resistance, or are fed through very high plate resistances, calculation should be made of the magnitude of the capacity load at the highest frequency which the amplifier must handle. Owing to the simultaneous swinging of the plate potential, the effective capacity of a valve-grid may be several times the grid capacity as measured with plate and filament grounded.

The capacity reactance of the grid must be high compared with both the internal and external plate resistance of the previous valve, otherwise distortion may result, either because of reduced amplification of the high frequencies, or because the actual dynamic characterístic is steeper than estimated (lower impedance load), with resulting curvature

With a common source of plate voltage for all of the tubes of a multi-stage amplifier, back coupling with consequent oscillations may occur through the plate supply line, if there is enough resistance in the supply so that the power stage plate supply current affects the voltage of the supply line materially. If such back-coupling occurs, the cure may be to secure a lower resistance supply or to reduce the variations in the voltage fed to the earlier valves, particularly the second valve preceding the power valves, by filters or potentiometer connections. The filters, if of series resistance and shunt capacity, must be effective at as low a frequency as the lowest at which approciable amplification takes place. Therefore, the filtering is simplified by designing the amplifier not to pass any frequencies lower than really required.

To obtain a given voltage swing on the grid of the power valve may be easier with resistance connection than with an inter-stage transformer, in spite of the stepup ratio of the transformer. This is because even the best designed transformers drop to an impedance comparable with the valve resistance at high frequency owing to capacity on the secondary sile, and at low frequency owing to magnetising current. This low impedance load on the valve may greatly reduce the plate voltage swing obtainable without distortion.



Dismal Desmond.

"Dizzy" Back Again

DISMAL DESMOND," better known to his friends as "Dizzy" and to his acquaintances as G. W. Desmond, originally came to Australia with the famous Sydney "Strollers." For many years he toured with his own companies, but for some time now he has been working in vaudeville. "Dizzy" is a muchtravelled man, and the fund of funny stories he has picked up in his wanderings make laughable listening for wireless enthusiasts. His first trip was to South Africa in 1906, and his last, starting from Perth (W.A.), took four years to complete. He visited Java. Straits Settlements, Federated Malay States, Borneo, Sumatra, Burma, Siam, India, Ceylon, Portuguese East Africa, Rhodesia, British East Africa, and the Belgian Congo. He eventually returned to London, and toured for Jack Waller, who was here a few years ago, and is now one of the leading theatrical managers in England. But the call of the sunshine was too strong for our genial friend, and he is now back in Sydney—his favorite city "next to London," as he expresses it and he has already renewed old acquaintances with 2FC listeners. The opinion of one radio fan from Thirroul, "We all think you are A.1," is a fair estimate of the general regard in which he is held.

Ernest M'Kinlay

RNEST M'KINLAY, the well-known tenor, is back in Sydney again, after adding considerably to his reputation abroad. Ellen Terry it was who advised him to go to the Continent to study, but first of all he went to France for a grimmer purpose, where he erved for four years with the New Zealand Division. After the battle of the Somme, he had time to combine art and soldiering, and joined up with the N.Z. "Kiwis," a show which many thousands of "Aussies" came miles to see. "We did our best work in Nieppe in 1917," said Mr. M'Kinlay, "and later at Dickebusche, near Ypres, where we pro-duced the pantomime, 'Achi Baba and the Forty Thieves.' We went to Paris twice, and with this pantomime made £400.in one afternoon at the Alhambra Theatre. Another suc-cess was the revue, "Y Go Crook?" produced at Etaples in 1918, which we also repeated in Paris.

Mr. M'Kinlay had several years' tuition with Plunkett Greene, in London. After his return to New Zealand in 1919 he spent a year in hospital, and his first serious work was "Hiawatha;" with the Auckland Choral Society, in 1921. Since then he has excelled

The MICROPHON

AT 2FC: Kurri Kurri Eisteddfod, "Peter Pan," Sydney Madrigal Society Con certy AT 2BL: Classic Hour, Sydney Calland, Bridge Opening,

in oratorio, and last year toured most successfully with the Westminster Glee Singers, with whom he did 177 concerts. Fortunately for us, the rigors of the Canadian winter forced him back to Australian sunshine, "which is the real thing," Mr. M'Kinlay enthusiastically acknowledges. 2FC have arranged a number of appearances, and he is singing on the evening of May 10.

George's River Bridge

THE OFFICIAL OPENING of the George's River Bridge is to be undertaken by 2BL service on the afternoon of May 11. The ceremony will commence at 3 o'clock.

Kurri Kurri Eisteddfod

THE FINAL CONCERT of the Kurri Kurri Eisteddfod will be broadcast by 2FC on the evening of May 11. The work of the competitors is of a high standard, and the eveaing's entertainment should prove very acceptable to listeners. On Sunday night a concert from the King's Theatre, Kurri Kurri, will be broadcast through 2BL.

"Peter Pan"

BARRIE'S WHIMSICAL PLAY, "Perer Pan," is to be produced by Gertrude Boswell at 2FC studios on Monday night, May 13. One of the few works of its kind which never loses its freshness, there will be many listeners who will eagerly anticipate the production.

O. Henry

C. N. BAEYERTZ is giving a very interesting series of talks through 2BL service. On Monday night, May 13, his subject, under the heading, "Great Writers I Have Met," is O. Henry. It is no exaggeration to say a greater writer of short stories never lived, and Mr. Baeyertz's personal knowledge of O. Henry, of whom the man in the street knows comparatively nothing, should make a wide appeal to his admirers.

Novelty

WILL AND BARBARA JAMES, novelty instrumentalists, are in Sydney for a short season, and will delight 2BL listeners with the many innovations they have introduced into their programme for Monday night, May 13. They will appear on Wednesday, Thursday, and Saturday of that week.

Classic Hour

THE CONSERVATORIUM STRING QUAR TET have arranged a classic hour for 2BL listeners on Tuesday night, May 14, and with them will be associated Yvonne and Nino Marotta, of the late Williamson-Melba Grand Opera Company.

Travelogue

THE SYDNEY MADRIGAL SOCIETY'S ^L CONCERT, to be held at the Conserva-torium on the evening of Wednesday, May 15, will be broadcast through 2FC service. The work of this body is always welcome. Good choral music provides a pleasing interlude in the usual broadcasting programme, and the concert on Wednesday will prove no exception to their usual high standard. During the interval, Mr. C. Price Conigrave will give an Australian travelogue from the studio.

Latest Song Hits

JOHN HOBBS, whose fine baritone rate has made him a great favorite with is teners, will be heard from 3LO on May 1, a some of the latest songs just to hand from overseas.

Famous Blind Pianist

CLEORGE FINDLAY, the blind young Me bourne planist, who is so firmly established as a favorite with the concert and is tening public of Melbourne, will give a recis of Russian works from 3AR on May 5. The programme has been thoughtfully selected and will include excerpts from the works Godowski, Rachmaninoff, and Levitsky

Kingsley Parkes

KINGSLEY PARKES, who has been ass ciated with the Strad Trio in some m cellent broadcasting programmes, will a heard from 3AR on May 5 in a short was recital, which will include Beethoven's dame "Minuette."

A Talk on Gallipoli

A TALK will be given from 3AR on May by Mr. H. H. Harmon, the manager the Welfare Travel Department of Bra Philp, who will speak on "Gallipoli" u Harmon has travelled extensively through in ferritory about which he will speak, and a graphic word picture of the district shake commend the attention of listeners, espe-ally at the present time, when "Anzar's the uppermost thought in the minds of man thousands.

Sydney Calland

YDNEY CALLAND is back in Sydney after a long and successful tour with Union Theatres, Ltd. He is singing at 2BL on Wednesday night, May

Light Comedy Music A N attractive programme of light max will be given from 3AR on May 11 by the station orchestra, under the direction Frederick Hall. Overtures of some of the musical comedies that were so popular a fer years ago have been selected, and a vie years ago have been selected, and a re-circle of listeners will enjoy the melous "Miss Hook of Holland," "The Gyps pra-cess," and "Two Little Girls in Blue," To ballet suite from "Henry VIII." is also cluded, and the orchestral items will be p-composed with years ago to the set that the set of the composed with years ago to the set that the set of the set of the destination of the set of th terspersed with vocal gems from the operation

Thelma Ready

THELMA READY and her banjo are always popular visitors to the broadcasting stadio, and will be on the air from 3AR on May Miss Ready is too well known to listened 6. to require any further introduction, while with her band she is a feature of the date and entertainment world of Melbourne.

PRESENTS

AT 3LO: Schubert and Elgar music, "Out.back" programme, Bird Talk. At 3AR: History of Hymns. Blind Pianist, Light Comedy.

Boat Race

THOUSANDS of rowing enthusiasts will welcome the news that arrangements have now been completed by 3LO to broadcast descriptions of the Victorian Public Schools' boat race on May 10 and 11.

New Zealand Singer

TULIA RUSSELL, the favorite New Zealand soprano, is always a welcome visitor to 3LO, and will be broadcasting on May 6. She is a past graduate of the Conserratorium, and is well known in the New Zealand concert world, and, since coming to Australia, has become most popular in musical circles.

Russell Callow

A FTER a considerable absence from the broadcasting world, Russell Callow, the

at 3LO for a short season. As is generally known, Mr. Callow comes of a musical family, and owes much of his success to his mother, Madame Violet Callow, of Adelaide, who trained him from boyhood. His remarkable voice gained him early recognition, for at the age of 12 he was a fully developed baritone, and as such sang at the Adelaide Peace Exhibition. He was but 15 when he



Russell Callow.

ang in the chorus of "The Little Dutch Girl" and "The Firefly," and has also ap-Girl' and "Ine Fireny," and has also ap-peared with Maurice Muscovitch in "The Merchant of Venice." At present he is ap-pearing with "The Vagabond King" Company, and dividing his spare time between concert stage and the broadcasting studio.

Bird Talks

THE "bird talks" given by Dr. Leach from 3LO are of intense interest to naturalists of all ages, and appreciative letters often come to hand from the most unexpected sources. For his talk on May 11 Dr. Leach will take the field wren and field larks two familiar little fellows with fascinating habits.

An "Out-back" Programme

A NOVEL and musical dramatic programme will be given from 3LO on May synthe should greatly appeal to country listeners. The scene is laid in a shearers' hut, the time is in the evening, and the place is the "back of beyond." The central figure is the popular raconteur, Captain Donaid MacLean, and several well-known artists will take part. in the singing of time-honored songs and choruses. The true shearing shed atmosphere will be maintained, some clever mouth organ solos will be contributed, and the studio kookaburra, parrot, and dog, are in active rehearsal, so that they will be quite ready to perform their parts when called upon.

The Sighing Serenader

ACK HOCKING the popular planist and

entertainer, is making a welcome return visit to 3LO on May 7, when he will be heard in a budget of new songs and old favorites. Billed as "The Sighing Serenader," Mr. Hocking has successfuly sung his way through West Australia and Tasmania, broadcasting en route, and so popular was he in "the apple isle" that on one occasion his weekly post bag reached 150 letters, one coming from far-away Broome saying that every word had come through as clear as a bell. Mr. Hocking is a planist of more than usual ability, has a pleasing baritone voice, excellent enunciation, and a saving sense of humor that enables him to handle a comedy number in just the right spirit.

Citrus Preserves

HOUSEWIVES who are turning their attention towards the replenishing of their store cupboards, should not forget to tune in to the talk to be given on May 10 by Miss Knight, the fruit preserving expert to the Department of Agriculture, who will give a talk on citrus preserves.

Grading and Packing Tobacco

INDER the auspices of the Department of Agriculture, Mr. T. A. J. Smith, tobacco expert, will give a talk from 3LO on May 6 on "Grading and Packing Tobacco."

Community Singing

UNDER the auspices of, and to aid the Col-

lingwood Free Kindergarten Association, a fine community singing programme has been arranged for May 10, and will be held in the Collingwood Town Hall. Ern Hall, with his Radio Revellers, also Hugh Huxham, with his Dancing Peaches, will entertain, while individual artists include the popular baritone, J. Alexander Browne. The cause is one to be highly commended, a "full house" is expected, and listeners may anticipate a thoroughly enjoyable time.



Ina Mornment, pianist, who will be heard in a series of recitals from \$LO, Melbourne, early in May. Miss Mornment will play a number of her own works.



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Madame Ella Kingston.

Gems From Schubert and Elgar

MADAME ELLA KINGSTON, whose vocal recitals are always enjoyed by musical listeners, will be broadcasting from 3LO on in some geins fom Schubert and May 5, Elgar. Madame Kingston is a gifted artist, and, when her musical education was being discussed, it was undecided whether the piano or voice should be considered. However, on the advice of several critics who heard her sing at the Norwich Festival, she commenced her vocal training, and, as an oratorio soloist, has sung at all the important musical festivals in England. She is well known to Australian audiences, and never fails to please.

The History of Familiar Hymns A MOST interesting talk will be given from A MOST interesting taik will be given from 3AR on May 5 by Mr. J. Howlett Ross, who will give the history of some of the old familiar hymns, among which will be in-cluded "The Ninety and Nine" and "Onward, Christian Soldiers." All the favorite hymns that have stood the test of time, and are sung wherever the English language is spoken have a significant history connected with their composition, and a knowledge of the circumstances enhances the beauty of the words and the joy of singing. The talk will be illustrated by the Smith Girls, who will sing the various hymns included in the talk.

Grandfather Ray

THERE is an interesting sequel attached to the talk on "John Ray, F.R.S., a Nature Student of the 17th Century," given by Mr. F. Chapman on April 6. Mr. Chapman re-ceived a letter from a descendant of this gifted naturalist, who is now living in Melbourne, and who said that much of the in-formation broadcast was quite familiar to members of the family, but there were a members of the family, but there were a number of facts that were quite new. The letter concluded by saying: "Two, at least, of the present generation, have a very de-cided love of botany, which is always attri-buted to the far-off influence of "Grand-father Ray."

The Vagabond King

ON May 11 the first act of the romantic musical play, "The Vagabond King" will be transmitted by 3LO, followed by the scond act from SAR.



Incorporating "Radio in Australia and New Zealand."

FRIDAY, MAY 3, 1939.

PROGRAMME TENDERS

FTER many delays, contradictions, and hesitation, the Government has issued its specifications for the tendering of radio broadcast protrainmes. For months the public has been in a quandary as to what was going to happen, and the whole radio trade has felt the lack of definite action on the part of the Government.

The tender forms have apparently been released in Melbourne earlier than in Sydney; for, as we go to press, our only knowledge of the details is derived from a Melbourne source. However, a day or so in either capital is probably regarded as neither here nor there by Mr. Bruce, as the tenderers have all of three weeks in which to complete their tendering arrangements. Mr. Bruce, who undoubtedly knows all there is to know about copyright and programme arrangements generally, and who probably dismisses the hundreds of thousands of pounds involved as a mere consideration, may believe that three weeks is ample time, but to those who might have to bear the brunt of what subsequently proved a bad tender, it seems hopelessly inadequate. Mr. Bruce's position in the event of no tenders having been received within this time will be a difficult, if typical, one.

A less serious side of the tender requirements is the clause, "stipulating that the successful tenderer shall endeavor to cultivate a public desire for the transmission of educational items, musical items of merit, and generally for all items and subjects which tend to elevate the mind"—a clause providing against "monotony and the tedious repetition of items, and the prolonged use of an artist in a particular State," and the constitution of the Postmaster-General as a kind of censor, dispenser of motherly advice, and dictator of what shall be broadcast, at the tendering company's own expense.

Boiled down—what does such clause mean? Any reader could have made such stipulations in an absent-minded fit after reading our Safety Valve column. The implication of "high-brow" requirements will probably alarm many. But the real question is—Will we see finality in broadcast programme arrangements, will we see it soon, and will such a last be better than its first?

The Psychology of Broadcasting

ROM the pinnacle of popularity of wireless broadcasting in Victoria one can look back in wonder upon its remark-

able development since its inception in Australia about five years ago. Beset in the beginning with the problem of supplying programmes to an audience which was then a doubtful potentiality 3LO realised that in order to entice people to listen-in it was and s always necessary to provide something worth listening to. As a genesis to serious broadcasting in Victoria grand opera, with Dame Nellie Melba in the role of Mimi in "La Boheme" was selected. Radio dealers will recollect the satisfactory results in trade of the announcement to this effect. Listening. in sprang immediately into popular favor, and the issue of licenses has increased rapidly and consistently ever since, until now 3LO is the most listened to station in the world in proportion to population. This is not supposition, but is based upon the fact that according to official statistics the quota of licenses per one hundred of population in Victoria is by far the highest in the world. There are nearly as many licenses in Vic-toria alone as in all the other States of the Commonwealth together.

For this extraordinary position of wireless in Victoria there must be a reason. The success of any form of entertainment depends upon definite psychological principles, and it does not matter how perfect technically a programme may be, if it is not to the liking of the public, then assuredly it will be a failure from the point of view of popularity. There are two extreme classes of listeners the so-called "highbrow" and the "lowbrow." The orie is deadly anathema to the other. Fortunately, however, neither represents a very considerable number of license holders, but in between them there is the huge army of enthusiastic and satisfied listeners who are reasonable in their requirements, and with whom wireless broadcasting has become an indispensable service, and in many case of isolation and illness a veritable godsend.

Nevertheless, in supplying broadcast prograinmes all classes must be considered and catered for, and it is surprising how very poular old classical music is becoming, and we versely how many "highbrows" are beginning to "discover" melody in some of the moder jazz numbers.

Tschaikowsky, Bach, Wagner, Mozar, Chpin, Mendelssohn, Schubert, and other gree composers are listened to more now the ever before and the lovers of Jazz are de manding more melody and symphony in the syncopations. Many claim that by bruscasting listeners are able to discriminate me values, with the result that recently there has been observed a decided tendency to refinement in musical taste—a departure from the post-war barbaric influences which had such a revolutionary effect upon dance must throughout the world.

In preparing their programmes serenweeks ahead the directors of 3LO have studie closely and with great success the psychology of listening in, and they have learned in the hard school of experience what we please the big majority of listeners-in. Ou hears criticism, of course, and there has be much written about programmes by person who have not the faintest ides of the rquirements and the difficulties, but in spic of all this the big army of satisfied listens from whom we seldom hear continues to grow and the world's record quota of lieness a Victoria continues month by month to crease. This is surely an indication that in old maxim applies: "The proof of the paiding is in the eating thereof."





Vore Relays

Dear Sir.-The point I wish to emphasise is-why not more relays? The question of relays is a very important one. No doubt, many listeners have from time to time heard, through the medium of the local stations, PH1 and 5SW. These two stations provide excellent programmes on their short wavelengths, and only those people of an experimental turn of mind, and with a receiver specially built for the purpose, are able to receive them. The other morning I heard from 2BL a portion of the previous evening's programme from 2LO, London; needless to sy, it was very good, indeed. Indeed, I am a low-wave fan myself, and 1

have heard programmes from London and America which were more than fit to relay. The best American received here, at this time of the year, is KGO, California, and the programmes are certainly well worth while, besides static is not as prevalent as it was a few months ago. England, 58W, is putting over the "goods" on 25 metres, and is absointely static free on most mornings.

There are at least two stations we could hear from 2BL during its early morning sessions, and I feel sure that listeners would be than pleased with their programmes more write in and give your opinions.-Yours, etc., MICRO WATT Alexandria.

Country Dance Programmes

Dear Sir,-I wish to make a suggestion rerarding broadcasting programmes, and trust that should you agree with me you will endeavor to have it put into effect.

Country listeners would, I think, be more than pleased if one of the "A" stations put over the air dance music from 8 p.m. to 11.30 -say, once a fortnight during the winter months. If listeners knew for certain that dance music would be played on certain dates, they could make their arrangements beforehand.

I have here an 8-valve Udisco, and it would give pleasure to many if dances could be arranged in the local hall. 2FC and 4QG are the stations which come in best on my set. using a loop aerial.-Yours, etc.,

Nambucca Heads. K.G.M.B.

News Sessions

Dear Sir,-The best station in this locality for daylight reception is 2BL. The daily sessions most appreciated by me-and I feel by thousands of other country listeners as well-are the news sessions, but these, to a great extent, are marred by (a) Unpunctuality, (b) Waste of time by mixing personal explanations with news.

I am sure that many country listeners only use their sets during the day for news, and possibly you can imagine how disappointing it is to rush in from work, switch on the wireless at the published time, and get something else, not knowing whether it is just over or coming in one minute or ten. Anyhow. you can't wait, so you give up in disgust. Imagine this during the last fortnight, when the fate of the Southern Cross was unknown.

Readers are urged to express their opinions on matters pertaining to broadcasting. If you have some grievance, if you have some constructive criticism to offer, here is vour chance for expression-your safety valve. The editor assumes no responsibility for statements made by readers and published on this page, as opinions of correspondents do not represent our editorial policies or beliefs. Anonymous letters are not considered

I am sure that thousands were often disappointed.

With all humility to the management of 2BL. I would say, please :--

1. Commence the news sessions punctually at the time published.

2. Give news direct from paper without any personal explanations. which often waste time

3. If 1 and 2 are impracticable, give us a news session at night-say. 9 o'clock or 10 o'clock.

4. Return to 8.15 for morning news, if possible.--Yours. etc.,

Bodalla. COUNTRY LISTENER.

Orchestra Incomplete Without Banjo

Dear Sir,-Reading in "Safety Valve Lewis Hazell's somewhat rambling criticism of J. J. Vincent's love of the banjo, I would like to say something to Mr. Hazell.

In his letter he never stated his preference as to musical instruments, but if his love of music is as highly-developed as his criticising abilities, I should think his favorite instrument is a 1/3 mouth organ.

Of course, there is a time and place for musical instruments, as well as everything else. I think that no orchestra is complete without a banjo, and as an accompanist for a snappy song nothing could be better. On the other hand, one could hardly imagine it accompanying anything classical. As regards his apparent abhorrence for descriptions of horse races, I suggest that, whilst these are being given, he produce his mouth organ and some real music (?), and not interfere with the enjoyment of thousands of lovers of a good horse race-the Sport of the Kings. am surprised at Mr. Vincent thinking that Mr. Hazell was an old man; I thought, before reading half his letter, that one of Uncle Bas's letters had sneaked into "Safety Valve" by mistake .- Yours, etc., Dubbo.

L.E.B.

Bridges Ahead

Dear Sir,-When you have a grouch against any public service or institution write to dis press: when satisfied you do not take up tag space usually occupied by grumblers. That, to me, appears to be the attitude of most of those who get into the Safety Valve.

But I, for one, have no grouch against this particular public service, i.e., broadcasting. Quite the reverse, and I am a real back-block, although 500 miles approximately is the air line to the six "A" class stations. Of course, there are at times items in the programmes which do not appeal to one; but I do not overlook my neighbor next door (40 miles away). His tastes probably differ to mine:

Now this is the point. The man nearest to all the pleasures, or most of them, appears to be the grumbler, and the least tolerant. This man's outlay is usually a great deal less than the countryman's, when it comes to installing a receiving set. I think that managers generally are to be complimented upon their programmes.

2FC carries out a splendid idea over important events of which later news is to be given. They state the time when the next message or announcement is to be made. 5CL has good evening news items. If 3LO gave a little more news at night it would be appreciated. The daylight reception, frequently not good out back, hence the suggestion.

One is frequently told that licenses in the metropolitan areas in proportion outnumber the country licenses. Perhaps they do. Cost plays its part, but in my opinion radio in the country is a permanent thing—a necessity, in fact—whilst in the city it is more or less a novelty. I know folks who only use their sets on their neighbors when there is nothing else to do, or place to go. Therefore, I contend that managers and the directors of the companies should at all time be mindful of the countrymen's requirements.

I understand that there is still a chance of the Government taking over the "A" class stations. Well, that is something to think over for anyone who contemplates buying an expensive receiver. If the Government an-terprise in the past is any criterion of its enterprise in the future, well, this one voter opimes that broadcasting will go to the pack. I imagine the Nationalists in power. Guesa most of the time would be taken up describing the movements of the Prime Minister or his Treasurer; on the other hand, Labor in power, not only would its leader get his share of publicity, but then there would be all those Trades Hall officials, etc. ad lib., 'nuff sed!

U.S.A. finds its present arrangement O.K. Evidently Britain ditto. Why does Australia wish to experiment? Of course, 4QG is Government controlled, but then it has to keep up to the mark by working on the lines of its contemporaries. Well, "don't cross your bridges before you come to them" is a good ldea, so I intend to continue enjoying the excellent programmes provided by both "A" and B" stations when I can get 'em.-Yours, etc., Farina, Q'land. "QUAKOO."

Programme Standard Will Not Drop

The last programmes will be good programmes. That is the definite decision of the N.S.W. Broadcasting Co., now drawing towards the close of their broadcasting license. That the programme standard of the past will not drop in the last few months is shown by the formidable list of new features below.

HE New South Wales Broadcasting Company, through their stations, 2FC and 2BL, have arranged some very important broadcasting between now and the expiration of their license in July. Undeterred by the knowledge that their

activities will cease when the licenses of 2BL and 2FC expire next July, they have gone vigniously ahead to secure as much valuable material as possible.

The outstanding feature in May is, course, the great Radio and Electrical Exhibition in the Sydney Town Hall, from May 1 to May 11. The company has to provide 20 separate programmes, all of which will be performed on the platform of the Town Hall and broadcast from there. A galaxy of talent is awaiting the patrons of the exhibibition, and as arrangements have been made to install loud speakers right throughout the Town Hall it will be possible for every member of the audience to enjoy the various items.

COUNTRY CONCERTS

Following the desire to open up as many country centres as possible to the wonders of wireless, a number of entertainments have been arranged which will be broadcast from country centres. Following on the concert in aid of the Wollongong Hospital, which will Following on the concert be broadcast from that town on April 29, a Sunday night programme is set down for May 5 from the Trades Hall, Lithgow; the profits are in aid of some worthy local charity, and 2FC will be entrusted with the broadcasting. Then, on May 7, the same station will broadcast the concert by the Goulburn Choral Society, and the well-known Sydney planist, Alexander Sverjensky, has been en-gaged for this evening. On May 11 the finalists in the Kurri Kurri Elsteddfod will be heard, and the choral competitions at this eisteddfod always bring forward a number of very fine choirs, so that this programme should be appreciated. On the following might a sacred concert from the King's Theatre, Kurri Kurri, will be transmitted.

STUDIO PRODUCTIONS.

Following the success of the studio pro-ductions of "Maritana," "The Bohemian Girl," "Les Cloches de Corneville," "The Geisha," "The Arcadians," "Floradora," and many other well-known and popular comic operas, arrangements have been made for a studio production of "Paul Jones," conducted by Leo Packer, and the first act of "II Trovas trore." by Harry Sherlock and Madame Emily Marks. These are set down for May 27 and June 3 respectively. These studio productions entail a lot of work. There is These studio producchorus to be rehearsed, an orchestra, and the various principals, and the careful way in which these producers have taken on the ardnous task is rewarded in the smooth-running productions which have been a feature of both 2FC and 2BL during the last few months.

CLASSICAL PROGRAMMES The two Sydney "A" class stations have. since January, been carrying out their some-what daring scheme of presenting regular weekly classical programmes. No other stations have embarked on such an arduous scheme, but through careful co-ordination it has been made perfectly clear to listeners that when one station is devoting the whole evening to a highbrow programme the other station is sending forth items of a more popular nature, acceptable to the majority of listeners. It is common knowledge in broadcasting circles that lovers of classical music are very slow in acknowledging the pleasure that these programmes give to them. Transmit a steel guitar solo, and a hundred appre-

ciative letters rush in; put over a humorous sketch, and from all quarters come congratulations; but give up serious thought to rehearsals and pay high fees to our leading professors of music to present the best they have to offer, and a broadcasting station feels rewarded if two or three comments in appreciation are received. From now to the end of June every Wednesday night 2FC will continue with classical programmes, and on Tuesday night 2BL will present their classical programmes, with alternating popular programmes from the other station. In addition to these classical programmes lovers of good music will welcome the orchestral concert to be given in Sydney on the evening of May 5. when the Polish Association-to commemorate their national anniversary-will present a very fine concert. The Rose Bay Music Club promises special features of importance on the evening of May 21, and the Welsh Choral Society on June 8, from the Conservatorium, will broadcast, for the first time, "The Banner of St. George."

STUDIO PLAYS.

Arrangements have been completed for

productions for the first time on the air a scenes from "Otello," Barry's "Peter Par" and Maeterlinck's "Bluebird," Miss Stenham Deste has been entrusted with the produc tion of "Otello," and she will also do some excerpts on Sunday night from Shakespear Miss Gertrude Boswell, recently returned from America, where she has been plann with Guy Bates Post, will be given the production of "Peter Pan" and the "Bluebird"

APPRECIATION OF GOOD MUSIC

A listener from Quirindi writes as follow to the manager of the New South Wale Broadcasting Company:-

"I wish to congratulate you on your enerprise and foresight in engaging some of Sysney's leading musicians to interpret reputite music with intelligence and artistry. It is a boon, especially to country folk, to be any to listen to good music as we have of in My only regret is that the intervals between them are so lengthy. I hope that in the new future you will be able to arrange more programmes, such as these excellent musicing have given us lately."

SESSIONAL NEWS

Mr. Norman's Session

FROM six hundred to seven hundred boys accompanied Mr. Norman on his Garden Island trip, which lasted from 9.30 to 11.45 on Saturday week. The authorities provided a guide; and the company inspected the island-the turbine, moulding, blacksmiths', boilermakers', electrical, and torpedo shops, the semaphore mast (the semaphore went mad for half an hour), and the transmitting station; and saw all the island's curiosities and antiques. Mr. Norman was exceptionally pleased with the behaviour of his. charges, whose interest was keen.

It has been arranged that a party shall visit Leyland's motor works on May 11. Many among Mr. Norman's listeners have shown anxiety to see motor-cars in the course of assembly. The meeting-place is the park in Australia Street, Camperdown, opposite Levland's motor works, at 9.30 a.m. Essays will be invited from the visitors, and prizes given.

Arrangements are complete for a weekly Boy Scout Session from 2BL. The Governor will open this session, and the Hon Chief Commissioner, Mr. Trenchard Miller, will talk to his Legions. A troop of Boy Scouts will be at the studio to give a war cry, which has never yet been broadcast. session should prove one of the most useful and interesting in the history of Australian broadcasting. It will enable the association to keep in constant touch with its members. Talks will be given from time to time by the Deputy-Camp Chief, Mr. Hartley MacAl-lister, who will detail coming events. It will

show boy listeners what the Scout Association stands for. And, as Mr. Norman puts it, the session will bring before the public the fac that "a boy in the bush is worth two in the gutter."

Miss Gwen Varley's Session

INDOOR clubs for winter afternoons have

been considered by the 2BL Women Amateur Sports Association Committee. Ma Varley's suggestion of bridge and handima classes has been hailed with enthusiasm by many listeners. As a result a Bridge Con has been formed, with a membership d forty-six. The club meets every Wednesday afternoon, from 2.30 to 5 p.m., at 11 Rose Street. The services of five profession. bridge teachers have been secured, and classes for beginners and improvers are in full swing. The fee is ten shillings per month Afternoon tea, served during the play, bein to make the meetings sociable.

Handicraft and needlecraft classes have been formed, and meet on Friday afternoon Mrs. T. C. Morton, one of the association vice-presidents, instructs a group of ladies free of charge, in the art of needlework; while Miss J. M'Kee is discovering the myteries of batik, raffia, and wood-carving is another group of ladies in the same club room with the needlework class, at 11 Rove Street. Membership in the handleraft class costs ten and sixpence per month.

These two innovations have brought in uother sixty members to the 2BL Women's Association and are proving useful to many women.

laronec



Clyde 6 Volt Radio



Ciyde 4 Volt Radio



Clyde Heavy Duty 2 Volt Radio Cell.

THROUGHOUT long days—marcooned far from human ken, one comfort yet remained to the crew of the "Southern Cross." Radio brought them news of the outside world and kept them informed of measures taken for their relief.

The vital life current for the filaments of the radio receiving valves was supplied by CLYDE BATTERIES, which were selected for their long life and high capacity.

Ruggedly they stood up to the strain of the extreme test, maintaining their steady power and demonstrating again the sturdy dependability characteristic of Clyde-built Batteries.

Clyde Batteries for Radio, Cars, and Home Lighting are made by THE CLYDE ENGINEERING CO., LTD., GRANVILLE, N.S.W., largest manufacturers of storage batteries in Australia. Obtainable at all radio dealers and garages.

> In addition to CLYDE STORAGE BATTERIES, the radio installation of the "Southern Cross" included BURGESS DRY BATTERIES and OSRAM VALVES.



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VISITORS TO THE EXHIBITION

ARE REMINDED THAT THE SYDNEY HEADOUARTERS OF THE-

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13 Union Street. off Hunter Street West.

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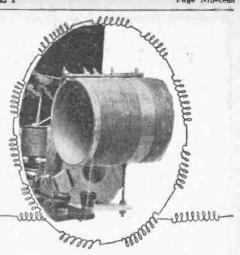
ORANGE

120A Summer Street.

Phone, Orange 735.

Friday, 3rd May, 1929.





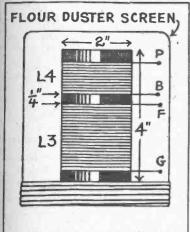
By DON B. KNOCK, Associate Technical Editor

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Although home-made coils are not always as efficient or as cheap to make as the manufactured product, there are many hundreds of radio fans who wish to make their own coils. This article is for those readers.

ColLS. Colls. Colls If some of our readers could look through our mountainous heap of queries (still fill ing the basket as fast as they are taken out) they would perceive that the greatest percentage of inquiries run something like this:--"Your — receiver takes my fancy, and I intend making it up. I have the necessary knowledge to make my own colls for this, and while no doubt the commercial products as used in the original cannot be bettered, yet I am a man who likes to make my own gear wherever possible, and, theretore, ask if you will be kind enough to supply, through the information columns, the size of former, gauge of wire, and number of turns, etc., for this receiver." This is a common request—we get thou-

This is a common request—we get thousands like it—and would be only too pleased to answer them on the spot but for the fact that such details given through the information columns would occupy more space than



L3 = 70 TURNS of 26 D.S.C L4 = 30 TURNS of 30 D.S.G

THE PENTAVOX

Remember that a flour duster makes an ideal metal screen for your homemade coils. Coils enclosed by these screens should have an external diameter not exceeding 2 inches. The photograph shows how the screw top is used as the base mounting, with the metal can screwed into it in an inverted position.

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can be spared. It is really important to show a sketch of a coll when explaining in detail its construction, otherwise there are many readers who are not able to grasp the verbal explanation, who would be sure to make mistakes in windings or tappings.

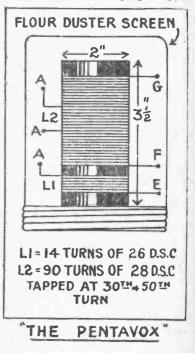
When a receiver of a fairly complicated nature is described, and manufactured coils are used as specified, details of the coils are not usually given with the article, for the reason that the reasonable price of the commercial product makes home-made replicas not worth the time and trouble taken, and we can always be certain that the manufacturers product will not give trouble. Those who have made such coils as used in the 1928 Solodyne, or coils for short-wave work where a screen-grid R.F. valve is coupled through an air-spaced primary to an airspaced secondary will no doubt bear me out in this, as such coils are not by any means easy to make.

But every new enthusiast likes making his own coils. I was a new one myself once, and cherish memories of the first coils I made. In the days when broadcast telephony was unknown. Some were about 2ft. in diameter, or even larger, wound on a ladies' circular cardboard hat box, and one at least was wound on a rolling-pin! Then there were the massive drain pipe loading inductances to increase the aerial tuning high enough to get up to the old Clifden station in Ireland on his 9000 metre spark wave. If only we had known of even the old honeycomb coil in those days we should have been saved a lot of time and trouble, but most of the fascination was in the making of those coils.

At the same time, do not get the idea that the honeycomb coil is entirely defunct because I refer to it as old. As a two-pin mounting arrangement with swinging reaction, its place is gone, but do you realise how easy it is to make up a good little Reinartz receiver by taking the coils off their original mountings and connecting two of them in series, with the mid connection as the filamet return? They will give as good a performance as any other Reinartz coil, and, if anything, are sharper in tuning! Condenser control of the reaction is, of course, used instead of the former movable reaction coil.

In fact, for a Reinartz receiver, a coli may be hurriedly scramble wound in a few minutes, and it will work quite well, but it does not look nice, nor is it likely to keep its turns indefinitely in the same position, with the result that sooner or later the calibration will be upset. In these days it is important to make all coils of a permanent nature so that they will be moisture proof and immune from sea air action, and it is no more difficult to make coils like that than to just throw them together.

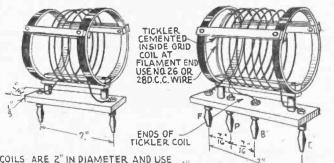
Thoroughness should be one's motto in life, and in no instance is this more necessary than in wireless work. As I have said before, the economy is doubtful in making your own colls for just one or two receivers when there are accurate commercial products to be had, but where the home constructor wishes to do his own designing or try out



ATTENTION MUST BE PAID TO SPACING OF WINDINGS

L1-R.F.COIL

L2-DETECTOR COIL



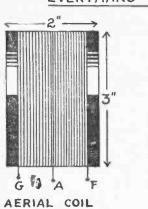
COILS ARE 2" IN DIAMETER AND USE NO.16 ENAMELLED WIRE; TURNS SPACED

ANTENNA COILS	CORRESPONDING DETECTOR COILS
COIL A: 16-32 METERS-4TURNS	COIL A: GRID, 31/2 TURNS; TICKLER, 3 TURNS
COIL B: 26-48 METERS- 8 TURNS	COIL B: GRID, 71/2 TURNS; TICKLER, 3TURNS
COIL C: 46.90 METERS-19 TURNS	COIL C: GRID, 181/2 TURNS; TICKLER, 4 TURNS

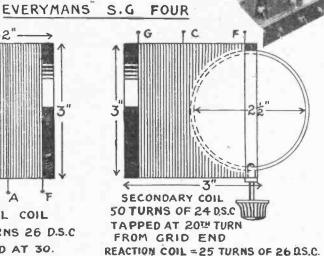
NOTE: MOUNTING STRIPS FOR COILS AAND'B, 2% LONG; COILS 'C' 3' LONG.

any circuits of his own, or adapt existing circuits to new types of valves, it is important that he should know how to make his own colls properly.

It is natural that the easiest kind of coil to make is the single layer Solenoid, and at the same time is a coll which is considered to possess the highest all-round efficiency. You will notice on examining many commercial products that the turns on these coils are space wound. This spacing is generally about the thickness of the wire itself, and is only usually applied for the secondary circuit. The spacing provided by the insulation of cotton or silk itself is quite sufficient, and for a coil to tune over the broadcast band of wavelengths with a diameter of two to two and a half inches, the secondaries may

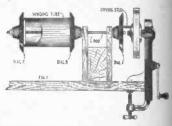


60 TURNS 26 D.S.C TAPPED AT 30.



invariably be wound with No. 26 D.O.C. D.S.C. copper wire close wound.

It sounds easy enough to say: "Wind a single layer coil with so many turns, etc." but it is surprising how little differences will make big chances in the value of inductance When you see specifications for home-made coils those specifications mean that the mi



A winding rig, using a tool grinder, generation about 15 to 1, will speed up work for them who expect to make coils frequently.

MARNOCS DE LUIS FIVE is one of the most sensitive of WIRELESS WEEKLY receivers. The coils for this are a straight-forward jok and may be home-made with ease

must have a definite diameter, with the state number of turns, and what is not generally recognised, or is overlooked, a definite number of turns of the wire to the inch The constructor may start to make a coll to correspond with instructions, and although he may finish with the right diameter and the right number of turns, the total winding may be spread out over a far greater length than intended.

As a good guide, one may take it that No. 26 D.S.C. copper wire will wind 42 turns to the inch, but if the winding is done toosely, with the result that there are protoosely, with the result that there are pro-bably only 36 turns to the inch, the col with its specified turning capacity will fail to tune up to the higher range of ware-lengths for which it was intended. This effect may be more readily illustrated in a short-wave receiver. Make yoursel a temporary coil to fit the existing grid and reaction mounting leaving the wire doe

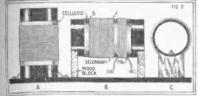
reaction mounting, leaving the wire close wound on the coil former, but with the turns fairly loose. Tune in a known station, and then remove the coil, and with the fingers pull the turns apart so that, although the coil has the same number of turns, they are You will have to go a long now spaced.

DURABILITY INCREASED BY CEMENTING OR DUCOING COILS

way up the dial to find that station again. and in all probability it is right off the range

What has happened is that the spacing of the turns has considerably reduced the in-ductance value, thus raising the frequency a great deal. Although this is so much more a great deal. Although this is so much more noticeable with short-wave reception, even on the normal 200 to 500 metre broadcast range, it may become very annoying if the colls are of the slipshod kind, with loose turns slipping about.

If you are starting to wind a Solenoid coil it is often found troublesome to get each turn close together, especially if the wire runs unevenly off its reel. A simple expedient is to wind the wire on fairly closely but not too tightly, and then work it round with the fingers following the spiral of the

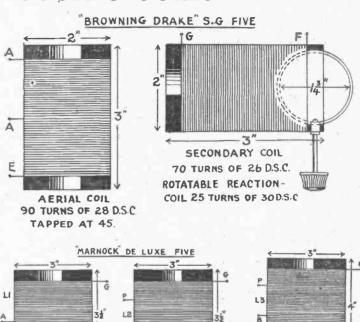


Unless completely shielded, coils should be mounted at right angles to each other, and several inches apart.

When this is done the coil may winding be made secure at the required number of turns.

At this point most constructors will consider that the job is done and the coll complete. be so but in order that the coil may be made durable, and that the windings may be held permanently in position without danger of slipping, it is necessary to use a good harmless cement.

One of the best for this purpose is Duco

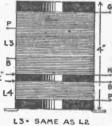


LI + 50 TURNS OF 26 DS.C TAPPED AT 1044204

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B



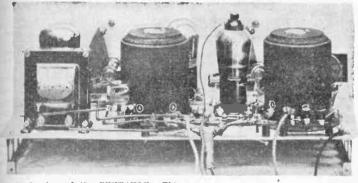


L4- 30 TURNS OF 28 D.S.C.

TAPPED AT 2014 4 60 TH TURN

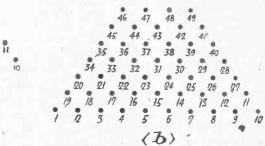
in it. As an alternative, ordinary duco may be thinned down with amyl acetate. as it is really too thick for the purpose.

The reason why the cement should be of thin consistency is so that it will soak into the insulation and down on to the surface of the former instead of only on the wire itself. In making up such a solution, use about six square inches of sheet celluloid (the motor car side curtain kind) and dissolve this in about an ounce each of acetone and amyl acetate. The thickness of the solution depends on the amount of celluloid used. One way of making selfsupporting Solenoid coils is to wrap round the bakelite, or hard rubber former, a piece of sheet celluloid, with an overlap of about one-eighth of an inch. Cement the overlap and then wind on the coil, afterwards cemen -ing the turns to the sheet celluloid. When It is dry, the complete coil may be slipped off the former.



The back view of the PENTAVOX. This receiver gives a multi-valve performance in distance and audio quality, although only three valves are used. Coils for this set may be very easily made and shielded by the use of flour dusters as explained in the article.

(exactly the same varnish that you see on the multi-colored bodies of glistening automobiles), which can be obtained in any color if you are faddy about it. The coil will work just as well whether the coil is doped with vermilion or sky-blue; plain black or green are, of course, the least aggressive colors for the purpose. If a transparent dope is preferred it is a very easy matter to make your own by obtaining from the chemist some amyl acetate and dissolving celluloid



Bank winding details

Page Twenty-Two

The disadvantage of colls of this kind is that they are usually difficult to mount, and as it has been definitely proved that the pre-sence of a bakelite or hard rubber former does not lower the efficiency of the coil enough to be any detriment in radio work, the self-supporting coil is to-day not worth the trouble

t will not require much practice before the t will not require much practice before the constructor is able to make his own coils easily and efficiently with the materials on hand. Hand-winding after a while becomes s tedious business, and it pays the man who does a deal of this work to rig up a little hand-winder. An accompanying diagram the same shows that the second secon paying a visit to a tool store and buying a recourt on counter so that a coll may be critically wound without the necessity of keeping a mental note of the turns.

As mentioned before, 26 gauge D.C.C. or D.S.C. copper wire is a good standard size for secondaries, but for primary couplings a finer wire, such as 36 D.S.C., should be used. The advantage of this is that it may be so placed that its capacity in relation to the secondary is very small. The best way to place a primary coupling

WIRELESS WEEKLY



THE coils for the short-wave enthusiast. The bases of your old valves make an excellent former for winding short-wave coils to cover a range from 5 to 100 metres. By the simple process of bank-winding a very fine gauge wire, coils may be made to cover he want broadcast range from 200 to 500 metres when tuned with a .00015mfd capeting The virtue of these coils lies in their compactness and indestructible nature, and, will valves as used to-day, they confound the old "Low Loss" theory.

in relation to the secondary is by winding it on a former about a quarter of an inch smaller in diameter than the one on which the secondary is wound, and locating it in-side the secondary former under the filament Remember that the smaller the coil end the less is the stray magnetic coupling, but no matter how small the coil, unless it is completely shielded, it should be mounted at right angles to the next, and several inches apart.

The diagrams given with this short article give the winding details for coils as used in some of the more popular of the "Wirks Weekly" receivers, a good standard data fr short-wave coils, and an illustration of war is meant by "bank winding." Let me how in conclusion, that those who prefer to mak their own coils throughout will find sufficien to keep them interested by these brief structions.

Friday, 3rd May, 1971

"The CAPTAIN" to HIS "COMRADIO

Coming Events

FRIDAY and Saturday, May 10 and 11: G.P.S. of Victoria Head of the River, heats and final.

Saturday, June 1: Australian University Champion Eights, on the Yarra.

Tuesday, 18th June .-- School Clubs, Ltd.,

dance, at the Ambassadors.

Wednesday, June 26: Soots' College O.B.U. annual dance, at the Ambassadors. Wedneday, 26th June.—Old Sydneians Dinner, at Ushers, 7 p.m.

Wednesday, 7th August.—Old Sydneians Union Dance, at the Ambassadors. Dates should be sent to "The Captain" at

least a month ahead. .

Is the Race Too Far?

.

I STILL think it is. Many of my correspondents agree with me and a few agree to differ. I leave the discussion with the evidence of this years' races for the Head of the River still fresh in everybody's mind. And it seems to me that my point is carried. I have the utmost regard for those who have urged that past performances over the mile and a half have apparently done no harm. There is the currant in the bun-"apparently." Is there real evidence on the point? Are there no cases of boys who have had to give up rowing, and even other games which call for strenuous effort, because of their great endeavors in the school boat? Surely, if even one such case can be given, it calls for care and prevention of over-strain in the future After all, rowing is a sport,

Safety First

NO sport should be allowed to have any effect except one of physical benefit. Always must we remember that no sport makes such a call on bodily endurance as does rowing. In other games a boy may halt when exhaustion makes itself felt. As a member of the crew he must keep on or the boat stops and turns over. So often he keeps on just when his heart and lungs have been strained to the utmost. That is just where the sport of rowing may become a tragedy. The boy breaks down, and he is, indeed, fortunate if his health is not seriously affected for the remainder of his life.

...... . . (Being notes from the happy personal chats to past and present schoolboys and schoolgiris and their parents all over Australia and New Zealand. Conducted by "The Captain" every Sunday morning from station 2FC. Sydney.)

Personal

CETTERS have been received from J.S. (Cremorne), B.J. (Cronulla), L.B. (New castle), M.N.T. (Kogarah), A.B.G. (Parta-matta), S.M. (Bulli), S.D. (Lindfield), "South Coast," F.T. (Bulladelah). These are personal notes, to which I have replied personally. All other requests for information win be answered over the air. Letters should be signed, but "The Captain" never gives names during his session, except the names and ad dresses of secretaries of old school unions. etc., where it is important for listeners to know how to get into touch with school functions.

Footballl

THERE is little to choose between the products of any first-class manufacturers of tballs. This answers T.M.P. (Coogee) footballs and many others. The only way to judge whether a cover has been properly and evenly made is to see it filled out tightly by a well-inflated bladder. My advice to any boy buying a football is to have it filled and laced ready for play in the sports shop. Just because it is a bit bulky to take home under your arm should not be a reason for possessing a badly-shaped ball. That sounds like "swank" to mel

Treatment for Football Cover

THE hide overcoat of a football should be made as waterproof as possible, without adding to its weight. The best way I know is to rub vaseline or petroleum jelly, practically the same thing, into the cover. Use a lump of cotton wool for the purpose, and then wipe the vaseline off again. Of course. you cannot rub it all off, and what remains will keep most of the wet from soaking into the leather. Once a week, if the ball is used daily, or once a fortnight otherwise, will be ample to keep the ball in good condition, and greatly add to its life.

To the Wounded

THERE is nothing better or safer in a bruise or cut, caused in the rush of the game, than a few gentle dabs of iodine. Hat a weak solution of iodine made up by a chemist for the purpose. It is not sale use it too strong, as so many people do care lessly. C.W. (Longueville) asks about it. The scratch, cut, or bruise should be gently washed clean in warm water, and thoroughing dried before applying the lodine. The size from the first contact of the lodine is very slight, and quickly passes away.

The Captain's Book List

THE following Australian books have The Captain's" special recommendation:-Dognose" (J. H. M. Abbott), 3/6. Fue school yarn, received last week. "Miss Billy" (Constance Mackness), 3/6

A most interesting story for girls up a say, 15 years of age. The tale of Willa from a small girl on an outback station, to the time when she comes to Sydney, and finale completes the lovely romance of her life or the great boat which carries her and Bill away to Queensland, will be most popular with the younger girls.

"The Black Star" (Andrew H. Waipole) 3/6

The title and the author are quite subcient to catch the attention of any schoolboy. Here is a school yarn, simply packed from cover to cover with pranks, fun, and adventure. I recommend it to all younger boys (up to about 15 years, especially), but I thoroughly enjoyed it myself, and it is a long time since I was 15, even if I do led about that old at times!

An Australian Poem

A BOOK not so easy to buy nowadays "Backblocks Ballads," by C. J. Dennis. 1 understand a reprint may be issued. It con tains "A Song of Rain" (which I told you on Sunday week), and many gems of humor by the famous author of " Bloke" and "Ginger Mick." The Sentimenta:

Greeting

AND now here is my constant greeting "Good wishes to you all, Comradios" Listen in to 2FC next Sunday morning 10.15. Cheeriol

Friday. 3rd May, 1929.



Friday, 3rd May, 1921

(hilling)



No. 19 Meters in general, Millia-Meters in general, Milliam-Voltmeters are discussed in this issue. Complete instructions are also given so that the experimenter may make for himself an all.purpose meter, i.e., one that will measure in tenths of Milliamperes, in Milliamperes, Amperes, and Volts.

HIS WEEK we shall learn a little about some of the measuring instruments used in radio and electricity. Every technical term used here has

Every technical term used here has been explained in a previous article. If any reader is doubtful on any subject treated in "Proving Radio" he should write in at oncc.

METERS.—In order to check up on dry cell "B" batterles only a cheap, pocket-type voltmeter with a range from 0 to 50 volts us needed But many of us now use eliminators or electrically operated sets. And others among us are not satisfied with merely testing "B" batterles but want to see how much filament and plate current each valve uses, what the whole set draws, at what rute the charger recharges the "A" battery, etc. This requires meters of different types, or one meter and about an hour's work, adding various resistances to adapt it to other uses.

MILLIAMMETERS.-A milliammeter is a device for measuring small currents and is calibrated in one-thousandths of an ampere. It consists, basically, of a coll of fine wire suspended, free to rotate through about 120 degrees, between the pole of a magnet (Fig. 1). To the coil is attached a pointer, which moves over the marked scale. A spring tends to hold the pointer at 0. Care must be taken, when using a milliammeter, that too great a current shall not pass through it, as it would be immediately destroyed. NEVER, never, never use a milliammeter as you would a voltmeter. If you do you can throw it away, as it will be burned out. The milliammeter measures thousandths of an ampere.

AMMETERS.—A good ammeter is nothing more nor less than a milliammeter, as just described, with a low resistance connected in parallel with the moving coil, or, as it is commonly called, element. The resistance is usually referred to as being "in shunt with" or "shunted across" the element. See Fig.

2. There are various cheap makes of animeters (Fig. 3) with an arm attached to the pointer working inside a coll of fairly heavy wire and pulling against a light spring The ammeter measures amperes

VOLTMETERS.—A voltmeter again uses a milliammeter unit, but this time a resistance is connected in series with the element, as shown in Fig. 4. Several resistances may be employed, so that as many scales may be used with the same element. The double range meters, as one which has scales for 0-7.5 and for 0-150 volts, have two resistances in series, with a tap taken off at the junction, as shown in Fig. 4. Cheap makes of voltmeters may be made in the same way as the ammeter pictured in Fig. 3, or may consist of a needle fixed to a small rotating bar magnet working against a spring and suspended near the poles of a horseshoc magnet around which is wound a coll of wric. 9s shown in Fig. 5.

MAKING AN ALL-PURPOSE METER.— It is not particularly difficult to make a meter that will be extremely accurate and will have as many scales as you desire. The cost is low, and the entire job can easily be done inside of an hour. The only materials you will require are:—

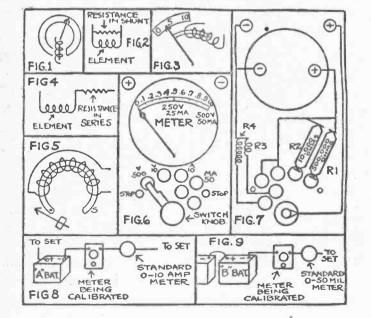
One milliammeter (0-1 amperes scale). Box for mounting (a cigar box will do). Piece of Bakelite or hard rubber panel to

fit box.

Switch arm.

Six switch points.

Two switch stops.



Two terminals.

500,000-ohm metallic resistor (R1) with mounting.

10,000-ohm metallic resistor (R2) with mounting.

One old rheostat (for R3 and R4).

Wire (insulated) for connection, soldering lugs, screws, etc.

First mount the meter and terminals as shown in Fig. 6. Then take the switch and and saw it in two, as shown, bending and trimming the right hand section so you have one long and one short switch arm, both mounted on the same knob. Then mount the arm and the switch points and stops, as indicated, so that the long arm bears upon the four outer points, and so that the shore arm bears upon the two inner points, when the long arm is making contact with the two outer points at the right.

Turn the panel over, so that the terminal are uppermost, and mount the resist mountings as indicated (Fig. 7). Then ounect the switch arm to the positive binding post. Connect the positive terminal of demeter to the two binding posts as indicate and to one end of each of the fixed resistors are connected as shown. Also connect the negative stud of the meter to the negative bining post.

Now comes the only tricky part of the job. Take a short length of the wire from the old rheostat, say about 18 inches. Fold its that you have six wires about three inches long, and 'wist it tightly together. Solder one end of it to the negative meter lead Take another piece of wire, connect one end of it to the inner binding post of the inner circle, and wrap the other end of it ugitu around the twisted resistance wire, near me free end. Do the same with the other biding post, but this time, instead of folding and twisting the wire, make a coll of it, winding a single strand around a lead peno

You are now ready to calibrate the meter. To do this, first remove the glass from the face, which you will find is calibrated in tenths of a milliampere. Then set the switch arm on the point to which the 500,000 ohm resistance is connected. Take two 45-voit B batteries and two 42-volt C batteries (all new) and connect them in series. Take a reading across the batteries, connecting the binding post to the positive terminal of the series and the minus binding post to the negative terminal of the series. You should, if the resistor is accurate, get a reading equivalent to 0.2 mils, or one-fifth of the scale. If you do not get this reading, mark the point "100" (volts) and mark off each other 100-volt step proportionately.

Disconnect these batteries from the meter. and take a reading across the two 44 rolt Obatteries, connected in series, with the switch arm on the point to which the 10,000 ohm resistor is connected. If all is well, the needle will point to 0.9, which you will know means 9 volts. Disconnect these batteries and examine the switch, making sure us short part of the arm makes good contact with the inner switch points, and see that the resistance wire is connected tighty. Then, leaving only four 201-A valves in your battery operated radio set, connect the meter in series with the A battery, the negative binding post to the minus terminal of the Connect the positive binding post battery. to the negative terminal of a borrowed 0-10 ampere ammeter and connect the positive terminal of the borrowed ammeter to the A battery lead, completing the circuit (Fig. 8). Turn the set on and adjust the rheostat until the borrowed meter reads 1 ampere. Then slide the connecting wire that is wrapped around the twisted resistance wire backward and forward, always being sure it continues to make good contact, until the meter that vou are calibrating reads 0.1, which you know indicates 1 ampere.

Taking the same precautions, and using a borrowed 0-50 mll milliammeter, you proceed to calibrate the remaining scale in the same manner, 0.5 indicating 25 milliamps (thousandiths of an ampere), but instead of connecting the meters in the filament circuit, connect them in the negative B lead (See Fig. 9). For this scale, the switch arm will be on the remaining points. When the meter has been calibrated for this scale, mark the face as shown in Fig. 6, replace the glass and mount the panel in its box. When the meter is not in use, always keep the switch arm on the 500 volt point, so that there will be less danger of burning it out through carelessness.

Proving Radio Club News

EXECUTIVE REPORT .- "We have received an inquiry from the Boy Scout Movement in reference to joining up with the club. It comes primarily from the Clovelly Troup. Two ex-officers have been appointed to interview the troup and place the objects of the club before them. This, we anticipate, will be the beginning of a big movement in the direction of educating our citizens in the science of radio. The badge of the club was decided upon by a sub-committee elected by the executive, comprising Messrs, Barker, O'Day, Beeby, and Simmonds. The badge will be available to club members at an early date, and the winner of the competitive design will receive his badge in due course."

CONCORD WEST GROUP .- "Our experiments on Thursday, April 18, consisted of those dealing with magnetism and electromagnetism. These were entirely successful. we then passed on to induction. The experiment with the two coils and galvanometer would not work." (NOTE .--- Have you tested galvanometer with a bar magnet? Did you reverse the coil?). "We cannot understand how it is that A.C. can be stepped either up or down, while it is not so with D.C." (NOTE .-This is easily explained and demonstrated Its proof lies in the galvanometer coil test. when you depress a key in one circuit, causing the current to flow round the coil, magnetic lines of force are induced, and these set up a current in the coil containing the galvanometer. You will find that when the key is depressed-if the experiment is properly carried out-the galvanometer will jerk away from its original place, but return almost immediately, and will remain just as though I.C current is passsing through the coil, because after the key is closed the magnetic lines of force sink back again to the conductor; whereas when the circuit was made the magnetic lines of force spread out over a great area. Now, if the pressure is removed from the key the galvanometer will again jerk away, then jerk back again, proving that the magnetic lines of force were once more strained, and this time, as the current was

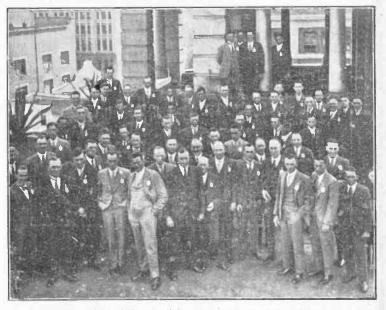
cut off, the lines of force were cut right out, and did not remain around the windings. This proved then that a rapidly alternating current will cause the galvanometer to deflect rapidly. In other words, the coil containing the galvanometer-which, being the coil which picks up the energy may be treated as the secondary of the tranfsormer-will pick up the energy from the primary-that containing the input. If you were to rapidly make and break a D.C. primary circuit you would find that, although the current was not semi-continuous, there would be a tendency for a step up transformer to amplify it, because there is a rapid alternation caused by the magnetic lines of force. You further ask: 'Why are iron cores incorporated in audio transformers and air cores in R.F. transformers? We would like a further explanation of this.' The answer is that in the first place I have not yet reached the point where these components-radio frequency transformers-are to be discussed. The greatest error you can make is to bother your head with components of which you understand practically nothing. It would be practically impossible to treat R.F. transformers here. Remember, there are others studying the course, too, and an article on R.F. transformers-components of which probably many have not even heard-would be very confusing. On the other hand, audio trans-formers have been briefly treated, and if you had carefully learnt all that was said you would know that iron is probably the best substance we have for a temporary magnet. When it is placed inside a coll it assists the magnetic lines of force, because the iron itself becomes a magnet). "As we had completed the experiments and discussion listed for tonight we then had a little Morse code instruction/

SUMMER HILL.—"We decided to try static experiments for this meeting. Our first experiment was to rub scaling wax on wool This was successful. It was seen that the sealing wax attracted the pleces of paper. Next, we took a glass rod, but this would not work. We came to the conclusion that there was not enough surface of glass." (NOTE.— This is not so important as weather conditions and plenty of hard rubbing. Slik should be used. At Turramurra recently this group had difficulty in getting this experiment to function, but found that plenty of elbow grease was required. Once one member of the group managed to get his piece of glass to act all the others were fairly successful). 'Next we took the electroscope: We tried the glass rod on it, but the leaves remained still. We then tried sugar-no result. The electrophorus was then electrified. When the lid was held to the electroscope the leaves would diverge. The electrophorus was then tried. Although no spark could be seen jump to the finger, when a plece of wire was connected to the sole and the lid brought near the other end of the wire a distinct spark could be seen. Owing to the fact that we could not get enough energy from the electrophorus we were unabe to charge the Leyden jar." (NOTE. -Presume you have compared your electroscope with those that nave been successful?). "The rest of the evening was taken up by members expressing their views on static."

ARNCLIFFE GROUP.—"This group held their regular weekly meeting on the 18th inst. A very interesting hight was spent. The storage battery was the subject dealt with, and one of our members, being a storage battery builder, was able to explain the subject from start to finish, including the many causes of sulphating and breakdown. We have four short-wave enthusiasts in this group, and we always devote some time to the week's workings. We closed down early in the evening, viz., 2230, as one member had a long way to go."

EASTERN SUBURBS GROUP.—"We conducted experiments in magnetism. The lines of force were plainly seen in iron filings on the glass. The theory of magnetism was also explained."

DULWICH HILL GROUP.—"We spent the night in constructing a Wimhurst static machine, which will provide static electricity under practically any conditions. Each group will eventually have this machine for demonstration."



A.W.A. dealers at the recent conference of that firm.

SENSATIONAL REDUCTIONS!



BALKITE TRICKLE CHARGER Over 730,000 in use. Charging rate about ½ ampere. As a trickle charger automatically keeps your "A" bastery fully charged. Old Price 282/10/- Big Savings to be made by those who act quickly. The famous "Balkite" Charger and "Balkite" "B"

Eliminator. Note the big reductions



Trickle Charging began with "BALKITE" and "BALKITE" still leads in Popularity, Service, and number in use.

DIRECT FROM THE LIGHT SOCKET - SIMPLY PLUG IN

TRICKLE CHARGING — Now the most convenient and most popular of all means of charging your radio "A" battery, was not possible until the development of the Balkite Trickle Charger. For Balkite was the first charger that could be connected permanently to your "A" battery and the light socket. It was the first charger that kept the battery always fully charged. And Balkite was the first charger that converted your battery into a complete power unit, supplying "A" current from the light socket.

To-day there are over 750,000 Balkite Trickle Chargers in use. Just as it was first in making trickle charging possible, Balkite has always been first in popularity and number in use. Balkite is the standard trickle charger, tried and proved by use in the hands of its thousands of owners. Like all Balkite Radio Power Units, this charger is a permanent piece of equipment. It has no tubes and nothing to replace or renew. It is noiseless in operation and can usually be used during reception, It is very compact and small, and its current consumption is very low.

The Balkite Trickle Charger can be used as a trickle charger with any 6-volt radio "A" battery. Thus used it keeps your battery always at full power, and in effect, converts it into a light socket "A" power supply. With 4-volt batteries it can be used as an intermittent charger of the usual type; or as a trickle charger if a resistance is added. Charging rate is approximately $\frac{1}{2}$ ampered

Add a Balkite Trickle Charger to your "A" battery. Know the convenience of permanent silent "A" power from the light socket always,

OBTAINABLE FROM ALL DEALERS AT SENSATIONAL REDUCTIONS. Wholesale only: O. H. O'BRIEN (Sydney) 37-39 PITT STREET, SYDNEY; 654-664 Bourke Street, Melbourne; W. E. Peterman, 160 Edward Street, Brisbane.



LTHOUGH, when we first appeared under the title of this page, we took steps immediately to inform our public that the pugilistic gentleman the had drawn in the corner did artist not and was not intended to resemble the author of the notes. We still find a lingering doubt in the minds of certain sceptical In order to dispel the idea, once readers. and for all, we instructed the offending artist to supply a second design. But, alas, the artist, seized with a perfectly feverish idea, made matters worse. This time he depicted a second pugilistic gentleman hitting a poor unoffending mike a swipe which certainly looked like a foul.

Result: Not only do our closest friends see a certain resemblance, but we are further accused of unfair play in the realms of radio A plague on all artists.

But, having been so branded, we find it difficult to live down. There is no good reason for the above rubric. But what shall we call it? "What are the short-waves saying?" "Sitting on the short-waves' tall," "Around the shortwave dials," all have a familiar ring.

Well, we chase the matter into the enemy's camp. If you can think of a better one we offer you a .00014 Jackson condenser if accepted. That's fair enough.

Some little time ago Australia's most enthusiastic short wave, BCL, Mr. Russell Crane, wrote to the British Broadcasting Commission giving his views on the 55W service. The letter from the B.B.C., in reply, is very interesting, and is by the courtesy of Mr. Russell Crane published here:--

Dear Sir,—We have to acknowledge with many thanks your most interesting letter of January 22, in which you express your views on long distance short wave transmission, with particular reference to SSW. In the main we agree with all that you have to say.

Since their inception the transmissions of 58W have been, and are, purely experimental, and we make no pretensions that the station is giving a service; for this there are several reasons.

- 1. Owing to the difference in longitude between the various parts of the British Empire a service would have to be on a 24-hour basis.
- 2. It is well known to any competent wireless engineer that a short wave transmission of sufficient power can be received at a given time and under favorable conditions almost anywhere in the world; but there is a vast difference between mere audibility and a service which implie; regularity and reliability of reception.
- Given a "service" there still remains the difficult and involved question of payment for maintenance of the transmitter, programmes, and copyright with all its implications.

It seems unfair to us that the licensed listener in the British Isles, from whom the B.B.C. derives the major portion of its revenue, should bear the whole cost of a

Short-wave and Amateur Notes by VK2NO

short wave station on a service basis, seeing that such a station is practically useless to listeners in the British Isles.

There are three main categories in which we can place those who are interested in a short wave Empire broadcasting service;---

(a) The "amateur" wireless engineer and experimenter. This class need not be considered seriously, as it is relatively small.

(b) Those who live in isolated parts of the world where there is no broadcasting service, such as military and civil administrators, planters, and so on. Judging by correspondence and conversations with individuals of this class, broadcasting in any form would be a godsend, and the persons concerned are not, and would not be, par ticularly critical as regards the quality or the regularity of their reception. Some, no doubt, come under Class "A," but these are in the minority, the majority have no technical knowledge, and look upon their receiver as a means of entertainment and not as a scientific instrument.

(c) Those, like yourself, who live in the greater Dominions within the range of an existing broadcast service, but who would wish to hear some items of specal interest, such as mentioned in the postscript of your letter.

The problem of Empire broadcasting is intimately bound up with that of short wave reception, and the purpose of our present experiments, which you know are being carried out with 2XAD, is to ascertain how for short wave reception can be stabilised and improved by the utilisation of spaced aerials or other devices so that the chief obstacle, fading, may be overcome.

JOBK TIMETABLE
Wavelength, 400 metres. Power, 10,000 watts.
WORKING TYME (DAILY).
From 7 a.m. Physical exercises by to 7.50 a.m. the aid of radio.
From 9.2 a.m. Market exchange. to 11.55 a.m. Weather forecast.
From 12.10 p.m. Music, speech.
From 1.30 p.m. Market exchange; re- port of news, and wea- ther forecast.
From 5.30 p.m. Lectures, music for to 7.0 p.m. children.
Report of news, leo- twres, and general to 10.0 p.m. Timesenent. Time signal and an- nouncement.
There being no market exchange on Sinday, the vacant hours are appro- priated to special lectures, music, and

general anusement

The idea at which we aim is that a short wave transmission may be so well received as to be "re-broadcastable" throughout the local system in a manner that would not compare unfavorably with the normal output. It is probable that we are very far from attaining this ideal; but the results we have had to date are not altogether discouraging. For instance, we re-broadcast quite successfully from 2XAD the description of the landing of the Graf Zeppelin in October last, and the National Broadcasting Corporation of the United States of America relayed the London programme. received via Chelmsford, through a chain of 40 stations on February 5. You will see, therefore, that our experiments tend iowards providing a service that will be of interest to the listener in class "C." Class "B." however, has our very sympathetic consideration.

We have set forth the position at some length, and trust that the explanation is clear.

We would once more express our thanks to you for your letter of January 22, and previous correspondence.

BRITISH BROADCASTING CORPORATION.

T. C. H. SHAW, Chief Engineer.

This letter puts the matter in a nutshell, and there is no doubt but that the B.B.C. is working hard to overcome the many technical problems involved.

On the evening of Friday, April 19 last, the General Electric Company of America put over an excellent programme through W2XAF for the benefit of the Melbourne Radio Exhibition. Using the Air King receiver at VK2NO, every word and item of the programme was listened to at excellent speaker volume. KGO, through W6XN, may be heard very strongly on 23.38 metres every Wednesday afternoon from 3 to 5.30 p.m., Sydney time. There is almost no fading with this transmission, and results indicate that it should be fairly constant the whole year round. 5SW is still very strong in the early morning from 5.30 a.m. to 7.30 a.m., Sydney time; but has been suffering a little from quick surging or high speed fading.

Among the hams things are well on the move, and the Melbourne gang report that 10 metres has come to lie again, many contacts with New Zealand and a few with America being secured. A Japanese amateur reports reception in Tokio of quite an imposing !lst of Aussies.

VK2SA has returned to the fold on the 42 metre band, and is well into his stride with a 1929 self-rectified transmitter, using two UX210's. The note is quite pretty to listen to, and a report I gave to VK2SA made him say in reply: "O.K. O.M. . . then its gudby slop jars." In using a back-to-back tranmitter like this, one must be very careful, for if the two oscillators are running even a little out of phase, quite a lot of territory will be taken up in our limited channels. The QST idea of Ross Hull shows how to check up on this, and so intriguing does it seem that one is in the course of construction for the writer's



station, using two Philips TB150's. This will only be used on the 21 metre channel.

Another intruder made his appearance one day last week inside the amateur 20.8 to 21.4 frequency. This was VIB, who was working VII at the time. That ICW note ruined things for a large number of "hams." with were in touch with Europeans.

Information is to hand regarding the Russian amateur districts. Russia has been split up into districts like the Americans-a seusible idea. They are as follow:

First District: SIBERIA. Omsk. Tousk. Novosibyrsk, Jakutsk, Vladivostok, etc. Second District: CENTRAL, Moscow. Nijni

Novgorod, Rjaza, Tver, etc. Third District: NORTH-WEST, Leningrad,

Archangel, Murmansk, etc. Fourth District: VOLGA. Astrakhan, Sara-

toy, Ulianov, Ural, etc.

Fifth District: UKRAINE, Kiev, Moldavia, Kharkov, etc.

Sixth District: NORTH CAUCASUS. Rostov, Krasnodar, etc.

Seventh District: TRANS-CAUCASUS. Georgia, Armenia, etc

Eighth District: CENTRAL ASIA, Tashkent, Semipalatmsk, etc.

Ninth District: WESTERN MINSK, Smolensk, efc.

The prefix used is EU.

This information will undoubtedly be useful to Australian hams, as it is likely that there will be many contacts with Russian stations as the year goes its 20-metre round

The once-familiar prefix OZ. so long associated with New Zealand, now belongs to Denmark, and the Argentine Republic has taken LU instead of LO, as previusly stated.

South Africa still seems to be the hardest country to even hear. As the 20-metre band plays some queer tricks, we may expect to hear them suddenly when we least expect it. It has been a sore inward point with me that three years have gone by, and I have not yet been able to QSO an old friend in Capetown -a ham friend of early DX days in GB. Will anyone hearing South African A4X (probably now a new call) kindly notify VK2NO?

Short-wave BCL's will be interested in the following note from Mr. E. A. Moore, of St. Peters, Sydney. He says:-"In a conversation between 5SW, England, and W2XO, America, the latter said that a regular schedule would come into operation at the conclusion of the Congress, so listeners are advised to watch the daily papers for the conclusion, and the following morning, at 0200 to 0300 will find the station starting. The waves used by W2XO are 19 and 29.6 metres, and 5SW, 25 and 28.5 metres. W2XO is now the call of the popular American station, W2XAD, this latter call not now being used.

How to Service Radio Sets :-:

ELLO! Is this the radio shop?" "Yes, ma'am." "Well, I want someone to com

und fix my radio.

Yes, ma'am. Who is speaking, please! there you are. And The service man salled in due course and found the speaker plug pulled out. All in a lifetime, but she tet out a whoop that shamed all static when a bill was presented for service man's time Not so good.

main stopped in.

"Have you anyone who knows anything at all about one of these blankity-blank contraptions ?"

"Oh! Yes, sir," we answer.

"I don't believe il, but, if you have, shoot him up to my house, and, if he puts that thing in working condition, just send me your bill."

This man evidently spent some uncomfort able time away from his golf trying to do a little service work for himself, and the mere incident of his being in the dry yoody business did not deter him from thinking that, if he could not scrvice the set, nobody else could. They come that way, but how much easier it is to collect a good bill from this type after you do fix his set.

Then, again, we have the customer who owns a set similar to Jones's set. Jones gets results far superior to his, which will never do. Here we have a job requiring our technique and wrinkles, Results: A good tee and a recommendation when we bring his set up to requirements.

These are the kind. Build up a ctientel-of goodwill customers, and the world as yours. Not so hard.

There are customers we would like to eliminate, or worse, if possible. When they, complain unjustly a few times we want to tell them something. But! Be extremely careful, and here is advice that means some thing.

Of the two kinds of customers, the "con plainer" and the "merely satisfica, in build ing up a service business, I prefer the "com plainer." Sounds ambiguous, but is Sounds ambiguous, but is sound fact.

The "merely satisfied" customer calls for service the same as he would order a sigpenny piece of ice. He pays for it and completely forgets it.

The complainer thinks his radio is the only one in the world. He may cause you an estra trip, but, if your work is good, that complainer takes it upon himself to tell the world that he alone "discovered" you, and is proud of it.

He talks about you as though you specia personal possession, and the advertising you derive can be measured in pounds, shillings, and pence.

Vice versa, if you discard this complainer

The, first of a series of articles on radio servicing, by an expert of many years experience.

These articles should not only be of considerable interest to those who wish to attain professional standing, but are also of value to the listener wishing to service his mun set

as a nuisance, not taking the above into consideration, you oreate an adversary of no mean power.

He builds upon your weaknesses until is becomes an obsession with him, and the harm done you can also be measured in good money. Be very careful.

H.

There are thousands of radio nets in use to-day embodying the four principal cur cuits: Regeneration; tuned radio frequency. both self-balanced and neutralised; super heterodyne; and reflex, with the myriad tricks alluched to them.

Plenty for every service man. In fact the sets need good service men.

When servicing a radio, always remember that, no matter how tricky it may be, the circuit is one of the four principal with their fundamentals, and only has embodied it in some individual means of obtaining an oscillation control, an elimination of high trequency from the audio circuit, a plate voltage control, an inductive output, etc., etc. byt, when servicing a set, visualise the true ctrcuit only, and the tricks will show them неlvел ир. Study the four elementary on cuits.

The terrible, heart-rending conditions of radios that won't work are generally confined to a few major troubles, easily located Radio frequency transformers, good wiring, and good apparatus do not go wrong. It is not service to go poking around in them looking wise. Audio transformers and by pass condensers are the main points of weak ness. Valves, of course, lose theti electron-emitting qualities after months of use, and are the decelving quantity in 1 radio, due to their lighting and not functioning.

A. man, by following the rules in this booklet; will soon be able to go through a service job in fig time and, not only that, but create a booster oustomer by the deft

manner of overcoming trouble without undus delay, although with always the thought of a sale of something additional, something proven necessary by his test kit.

Unless you locate the trouble immediately in a home-made, mongrel set, do not get yourself in a rut by sticking to it at the customer's house. Take it to the shop, trace the circuit, and you will find the trouble as you go. Never take a mongrel set away without first finding out definitely whether or not the owner thinks a radio service man will work on his set for pleasure, the same as he did. I have found it the easiest pro-cedure, if a mongred set shows poor workmanship and old apparatus, to advise the customer I would re-wire it, make it modern, and overcome his trouble at the same lime, for £5. £6, or whatever the job was worth. Never work cheap nor give cheap work. A good motto.

This is not a sales talk, but you should sell him a new set if your business is not scribice alone, and, after making a price for re-wiring, it is easy mathematics to show him the small difference in price for a new one. He may not be interested in a new set at all before you mention the cost of fixing up his old one.

I always charged a minimum of £1/1/ for a professional visil, generally lasting ons hour, and have gone as high as £5 for the same or longer period, according to the type set, the customet, and the technique re-quired. I have always been appreciated and recommended.

If I had given the same work for 5/ or I would not have been appreciated, re-10/ commended, and neither would the customer have thought as much of his radio, nor given it the better care after he parted with the cash. Neither could I have continued. But, bear this in mind: I put his radio in first-class condition and guaranteed it. Back up your work by thank you trips to keep your customer satisfied, or, in other words, keep your putient, which is the radio set, in good health. If you fully cured the radio at your first trip, and when you held out your han l, you will not be required to make any thank you trips.

Most of the time the service work on a radio is really service work on the owner Part with some of your knowledge patiently and friendly, and you will leave a customer who can back up your good work by keeping it so.

This writer has served radios all over the country, all kinds of them, from cigar bowes to gold-plated; has lectured on radio, built broadcast stations; has given free information and advior, has been a radio editor, and has assimilated his radio-owning public. You will receive an intimacy with his service methods in the following sections.

Friday, 3rd May, 192

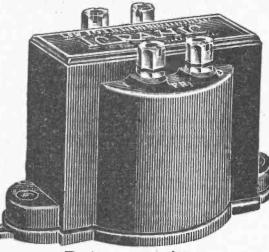
-Something New-DON'T-MISS-IT!

IGRANIC L. F. TRANSFORMER TYPE "J."

The Igranic L.F. Transformer Type "J" has been developed to meet the demand for a Low Frequency Transformer which, while being of small dimensions, comparatively light in weight, and reasonably priced, is thoroughly efficient in performance, and which will give amplification of a standard comparing favourably with heavier and more expensive types of Instruments at present on the market.

The Igranic L.F. Transformer Type "J" meets all these requirements admirably. It is a remarkably efficient instrument, measuring only 3 3in. long by 1 3in. wide, by 2in, high, and weighing approximately 10 ounces. Its light weight and small dimensions constitute features which render the instrument particularly suitable for incorporation in portable receivers.

The D.C. resistance of the primary winding is of a very low value, so that there is no appreciable voltage drop in the anode circuit of the valve, and the full available H.T. voltage is, therefore, applied to the anode of the valve.



A filter condenser is permanently connected across the primary winding, and is housed inside the outer casing which is moulded of best quality Bakelite, and ia, of very attractive appearance.

We can assert with confidence that the performance of this transformer is definitely better than any other transformer of similar size and price, and including many instrument selling as considerably higher prices. Supplied in two ratios, 3.1 and 6.1,

Price, 27/6

Price, 27/6

As a result of the particular design which has been adopted, it has been found possible to dispense with the usual metal case without fear of interaction. The terminals are clearly marked for connections and a soldering tag is provided for earthing the core of the transformer.

NOYES BROS.

(Sydney), Limited),

SYDNEY II5 Clarence Street M BRISBANE Perry House, Elizabeth Street NEWCASTLE II Watt Street PERTH (Melbourne), Pty., Limited,

MELBOURNE	495 Bourke Street
ADELAIDE	119 Pirie Street
HOBART	36 Argyle Street
LAUNCESTON	59 George Street
J. R. W. GRAHAM & CO.	



Perth: J. R. W. Gardam.

5000

STAND

E ACH year the might of Philips in the world of Radio

MISLERICI III

the Radio Exhibition of 1929 rings up the curtain on the latest array of Philips mighty products.

Emanating from the minds of the world's greatest sea in the Philips laboratories, these new Philips productives from their final gruelling tests--precision-built unit, wild artie the radio world by their ingenuity and sterling efficiency.

You Have Not Seen the Exhibition If You Have Not Visited See



AT THE RADIO AND ELECTRICAL EXHBITIOWN HALL, SYDNEY

Friday, 3rd May. 1

Why YOU should visit RADIOKES BOOTH 27 (Great Hall) Same location as Tast year RADIA SHOW TOWN HALL SYDNEY

Because Radiokes has long been recognised as the leading line of fine coil kits and R.F. equipment, therefore there will be a view the latest and best the art has to offer.

Because thousands of fans who visited our stand at last Exhibition were pleased and enlightened with the information they received concerning their own particular Radio troubles.

Because the New Season's Construction Sets will be shown there, and explained by Radiokes Demonstrators. Because last, but by no means least, the New Radiokes Four Valve All-Electric Receiver will be shown for the first time, and you owe it to yourself to see this wonderful receiver, which bids fair to be the most popular factory-built set for the forthcoming re-500

THIS SEASON'S MOST POPULAR CONSTRUCTION SET, THE 1929 ULTRA NEUTRODYNE, will be on show, and we advise you to build same.

Coil Kit and other Radiokes Components are specified for this season's most popular Broadcast Receiver. Once again Radiokes products are the choice of the Technical Editor, and he knows how to appreciate quality and efficiency.

On right is iBustrated the Radiokes Collapsible Aluminium Shielding Box. These Shields are designed and manufactured to obviate the necessity of every home constructor becoming a sheet metal worker. These boxes are carefully designed and sceutately manufac-tured, and after your wiring is completed, they are assembled in your set wilk case, speed, and precision, making the perfect shielding device. Standard boxes. 9in. x 6in. x 5in. Price. 15/- cach. At left is illustrated the most modern and efficient little Neutraliser yet produced, At left is illustrated and any product, and is very small in size, although the state of the sta although atly Above is shown the latest product of Radiokes Inboratory and fuctory. This is, perhaps the finest little Midget

Condenser yet produced. See one for yourself, study the ac-euracy of manufacture, feel the smooth, velvety action, and this cos denser will always be your chain. Mude la five mixes, priced from 47 to 8/6 each.

This Genuine Hareitine Neutrodyne Coll Kit by Radlokes represents the Latest development in the famous Neut-rodyne system of R.F. amplification. Ns a popular Five-valve Receiver the Neutrodyne "will sure take some beat-ing." and this new small coll kit will tend to make this famous circuit still Radlokes De Luxe Bakelite construe-ton. Price per kit, 37/6.

+12

Radlokes Radlo Frequency Chokes are too well known to require any description here. They are a necessity in practically every modern receiver. No "Ordinary" Choke can replace Radlokes, for this choke is super efficient, is small, regged, easily mounted, and wired in set, and moderately priced at 5/6 each.

Obtainable from all High-class Radio Dealers, or direct from Manufacturers.

METROPOLITAN ELECTRIC CO. LTD.

RADIOKES HOUSE, 126-130 Sussex St., Sydney, or York House, 294 Little Collins St., Melbount

Local Programmes, Friday, May 3

2FC

EARLY MORNING SESSION.

Announcer: A. S. Cochrane. 7.0: "Big Ben" and announcements. 1.2. Official weather forecast rainfall; river re-ports; temperatures; astronomical memor-anda. 7.1:"Sydney Morning Herald" sum-mary, 7.12: Shipping intelligence; mail scr-vices. 7.15: Studio music. 7.25; investment market; mining sharemarkets; metal quota-tions; wool sales; breadstuffs markets; inter-state markets; produce markets. 7.40; Studio musc. 8.0: "Big Ben"; clase. MORENIOG SFESSION. Announcer: A. S. Cochrane.

MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.23 Janoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25; Studiu music. 10.45: A talk on Home Cooking and Recipes, by Miss Ruth Furst. 11.0; "Big Ben"; A.P.A and Reuter's Cable Services 11.5: Close,

MIDDAY SESSION,

Announcer: A. S. Cochrane.

Announcer: A. S. Cochrane. 12.0: "Big Ben" and announcements: 121. Stock Exchange, first call. 12.3: Official weather forecast; rainfall. 12.5: Studio nusic. 12.10: Summary of news. "Sydney Morning Herald." 12.15: Rugby Wireless News. 12.18: A reading. 12.20: Studio music 10: "Big Ben"; weather intelligence. 1.3; "Evening News" midday news service; Pro-dueers' Distributing Society's report. 1.20; Studio music. 1.23: Stock Echange, second call. 1.30: From the War Menorial Carillion. Dniversity of Sydney—A Recital. 2.0: "Big Ben"; close. Ben"; close. AFTERNOON SESSION.

cer: Studio-Ewart Chapple; Town Hall-Laurence Halbert Announces

Announce: Stidle-Evart Ohaple; Town Hall-Laurenee Halbert Accompanist: Kathleen Roe. 230: Programme announcements. 2.32: The Book Lover's Corner. 3.0: "Big Ben"; popu-ir music. 3.16: Rev. Father T. A. Walsh J. will speak on "Mediaeval Menus." 3.30: Elg Ben: from Svdney Town Hall-Radio and Electrical Exhibition, 1929. William Bowyer, usso, and conductor of the Ashfield Chorai Celetrical Exhibition, 1929. William Bowyer, usso, and conductor of the Ashfield Chorai Celetrical Exhibition, 1929. William Bowyer, usso, and conductor of the Ashfield Chorai Celetrical Exhibition, 1929. William Bowyer, usso, and conductor of the Ashfield Chorai Celetrical Exhibition, 1929. William Bowyer, usso, and conductor of the Ashfield Chorai Celetrical Exhibition, 1929. William Bowyer, usso, and conductor of the Ashfield Chorai (Speaks). 3.38: Rene Burkitt, the bril-ian' (Speaks). Sas: Rene Burkitt, the bril-ian' toung violinist of whom great things are presaged in the future-(a) "Melody" Dawes). Col "Minuet" (Beethoven). 3.48: Dismal Desmond, comedian-He's fust natur-aly funny, 3.56: Neen Burkitt, violin-metus" (Huhn). 4.10: Rene Burkitt, violin-metus" (Denzonetta" (D'Ambrosie). (b) Maurkas" (Drofta). 4.17: Neen Hailett, popular woolist. 4.24: Dismad Desmond, come-tion A30: From the studio-Mirs Scott will peak on the Character of Lady Macbeth in omnetion with the forthcoming intermedi-use call. 4.47: Popular music. 5.0: "Big en"; Chese EALTY EVENING SESSION,

hird call. 4.47: Popular music. 5.0: "Big Ben"; Clase EARLY EVENING SESSION, Announcer: A. S. Cochrane. 5.40: The chimes of 2FC. 5.45: The Chin-den"; letters and storles; music and enter-almment. 6.30: Daleetv's market reports wool, wheat, and stock). 6.40: Fruit and metable markets. 6.43: Stock Exchange in-termation. 6.45: Weather and shibbing news, 448: Rugby Wireless news. 6.50: Late sport-mer news. 7.0: "Big Ben"; late news service. 10: Specially selected recital of dinner music. ing news. 7.10: C music.

EVENING SESSION. Announcer: Laurence Halbert, Accompanist: Ewart Chapple, 720; The Consul-General for Poland will be a short address. 140: Popular music.

146: Propulat Indiac. 146: Populat Announcements.. 148: Studio items. 10: From the Theatre Royal, by arrange-ert with J. C. Williamson, the Pavlova Or-

8.30: From the studio, Roy Dunne, baritone, 6.37: Will Carter—Australian bush bush Sketches

8.47: Bertie Wright, comedian. 8.57: Weather report. 8.58: From the Theatre Royal, by arrange-ment with J. C, Williamson, the Pavlova Or-

chestra. 9.20; From the Studio-Roy Dunne, bari-

9.27: Will Carter, Cameos of the Bush. 9.27: From the Theatre Royai, by arranga-ment with . C. Williamson, the Pavlova Orthestra. 10.16: From the Studio-Bertie Wright,

comedian. 10.26; To-morrow's programme and late

10.30: National Anthem; Close.

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2BL

MORNING SESSION.

2BL HORNING SESSION. AMOUNCE: A. C. Stevens. Store of the second seco

market reports (wool, wheat, and stock). 6.40; market reports (wool, wheat, and stock). 6.40; Fruit and vegetable markets. 6.43; Stock Ex. change information. 6.45; Weather and ship-ping news. 6.48; Rugby wireless news. 6.50;

Late sporting news. 7.0: "Big Ben." Late news service. 7.10: A recital of selected records.

EVENING SESSION.

EVENING SESSION. Accompanist: Kathleen Roe. Accompanist: Kathleen Roe. 8.0: G.P.O. chimes. 2BL Topical Chorus. 8.2: From the Sydney Town Hall, Radio and Electrical Exhibition, 1929. 2BL Light Orchestra, conducted by Horace Keats-"Ballet Russe" (Luigini). 8.12: "La Giocanda" Vocal Quartet, lead by Dorothy Benbow, of the late Will 'son-Melba Grand Opera Co. (a) "Annile Laurie." (b) "The Rosary" (Nevin). (c) "There are Eyes" (Keyes). 8.20: Harrison White, hanjo solos-(a) "Invercargill" (arr. Harrison White). (b) Selection. "Swannee Medley" (arr. White).

- (b) Sele White).
-) One-step, "Popular Selection" (arr. White). (c)

White).
8.27; Frank Rvan. comedian—

(a) "Some Stories"
(b) "The Girl on the Stairs" (Henry).
8.37; Carlton Fay, planist—

(a) "Concert Polonaise" (Englemann).
(b) "Valse Caprice" (Rathbun).

8,44: Rowell Bryden, baritone —

(a) "Concert Polonaise" (Database)
(b) "Valse Caprice" (Rathbun).

8,44: Rowell Bryden, baritone —

(a) "Concert Polonaise" (Database)
(b) "The Muleteer of Malaga."
8,50: 2BL Light Orchestra, conducted by Horace Keats—

n.00. 201 light criticism criticism (Strauss).
"The Chocolate Soldier," (Strauss).
8.0: G.P.O. chimes. Weather report.
9.1: C. R. Dexter-last-minute sporting in. 9.1: C. R. Dexter-last-minute sporting in formation 9.16: La Gloconda, Vocal Quartet-(a) "Sweet and Low" (Barnby). (b) "Carolina" (Stathan). (c) "The Last Rose of Summer' (Vin-

(c) The Last Asso of the cent.
(d) "Happy Song" (Del Riego).
(e) "Aloha" (Liliukalani).
9.26: Harrison White, banjo solos-(a) Classic, "Elegy" (Massenet).
(b) Fox-trot, "Listen to This" (Grimebaw)

shaw). 9,33: Frank Rvan, comedian. 9,43: 2BL Light Orchestra, conducted by

Horace Keats-"The Vagabond King" (Friml). Selected.

10.0: G.P.O. chimes. Rowell Bryden, bart-

10.0: G.P.O. Chimes. Robert Legender tone. 10.7: Carlton Fay, planist. 10.14: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 10.32: Late weather. 10.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 10.59: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 10.59: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 11.30: National Anthem. Close,

2GB

2GB 10.0: Music. 10.10: Happiness talk, by A. E Bennett. 10.20: Music. 10.30: Women's Session, by Miss Helen J. Beegling, 11.30: Close down. 2.0: Music. 2.5: Women's Radio Service, by Mrs. D. Jordan. 2.30: Talk. 2.45: Music. 3.16: Close down. 5.30: Children's Session, by Uncle George. 7.0: Music from tudio. 8.0: William Green, tenor. 8.7: Mr. Gregory Valentine. violinist. 8.15: Miss Gwen Selva. soprano. 8.22: Instrumental music 8.30: A humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 8.35: Mr. Edward Barro, barttone. 845: Address by Professor E. Wood, 9.0: Weather renort. 9.3: Miss Ada Fronc. 9.20: Mr. Gregory Valentine. violinist. 9.30: A humorous interlude by Mr. Jack Win and Mr. Heath Burdock. 9.35: Miss Gwen Selva. sovrano. 9.45: Instrumental music. 9.55: Mr. Edward Barry, barttone. 10.5: Dance music. 10.30: Close down.

2UW

EVENING SESSION.

5.30: Children's Hour, conducted by Uncle Jack, 6.30: Close down. 7.0: G.P.O. clock and chimes. Request numbers. 9.0: G.P.O. clock and chimes. Comments on foreign affairs. by Mr J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

Interstate Programmes, Friday, May 3

3LO

EARLY MORNING SESSION

7.15: Morning melodics; exercises to music, 7.30: Stock reports. Stock Exchange information. Mar-ket reports. General news. Shipping and sport-ing information. 8.0; Melbourne Observatory time signal. 8.16: Close down.

MORNING SESSION

11.0: To-day's Radio Recipe: Harloot Beans. 11.6: Grace Tyers will speak on "Great Russian Writers and Their Stories"—"Turgeniev." 11.26: "Au Failt" will speak on "Fashions," vogues sponsored in the smart shops of Melbourne. 11.45: Under the sus-plees of the Department of Health, Dr. Rowan will speak on "Health and Euvironment."

MIDDAY SESSION

MIDDAY SESSION 1.2.6. Melbourne Observatory time signal. 12.1: Prices received by the Australian Mines and Metalian term of the Australian Mines and Metalian Australian Official vireless news from Rugby. Returns and the Australian Press Association uables. "Argus" news service. 12.15: Newmarked stock sales. Special report by the Associated Stock and Station Agents, Bourke Street, Melbourne. 12.20: Ceneral programme, Including: Scala Chostakoff, unor: The Station Orchestra; Ciella Genoni M'Neil, soprano. 1.5: Meteorological Information. Weather for the station of the Argustan Market to the station of the Argustan Market to the station of the Street, Melbourne. 12.80: the station of the street of the station of the street to the station of the street of the station of the street to the station of the street of the station of the street to the station of the street of the station of the street to the station of the street of the street of the station of the street to the station of the street of the station of the street of the station of the street of the station of the street to the station of the street of the

AFTEBNOON SESSION

3.45: General programme, including: E. Mason Wood, baritone; Gecli Parkes, violin: "The Smith Orirs": Frank Johnstone, 'cello; Madoline Knight, contraito; The Strad Trio; Miss Frances Fraser will speak on "Kipling"; E: Mason Wood, baritone. 4.64: "Hcraid" news service. Stock Exchange in-tormation. 5.0: Close down.

FARLY EVENING SESSION

6.0: Answers to letters and birthday greetings by "Billy Bunny." 6.25: Musical Interlude: 6.30: Capt. Donald MacLean: Another adventure story.

EVENING SESSION

EVENING SESSION 6.50: Madame Soward: "French Wilhout Tears." 7.5: Stock Exchange information. 7.15: Official re-port of the Newmarket stock sales by the Asso-ciated Stock and Station Agents, Bourker, Street, Mebourne. Fish carter of the stock sales of the so-tic at Robin prices. There reports by I. R. Borrett tid. Rabin prices. Narket reports by I. R. Borrett tid. Rabin prices. Narket reports by the Victorian Produces: Oc-operative Co. Lid. Farm and dairy produce and carcase meat reports. 7.30: News ses-tion. 7.45. Birthday greetings. 7.40: Not of the ment of Arriculture. W. B. Miller, Inspector of Agriculture, will speak on "Wheat Growing-Pick-ing Methods."

NIGHT SESSION

NIGHT SESSION 8.0: Programme announcements. 8.1: H. K. Love will speak on "Technicalities." 8.1:6: Collingwood Clitzens' Band. March, "The loray Firth"; entracte, "Chanson Triste" (Tschal-owský).

Eowsky). 8.25: E. Mason Wood, baritone: "Onaway Awake, Beloved" (Cowen). "You Along o' Me" (Sander-

Beloved" (Cowen). "You Along o ase (sander-son). 8.32: Collingwood Citizens" Hand: 'March. "The Long, Bright Line'; waitz, "The Desert Song." 1.40: "The Smith Ciris': "Sweet Luane" (Earle). "outhern Mernories" (MacArthun." To the Sea" 6.47: Inn MX:"entropy and the Sea" "AD., active MitDowella." To the Sea" "AD., active MitDowella." (MitDowell). "Date: The Sea" (MitDowell, "Alban Harses" Op. 28 No. 3 (Griegs). "Behceuse" (Griegs). "Entierity." "Little Brid." "Erotte"..."To the Spring" (Griegel. "Juba Danse" (Dett). 9.17: Ciella Cenoni M'Neil, soprano: "Ohl begil occhi di fata" (Chenza). "Caro Nome," from "Rigo-tetic" (Yerdi).

ochi di fatti' (Denza). "Caro Nome," from "Rigo-tetto" (Verdi). 9.24: Collingwood Citizens' Band: Selection, "Pati-

ance. ance." 9.34: E. Mason Wood, baritone: "Oloze Props" (Charles). "I Hear a Shepherd's Pibgorn" (Will-

(Charles). "I Hear a Shepherd's Pilogern" (Will-iants). B.41: The Imperial Russian Thic: "Thic in E P.41: The States of the Scherrer of the Scherrer ice British official wireless news from Rusby. Netcorological information. Announcements. 10.15: Collingwood Citzens' Band: "TAdleu" Beethovon. March. O.H.M.S. 10.25: The Smith Ulspeak on to-morrow's races at Mentone. Wich will speak on to-morrow's races at Mentone. "Culmull, "Your Eyes" (Rubey) 10.48: Err Hall's Radio Revellers. with Hugh Insth ni: "Just Keep Singing a Sang" (Ssel), "Gipt." (Gilberth, "Honey" (Shmons). "Flower of Curv" (Rubr), "When the Right One Comes Along" ("Che-ti. "Wear a Hat With a Silver Lining" "Springer, the March State.

(Cihe-i), "Wenr (Sherman), 11.20 "God Save the King."

3AR

MORNING NEWS SESSION

10.0: G.P.O. clock sizes "Ten." 10.1: Market re-pert. farm and station produce, fruit, fash, vege-table 10.25: Shipping reports; ocean forecast tal notices; express train information, 10.35 Flows service. 10.35: Weather forecast. allows ser

MORNING MUSICAL SESSION

11.6: The Radio Revellers. 11.20: Baliads. 11.30: The Radio Revellers. 11.50: Beautiful ballads. 12.0: The Radio Revellers. 12.20: British official wire-less news; announcements. 12.30: Close down.

AFTERNOON SESSION Announcer: Maurice Dudley. Announcer: Maurice Dudley. D: Measured Minstrelsy-selections by world-us bands, interspersed with vocal variations. Close down. · n.

e., 4 30 EVENING SESSION

6.0 Regal Rhythms. 7.10: News service; announce-ents. 7.20: Regal Rhythms continued. NIGHT SESSION

NIGHT SESSION Announcer: Renn Millar. 8.30: Community singing-transmission from Cen-tral Hall, Cong. 10.30: "Age" news aervice, exclusive to 3AR; an-nouncements. God Save the King.



To Interstate Programmes

- FRIDAY, MAY S-3LO 3AR. 400. 5CL. 6WF. 7ZL 36 SATURDAY, MAY 4-3LO. 3AR. 4QG. 5CL. 6WF. 7ZL 40 SUNDAY MAY 5
- 3LO, 3AR, 4QO, 5CL, 6WF, 7ZL 43 MONDAY, MAY 6-
- 3LO, 3AR, 4QG, 5CL, 6WF, 7ZL ... 46 TUESDAY, MAY 7-
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THURSDAY, MAY 9-3LO. 3AR. 40(3. 5CL. 6WF. 7ZL 58

40G

EARLY MORNING SESSION.

7.43: Time signals 7.45: News service 8.0: Some electric records 8.15: News service 8.30: Close down.

MORNING SESSION.

11.0: Music; social news, etc. 11.15: Lecturette, A cookery and household talk by "The Etiquette Girl." 12 (noon): Close down. MIDDAY SESSION.

1.0: Market reports and weather information 1.20 Lunch-hour music. 2.0: Olose down, AFTERNOON SESSION.

0: A programme of electrically-reproduced recoid 0: Mail train running times. 4.15: Afternores. 4.30: Close down. records

EARLY EVENING SESSION.

EARLY EVENING SESSION. 6.0: Mail train running times; mail information: shipping news. 6.5: Dinner music. 6.25: Com-mercial announcements. 6.30: Bedlime stories, con-dusted by "The Sandman." 7.0: News in brief. 7.5: Stock Exchange news. 7.6: Metal quotations. 7.7: Market reports. 7.30: Weather information. 7.25: Fenvick's stock report. 7.40: Announce-ments, 7.43: Standard time signals. 7.45: To-morrow's sporting fixtures reviewed.

NIGHT SESSION.

Vera Parker (contraito) and Jack Land (teor)-"Who is Sylvia?" (Keerton). 9.0: Metropolitan weather forcest. 9.1: Week-end road information for motion ficially supplied by the Royal Automobile Chb d

1: Westploid The additional task for meters efficially supplied by the Royal Automobile Ch at Queensland.
9.11: John Steele (tenor) -- "Nighttail at Sea" (Phillips).
Duble Quartche- Porest" (Hume: "Dumon" (Stronge).
Lou Lambert (baritone) -- "Vier (Russel).
Enc Anderson (violinis) -- "The Automotive (Balte).
Double Quartche- "Balta (Goundo).
Wers Parker (control) at ack 'land (tess-"The Hour is Late' (Goundo).
Wers Parker (control).
Wers Wers (control).
Wers Parker (control).
Wers Wers (control). 9.1: officially su

5CL

MORNING SESSION

MORNING SESSION Announcer: C. J. O'Connor, 11.0: Chime ILI-Morning melodies. 11.15: Kitchen craft and zer talk. 11.45: Mr. L. G. Cant will speak on "pa-Aid to the Jnjured." 12.0: Chimes 12.1: Md-an music, 12.15: Cheneral news service. Brith d-clal wireless news. 12.52: Raliway informance Stock Exchange, and meteorological informatic 1.0: Chimes. 1.1: Lunch-hour recital 1.0: Chime

AFTEENOON SESSION 3.0: Chimes. General programme, including-th-Solomon Sisters, instrumentalists: Aite Makin se prano; Angelo Demodena, mandolnist; Emice h-metto, the Danish Caruso; Jack Stork, hr is-man Hater. 4.15: A short lecturette, sin Du-traitve recordings, by Horace Perkins, Mu. 12: AM.U.A. "Sinfonia" (J. C. Basch). "Exart lad Corder and Lowe), "Boleman Melody" (Mater Davies), "1812 Overture" ("The Matcharath, 43 Stock Exchange Information. 5.0: Close dog Excention Section 2015 (Stock Section 2015)."

6.0: Chimes. 6.1: Birlinday greetings, correspondence, songa, und atories, by "Miss Wirker" 6.40: Chimese and the Far-North." 5.45: Disr music, 7.0: Chimes. 7.1: Stock Exchange likes iton. 7.5: General market reports. 7.10: SCH spe-ing service, supplied by "Silvis". 7.58: Exc Minchin. 7.40: Leo Thistleton's fourth less Minchin. 7.740;

ing service, support Minchin, 7.40: Leo Thistieton's Iourus and Minchin, 7.40: Leo Thistieton's Iourus and Minchin, 7.40: Leo Thistieton's Iourus Sonti's Palais Royal Band.-"Buebard, Bark & Song" (Davis), "Promise Me" (Tan Dovki, Terr seven Ginger-headed Saltors" (Famus), 162 M Mallon, soprano, selections from the spring Salt & Stocks, the Woman Bark spring Band.-"High Up On a Hilliog" (Bark, "Salt Sa Band.-"High Up On a Hilliog" (Bark, "Salt Sa Band.-"High Up On a Hilliog", Bark Salt birds are Bluebirds Now" (Friend, "There is Bas Palmetto, the Danish Caruso-selection fra ust (Beethoven), "Salut d'Amour" (Errand En st.47: Alice Mallon, soprano-selections fra st.47: Alice Mallon, soprano-selections fra st.47: Alice Mallon, soprano-selections fra st.47: Alice Mallon, soprano-selections fra

bow Round My Shoulder" (Dyerer). 6.3: Emic Palmetic, He Danish Gruso-selections from is reperiolre. 8.40: Cuido Giacchino, 'eellis-'ee-uet (Beethvoren), 'Salut d'Amour' (Edrard Bu-Reset), Salut Status, 'Edrard Bu-reperiolre. 6.54: Bosk-Smith's Palias Royal "Me and the Man in the Moon" (Lesle), 'Reno Backet', Shakak' (Toblas, 9.0: Chimes, 9.1: Moes-logical information, including Semaphore tifs si Oversea grain report, 9.3: M. C. T. Madgan, M. B. Sc., F.C.S., Will conclude his series of ab on "Life in the Antacriti" 9.12: Rost-Salut? Palais Royal Band--'Lify of Laguna' (Stuard, 'n Sorry, Saliy') (Kahn), 'Alabama Stomy' (Sacwa 9.23: Guido Giacchino, 'cellist--'Berenad' Sab-bert), "Spring Sorg' (Mendelsson) fi Jack Stocks, the Woman Hater-More Yam Band-''Bouquet of Memories' (Ants), 'Salupe Waltz' (Bisk), 9.45: P. H. Nicholla, Statist by Bow Francis, in 'Othello.'' 10.0: Chimes, 10.1: Inne Palmetto, the Danish Caruos-elections for a repertoire. 10.7: Boske-Smith's Palais Royal Band-''Saliy of My Dreams' (Karnel), 'Sonetuse is ''Saliy of My Dreams' (Karoli, 'Sonetuse is ''Saliy of uses at Morphetiville and Menton Hat Modern dance numbers by the Radio Review Lis Modern dance numbers by the Radio Review Lis Close down.

6WF

12.30; Tune in. 12.35; Markeis, news, str. 12 Time signal. 1.1: Weather bulletin, supplied the Moteorological Bureau of West Australia 13 Musical programme from the studio, including tem

EVENING SESSION

AFTERNOON SESSION

Close down

Page Thirty-Seven

by the Studio trio, comprising Miss Audrey Dean. (piano), Miss Edna Waterman ('cello), Mr. H. T. Newton (violin). 2.0: Close down. 3.30: Tune (piano), Miss schink waterman (cello), Mr. H. T. Newton (violin). 2.0: Close down. 3.30: Tune in. 3.35: Musical programme, relayed from the Primrose Cafe-lems by the Misses Chapman and Murshall. 4.30: Close down. 6.45; Tune in, 6.48: Bedtime stories by Uncle Duffy. 7.5: Light 5.48: Bedtime stories by Uncle Duffy. 7.5: Light must by the Perth Plano Trio. comprising Mr. H. Snirisy (plano), Mr. R. Droarley ('cello). 7.30: Commercial and general information. 7.45: Racing talk by the sporting eillor of the "Truth" Newspaper Co., Lid. 8.0: Time signal. 8.1: First weather bulletim. 8.3: tens by the Katoomba Instrumental Ducy vocal srists from the studio. 8.50: Late news items, pourtesy of "The Daily News" Newspaper Co., Lid. station announcements; ships within range announcement; late weather bulletim. 8.8: Gardening talk by Mr. James Conarty, 9.12: Programme continued from the studio. 10.30: Close gow. 104.5-METRE TRANSMISSION

104.5-METRE TRANSMISSION

Simultaneous broadcast on 104.5 metres of pro-gramme given on 1250 metres, commencing at 8,45 p.m.

7ZL

MIDDAY SESSION.

MIDDAY SERSION. MIDDAY SERSION. 11.30: Selections. 11.30: Midlands Weather fore-cast. 11.35: Selections. 11.55: Tasmanlan sta-tionop and the selections. 11.55: Tasmanlan sta-tionop and the selections. 12.00 Chimes. 12.17 and notices: housewire subtribute commercial news. and notices: housewire subtribute commercial news. 12.20: Selections. 12.11: Britis commercial news. 12.30: Selections. 12.20: Annon commentes 12.33: Selections. 12.55: News service: Railway suction produce sales held at Railway. 1.10: Selec-uons. 1.30: Close down.

AFTERNOON SESSION.

3.6: Chimes. 3.1: Selections. 3.4: Weather. 3.5: Selections. 3.15: A Studio concert. 4.15: Miss M. D. Wilson; instructuress of dressmaking, fill speak on "Autumn Fashions." 4.30: Close

EARLY EVENING SESSION.

6.15: Selections. 6.25: Birthday, retings by "Incle David" and "The Story Lady." 6.30: Little Molly Horlock will play the plano for the wee tok-"Minuet in Q" (Beethoven), "Rose at Papil-ar" (Wacks). 6.40: Selections. 7.0: Answers to letters by "Uncle David" and "The Story Lady." 1.10: News service: Railway, auction produce sales bed at Railway; Hobart Stock Exchange quotastions.

EVENING SESSION.

<text><section-header>



Seven different cot-ored leads under one water, acid and tame proof cover-ing. No matter how far your set VAR-LAO will resch them. Norm these untidy wires and wire these untidy wires and the second the second second to Neathab Battery Cable for Neathab Battery Cable for Neathab Battery Cable for the second second second thit leans.

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AER'S

PITT, MARKET AND GEORGE STREETS

Local Programmes, Saturday, May 4

2FC

EARLY MORNING SESSION. Announcer: A. S. Cochrane.

Announcer: A. S. Cochrane. 7.0: "Big Ben" and announcements. 7.2: Official weather forecast rainfall; river re-ports; temperatures; astronomical memor-aida. 7.1:"Sydney Morning Herald" sum-mary. 7.12: Shipping intelligence; mail ser-vices. 7.15: Studio music. 7.25: Investment market; mining sharemarkets; metal quota-tions; wool sales; breadstuffs markets; inter-State markets; produce markets. 7.40: Studio nusic. 8.0: "Big Ben"; close.

MORNING SESSION.

Announcer: Eric Bessemer. Announcer: Eric Bessemer. 10.0: "Big Ben" and announcements. 10.2: Pianoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.30: Last minute sporting informa-tion by the 2PC Racing Commissioner. 10.40: Studio music. 10.45: A talk on "Gardening" by J. G. Lockley ("Redgum"). 11.0; "Big Ben"; A.P.A. and Reuter's cable services. 11.5: Close down Close down

MIDDAY AND AFTERNOON SESSIONS.

Announcers: Ewart Chapple, Laurence Halbert.

12.0: "Big Ben" and announcements. 12.2: Stock Exchange information. 12.4: Studio music. 12.10: "Sydney Morning Herald" news service. 12.15: Rugby Wireless news. 12.20: Studio music 12.50: From Canterbury-De-scription of the races in the running. From the Studio during intervals, musical items by the Popular Trio. 4.45: Complete sporting and racing resume. 5.0: "Big Ben"; close.

EARLY EVENING SESSION.

EARLY EVENING SESSION. Announcer: A. S. Cochrane. 5.40: The chimes of 2FC. 5.46: The Chili-fren's Session, conducted by the "Helio Man"; letters and storles; music and enter-tainment. 6.30: Dalgety's market reports (wool, wheat, and stock); 6.40: Fruit and vegetable markets. 6.43: Stock Exchange m-formation. 6.46: Weather and shipping news. 6.48: Rugby Wireless news., 6.50: Late sport-ing news. 7.0: "Big Ben"; late news service. 7.10: The 2FC Dinner Guartette, conducted by Horace Keats-(a) "The Voice of Spring" (Strauss); (b) "Prelude in G Minor" (Rach-maninof; (c) "Syncopation" (Kreisler); (d) "Primrose" (Gershwin); (e) "Serenade Ly-rique" (Elgar).

EVENING SESSION.

Announcer: Ewart Chapple (Studio). Announcer: Laurence Halbert (Town Hall).

Accompanist: Horace Keats.

7.40: Popular music. 7.45: Programme announcements. 7.48: Studio items. 8.0: "Big Ben"; from the Sydney Town Hall-Radio and Electrical Exhibition, 1928. New South Wales Broadcasting Com-pany's Dance Band, conducted by Cec Morrison. 8.12: Radio Male Quartet winners in the



CARLTON FAY. an old favorite with listeners. who will be heard in to-night's programme from 2FO. He will play several compositions by Chopin. 8.20: Warwick M'Kenzie, violinist—
(a) "Obertass" (Wianiawski).
(b) "Home Little Maori, Home" (Hill).

8.27: Dorothy Dewar, popular vocalist—
(a) "There are Eyes" (Keyes).
(b) "Just Give the South Land to Me"

(Sissle).

8.35: Carlton Fay, one of Sydney's leading planists—
(a) "Nocturne F Sharp" (Chopin).
(b) "Impromptu F Sharp" (Chopin).
8.42: Phil Mountain, in comedy numbers—
(a) "The More we are Apart Sweetheart"

(Holt). (b)

) "What are you Goin to Do about Sa-lina?" (Castling and M'Ghee).

8.50: The New South Wales Broadcasting Company's Dance Band, conducted by Cec Morrison.

9.0: From the Studio-"Big Ben'; weather report.

9.1: Radio Male Quartet, winners in the recent Radio Eisteddod.

- 9.11: Warwick M'Kenzle, violinist-(a) "Absent" (Metcalf).
 (b) "Toy Soldier" (March).
- 9.18: Dorothy Dewar, popular vocalist-(a) "Mamby Make up Your Mind" (Hohstone).

stone). (b) "Westward Bound" (Sissle). 9.27: Carlton Fay, pianist— (a) "Carnival Time" (Lemont). (b) "On the Levee" (Lemont). 9.37: Studio Dance Band, conducted by Cec Iorticon 9.31' Studio Dance Band, conducted by Cec Morrison.
9.52: Phil Mountain, comedian—

(a) "If We Found a Little Corner'
(Long Scott).
(b) "Beautiful Dixieland."
9.59: Studio Dance Band, conducted by Cec Morrison

Morrison.

10.9: Phil Mountain, comedian. 10.16: Studio Dance Band, conducted by

10.10. Status Cec Morrison. 10.28: Late weather report. 10.59: Studio Dance Band, conducted by

10.57: To-morrow's programme. 10.59: Sutdio Dance Band, conducted by Cec Morrison.

11.30: National Anthem; close.

2BL

MORNING SESSION.

Announcer: A. C. C. Stevens.

Announcer: A. C. C. Stevens. 8.0: Weather report—State and metro-politan. 8.3: Studio music. 8.30: G.P.O. chimes. News and information service from the "Daily Teelgraph Pictorial." 9.0: G.P.O. chimes. Studio music. 9.30: G.P.O. chimes. Half an hour with slient friends. 10.0: G.P.O. chimes. Close down.

MIDDAY SESSION.

Announcer: A. C. C. Stevens.

Announcer: A. C. C. Stevens. 11.0: G.P.O. chimes. Women's session, conducted by Mrs. Granfield. What's on at the pictures and theatres. 11.30: Advertising hints. 11.40: Taik on "Gardening," by Mr. Cooper. Park Superintendent, City Council. 12.0: G.P.O. chimes. Special ocean fore-cast and weather report. 12.3: Studio music. 12.30: "Sum" midday news service. 12.40: Studio music. 12.50: "Sun" midday news service. 1.40: "Sun" midday news service. 1.50: Studio music. 1.40: "Sun" midday news service. 1.50: Studio music.

AFTERNOON SESSION.

Announcer: A. C. C. Stevens (Studio). Announcer: Basil Kirke (Town Hall). Accompanist: Kathleen Roe

Accompanist: Kathleen Roe 3.15: G.P.O. chimes From the Sydney. Town Hall, Radio and Electrical Exhibition, 1929. The Ahad Duo, novelty instrumental-ists-(a) "Twilight Shadows' (Nape), (b) "Medley" (Lawrence), piano, accordeon, and Spanish guitar. 3.37: Reg. Harrison, comedian -(a) "House to Let" (Squjers), (b) "Cricket" (Anon.). 3.44: Tom King, jazz pianist-(a) "Sonny Boy" (Jolson-Sylva-Henderson), (b) "Blue Night" (Rollins). 3.51: Doris Orr "Blue Night" (Rollins). 3.51: Doris Orr "Blue Night" (Carne), (b) "Live, Laugh, and Love" (Klein).

3,58: The Ahad Duo, novelty instrumenta-lsts-(a) "Hawalian March' (Cunha), (b) "Pil Pill Pol" (Cunha), 4.6: Reg. Harsan comedian-(a) "Winkle on Sea" (Scar, (b) "Gladys" (Stanley), 4.15: Description die Inter-collegiate Eights-the colleges are Ws-ley, St. Pauls, St. Andrew's, St. John's, 430 Description of the Junior Eights, 4.45: Romano Cafe Dance Orchestra, conducted by Bende Abrahams. 5.0: From the studio, "Sun" news service. 5.7: Studio music. 5.17; Pano. forte reproduction, 6.30: Complete racing resume. 5.37: Features of the evenings pro-gramme. gramme.

EARLY EVENING SESSION

Announcer: Basil Kirke.

Ancouncer: Basil Kirke. 5.40: Children's session, conducted by Uncle Bas. Music and entertainment Let-ters and stories. 5.30: "Sun" new serice 6.40: 2BL Dinner Quartette-(a) "Amb Blossoms" (Jacobi-Kreisler), (b) "A Hilde Melody" (Phillips), (c) "Bonemian Sudr (Ord-Hunne), (d) "Caroli" (Priere), (e) "Es, tasy" (Ganne), (f) "Everywhere I Loce (Carew). 7.7: Complete sporting and masses resume. 7.30: Mr. Pim and Miss Pam m advertising talks, handy hints, and nonsene 7.53: An ad. special. 7.55: Programme and other announcements. other announcements.

EVENING SESSION.

Announcer: Basil Kirke.

Announcer: Basil Kirke. Announcer: Basil Kirke. Accompanist: G. Vern Barnett. 8.0: G.P.O. chimes. Topical Choms Maheno Trio, instrumentalists--(a) "Pilikiko Biues" (Traditional). (b) "Kilima Waltz" (Traditional). 8.10: Billee Cresswell, popular vocalist 8.17: The Troubadours, 9.30: Weather report. 9.31: Maheno Trio, instrumentalists-(a) "Hawalian March" (Ellis). (b) "Hamo Hano Hanalel" (Ajohirea). (c) "Hamo Hanalel" (Ajohirea). (c) "Hamo Hanalel" (Ajohirea). (c) "Hamo Hanalel" (Ajohirea). (c) "Hamo Hano Hanalel" (Ajohirea). (c) "Hamo Hanalel" (b) "Ha

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

2GB

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

2UW

5.30: Children's Hour, conducted by Unde Jack. 6.30: Close down. 7.0: Request num-bers. 10.30: Close down. •



Friday, 3rd May. 1929.



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Page Forty

Interstate Programmes, Saturday, May 4

31.0

FARLY MORNING SESSION 7.15 to 8.15: See Friday

MORNING SESSION

11.0: The Radio Reveilers. 1.9: Joseph Holm. :nor. 11.16: The Radio Revellers. 11.25: Eric erich will speak on to-day's races at Mentone. .32: The Radio Revellers. 11.40: E. Muson Wood. ritione. 11.47: The Radio Revellers. barilone

MIDDAY SESSION

HIDDAY SESSION 1.2.0: The Radio Revellers. 1.2.0: Meionrie Ob-servatory tame signal. 1.2.1: Meia prices received from the London Stock Exchange this day. Eritish official wreless news from Rugby. Reuters and he Australian Press Association cables, "Argust" news service. 12.30: Joseph Hoim, tenor. 12.37: Stock Exchange information. 12.40: The Rudio Revellers, 12.40: Citika Genoni, Mineli, Soprano. 12.56; The Radio Revellers. 1.5; Meteorological in-formation, Vesalter forecast & Gry Victoria, News for octavity, Vesalter forecast & Gry Victoria, News for casts, River reports, Rainfall, 1.10: E. Mason for detainer, 1.45; Description of basebalt, Richmond v. Centen, at Mineli, Soprano. 1.33: The Rudio v. Centen, at Mineli A Mineli, Soprano. 1.33: The Rudio v. Centen, at Mineli A Mine

AFTERNOON SESSION

APTENDON SESSION APTENDON SESSION 13: Description of Rurdle race, 2 miles, Mentone mees, by Eric Weich 2.20: Description of base-particle of Mentone Plate, 6 furings, Mestione reserved to a second second second second to a second second second second second to a second second second second second second second to a second second second second second second second to a second second second second second second second to a second second second second second second second to a second second second second second second second to a second to a second second second second second second second to a second secon

EARLY EVENING SESSION

6.3: All sporting results. 6.10: Answers to let-ters and birthday greetings by "Little Miss Kooka-burra." 6.25: Musical inferiude 6.30: "Little Miss Kookaburra" knows a story about a little while wabit named "Snowy." He had such an adven-

To be an array of the second s

NIGHT BESSION

<text><text><text><text><text><text><text><text><text><text><text><text><text>

Cadman) Oliye Painter, mezzo-soprano: "Over the Blue" (Clarkel, "Will Ye No Come Back

Waters B

Waitrs Bink^{6*} (Clarkei, "Will Ye No Come Back Again?" (Naira). 10.27: The Station Orchestra: Selection, "Vaga-bond King" (Primi). Announcements. 10.40: The Radio Revellers (with Bugh Huxham). "It Goes Like This' (Gaesar). "What a Girl" Isandersi, "Dynamite" (Henderson). "The Dance of the Blue Dance" (Fisher), "Koastime" (Hall). "Bondersi, "Dynamite" (Rosetime" (Hall). "The Dance of the State of the State of the State of the Blue Dance" (Fisher), "Koastime" (Hall). "Bondersi, "Dynamite" (Bondersi, "Gastime") of the Good-night" (Donaldson). Selected. 11.30: "God Save the King."

3AR

JAK MORNING NEWS SESSION Announcer: Maurice Dudley. 10.4 to 10.59: See Friday. 11.0: The Discus Ensemble, Introducing Paul Whitemañ's latest releases and piano and violin selecticns. 11.50: British official wireless news; announcements: rates of exchange, as supplied by Thes. Cook and Son. 12.0: Close down. AFTIERNOUS SESSION

Anneolitic rates of exchange, as supplies or Thos. Cook and Son. 12.0: Close down. APTERNOON SESSION AMPTERNOON SESSION Announcer: Maarice Dudis. Major (Mendelssohn), Spring Song' (Mendels-sohn), "Impromptu in A Plat' varlations (Schubert), Crade Song' (Schubert), "Serenade' (Schubert), Urade Song' (Schubert), "Serenade' (Schubert), Lizzh, "Am Meer' (Schubert, Lizzh), "Meindle in O Flat' (Pederevski), 3.52: Syd Exton, tenop-"Sweet Early Violets' (Eberrington), "When The Mome Again (Wood), 4.0: The Station Orchestra "Scene: Poetiques' (Godard), 4.10: The Smith Orchestra (Hordert), Asprila Russian Tro (Artoel Norti, yiolin; Ivan Berzinsky, 'cello; and (Artoel Nort

NIGHT SESSION

- NIGHT SESSION Announcer: Renn Millar, 8.30: All sporting results. Boorting results. 8.30: The boung City Band-Walts, "Gleams of Gold" 8.40: Beth Corrie, contraito-"Along the Dusty Road" (Simpson), "Little Sunbonnet of Blue" (Hemery). 8.47: In Mornement, harpschord lessons-"Tempo di Ballo No. 4" (Scarlett), "No. 1 in A Major" (Scarlett), "No. 1 in A Major" (Scarlett), "No. 1 in A Major" (Scarlett), "Waltz in C Sharp Minor." "Waltz in C Sharp Minor." "Breine Major and E. Minor." "De Piat Major and E. Minor." "De Fiat Major and E. Minor." "De Fiat Bajor Minor." "De Teat Major and E. Minor." "De Teat Major and E. Minor." "In Calims Quartette-selected. 9.27: Dorothy Taylor, violin: Florence Elsworth, au-"Bong and no 1" (Dwach)

- nianc

- 9.27: Dorothy Taylor, violin: Florence Elsworth, anc-"Somata Op. 1" (Dvokak), "Larghetta" (Hande), Last Movement, (Dvorak), Last Movement, (Dvorak), Last Movement, (Dvorak), 9.47: The Colms Quartette-selected, 9.57: The Coburg City Band-10.7: Beth Corrie, contralto-"My Laddle" (Princess Troubetsky), "Sigmber Song" (Bennicke Hart), 10.44. The Coburg City Band-10.44. The Coburg City Band-10.49. The Service" (Manck), 10.20. New service" (Manck), 10.20. New service" (Manck), 10.30. God Save the King.

40G

MORNING SESSION 7.48 to 8.30: See Friday.

3.0: A programme of electrically-reproduced reces 3.30: Mail train running times. 4.15: This the noon's news. 4.30: Close down. EARLY EVENING SESSION.

AFTERNOON SESSION

a. Mail train "maning times, 4.15: The time soon's news. 4.30: Close down:
B. B. Bieweckin, news service for distre times for end time stories, conducted by "Oute be for the stories, conducted by "Oute be stories, conducted by the stories, conducted by t

5CL

5CL2 NORNING EXSION 12.9: Chiefene 12.1: Late selections for Marine farters and selections for Marphetrille Back 4 "Albund", 12.3: General news service. H.6: Sa Mailon, soprano. 11.8: Jack 5 Mailon, soprano. 11.8: Marphetrille-Riders and positions 1.5: From Morphetrille-Riders and positions for 1.46: From Horphetrille-Riders and positions for 1.46: From Horphe Goodwood Handlesh, MX Iurionks. 4-16: riom sephettville-Description of Goodwood Handlesh, Brush Steeplechase. Mentons. 3.3: Thebarton Oval-West Torrens v. Glenek, ds: tion of the play, by "Mo" Mamma, 3.1: Thebarton Oval-West Torrens v. Glenek, 3.1: Morphettville-Riders and positions for South set railan Stakes, seven furbages. 3.10: From Theat Oval-West Torrens v. Glenek, 3.2: Dr. From Magnet Ville-Description of South Australian Stakes. 1 Result, Mentome Handleap. 3.31: From These Oval-West Torrens v. Glenek, 3.2: From Merghettra-Riders and positions for the St. Leger Stakes mile and three-quarters. 3.50: Result, Meme Purse. 4.0: From Morphetiville-Description of St. 1: From Thebarton Oval-West Torrens v. (All: Thebarion Overlaw, oumper a rate, know 4.21: Thebarion Overla-Description, 4.32; Morpher, ville-Riders and positions for the Fisher Handlug, one mile and a quarter. 4.40: From Morphetiche-Running description of Pisher Handlug, 4.45; Fra

EARN ALL YOU CAN SAVE ALL YOU CAN-GIVE ALL YOU CAN

Such was the good advice of John Wesley. You are, of course, entitled to earn all you can, and no doubt are bending all your energies in that direction.

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Page Forty-One

Thebarton Oval-West Torrens v. Glenelg. 5.5: Resume of race results. final football scores, and close down.

EVENING SESSION

6.0: Chimes. Final football scores, and resume of race results. 6.5: Birthday greetings, correspondence, songs, and stories, by "The Wattle Lady." 6.30: Interlude of Dinner Music. 7.0: Chimes. 1.1: Stock Exchange information. 7.10: Rev. G. E. Hale, B.A .--- "Psychology-Thought Transference." 1.30: C. G. Riley on "Items of Interest." 7.45: 5CL's aporting service, supplied by "Slivius," including race results at Morphettylle and Mentone, and final football scores.

NIGHT SESSION

8.0: Chimes. 8.1: From the Malvern Methodist Church. Mendelssohn's Oratorio, "Elijah," to be rendered by the church choir, under the direction of the organist-Mr. Fred Pilgrim. Principal soloist (Elijah), Mr. Arnold Matters, A.M.U.A. Other soloists: Soprano, Miss Phyllis Webb, ip. Mus. M.G., Miss Joy Watson; contralto, Miss Una Andrew, A.M.U.A., Mrs. J. Williamson, A.M.U.A.; tenor, Mr. Lindsay Jessop, Mr. Lewis Dawe. Quartets: Soprano, Miss Lilian Waish. A.M.U.A., Miss Ina Mansell; contralto. Miss Martha Virgo, Miss Rosa Matters; tenor, Mr. Reg Gurner; bass, Mr. Ray Wood, Mr. Harold Tidemann, Mr. B. J. Cullen. 9.15: Meteorological information, including Semaphore tides. 9.16: Oveoseas grain report. 9.17: Announcements. 9.20: From Malvern Methodist Church. Continuation of Mendel-ssohn's Oratorio, "Elijah." 10.30: General news service. Meteorological information. 10.45: Modern dance numbers by the Radio Revellers. 11.0: Close down.

6WF

12.0: Tune in. 12.5: Racing anticipations re-pated for the bencht of our country listeners. 17. Pionotorte solos by Miss Audrey Dean; vocal lisma. 12.44: Markets, news, etc. 1.0: Time signal. 1.1: Weather bulletin, supplied by the Meteorological Bureau of West Australia. 1.3: Close down. 1.65: Tune in. 2.0: Sporting ses-uon-description and results of races run at the Peth Racecourse will be broadcast during the attennon. 3.30 (approx.): A description of the mete-State 8-cared boat race rowed on the Swan River will be described in progress, being re-broadcast from a portable transmitter installed on an excursion steamer. 5.30 (approx.): Close down. 12.5: Racing anticipations re-12.0: Tune in. an excursion steamer. 5.30 (approx.): Close down. 6.45: Tune in. 6.48: Bedtime stories by Uncle Daffy. 7.12: Sporting results. 7.30: Commercial 7.45: Talk. 8.0: Time and general information. and general information. 7.45: Taik. 8.0: Time semal. 8.1: First weather builetin. 8.3: Vocal and instrumental artists from the studio; relay of once music by Merv. Lyrom the studio; relay of oncerns from Temple Court Cabarct. 8.50: Late sens items, by courtesy. The Dally News' News-paper Co., Ltd.; station "The Dally News' News-phin range announcement; naucements; ships within range announcement; late weather builetin. Musical programme continued. 10.30: Close demo

104.3-METRE TRANSMISSION

Simultaneous broadcast on 104.5 metres of pro-panme given on 1250 metres, commencing at 8.45

7ZL

MIDDAY SESSION.

MIDDAY SESSION. 11.30 to 12.30: See Friday. - 12.30: 3LO last-mule selections for Meibourne races; also selec-ions for the Sydney races. 12.55: News service; adway auction produce sales held at Railway. 1.30: tose down. 2.35: Running description of the inde Race, iwo miles, run at Mentone Racecourse, 4.30: Rioman description of M. 2.00: Close down 1.46: Running description of M. 2.00: Close down 1.46: Running description of M. 2.00: Close down tebourne; Vietoria. 2.50: Close down. **ATTERNOON SESSION.**

AFTERNOON SESSION. 130: Chimes. 3.4.1 Transmission from the North matrix Oval. football match, Ocnamore V. Noth wet, described by Sid Jones. 3.15: Description of muth Steeplechase, two miles one furlong. Mentone tabourne. 3.20: Football match, Cananore V. Seth-west. 3.45: Description of Mentone Handi-a, mile and a quarter, Melbourne. 3.50: Foot-al match, Cananore V. North-west. 4.15: Descrip-tion of Menton, 4.45: Description of Jumpers' Flat mes, mile and a quarter, Mentone, Melbourne. 4.90: All sporting results to hand. 5.0: Close west.

EARLY EVENING SESSION

6.15: Music. 6.30: "Uncle David." letters and birthday greetings. 7.0: Answers 7.15: News

EVENING SESSION.

1.30: Roy Johnson Will speak on "Manual Train-train", 45: J. M. Coursel will speak on "European Prince of Wales Thesire, Macquaric Strate or Train of Wales Thesire, Macquaric Strate or Train of Wales Thesire, Macquaric Strate Str

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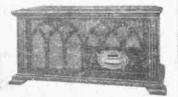
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WIRELESS WEEKLY

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Local Programmes, Sunday, May 5

2FC MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2: Studio music. 10.20: The Captain and his comradios. 10.35: The Comradios bookshelf. Connactos. 10.55: The Comradios bookshelf. 10.40: Studio music. 11.0: Fullerton Memorial Church, corner of Crown and Albion Streets, morning service, conducted by Rev. G. Cowie. 12.15: Approx. Close.

AFTERNOON SESSION

Announcer: C. R. Hall.

Announcer: C. R. Hall. 2.30: Programme announcements. 2.32: Cheer-up session, conducted by Uncle Frank. 3.0: "Big Ben." Popular music. 3.20: C. S. Yarwood will speak on "A. B. Paterson." 3.30: From the Manly Band Rotunda, Manly Beach, the Manly Municipal Band, conducted by James Pheloung 5.0: "Big Ben." Close.

EVENING SESSION.

Announcer: Laurence Halbert. "Big Ben." Programme announce-

6.0: "Big Ben." Programme announce-ments. 6.2: A talk by C. R. Hall. 6.22: Gwladys Fimister, soprano. 6.29: Kathieen Roe, planist. 6.38: Gwaadys Fimister, soprano. 6.43: Kathieen Roe, planist. 6.50: From St. Stephen's Presbyterian Church. Phillip Street. Minister, Rov. Hugh Paton. Organist. Mr. Harry Chandler, M.A. Organ prelude. 7 0: Doxology.

0: Doxology Hymn 197.

Lasson

Prayer. Psalm 40

- Lesson
- Anthem

- Hymn 159. Rymn 159. Sermon, "How Death Came in and Went York 5:41.)
- Hymn 195
- Benediction Vesper.
- Vesper. 830: From the studio. weather report. 8.31: From the Trades Hall, Lithgow-Overture, "Tancredi." Lithgow Municipal

Overture, "Tancrem, Lings." Band. 8.43: Eolo. "The Raft" (Pinsuti), Robert Cecil Nicholson. 8.47: Solo, "Soltiy Awakes My Heart" ("Samson and Delliah"). Rita Lawless. 8.52: Sacred item. "Nearer. My God, to Thee," Lithgow Municipal Band. 9.0: Solo, "The Piper of Love." Mrs. Mar-

- Thee," Lithgow Municipal Band. 9.0: Solo, "The Piper of Love." Mrs. Mar-garet Lean. 9.4: Characteristic number, "Sliding Thro' the Rye," Lithgow Municipal Band. 9.14: Solo, "Summer Night," Mrs. Robert Arthur Brouging. "Semiramide." Lithgow.
- Arthur Broun. 9.18: Selection. "Semiramide," Lithgow Municipal Band. 9.33: Solo, "Abertoyle," Josiah Prior. 9.38: Cornet solo. "Somewhere a Voice is Calling," John Tougher. 4.43: Tone poem. "Loreley," Lithgow Muni-
- 9.43: Ton cipal Band.

- elpai Band. 9.50: Solo, "Waltz Song" ("Tom Jones"). Mrs. Thomas Simon. 9.55: Vocal duet, "Soldiers and Comrades," Josiah Prior and Robert Cecil Nichols. 10.2: Popular numbers—(a) "Spanish Moon." (b) "Jeanine" (I Dream of Lilac Time). Littigow Municipal Band. 10.10: Solo, "The Carnival." James Simpson. 10.15: From the studio, a recital of celebrity records
- records. 10.28: Late weather and to-morrow's pro-
- grainme. 10.30: National Anthem. Close.

2BL

MORNING SESSION. Announcer: A. C. C. Stevens. 11.0: G.P.O. chimes.

- 1.0: G.F.O. cnimes. Bourke Street Congregational Church. Morning Service, conducted by Rev. Sydney Herbert Cox. Organist, Mr. Penn Hughes. Organ Prelude. Call to Worship. Call to Worship.

Doxology. Prayer of Invocation.

Hymn 438, "Fight the Good Fight." Responsive Reading, 792, Psalm 5. Offertory

Organ inserlude and Offertory Pravel. Solo, "God Touched the Rose," May Grace M'Clellard.

- Hymn 434, "Awake, My Soul Stretch
- Every Nerve." Pastoral Prayer and Lord's Prave
- (chanted). Anthem, "I am Alpha and Omera."
- Notices.

Anthem, "Holy Art Thou."

- Scripture Lesson.
- Boys and Girls' Story.
- hymn 369. "Jesus. Lover of My Soul Sermon. "The Life of Power." Rev. Stdney Herbert Cox.
- Hymn 410. "O Biessed Life, the Heart a Rest
- Benediction
- Organ Postlude.
- 12.15: From the studio, "Sun" news server 12.30: Studio music.

20: G P.O. chimes. Close

AFTERNOON SESSION.

Announcer: A. C. U. Stevens

3.0: G.P.O. chimes. From the Masonir Hal

Aue reld, programme arranged of m have reld, programme arranged of m have rield Methodist Church. 4.4.0: From the Studio. E. J. Davidson rå speak on the Tock H. Movement. 5.0: "Big Ben." Close.

EVENING SESSION.

Announcer: J. Knight Barnetl. Accompainst: G. Vern Barnett.

80.

- (a) "There is a Gound).
 (b) "Te Deum" (Redman).
 (c) chimes.
- (b) "Te Deum 7.0: G.P.O. chimes. Musical items.

Musical items. 7.15: The H. W. Varms Company in a sud-production of "Daniei." Specially written in the air by Mirs. Mary Leaney. Assisting w tists, Muriel O'Malley (contratio), Mature 8.15: Musical items. 8.29: From the Polish Association, 7: Street, an orchestral concert, arrange the Polish Association Orchestra. 9.30: From the Studio, Muriel Orchestra.

9.30: From the Studio. Muriel O'Malie

9.30: From the Studio. Multer Owner (contraito). 9.37: Madame Evelyn Grieg (duktione). 9.44: Muriel O'Malley (contraito). 9.51: Madame Evelyn Grieg (duktione). 9.58: A recital of selected celebrity recom-10.28: Late weather and announcement 10.28: United with an the selected selected of selected se

- 10.30: National Anthem.

2GB

Close

2GB 10.0: Organ music from St. Alban's Church Redfern. 10.30: Morrhing service 'tom St. Alban's Church. 12 noon: Close down 14 Musical session. 5.30: Children's Session & Uncle George. 7.0: Lecture from Advar he 8.0: Music from studio. 8.15: Concert ser vanged by courtesy of Winkworth and Sor pianoforte solo by the Uebel-Lechletter has 8.23: Miss Gladys Aubin, soprano. Gregory Valentine, violinist. 8.38: Mr. Is Howell, tenor. 8.45: Miss Heather Kinnat contraito. 8.52: Uebel-Lechletter piano Miss Gladys Aubin, soprano. 9.7: Mr. Gregory Valentine, violinist. 9.15: Mr. Len Bore tenor. 9.25: Uebel-Lechletter piano 15 Miss Heather Kinnalrd, contraito. 9.35: Car down.

2UW 10.30: Music and request numbers IF Close down. 5.30: Children's Hour, conduct by Uncle Jack. 6.30: Close down. 70; Ym-cal programme. 10.30: Close down.

down.

Interstate Programmes, Sun., May 5

3LO

MORNING SESSION. 10.30; Bells from St. Pauls Cathedral. 10.45; Express train information; British official wireless news from Rugby; news from yesterday's papers. 11.0: Morning service from Collins Street Baptist Church. Service closes at 12 noon, owing to subsequent Communion service. 12.0: Close down.

AFTERNOON SESSION.

2.0: Sonora recital of the world's most famous records. 3.0: Pleasant Sunday afternoon service, transmitted from Wesley Church, Lonsdale Street, Melbourne. Chairman: Rev. J. H. Cain. Address, Hon. R. C. Menzies, M.L.C. National Anthem. Bene-diction; orchestra. 4.30; Close down.

CHILDREN'S HOUR.

5 45: Shipping Information. 5.47; Answers to let-6.35. Suppling intrinsic of the second sec

EVENING SEBSION

7.0: Evensong, choral.

NIGHT SESSION.

8.30: Malvern Tramways Band-

- Overture: "Poet and Peasant" (Suppe). March, "Distant Greetings" (Doring). 8.45: Russell Callow, tenor (by permission J. C. Williamson, Lid.)-"Prelude" (Landon Ronald). "God Touched the Rose" (Brown). 8.50: Malvern Trainways Band-Xylophonge solo. "Thanle" (Binnast)

- 8.30: Malvern Transways Band-Xylophone solo. "Tilania" (Rimmer).
 8.35: Madame Ella Kingston, soprano-Seléctions from the works of Schubert and Elgar.
 9.10: Professor Bernard Heinze, violing Stanley Biggins, piano.
 Pirat and Last Movement of the "Kreutzer Sonata" (Beethoven).
 9.35: Russell Callow, tenor-"The Awakening" (Walter Golde). "The Living God" (O'Hara).
 9.42: Malvern Tramways Band-Selection. "Rigoletto" (Verdi).
 9.50: Our great thought for to-night is-"Guilt upon the conscience, like rust upon the tron, both defiles and consumes it."
 10: God Save the King.

3AR

MORNING SESSION

11.0: Morning service from Scots' Church, Col-ins Street, Melbourne. 12.15: British official wire-ses news. Announcements. 12.20: Close down. AFTERNOON SESSION.

3.0: The Discus Ensemble in masterpleces by the modern musicians. 4.30: Miss P. F. Yerbury will speak on "All Sorts and Conditions of Men." 4.45: Close down.

EVENING SESSION. 5.0: "Brer Rabbit"—Stories for the children. 5.30: Close down.

NIGHT SESSION

NIGHT SESSION Announcer: John Stuart. 10: Asicent airs along the airways: Chorus-thromatic and crooning by Cantatrices capable and capituaing: 8: The Strad Quartette (Ccell Parkes, violin; Yara Montague, plano; Fred Johnstone, Cello; Kingdey Parkes, viola). Piano quartette: "The cerenades" (Beethoven); march, "Menuetto"; Ada-to: "Polacco"; Variations: 13: Moran Hillord, basso: "From Rusby Bed of Silver Nile" (Beethoven), Allegro con brio. Adagio Valor (Beethoven), Mallegno: "Sonata in y Major (Beethoven), Valor Victor ontenades"

Major". (Beethoven). Allegro con brlo. Adaguo scherzo.
 8.30: Joseph Holm, tenor: "O vision entrancing".
 8.30: Joseph Holm, tenor: "O vision entrancing".
 8.31: Kingsley Parkes, viola: "Inish Air" (Hill).
 8.41: Ruferlude. A talk on hymns by J. Howlett
 8.41: Ruferlude. A talk on hymns by J. Howlett
 8.10: The Strad Trio. > Trio: "Song Without
 8.10: The Strad Trio. > Trio: "Song Without
 8.10: The Solero" (Moszkowski).
 8.10: The Solero" (Moszkowski).
 8.10: The Solero" (Moszkowski).
 8.10: The Gorer Chuld In G (Rubenstein). Pre-namme. Concert Chuld In G (Rubenstein). Pre-tewickly, "Lulaby" (Allneky Nales In A major
 8.10: The Godowski). "Humoreque" (Rachman-tor).

Levinsy, "To Waltesy, "To Waltesy, "To Waltesy, otherway," (Rochman-od), "Godowski), "Humoresque" (Rachman-syli, Joseph Holm, tenor: "At Night" (Rach-mannof), "Kathleen Mayourneen," (Rach-mannof), "Kathleen Mayourneen," (God Swe the Kins."

4QG

MORNING SESSION. 11.0: The complete service will be relayed from St. Stephen's Roman Catholic Cathedral. 12.15: Close

AFTERNOON SESSION.

3.15: The band concert will be relayed from the Ardens. 4.30: Close down. EARLY EVENING SESSION. Botanic Gardens.

.30: Greetings to little listeners and replies to

NIGHT SESSION. 7.30: The complete evening service will be relayed from St. Stephents Roman Catholic Cathedral.

At the conclusion of the church service, the con-cert by the Brisbane Municipal Concert Band will be relayed from Wickham Park.

9.30: Close down.

5CL

MORNING SESSION

10.45: Carillon of bells from Adelaide Town Hall. 11.0: Chimes; service from Black Forest Baptist Church-minister, Rev. H. Roy Heard; organist, Miss Hecker. 12.10; British official wireless news. 12.15: Close down.

AFTERNOON SESSION

3.0: Ohimes. 3.1: A pleasant Sunday afternoon ser-vice from Maughan Ohureh, Franklin Street-minis-ter. Rev. W. H. Oano. 4.0: Olose down. EVENING SESSION

EVENING SESSION Announcer: O. J. O'COMOR. 6.0; Chimes. 6.1; Birthday greeings, correspondence, songs and storkes by "Miss Wireless." 6.30; "The Bird Lady" and "The Sunshine Songsters" will entertain the children. 7.0; Chimes. 7.1; A religious service from Maughan Church (Central Mission), Pranklin Street-minister, Rev. W. H. Cann; organist, Mr. M. Finisy.

NIGHT SESSION

NIGHT SESSION Announce: C. J. O'Connor. 8.20: From the studio--Dinky Orchestra (conductor, Mr. Norman Solicis--Top and Circumstance" (Edward Elger), seremade" (Technikowsky), "I Heard You Go By" (Daniel Wood). 8.36: Guido Ginechino, 'cellist-"Are Maria" (Gounod-Bach, "O'Chanson Trite!" (Tachalkowsky), 8.43: Elleen Starr (of "The Girl Friend" company)-selections from ber repertoire 8,50: Unley Orchestra--The Mikado" (Gilbert and Sullivan). 9.5: Harold Wanzel, bass-barlone--Til Sing Thee Songes of Araby" (Clay, "Wheth, Wr Petric). 9.12: Guido Ginechino, "cellist-"Spring Song" (Mendelsconn), "Sorenade" (Schubert). 9.12: Unley Orchestra--Tream on the Ocean" (Gunch). 9.28: Elleen Starr (of "The Girl Friead" company -weleticlons from her repertoire. 9.35: Unley Orchestra-"Emperor's Review" (Ellenchofg). 9.43: ". P. Micholis ha an intersting tak about "A Man Who Could Context

6WF

10.25: Tune in. 10.30: Special half-hour for the enthusiastic liftener-in. 11.0: Morning service, re-layed from Lake Strete Church of Christ. 12.15: Olase down. 3.30: Tune in. 3.35: Musical pro-gramme from the studio, including items by the Studio Trio. 3.45: Talk by Rev. Wallace Bird-"Toc H." 4.0: Musical programme continued. 7.0: Fune in. 7.5: Chimes relayed from S4, George's Cathedral. 7.30: Evening service, relayed from Salvation Army Portress. 8.45: Band concert by Pirce 10.5: Close down. Pirce M. 05: Close down. Pirce 10.5: Close down. Pirce 10.4: METE TRANSMISSION Sinultaneous broadcast on 104.5. metres of pro-gramme given on 1250 metres, commending at 7

MORNING SESSION

10.45: Transmission from Trihly Church, War-wick Street, Hobart. 11.0: Transmission from Chalmers Presbyterian Church, Bathurst Street. 12.30: Glose down.

AFTERNOON SESSION

AFTERNOON SESSION ... 3.30: A secred and elassical programme, arranged by J. M. Counsel. 4.30; Close down. EARLY EVENING SESSION 6.15: Chorus singing (conductor, Trevor, M. Mor-ris, of the Oblidren's Special Service Mission, 6.45: Bertha Southey Brammall will read a poem to the wee folk-"A Little Colden Blunylp." EVENING SESSION 7.0: Transmission from St. David's Cathedral

7.0: Transmission from St. David's Cathedral, Murray Street, Hobart. 8.25: A sacred and classi-cal programme by the Discus Ensemble. 9.45: News session. 9.50: Close down.

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7ZL

Page Forty-Four

WIRELESS WEEKLY

Friday, 3rd May, 1939

Local Programmes, Monday, May 6

2FC

2FC EARLY MORNING SESSION. Announcer: A. S. Cochrane. 7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfall; river re-ports: temperatures; astronomical memor-anda. 7.7: "Sydney: Morning Heraid" sum-mary. 7.12: Shipping intelligence; mail ser-vices. 7.15: Studio music. 7.25: Investment market: inihug sharemarkets. 7.40: Studio music. 8.0: "Big Ben." Close MORNING SESSION. Announcer: A. S. Cochrane. 10.0: "Big Ben" and announcements. 10.3: "Bianoiorde reproduction. 10.10: "Sydney Morning Heraid" news service. 10.25: Studio music. 10.30: The 2FC Reacing Commissioner, late sporting news. 10.45: A talk on "Home Cooking and Recipes." by Miss Ruth Furst. 1.0: "Big Ben." A.P.A. and Reuters cable services. 11.5: Close. MIDDAY SESSION.

services. 11.5: Close. MIDDAY SESSION. Announcer: A. S. Cochrane. 12.0: "Big Ben" and announcements. 12.1: Stock Exchange, first call. 12.3: Official weather forecast; rainfall. 12.5: Studio music. 12.10: Summary of news. "Sydney Morning Herald." 12.15: Rugby wireless news. 12.18: A reading. 12.30: Studio music. 1.0: "Big Ben." Weather Intelligence. 1.3: "Evening News" midday news service; Producers' Dis-tributing Society's report. 1.20: Studio music. 1.28: Stock Exchange, second, call. 1.30: Popular studio music. 2.0: "Big Ben." Close. ATTERNOON SESSION. Announcer: Studio, Ewart Chapple.

Announcer: Studio, Ewart Chapple. Announcer: Town Hall, A. S. Cochrane: Accompanist: Kathleen Roe

Accompanist: Kathleen Roe. 3.30: Programme announcements. 2.32: The Book Lover's Corner. 30: "Big Ben." Popu-lar music. 3.30: "Big Ben." From the Syd-my Town Hall, Radio and Electrical Exhibi-tion. 1929. Les. Busse: Melo plano noveltles. 3.37: Lotys Lescaut, soprano. 3.45: Dorothy Farmer, planist-- abitiliant young student from the studio of Alexander Sverjensky. (a) "Nocturne in C Sharp Minor" (Chopin). (b) "Arabesque" (Debussy). 3.54: Dorothy Ben-how. contraito-(a) "My Ships" (Barratt), (b) "Little Brown Cottage" (Dickson). 4.1: Les. Busse, Melo plano novelties. 4.8: Lotys Lescaut. soprano. 4.16: Dorothy Farmer, planist--(a) "Orillen". (Schumann), (b) "Variations" (Pagamini-Liszi). 4.23: Dorothy Benbow, contraito--(a)."Song of the Sword" (Bantock), (b) "Still as the Night" (Bohm), (c) "Coming Home" (Willeby). 4.30: From he studio. popular music. 4.45: Stock Ex-change, third call. 4.47: studio items. 5.0: "Big Ben." Close.

EARLY EVENING SESSION.

Announcer: A. S. Cochrane.

Announcer: A. S. Cochrane. 5.40: The chimes of 2FC. 5.45: The chil-dren's session, conducted by the "Hello Man." Letters and stories. Music and entertain-ment. 6.30: Dalgety's market reports (wool. wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.45: Weather and shipping news. 6.48: Rugby wireless news. 6.50: Late sporting news. 7.0: "Big Ben." Late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace Keats-(a) "Apple Blossons" (Siede), (b) "Cecil" (M'Kee), (c) "By the Waters of Minnetonka" (Lieurance). (d) "Three Light Picces" (Fletcher), (e) "Me and the Man in the Moon" (Monaco), (f) "An Old Adobe" (Schertzinger). (g) "Little Lady of the Moon' (Coates). EVENING SESSION.

EVENING SESSION.

Announcer: Laurence Halbert. Accompanist: Ewart Chapple.

- 7.40: Popular music.

- 7.40: Popular music.
 7.45: Studio Items.
 8.0: "Big Ben." Denning Lee Quartet.
 8.12: Iri's de Cairos Rego, planist—

 (a) "Two Little Sonatas" (Durante).
 (b) "Rhapsodie in B Minor" (Brahms)

 8.25: Vera Keogh, in an Irish play, "T
 Briery Gap" (Murray).
 8.50: Dorothy Nall, songs at the plano—

 (a) "Second Hand_Rose" (Hanley). "The

- (c) "Michael and His Motor Cycle"
- (c) "Michael and His Motor (M'Carthy).
 8.57: Weather report.
 8.58: Iris de Cairos Rego, planist— (a) "Prelude" (Grieg).
 (b) "Humoreske" (Reger).
 (c) "Barcarole" (Rubinstein).
 (d) "Toccata" (Jonas).
 9.8: Denning Lee Quartet.
 9.20: Albeat Correbon violinist.

- 9.8: Denning Lee Quartet.
 9.30: Albert Cazabon, violinist.
 9.30: Denning Lee Quartet.
 9.40: Vera Keogh, in a humorous sketch.
 9.50: Albert Cazabon, violinist.
 10.0: "Big Ben." Dorothy Hall. comedy sketch. "The Song of Sixpense."
 (a) "As a Scotsman."
 (b) "As a Cockney."
 10.10: Studio items.
- (c) "As a Cockney." 10.10: Studio items. 10.28: Late weather and to-morow's programme. 10.30: National Anthem. Close.

2BL

MORNING SESSION.

MORNING SESSION. Announcer: A. C. C. Stevens. 8.0: G.P.O. chimes. Weather report, State and metropolitan. 8.3: Studio music. 8.30: G.P.O. chimes. News and information service from the "Daily Telegraph Pictorial." 9.0: G.P.O. chimes. Studio music. 9.30: G.P.O. chimes. Half an hour with silent friends. 10.0: G.P.O. chimes. Close. MIDDAY SESSION. Announcer: A. C. C. Stevens. 11.0: G.P.O. chimes. 2BL Women's Sports Association session, conducted by Miss Gwer Varley. 11.30: Advertising hints. 11.40: Women's session, conducted by Mrs. Cran-field. 12.0: G.P.O. chimes. Special ocean forecast and weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. 10: Studio music. 1.30: Talk to children and special entertainment for child-ren in hospital. 2.0: G.F.O. chimes. Gose down. down.

ren in hospital. 2.0: GP.O. clumes. Close down. AFTERNOON SESSION. Announcer: A. C. C. Stevens. Accompanist: Kathleen Roe. 3.45: G.P.O. chimes. The Melody Trio. 3.55: Leo Packer (baritone). 4.2: Captain Fred Aarons will speak on "The Necessary Factors of Home Life." 4.17: The Melody Trio. 4.27: Bunty Stuart (contralto). (a) "Hark! What I Tell to Thee" (Haydn). (b) "My Prayer" (Squire), (c) "All Souls' Day" (Lassen). 4.34: The Melody Trio. 4.44: Leo Packer (barl-tone). 4.51: The Melody Trio. 5.1: "Sun" news service. 5.6: The Melody Trio. 5.20: Studio items. 5.33: Resume of the trots. 5.37: Features of the evening's programme. EARLY EVENING SESSION.

EARLY EVENING SESSION. Announcer: Basil Kirke.

5.40: Children's session, conducted by Uncle Bas. Music and entertainment. Letters and stories. 6.30: "Sun" news and late sportine. 6.40: 2BL Dinner Quartette. (a) "Cheero" (Finck). (b) "The Cinema Star" (Gilbert) (c) "Praise" (Wood). (d) "Three Dances. Nell Gwyn" (German). (e) "The Curtain Fails" (d'Hardelot): (d) "Sally of My Dreams" (Kernell). (g) "Full Moon" (Wool-mer). 7.7: Australian Mercantile, Land, and Finance Co's report. Weather report and Gorecast, by courtesy of Government Meteoro-logist. Producers' Distributing Society's Fruit and Vegetable Market report. Grain and fodder report ("Sun"). Dairy produce re-port ("Sun"). 7.25: Mr. Pim and Miss Pam in advertising taiks, handy hints, and non-sense, 7,53: An Ad. Special. 7.55: Pro-gramme and other announcements. EVENING SESSION. 5.40: Children's session, conducted by Uncle

- EVENING SESSION. Announcer: A. C. C. Stevens. Accompanist: Kathleen Roe.
- 8.0: G.P.O. chimes. 2BL AVE Hall, Radio
 8.2: From the Sydney Town Hall, Radio
 and Electrical Exhibition, 1929.
 2BL Light Orchestra, conducted by Horace Keats. "The Desert Song" (Roman
- Charles Lawrence in a few happy 8.16:
- moments (a) "The Song of the Vikings" (Fanning).

- (b) "Great God Pan" (Farebrother).
 8.36: "Ye Merrie Trio"---(a) "Me and the Man in the Moon" (Lessand).

- Ine).
 (b) Soubrette, "Sonny Boy" (Jolson).
 (c) Violin solo, "Minuet" (Beethoven).
 (d) "There's a Rainbow Round My Shoulder" (Jolson).
 8.48: 2BL Light Orchestra, conducted of Horace Keats—
 "Clerkering" (Techeshametering)
- "Catherine" (Tschalkowsky). D. From the Studio. G.P.O. chimes.
- 9.0.
- 9.0. From the order, the weather report. Weather report. 9.1: Ashifield Choral Society— "Mid the Waving Rose Trees" (Cowan) 9.11: Charles Lawrence in a few happ 9.21: "Ye Merrie Trio." 9.31: 2BL Light Orchestra, conducted or

- Horace Keats-(a) 'Songs from the Old Folks" (art Lake).
- (b) Selected. 9.46: G. J. Hill, "The Idiosyncracles of the Motor-car."
- 10.0: G.P.O. chimes. Kitty Poole (popular
- 10.0: G.P.O. Chilles. And States an
- 10.7: Romano's Cafe Dance Orchestra. con-ducted by Bennie Abrahams.
 - 10.20: Kitty Poole (popular vocalist)-
 - (a) "She's Gotta Have Me" (Long)
 (b) "That's My Mammy" (Nelson).

 - 10.28: Late "Sun" news.
- 10.40: Romano's Cafe Dance Orchestra conducted by Bennie Abrahams,
- 10.57: To-morrow's programme.
- 10.59: Romano's Cafe Dance Orchestra ducted by Bennie Abrahams.

 - 11.30: National Anthem. Close.

2GB

2GGB 10.0: Music. 10.10: Happliness talk of 4 E. Benniett. 10.20: Music. 10.30: Womed Session, by Miss Helen J. Beegling. 113 Close down. 2.0: Music. 2.5: Women's & dio Service, by Mrs. Dorothy Jordan. 23. Music. 3.15: Close down. 5.30: Children's Session, by Uncle George. 70: Music. 12 Feature story. 80: Miss Marjorie Alload contralto. 8.7: Miss Ada Brook, planut 8.15: Mr. Victor Earle, baritone. 82: Es strumental music. 8.30: Humorous interior by Mr. Jack Win and Mr. Heath Burdoc 8.35: Miss Gladys Verona, soprano 46 Address. 90: Weather report. 93: Instr-mental music. 9.15: Miss Marjorie Alload contralto. 9.20: Mr. Hieath Burdock, Shab-speare recital. 930: Mr. Victor Earle san tone. 9.40: Instrumental music. 930: Re-motous Interluide by Mr. Jack Win and the Heath Burdock. 955: Miss Gladys Verea soprano. "10.5: Dance music. 1030: Cor down down

2UW

MIDDAY SESSION.

12.30: Music. 1.0: G.P.O. clock and china Music. 1.15: Talk on Homecraft, by "Par-dora," 1.30: Music. 2.30: Close down 430 Musical programme.

EVENING SESSION.

EVENING SESSION. 5.30: Children's Houf, conducted by Unes Jack. 6.30: Close down 7.0: G.P.O. dod and chimes. Request numbers. 7.45: Wrp-less talk, by Mr. E. Homfray. 8.0: Reque itemis. 9.0: G.P.O. clock and chimes Com-ments on foreign a flairs, by Mr. J. M. Pre-tice. 9.10: Music and request numbers. 1038: Class down Close down.



Page Forty-Five



Page Forty-Six

WIRELESS WEEKLY

9.1: Jean Naylor, contraito-

"The Difference" (Kelly).

9.21: Vincent Conolly, baritone "The Blind Ploughman" (Clarke), 9.25: The Wailana Hawalian Band-

10.0: News; weather; close down.

"Hilo March."

11.0: Chimes.

urch-hour recital. 1.5 ion. 2.0; Close down.

records.

tion.

the departs Boys' Club.

"Sing To me, Sing" (Henely). 9.6: Jili Manners, soprano-"A Heart That's Pree" (Robyn). 9.11: Harry Borrodale, elocutionist-

"Parson's Announcements" (Anon). "Old Tin Liz" (Crist).

9.30: A recital of selected electrically reproduced

5CL

11.1: Morning melodies. If.il

MORNING SESSION

AFTERNOON SESSION

11.0: Chimes, 11.1: Morning motodies un Kitchen Oraft and menu talk. 11.45: Miss Len M'Leod. of Weber. Shorthose, and Rice, will puo on "Physical Culture for Women." 12.15: Green press service: British official wireless ness. 12: Railway information: Stock Exchange information relevorationical Information. 1.0: Chima Li Lurch-hour revital. 1.59: Meteorological Informa-

3.0: Chimes; general programme, including #s tion Quartette: Yvy Jones, soorano: Jack Stok the Woman Hätler; Frank M'Cabe, barlone; im Roach, violilaiste: Edma Lawrence, contraito 4 Stock Exchange information. 5.0: Close down. EVENING SESSION

6.0: Chimes: 6.1: Birthday greeting, correspondence, songs, and stories by "Aunite Peggr" 42 finterlude music. 6.50: Sporting service, rugber by "Silvius." including acceptances for Moras-ville for Wedneaday. 7.0: Chimes. 11: Son Exchange, Information. 7.6: General marite m Exchange, Information. 7.6: General marite for Australian Agricultural Deepaupices of the Son Hustralian Agricultural Deepaupices of the Son Boys' Club.

NIGHT SESSION

<text>

6WF

ΟΥΥΓ 1.6.1 Tune In. 12.5. Musical program in the studie. Including handore solos by inter signal. 1.1. Weaker builds and the signal. 1.1. Weaker builds and the signal. 1.1. Weaker builds the signal builds the signal build build build the signal build build build build build the signal build build build build build build the signal build build build build build build build the signal build build build build build build build build the signal build buil

Interstate Programmes, Monday, May 6

3LO

EARLY MORNING SESSION

7.15 to 8.15; See Friday. MORNING SESSION

nurkning Stassion 11.0: To-day's radio recipe-tea cakes. 11.5: Miss Oign Parker will speak on "Stories to Tell the Children. 11.25: Under the auspices of the St. John Ambulance Association, Miss Edith Wells will speak on "Home Nursing." J1.45: Under the Supress of the Wells auspices of the National Safety Council of Victoria. H. J Book will speak on "Some Aspects of Safety.

MIDDAY SESSION

MIDDAY ESSION 1.0: Melbourne Observatory time signal. 12.1: Britist official virteless news from Rugby: Reuters and the Australian Press Association ceblaw. "Argus" news service. 12.15: Newmarktt stock suice: entries for the market for thesensy. Wednesday, and Thurs-tourke Street. Melbourne. 12.30: Community sing-ling, transmitted from the King's Theatre, Mel-bourke Street. Melbourne. 12.30: Community sing-ling, transmitted from the King's Theatre, Mel-bourne Street. Melbourne, 12.30: Community Sing-ling, transmitted from the King's Theatre, Mel-bourne Conductor, G. J. Mackuy Ern Kail's Radio Revelters. with Pluch Huxham, Russell Gallow, temor name. "Peaches." 12.40: Stock Exchange Informa-tion 12.44: Community singing resumed. 1.45: Vieteorological Information: weather forecast for Vietasmitia, cease forecasts for the reports: rainfall. 1.50: Close doub.

AFTERNOON SESSION

2.15: Genéral programme, including the Strad Trio -Julia Russell, soprano; Cecil Parkes, violin; Myra Mont gue piano 3.18: Capt. Donaid MacLean; Mary Hothkin, mezzo-soprano. 4.0: Dorothy Stephen, en-terialiter; Stanley J. Allen, tenor. 4.54: "Herald" naws service: Stock Exchange Information. 5.5: Clore dewn.

CHILDREN'S HOUR.

6.0: Answers to letters and birthday greetings v "Billy Bundy." 6.25: Musical Interlude. 6.30: "Illiam O. Groves will continue his series of taiks "The Peter Pan of the Pacific."

EVENING SESSION

EVENING SESSION 7.5: Block Exchange information. 7.15: Market reports. 7.30: News assolo. 7.43: Birthday greetings. 7.46: Under the auspices of the Department of Acriculture. T. A. J. Smith, tobacco expert, will upeak op "Grading and Packing Tobacco."

NIGHT SESSION

- Announce: John Stuart. Accompaniste: Agnes Portune. 5.0: The Kallon Orchestra-Overture. "The Callph of Bugdad" (Boledicu). A.10: Vide US2, mezz-soprano-"The Fower. "Your is My Heart" from "Lilac Time."

- "The Flower, "Yours is My Heart" from "Luine Time." 8.17: The Station Orchestra-Sciection of Hayda's Wood songs. Station of Hayda's Wood songs. 4.42: The Station Orchestra-
- lighty." 8.42: The Station Orchestra... Selection, "The Pearl Pishers" (Bizett. 552: Vida. Lugg. mezzo-soprano... "Cucko" (Shawi, Wale). 9.0: Choral Items from the Royal Victorian Lig-riatet...
- n F.e
- Pary song, "Hymn to Sons of Art" (Mendels-
- Unaccompanied-Unaccompanied— Part songs: (a) "Parewell, thou Lovely Porest Glade (Abt): (b) "A Lulkaby" (Williams). Part song: "The Beleaguered" (Bullivan). Units (Bullivan). (b) "To Cella" (Williams). Operatic chorus-"Bandlix: Chorus" from "Ernani" (Verdi). 50: The Station Orchestra-Bitciton. "The Glapy Princess" (Kalmann). Stretchor. "The Sighting Serenader-"Raind"

- Ruln
- Mexican Screnade
- "Rain." "Mexicas Screnade." 9.45. The Imperial Russian Trio (Arved Norit, "Julies Van Berzinsky, vello: Vassill Ister. piano)--"Trio in A Minor" (Tschałkowsky). "Diego Moderato." glasto. "Diego Noderato." glasto. 10.20: The Station Orchestra--"Musical Gems" (Tscałkowsky). 10.30: Jack, Hocking. barltone--"Sonny Boy." "Down Linger Longer Lane." 10.37: The Station Orchestra--"Down Langer Longer Lane." 10.37: The Station Orchestra--"Down Linger Longer Lane." 10.37: The Station Orchestra--"Down Linger Longer Lane." 10.37: The Station Orchestra--"Oranamon Oake" (Bernard). "Where the Col-Col-Colton Grows" (Ellen)." "Avaulon Town" (Berown). "Shake That Thing" (Jackson) "Shake That Thing" (Jackson) "Thore Ought to Be a Law Against That" "Priend)." "Little Mother" (Rapee). tolin

- "Friend). "Little Mother" (Rapee). "Oh, Ya Ya" (Frich). 4.30: God Save the King.

3AR

MORNING SESSION 10 to 10.59: See Friday.

MORNING MUSICAL SESSION

11.0: Terpsichorian Tintinnabulations. 11.20: British official wireless news. Announcements. 12.30: Close down.

Close down. AFTERNOON SESSION 3.0: Ballads. 3.30: The Imperial Russian Trio. 4.0: Ballads. 4.30: Glose down.

EVENING SESSION

6.0: Ancient airs and newest releases. 7.10: News service. Announcements. 7.20: Ancient airs and newest releases.

NIGHT SESSION

Announcer: John Stuart Accompanist: Reg. Brown.

8.0: E. C. H. Taylor will speak on "School Life

and School Sport." 8.15: Under the suspices of the Historical Society

8.15: Under the suspices of the missional Southant Southants, S. Kengon, "The Overlanders." 8.30: H. E. Harman, manager of the Welfare Takk on Gallhooll." 8.40: The Radio Revellers: "Pireworks" (Wil-lams). "Just Keep Singing a Song" (Sissell). "Roaces of Yesterday" (Berlin). 8.49: Dorothy Stephen, entertainer: "That's Her S.49: Dorothy Stephen, entertainer: "That's Her

No

 Boltchij Deptent, "Hones" (Ward).
 Gjazj, The Radio Revellers: "Jo-Anne" (Ward).
 Gjusy" (Gilbert), "Honey" (Simons).
 G. Jossie Irwin. sopnano: "The Eff Man" (Wella).
 G. The Radio Revellers: "Plower of Love" (Ruby).
 The Right One Comes Along" (Gilberti "Wear a Hat with a Silver Lining" (Silerman).
 S. Theima Ready. Banjo: "Maimmy."
 B. The Back Revellers: "One Alone" (Romperg).
 The Desert Song" (Romberg).
 Casar).
 G. S. Tonouthy Stephen, entertainer: "Roses of Song". "Gipsy

1910 "The Desert Song" (Romberg). "It Goes Dig This" (Gaesar). 1925: Dorothy Stephen, entertsiner: "Roses of Vesterday," 9.28: The Radio Revellers: "What a Girl" (Sanders). "Dynamite" (Hendarson). "The Dance of the Blue Danube" (Fisher). 9.37: Jessle Irwin, soprano: "Because of You" (Iddia)

Dance of the pile scalar of "Because of 1.3. 9.37; Jossie Irwin, soprano: "Because of 1.4. (Liddle). 9.40: The Radio Revellers: "Rose Time" (Hall). "Forever More" ISurnett). "Me and the Man in the Moon" (Monaco). 9.50: The Radio Revellers: "Nebraska" (Sissell). "When You Said Good-night" (Donaldson). "Little Fish Rose" (Zamenick). 10.1: Dorothy Stephen, entertainer: "Oradle of Loue" (Darothy Stephen, entertainer: "Darothy Dooley, Do"

Love." 10.4:

ove." 10.4: The Radio Revellers: "Dorothy Dooley Do" Sherwini, "Counting the Milestones" (Tilsle, My Starlight." 10.13: Jessie Irwin, soprano: "Everywhere I Look" (Sherw

Selected.

 10.13: Jessie Hwin, soprabo: "Everywhere 1
 10.15: The Radio Revellers: "Daybreak." Se
 10.20: "Age" news service. Announcements.
 8ave the King." S.u

40G

EARLY MORNING SESSION. 7.43 to 8.30: Sec Friday.

MORNING SESSION.

11.0: Music. 11.5: Social news. 11.15: Lecturette. .45: Wurlitzer Organ. 12.0 noon: Close down. 11.45

MIDDAY SESSION.

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

AFTERNOON SESSION.

3.0: Orchestral music. 3.30: Mail train running times. 3.35: Orchestral music. 4.15: Afternoon news services; close down.

NIGHT SESSION.

"Duna" (M'Gill). 9: Harry Humphreys--A Dickens Reading, "David, Uriah Heep, and Mrs. Heep" (from "David Coperfield"). 21: E. H. Radellfe and C. Schmeig--Instrumental dust, "Southern Blues," 25: Jill Manners, sourano--"The Dawn Has a Song" (Phillips). 30: A Thought for To-night (Will H. Lister) "Tords"

Announcer: H. Humphreys. 8.0: The Wallana Hawaiian Band-"When It's Love Time in Hawaii." 8.5: George Willlamson, tenor-"Duna" (M'Gill).

The David and the To-night (Will H. L S.30: A Thought for To-night (Will H. L 8.30: The Wallon And States and States "Bereneth The Wunder" (Teschemacher).
8.39: The Wallona Hawalian Band— "Isle of Golden Dreams."
8.44: Jean Navlor, contraito— "Sofid Wakker my Heart" (Saint-Saens).
8.48: E. H. Parioliffe, guitar solo— "Alatan Wal?"
8.55: Geores Williamson, tenor— "Song of Sleep."
8.0: Metropolitan weather forecast.

8.9: 8.21: 8.25:

8.30

EARLY EVENING BESSION. EARLY EVENING BESSION-6.0 Mail train running times; mail information. shipping news. 6.5: Wurlitzer Organ. 6.35: Com-mercial announcements. 6.30: Beddime stories, con-ducted by "The Sandman." 7.0: News in brief. 7.5: Slock Exchange news. edc. 7.45: Lecturette, "The Ohildren's Music Corner." conducted by "The Music Man." NICHT ESSION

Friday, 3rd May, 1029.

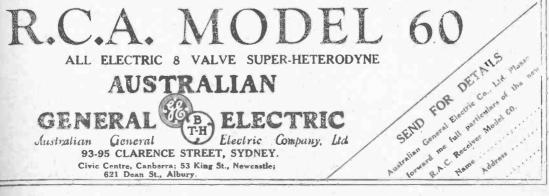


You know the convenience and undimming volume of all-electric radio. Maybe you know the sensitivity and selectivity of the superheterodyne circuit. Judge the result when both these features are combined in the one receiver.

Power! You have it in reserve. All the power of eight glowing valves working direct from the electric light supply. Turn the volume up and up₄ You can't distort it. Cut out all interference sharply even though you live in the shadow of a broadcasting station. Move the single dial a fraction of an inch and jump from one station to another.

Never before has any one receiver combined all the advantages you will discover in this R.C.A. Model 60. Never before has such selectivity been achieved without the slightest loss of musical qualities. Yet it costs no more to operate than an ordinary living room electric light.

Come and hear the Model 60 immediately. Tune it in yourself. Admire its exquisitely proportioned walnut cabinet with its richly designed metal escutcheons. Standard equipment with this new receiver is the new R.C.A. Loudspeaker Model 103 with its distinguished hand-carved and tapestry medallion effect. Price of Receiver complete with Loudspeaker is \$35. Easy terms can be arranged.



Page Forty-Eight

WIRELESS WEEKLY

Friday, 3rd May, 1998

Local Programmes, Tuesday, May 7

2FC

EARLY MORNING SESSION. Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfail; river re-port; temperatures; astronomical memor-anda. 7.7: "Sydney Morning Herald" sum-mary. 7.12: Shipping intelligence; mail ser-vices. 7.15: Studio music. 7.25: Investment market: mining sharemarkets; metal quota-tons; wool sales; braadctuffs markets; Inter-Etate markets; produce markets. 7.40: Studio music. 8.0: "Big Ben"; close down. 70. "Big Ben" and announcements.

MORNING SESSION. Announcer: A. S. Cochrane

"Big Ben" and announcements. 10.2: "Big Ben" and announcements. 10.2: 10.0: 10.0: "Big Ben" and announcements. 10.2: Planoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio music. 10.30: Last minute sporting infor-mation by the 2FC Recing Commissioner. 10.40: Studio music. 10.50: Planoforte repro-duction. 11.0: "Bg Ben", A.P.A. and Reuter's cable services. 11.5: Close down.

MIDDAY SESSION

Announcer.

Announces A. S. Cochrane. Note—Race results from Menanele. 12.0: "Big Ben" and announcements. 12.2: Stock Exchange, first call. 12.3: Official weather forecast, tainfall. 12.5: Musicai items. 12.10: Summary of news. "Sydncy Morning Heraid." 12.15: Rugby Wireless news. 12.18: A reading. 12.30: Studio music 1.0: "Big Ben"; weather intelligence. 13: "Evening News" midday news service; Producers' Distributing Society's market re-port. 120: Studio music. 128: Stock Ex-change, second cell. 130; Studio music. 2.9: "Big Ben": cose. AFTERNOON SESSION

AFTERNOON SESSION. Announcer: Studio-Ewart Chapple. Jouncer: Town Hall-Laurence Halbert Accompanist: Kathleen Roe. Announcer:

Announcer: Town Hall-Laurence Halberi Accompanis: Katheen Roe. 2.30: Programme announcements 2.32: The Book Lover's Crimer. 3.0: "Big Ben"; popu-lar items. 3.3: "Big Ben"; Ifom the Sydney. Town Hall, Radio and Electrical Exhibition, 1929-The Popular Trio. instrumentalists. 3.40: Frederick Scott For hariton=-(a) "Mate o' Mine" (Elliott): (b) "Macushla" (MacMur-rough): (c) "An Emblem" (Thompson). 3.47: Anne Stuart Gur, mezzo-coprano-(a) "The Wind" (Granville Bantock); (b) "Kaim Drops" (Granville Bantock); (c) "My Sout" (Carrie Jacobs-Eord). 3.54: The Popular Trio, instrumentalists. 4.4: Frederick Scott Fox hariton=-(a' "Xour Frees have told me What I Did Not Know" (O'Hara). 4.12: The Popular Trio, instrumentalists. 4.18: Anne Stuart Gurr. merzo-symano-(a) "Over the Stempe" (Gretchart-"C') (b) "Wairarers Night Song" (Easthope-Martin). 4.24: The Popular Trio, instrumentalists. 4.35: Scok Ex-change, third call. 4.47: Studio items. 5.0. "Big Ben": close

EARLY EVENING SESSION. Announcer: A. S. Cochrane.

Announcer: A. S. Cochrane. 5.40: The chimes of 2FC. 5.45: The Chil-dren's session. conducted by the Hello Man,' assisted by Au⁻¹ Fily: letters and stories: music and ertertaiment. 630: Dalgety's market reports (word). wheat, and stocky. e.40: Fruit and vegrable markets 6.43: Stock Exchange information. 6.45: Weather and shipping news. 6.48: Rugby Wireless news. 6.50: Late sporting news. 7.0: "Big Ben". late news service 7.10: The 2FC Dinner Quar-tette, conductsd by Horace Keats.-(a) "Melo-die" (Techaikowsky): (b) "The Girl of the Golden West" (Puccini); (c) "Liebestraum" (Von Blon): (d) "Avalon" (Brown); (e) "Londonderry Air" (arr. Kreisler). EVENING SESSION.

EVENING SESSION

Announcer: Laurence Halbert Accompanist: Ewart Chapple

- 7.40: Popular music.

7.40: Popular music.
7.45: Programme announcements.
7.48: Studio items.
8.0: "Big Ben" From Goulburn---A concert.
programme arranged by the Goulburn Choral Society. Assist n^γ arbits: Alexander Sveriensky, Spencer Thomas.
9.0: "Big Ben." From the Studio--Brunton

Glbb in a series of topical sketches, "Oh. by the Way."" 9.12: From Goulburn-second half of con-

9.12: From Gouldurn-second half of collourn Cert programme arranged by the Gouldurn Choral Society. 10.20: From the Studio-Studio Dance Band, conducted by Cec Morrison. 10.28: Late weather. 10.30: Studio Dance Band, conducted by Cen Morrison

Cec Morrison

10.57: To-morrów's programme. 10.59: Studio Dance Band, conducted by Morrison Cec

11.30: National Anthem; close.

2BL

MORNING SESSION.

Announcer: A. C. C. Stevens.

Announcer: A. C. G. Stevens. 8.0: G.P.O. chimes. Weather report, State and metropolitan. 8.3: Studio music. 8.30: G.P.O. chimes. News and information service from the "Daily Telegraph Pictorial." 9.0: G.P.O. chimes. Studio music. 9.30: G.P.O. chimes. Half an hour with silent friends. 10.0: G.P.O. chimes. Close.

MIDDAY SESSION.

Announcer: A. C. C. Stevens.

11.0: G.P.O. chimes. 2BL Women's Sports 11.0: G.P.O. chimes. 2BL Women's Sports Association Session, conducted by Miss Gwen Varley. 11.30: Advertising hints. 11.40: Sister Parry will give a talk on the work of the St. John Ambulance Association, 12.0: G.P.O. chimes Special ocean forecast and weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sun" midday news service. 10: Studio music. 1.30 Talk to children and special entertainment for children in hospital. 2.0: G.P.O. chimes Close down. Note: Race results by courtesy of the "Sun" NewDapers from Menangle.

AFTERNOON SESSION.

Announcer: A. C. C. Stevens.

Accompanist: Kathleen Roe.

3.45: G.P.O. chimes. Popular music. 3.50: Romano's Dance Orchestra, conducted by Bennie Abrahams. 4.0: G.P.O. chimes. Frank Bucknell will speak on the "Thermoniac Valve." 4.15: Laurel Mather (soprano). (a) "Damon" (Stange). (b) "The Charm of Spring" (Clarke). 2.22: Romano's Cafe Dance Orchestra, conducted by Benne Abra-hams. 4.32: From the studio. Popular items. 4.43: Laurel Mather (soprano), (a) "A Heart That's Free", (Robyn), (b) "April is a Lady" (Phillips). 4.50: Romano's Cafe Dance Or-chestra. conducted by Benne Abrahams. 5.0: 3.45: G.P.O. chimes. Popular music. 3.50 Chestra, conducted by Bennie S Care Dance G. From the studio. G.P.O. chimes. "Sun" news scervice. 5.7: Planoforte reproduction. 5.17: Popular music. 5.30: Racing resume. 5.37: Features of the evening's programme.

EARLY EVENING SESSION.

Announcer: Basil Kirke.

Announcer: Basil Kirke. 5.40: Children's session, conducted by Uncle Bas. Music and entertainment. Letters and stories. 6.0: Mr. Norman speaks to the "Bigeer Boys." 6.45: "Sun" news and late sporting. 6.55: 2BL Dinner Quartetle. (a). "La Patronille de Nint" (Marteill). (b) "Mar-sinah" (Carton). (c) "Lové's Enchantment" (Brookes). (d) "The Gondollers" (Sull-van). (e) Meditation. "Thais" (Massenet). 7.1: Australian Mercantile, Land, and Finance Co.'s report. Weather report and forecasi, by courtesy of Government Meteorologist. Producers' Distributing Society's Fruit and Vegetable Market report. Grain and fodder report ("Sun"). Dairy produce report ("Sun"). 7.25: Mr. Pim and Miss Pam in advertising talks, handy hints, and nonsense. 7.53: An Ad. Special. 7.55: Programme and other announcements. EVENING SESSION.

EVENING SESSION.

Announcer: Basil Kirke.

Accompanist: G. Vern Barnett

8.0: G.P.O. chimes. 2BL Topical Chorus.
8.2: From the Sydney Town Hall. Radio and Electrical Exhibition, 1929.
The North Sydney Tramway Band—

(a) March, "La Carne" (Wood).
(b) Descriptive Selection, "A Hunting Trip" (Holloway).

(c) Waltz, "Beauty's Bower" (Greenwood).

8.16: Graham Burgin and Ruby Dunstan, vocal duets-

(a) "Spirit of the Wood" (Parker). (b) "Passage Bird's Farewell" (Mendelssohn).

- 8.23: Rene Rich (violinist)—

 (a) "Dance of the Goblins" (Bazzini).
 (b) "Ramona" (Wayne).
- 8.32: The Two Wireless Wits. Just a little nonsense
- (a) Duologue.(b) "Sing, My Lads, Yo Ho!" (MS). 8.42: Leo Rowan (tenor), winner in the re-cent Radio Eisteddfod-
 - (a) "Bird Songs at Eventide" (Coates).
 (b) "Smilin' Through" (Pann).
 - 8.50: The North Sydney Tramway Band-
 - (a) "Mexican Serenade" (M'Anally).
 (b) Overture, "Lustspiel."
- G.P.O. chimes 9.0: From the studio. Weather report.
- 9.1: Graham Burgin and Ruby Dunsan (vocal duets)-
 - (a) "A Summer Night" (Thomas).
 (b) "Love and Friendship" (Pinsuti).
 - 9.11: "Bringa" will speak on the aboriging.
- 9.26: Rene Rich (violist)(a) "Obertass Mazurka" (Wieniawski).
 (b) "That's My Weakness Now" (Green-Strain Contemportation of the strain of th
- Stept).
- 9.33: Will Carter, Australian Bush Sketches
- 9.40: The North Sydney Tramway Band(a) March, "Royal Artillery" (Hume).
 (b) Selection, "Motor Trip" (Douglas).
 (c) Fantasia, "Elarendon" (Greenwood).

- 9.55: The Two Wireless Wits. Just a Little
- (a) "Panel Parley."
 (b) "Some Military Patter: The Recruining Sargeant."
- 10.2: Leo Rowan (tenor).
 (a) "To be Near the Loved One" (Ross).
 (b) "Maiden Mine" (Bennett).
- 10.9: Will Carter in Cameos of the Bush 10.17: Rene Rich (violinist).
- Selected.
- 10.24: Late weather and to-morrow's programme

10.30: National Anthem. Close.

2GB

10.0: Music. 10.10: Happiness talk by A Z Bennett. 10.20: Music. 10.30: Women's Se-sion, by Miss Helen J. Beegling. 11.30: Che down. 2.0: Music. 2.5: Women's Radio Se-Beiniett, 10.20: Music, 10.30: Women's se-sion, by Miss Helen J. Beegling, 11.30: Coe down, 2.0: Music, 2.5: Women's Radio Se-vice, by Mirs. Dorothy Jordan, 250: Muse 3.15: Close down, 5.30: Children's Sessie by Uncle George, 7.0: Music, 7.30: Thi from the Radio Service Department, by Mr. Sac Crittenden, 80: Mr, Gregory Valentine, to linist, 8.7: Miss Betty Ramsay, coniral 8.15: Instrumental music, 8.23: Mr. Las Herford, baritone, 8.30: Humorous interhab by Mr. Jack Win and Mr. Heath Burdet 8.35: Miss Hilda Boyle, soprano, 8.45: Destrumental music, 8.50: Miss Betty Ramsy, contralto, 9.0: Weather report, 9.3: Admes 9.15: Mr. Gregory Valentine, violinist 3.5: Mr. Lesl Herford, baritome, 9.35: Hima-ous interlude by Mr. Jack Win and Mr. Beth Furdock, 9.40: Instrumental music, 3.4 Miss Hilda Boyle, soprano. 10:0: Dance music "200: Close down.

2UW

MIDDAY SESSION.

12.30: Music. 1.0: G.P.O. clock and chime Music. 1.15: Talk on Homecraft, by "Par-dora." 1.30: Music. 2.30: Close down 43 Musical programme.

EVENING SESSION.

5.30: Children's Hour, conducted by Daz Jack. 6.30: Close down. 7.0: GPO. dod and chimes. Request numbers. 9.0: GPZ clock and chimes. Comments on foreign d-fairs, by Mr. J. M. Prentice. 9.10: Max and request numbers. 10.30: Close down.



Page Fifty

WIRELESS WEEKLY

Vocal duct, selected. Beatrice Fugh, soprano-"My Sweet Repose" (Schubert). "Who is Sylvia" (Schubert). "Balade in D Minor" (Brahms). Pred Homer, barllons--"Unmindful of the Rosen" (Coleridge-Tarines "Life and Death" (Coleridge-Tarines "Life and Death" (Coleridge-Tarines "Life and Death" (Coleridge-Tarines "Friendships." Morrit Creation of the Rosent (Schubert). District Collisis, Archie Day (Bans)-District Collisis, Archie Day (Bans)-District Collisis, Archie Day (Bans)-District Collisis, Archie Day (Bans)-District Collisis, Schubert, Schubert, Schuber (Soc-Krot, "The Gob Ashore" (Leigh).

The Virginians-Noveity for-trot, "The Gob Asbore" Leigh. G. Holmes-Trumpel solo, "Valse Vanliy" Weidoeft, The Wirginians-End Suite. "The a Florida Woodland (Base Bird Suite. "The Preplinans-Postorot. "One Aone" (Romberg). The Virginians-Piono. trumpet, and saxophone. "The Waterial" (Zamerik). B. Bromley-Xylophone solo, "The Russian Rag" (Cobb). The Virginians-Bird Intermerzo. "Bird at the Waterial" (B-Ref).

Piano solo, "Kitten on the Keys" (Confrey),

V. Ball-Trombone solo, "Trixie" (Stillwell). The Virciniuns-Sonnish fox-troi. "Amonestra" (Clark). One-skep, "Fluff Ruffles" (Coren). One-skep, "Ruffles" (Coren). Solv Ruffles, weather news: "Ouesnisnder" to solv Ruffles down.

5CL MORNING SESSION

MORNING SESSION 11.0: Chimes. 11.1: Morning meindes. 11.8 Ritchen eraft and menu talk. 11.46 Mary as Drew. 12.1: Midday music. 12.15: Gereni sen service: British oficial wireless person. 12.3: tal way information: Stock Exchange information meserological information. 11: Lunch-horn sel eltal. 1.59: Meteorological information. LE Close down.

AFTERNOON SESSION AFTERNOON SESSION 3.0: Chines: general programme induding def fot Peoper's Dance Band. 3.10: Rev. G. F. Ba B.A.; Bergi Counter, mezo-soprane, K. Smit-Sald and William Davey. entertainers: Eliem Elior. traito: Jack Stocks, the Woman Hater. 14 Stock Exchange information. 5.0: Close down

EVENING SESSION

NIGHT SESSION

EVENING SESSION 6.0: Chimes 6.1: Bithday greetings, correspondence songs, and stories by "The Wattle last" 6.30: Dinner music. 6.30: Songer and the songer a

<section-header><section-header><section-header><section-header>

Dummer's specialty number, "The Clown Dange (Lorke). Ball-

Novelty fox-trot, "The Gob Ashore" (Leiph).

(co. Th

ger). H. Jenks-

The Vira. Dummer

Interstate Programmes, Tuesday, May 7

3LO

7.15 to 8.15; See Friday,

MORNING SEBSION

Announcer: Renn Millar, 11,0: To-day's radio re-cipe: Orange cate, 11.5; Miss E. Noble will speak on "Gas Cookery," 11.35; Miss. Dorothy Silk will speak on "Hometraffs." 11.45; Miss Doreen Berry will speak on "Ye Olde London," describing quaint places like the Old Curiosity Shoppe, the Oheshire Cheese Tavern, Petilcoat Lane, etc.

MID-DAY NEWS SESSION.

MID-DAY NEWS SESSION. 12.0: Afelbourne Observatory time signal 12.1: Prices received by the Australian Mines and Métals Association from the London Stock Exchange this day: British official virieless news from Rugby: Reu-tyres and the Australian Press Association cables. 1.1: Newmarket sbock sales; official report of the spents. Bourke Street, Melbourne. 12.2: Ceneral programme, including: The Station Orchestra; Moran elliord, basso. 12.3: Stock Exchange informa-tion; Vida Lugg. mezzo-soprano. 1.0: Meteorolo-tion; Vida Lugg. unezzo-soprano. 1.0: Meteorolo-tion; Liose doug.

AFTERNOON SESSION.

2.15: General programme, including: The Radio Revellers; Jean Lewis, contrallo; Jack Hocking; Dorothy Stephen, entertainer; Jeaske živin, soprano. 4.45: "Herald" news service; Stock Exchange infor-mation. 4.55: Close down.

CHILDREN'S HOUR.

6.0: Answers to letters and birthday greetings by "Bobby Bluegum." 6.25: Musical interlude. 6.30: "Little Miss Rookaburra" has another instalment of the serial story. "The Guide Gamp at Herons" For "about the Martello Tower and the Secret of the Loror Room. 6.30: "Bobby Bluegum": more greet-ings, and perhaps a story. EVENING SESSION.

- 7.5: Stock Exchange information.
 7.30: News session.

1.30: News session. 7.43: Birthday greeings. 7.46: Out of the past. 7.46: Under the auspices of the University of Mel-bourne Extension Board, the Hon. Samuel Mauger, letu-or for the Board, will speak on "Australia To-morrow."

8.0: Robert Browning.

- NIGHT SESSION.

- "When You're Away" (Banderson). 8.22: Lindsay Biggins, piano--"Preludes 4, 6, 7, 9, and 17", (Chopin). "Polonaise in O Minof" (Chopin). "Mirtiation in a Chinese Garden" (Chasin). "Martionettes" (Cul). "Refrain Berceuse' (Palmgren). "Liches Waitz" (Moszkowski). 90; The Scois Ohurch Choir (organist and dir-ector, Mansley Greer). Choir principals: Annie Caddell, soprano; Ma-damé Grégor Wood, contraito; Colin Thomson. tenor; Leslie Paull, bass. Three Russian Antheras (unaccompanied)--(a) "Come O Blessed Lord." (b) "Bymn of the Cherubin" (Tschalkowsky):

- Reight and breezy selections
- Dance music. .3°: Ern Hall's Radio Revellers (with Hugh
- 10.3": "Stars are the Windows of Heaven" (Malie). "That's Her Now" (Ager). "Japansy" (Klenner). 3.41: Dorothy Stephens will interpolate a few
- 10.41:
- 11985. 10.45: Ern. Hall's Revellers again-"Constantinople" (Carlton),

- "In the Woodshed She Said She Would" (Johnson). (Wallace). "Minnetonka" (Wallace). "Pireworks" (Williams). "Roses of Yesterday" (Berlin. "Jo-Anne" (Ward). "Gipsy" (Gilbert). Beneted.

- 11.30: God Save the King.

3AR

- MORNING SESSION 10.0 to 10.59; See Friday.
- MORNING MUSICAL SESSION
- 11.0: A Mill Race of Melody. 11.30: Ina Morne-ment. 12.0: Ballads. 12.20: British official wire-less news: announcements. 12.30: Close down.

AFTERNOON SESSION

- Announcer; John Stuari. 3.0: Beautiful ballads. 3.30: The Imperial Rus-sian Trio. 4.0: Ballads. 4.30: Close down.

EVENING SESSION

6.0: A classical concert by the Discus Ensemble. 7.10: News service: announcements. 7.20: Popu-larities by The Discus Ensemble.

NIGHT SESSION

- NIGHT SESSION 6.0: Mme. Soward-"A Lesson in French." 8.15: A. W. Jackson will speak on "Golf." 5.30: The Station Orchestra--"Adagio and Allegro from No. 1 Symphony" (Schuher); J. Allan, tenor--"Weller's Phero Song." Weller's Phero Song." Weller's Phero Song." Weller's Phero Song." B.47: The Imperial Russian Trio (Arved Norit, ylano)--trios--"Traumerel" (Schumann).
 - "Traumerel" (Schumann).

- 200 God Save the King.

4QG

EARLY MOBNING SESSION.

7.43 to 8.30: See Friday. MORNING SESSION. 11.0: Music. 11.5: Social news. 11 11.0; Music. 11.5; Social news. 11.15; Lecturette, talk on "Home Crafts," by Mrs. R. L. Reld. 12.0 noon; Close down.

3.0: A programme of electrically reproduced re-cords. 3.30: Mall train running times. 4.15: This afternoon's news. 4.30: Close down. EARLY EVENING SESSION.

EARLY EVENING SESSION. 6.0: Mail train running times; mail information; shipping news. 6.5: A law talk. "Married Women." Part II., by a barrister-in-law. 6.15: Records. 6.25: Commercial announcements. 6.30: Bedtime storles, conducted by "Uncle Ben." 7.0: News in brief. 7.6: Stock Exchange news. etc. 7.45: Lecturette, a talk on "Photoraphy.g" by Mr. F. L. South (manager. Kodak, Ltd.). NIGHT SESSION. NIGHT SESSION.

NIGHT SESSION. (Announcer: H. Humphreys.) A classical programme by Archie Day's Party--Beatrice Pugh, soprano-"Serenade" (Strauss). "Orpheus with his Luke" (German). "Blue Butterdy" (Diokson). Archie Day, planist-"Caprice" (Gluck-Safat-Saens). Pred Homer, barltone-"Finden). If" (Woodforde-Finden). "Alah Be With DS" (Woodforde-Finden). "Alah Be With DS" (Woodforde-Finden). "Stillano and Rigandon" (Frencouer-Kreisler). "Impromptu in G Major" (Schubert), Beatrice Pugh and Fred Homer-

MIDDAY SESSION. 1.0: Market reports and weather information. 1.20: Wurlitzer Organ. 2.0: Close down. AFTERNOON SESSION.

11



12.35; Markets, news, etc. 12.30: Tune in: 1.01 1.1: Weather bulletin, supplied by Time signal. the Meteorological Bureau of West Australia. 1.3: Musical programme, relayed from the Primrose Cafe de Laxe; vocal items from the studio. 2.0: Close down. 3.30: Tune in. 3.45: Musical programme from the studio, including planoforte solos by Miss Audrey Dean; violin solos by Mr. Frank Romaine. 4.30: Close down. 6.45: Tune in. 6.48: Bedtime 4.30: Close down. 6.45: Tune in. 6.48: Bedume nories by Uncle Duffy. 7.5: Light music by the Station String Trio. 7.30: Commercial and general information. 7.45: Talk by Dr. J. S. Battye, E.A., L.B. 8.0: Time Signal. 8.1: First Weather bulletin. 8.3: Concert by the Coolgardie Lieder. safel, relayed from the Perth Town Hall. 8.50: Late news items, by courtesy of "The Daily News" Newspaper Co., Ltd.; station announcements; ships within range announcement; late weather bulletin. 9.5: Programme continued from the Town Hall. 10 30: Olose down.

104.5-METRE TRANSMISSION Simultaneous broadcast on 104.5 metres of pro-gramme given on 1250 metres, commencing at 6.45 n 50.

7ZL

MIDDAY SESSION 11.30 to 1.30: See Friday.

AFTERNOON SESSION

3.0: Chimes. 3.1: Selections. 3.4: Weather. 3.5: Selections. 4.15: An educational talk on "Inter-Empire Trade." 4.30: Close down.

EARLY EVENING SESSION

6.15: Selections. 6.30: Basil Sproule, will play the pano for the little ones-"Old Pal," "Valse." 7.0: answers to letters and birthday greetings by Uncle David and The Storey Lady. 7.10: The Storey Lady will tell a story to the wee folk. 7.15; News session. EVENING SESSION

7.30: Geo. Lewis, of the Hobart Savings Bank till speak on "History of the Savings Bank." 7.45: W. E. Fuller will speak on "Literary Lapses and Ubrary Lists." 8.0: Ohlmes. 8.15: A dance pro-pramme by the Ritz Band and Mile. Columbia. Rits Dance Band-Fox Trot "Blue Night" (Rollins), "Tell Me You're Sorry" (Davis), Waltz, "Mexican Serenade" (Terese). 8.24: Harry Dearth, bass-Serenade" (Terese). 8:44: Harry Dearth, bass-obaway, Awake, Beloved" (Gowen), "Leanii" (Ben-atti), 8:31: Ritz Dance Band-"Don't Be Like That" (Gottler), Fox Trot, "Blue Baby" (Green), Tate, "Fashionette" (Glogau). 8:40: Light Opera Co.-"Gems from Robin Hood" (Koyen). 8.47: Ritz Dance Band-Waltz, "Beloved" (Kahn), Yale, "All By Yourself in the Moonlight," Fox Trot, "There's a Ridge Round My Heart." 8.56: Alfred O'Shea, tenor-"Little Town in Ould County Down" (Pascoe), "Ma-(Rowe). 9.3: Ritz Dance Band-"Cinnacushia" cushs" (Rowe). 9.3: RILL DENCE DENUE DENNE mon Cake" (Bernard), Fox Trot, "If You Don't Love Me" (Ager), Yale, "You Can't Cry Over My Shoulder" (Heath). 9.12: Harry Lauder, baritone-"The Boss" (Lauder),"I Like My Old Home Town" (Lauder). 9.19: Ritz Dance Band-Waltz, "One Night of Love" Pink), Pox Trots, "There Are Eyes" (Keyes), "One Hundred Years From Now." 9.28: Robert Radford, basso-"When That I Was a Tiny Boy" (Nicola). 1.31: Rits Dance Band-Yale, "Dancing Shadows" [31] Satz Johnson Trots, "That's Her Now" (Tellen), Me and Jane in a "Plane." 9.40: Rachel Morton, sprano-"Love Will Like a Wild Birding Fly." "Love and Music, These Have I Lived Por." 9.46: News assion. 10.0: Othures. 10.1: Close down.

7ZL

MIDDAY SESSION

MIDDAY SESSION 1.30 to 1.30: See Fiday. AFTERNON SESSION ACTION SESSION ACTION SALE Weather: 3.15: An hour wh Mile Columbia and Patis Planola. 4.15 and Edia? will speak on "Fashloners for Even-ing Wear." 4.30: Close down.

EARY EVENING SESSION

6.15: Music. 6.30: Meg Viney will recite to the refolk-"This Little Teddy Bear" and "Market Soure." 7.0: Answers to letters and birthday peetings by "Uncle David." 7.15: News session. EVENING SESSION

EVENING SESSION 10: Geo. Collis will speak on "Physical Culture." 14: Collis will speak on "Physical Culture." 14: Under the auspices of the Tasmanian Uni-terity, Rev. A. C. Nelson will speak on "Massfield, a Man and Mis Work" (continued). 8.0; G.P.O. Collis of the State of the State of the State of the State the concert programme arranged by James Marsh, emant-artists, Daisy Walters, Keith Semple, David James Marsh, Memorial Choir. 9.48; wa session. 10.0; Chimes. 10.1; Close down.



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Local Programmes, Wednesday, May 8

2FC

EARLY MORNING SESSION. Announcer: A. S. Cochrane.

7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfall; river re-port; temperatures; astrononical memor-anda. 7.7: "Sydney Morning Herald" sum-mary. 7.12: Shipping Intelligence; mall ser-vices. 7.15: Studio music. 7.25: Investment market; mining sharemarkets; metal quota-tions; wool sales; breadstuffs markets; Inter-State markets; produce markets. 7.40: Studio music. 8.0: "Big Ben"; close down. MORNING SESSION. Announcer: A.S. Cochtame 7.0: "Big Ben" and announcements. 7.2:

Announcer: A. S. Cochrane

10.0: "Big Ben" and approuncements. 10.3: Planoiorthe reproduction: 10.10: "Sydney Morning Heradd" news service. 10.25: Studio music. 10.45: A talk on "Home Cooking and Recipes" by Miss Ruth Purst. 11.0: "Benn": A.P.A. and Reuter's cable services. Benn"; A.P.A. an 11.5: Close down.

MIDDAY SESSION.

Announcer: A. S. Cochrane.

-Race results from Victoria Park. Althounder A. S. Source and S. call

ATERNOON SESSION

Announcer: Laurence Halbert.

Accompanist: Ewart Chapple.

Note.-Between 3 and 4 a relay from KGO will be taken. 2.30: Progr

will be taken.
2.30: Programme announcements.
2.31: Programme announcements.
2.32: Recital of selected records.
3.0: "Big Ben";
Bopular music.
3.30: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams 340: From the Studio, Natalie Beresford, soprano—(a) "The Woodplgeon" (Lehmann);
(b) "The Yellowhammer" (Lehmann);
(c) "The Wren" (Lehmann).
(d) "The Yellowhammer" (Lehmann);
(c) "The Wren" (Lehmann).
(d) "The Yellowhammer" (Lehmann);
(e) "Disession" (Wallace)
(later Bagey Breeches" (Darewski):
(b) "Obsession" (Wallace)
(c) "Assisting Benession", (b) "Good Morning Brother Sunshine" (Lehmann).
(c) Bennie Abrahams.
(c) Heimann).
(c) Hour anusic.
(c) Heimann).
(c) Assisting Circle Bance Orchestra, conducted by Bennie Abrahams.
(c) "Big Ben"; close.
EARLY EVENING SESSION. Programme announcements

EARLY EVENING SESSION.

Announcer: A S. Cochrane.

Announcer: A S. Cochrane. 5.40: The chimes of 2FC. 5.45: The Chil-dren's Session, conducted by the "Hello Mau" assisted by Uncle Ted and Sandy; letters and stories; music and entertainment. 6.30: Dalcety's market reports (wool, wheat, and stock). 6.40: Fruit and vegetable markets. 6.43: Stock Exchange information. 6.45: Weather and shipping news. 6.48: Rugby Wireless news. 6.50: Late sporting news 70: "Big Ben"; late news service. 7.10: The 2FC Dinner Quartette, conducted by Horace (Strauss); (b) "Moonlight in Rio" (Werthei-mer): (c) "Chansonette" (Brian Hope); (d) "High Jinks" (FrimD); (e) "The Ourtain Falls" (D'hardelot).

EVENING SESSION.

- Announcer: Laurence, Halbert (Studio). Announcer: A. S. Cochrane (Town Hall) Accompanist: Ewart Chapple
- 7.40: Popular music.

7.45: Programme announcements.
7.45: Studio Items.
8.0: "Big Ben"; from the Sydney Town Hall—Radio and Electrical Exhibition. 1929.
5.1: The Euterplans Female Choir, successful competitors in the recent Radio Esteddicated. fod

- (a) "The Snow" (Elgar).
 (b) "Sound Sleep" (Williams).

- 8.10: Stanley Clarkson, basso—

 (a) "O Night of Stars and Splendour"
 (Thompson).
 (b) "Tally Ho" (Leoni).

 8.17: Connie Howard, violin solos.
 8.24: Amy Ostinga, contralto—

 (a) "May Day at Islington" (Oliver).
 (b) "Saint Valentine" (Easthope Martin)
- - tin).
- 8.32: Frank Ryan, comedian— "The Old Caretaker" (Newman). 8.40: The Smart Set Trio, Instrumentaiists

ists—
(a) "Barcarolle" (Offenbach).
(b) "Lolita" (Stoneham).
8.47: Stanley Catlett, tenor—
(a) "Love Me" (Tosti).
(b) "Ribbon Song" (Lohr).
8.54: The Euterplans Female Choir, successful competitors in the recent Radio Eisteddfod

(a) "Swannee River" (arr. Riego).
(b) "You Stole My Love" (MacFarren).
9.0: From the Studio—"Big Ben"; weather 9.0: From the Studio—"Big Ben"; weatner report.
9.1: C. Price Conigrave—An Australian.
Travelogue, "Exploring in Kimberley."
9.16: Stanley Clarkson, basso—

(a) "Silent Noon" (Williams).
(a) "Shepherd, See Thy Horse's Foaming Mane" (Korbay).
9.23: Connie Howard, violiniste.
9.30: Amy Ostinga, contralto—

(a) "A Dream" (Cowan).
(b) "A Dream" (Cowan).
(c) "A Bream the Set Trio, instrumenualists—

- iste

- (a) "Danny Boy" (Wetherley).
 (b) "Serenade" (Toselli).
 (c) "Rag Doll" (Brown).
 9.47: Stanley Catlett, tenor(a) "Flower Song" (Carmen) (Blzet).
 (b) "A Vucchella" (Tost).
 9.54: Frank Ryan. comedian.
 10.4: Euterpians Female Cholr-(a) "To the Evening Star" (Bantock).
 (b) "Spinning Chorus" (Wagner).
 (c) "Stars of Summer Night" (West).
 (d) "Waltz Song from Faust" in Branscombe). arr.
- Branscombe).

- Branscombel. 10.16: The Smart Set Trio— (a) "My Black Birds are Blue Birds Now" (Campbell and Whiting). (b) "Souvenirs" (Nichoels). (c) "Little Blue Bird" (Smithson). (d) "Old Man Sunshine" (Warten). 10.28: Late weather and to-morrow's pro-

- gramme. 10.30: National Anthem; close.

2BL

MORNING SESSION.

Announcer: A. C. C. Stevens.

Announcer: A. C. C. Stevens. 8.0; G.P.O. chimes. Weather report-State and metropolitan. 8.3: Studio music. 8.30: G.P.O. chimes. News and information service from "Daily Telegraph Pictorial." 90: G.P.O. chimes. Studio music. 9.30: G.P.O. chimes. Half an hour with silent friends. 10.0: G.P.O. chimes. Close.

MIDDAY SESSION.

Announcer: A. C. C. Stevens. 11.0: G.P.O. chimes. 2BL Women Announcer: A. C. C. Stevens. 11.0: G. P.O. chimes. 2BL Women's Sports Association session, conducted by Miss Gwen Varley. 11.30: Advertising hints. 11.40: Women's session, conducted by Mrs. Cran-field. 12.0: G.P.O. chimes. Special ocean forecast sind weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.48: "Sum' midday news service. 1.0: Studio music. 1.30: Talk to children ind special entertainment for chil-dren in hospital. 2.0: G.P.O. chimes. Close down. down.

Note:--Race results from Victoria Park will be broadcast, by courtesy of the "Sun" newspapers.

AFTERNOON SESSION.

Announcer: Basil Kirke (Studio) Announcer: A. C. C. Stevens (Town Hall).

Accompanist: Kathleen Roe.

3.30: G.P.O. chimes. From the Sydney Town Hall. Radio and Electrical Exhibition, 1929. The Melody Trio, instrumentalists. 3.38: A. G. Ellis, baritone—(a) "If I Might Only Come to You" (Squire), (b) "O. Flower of All the World" (Finden). 3.44: Anne

Luciano. sopraho—(a) "Sunflakes" (Phillips (b) "Here in the Quiet Hills" (Carne). 3,5 The Melody Trio, instrumentalists. 4,6; A G. Ellis, barticone—(a) "You Along o Me (Sancierson), (b) "What Am I, Love Withou Thee" (Adams). 4,7; The Melody Trio, n-strumentalists. 4,15; Anne Luciano, soyna —(a) "Gossamer Wings" (Benyon), (b) "Early in the Morning," (Phillips). 4,27; The Melody Trio, instrumentalists. 4,36; Popular music. 5,0; G.P.O. chimes. "Sun" ners-service. 5,7; Studio Items. 5,17; Piandore reproduction. 5,32; Resume of races from Victoria Park. 5,37; Features of the erep-lng's programme. ing's programme.

EARLY EVENING SESSION.

Announcet: Basil Kirke

Announcet: Basil Kirke. 5.40: Children's session. conducted by Unt-Bas. Music and entertainment. Letters as stories. 6.30: "Sun" news and late sporting 6.40: 2BL Dinner Quartette-(a) "Illusion Valse" (Michlels). (b) "By the Tamariat (Coates). (c) "HM & Pinafore" (Sullivan. (d) "My Desire" (Wakefiel-Cadman), (e) "My Wild Irish Rose" (Olcot). 17: Au-tralian Mercantille Laud and Finance Cul report. Weather report and forcess. by con-tesy of Govt. Meteorologist. Produers' Du-tributing Society's fruit and vegetable mater reports. Grain and fodder report ("Sull'y Dairy produce report ("Sun"). 7.25: Mr. Pim and Miss Pann in advertising talks, hange 1.55: Programme and other announcement EVENING SESSION.

The Hon, William Tatha Lady Finton Kitty Lake

Lady Finton Meg Service Kitty Lake Felix Clari The Hon. Margot Tatham (Willie's wife).

Mavfair Mayfair. Act II.—Room at Grenham Court-Lot Grenham's house—two weeks later. Act III.—The same—next morning. 9.8: Weather report. 9.9: Zilata Kalmikoff, 'cellist-(a) "Romance, Op. 8" (Becker). (b) "Liebesfreud" (Kreisler). 9.16: From the Capitol Theatre, stage pre-sentation.

10.57: From the studio, to-morrow's pro-gramme. 10.59: Romano's Cafe Dance Orchesta conducted by Bennie Abrahams, 11.30: National Anthem. Close **2UW**

MIDDAY SESSION. 12.30: Music. 1.0: G.P.O. clock and chimes Music. 1.15: Talk on Homecraft, by "Pan-dora." 1.30: Music. 2.30: Close down. 430:

EVENING SESSION.

5.30: Children's Hour, conducted by Unde Jack. 6.30: Close down. 7.0: G.P.O. clor and chimes. Request numbers. 90: G.P.O. clock and chimes Comments on foreign at-fairs, by Mr. J. M. Prentice. 9.10: Music and request numbers. 10.30: Close down.

Musical programme.

Friday, 3rd May, 1929.

WIRELESS WEEKLY

Page Fifty-Three

Wallace Wave Trap Eliminates Interference. Ready-made, 17/6. Home Assembly Kit, 14/6. Write for Free Instructions.	CHEAPNESS - "The Wire YOU CAN	"Fixed Variable" Condensers. For use in Wave Trap described in "Wireless Weekly," 5/4/29 All Capacities, 4/6.	
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Same day service for cou Clients. Unqualified Money back guarantee 'Phone, MA	Miss F. V. 6 Royal Arc THE OLDEST RAD Established	ade, Sydney Signal Sydney	ostage paid on all goods except batteries and speakers . Markets.
CHA	stounded th alike. Subs dark mahoga is due to pate To ho DISTRIBUTORS:MANUFACT URE PTY., SYDNEY AND MELL FOX & MACGILLICUDDY,	value and tone have the critics and public tantially built, in either ints exclusive to M.P.A. ear it is to buy. ERS PRODUCTS, BOURNE. SYDNEY. IN CONCESSIONNAIRE: MACCLUCR	CAN

8.30; A Thought for To-night (WD! H. Lister

"Co-operation." **Co-operation." 8.35: A. N. su.c., barltone-"Slave Song" (Del Riego). **Tin I Waac" (Woodfo.ac-FiFndea). 8.46: Al. Freathersource Source-uzz-waltz, "Kevene" (Lewis). 8.00: Sharley Raudoiu, Source-10: Minobian aires unineer-10: All. Feathersone's Dance Orchestra-One-slep-"When the Sun Goas Down in De-

5.10; All. Francesson's Johne Ordensins-One-step. "When the Sun Goes Down in Romany" (Berlay You Bet" (Gibbs) 20: Laurie and Rayne-20: Laurie and Rayne-20: St. The minutes musical novelty. 3:3: The minutes Do Hawahan anstrumentaling Watz, "Killma." -40: Alf. Fall Along" (Trant)

Portfords Andrewskie S Dance Orchesira-Portfords Anig" (Trent).
Just Roll Anig" (Trent).
Sto: The herana Dut, (Hawaiian Instrumentalina "Honolulu March."
Sto: Alf. Peatherstone's Dance Orchestra-Old-time Waltz, "The Blue Danube" (Straus. 10.1: News; weather.
10.1: Straws; weather.
10.5: Alf. Three-quarters of an hour's dance mance 11.0: Close down.

5CL

MORNING SESSION.

<text><section-header><text>

EVENING BESSION. 6.0: Chimes. 6.1: Resume of race results. 8.1 Birthday greetings, correspondence, song, us atories, by "Mias Wirelas." 6.30: Innterinde ef music. 6.50: 5CL's sporting service, supplet "Silvius," including MorphetVille and Gelong ras results. 7,0: Chimes. 7.1: Stock Exchange Infa-mation. 7.6: General market reports. 7.10: Ret. E. Klek will give a talk on "Biody May" 71 An address to Boy Scouts. 7.40: SOL Bluebird Ord Club.

EVENING SESSION.

NIGHT SESSION. 8.0: Chimes.
8.1: A special programme has been arranged 10.15; News session.
10.30; Modern dance records.
11.0: Close down.

6WF

Ο ΟΥΓ 14.30: Tune In. 12.35: Markets. may etc. 14. Tune signal. 1.4: Weather bulletin, supplet but detectological Bureau. 1.3: Taik, "Date but the signal of the signal but the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal weather of the signal of the signal of the signal of the signal weather of the signal of the signal of the signal of the signal weather of the signal of the signal of the signal of the signal weather of the signal of the signal of the signal of the signal weather of the signal of the signal of the signal of the signal weather of the signal o

104.5-METRE TRANSMISSION Simultaneous broadcast on 104.5 metres of gramme given on 1250 metres, commencing at 14

Interstate Programmes, Wednesday, May 8

3LO

EARLY MORNING SESSION. 7.15 to 8.15: See Friday.

MORNING SESSION. MORNING SESSION. 11.0: To-day's radio recipe: Marmainde pudding. 11.5: Miss I. D. Beaven will speak on "Home-made Confectioner." 11.25: Mrs. M. Gallaway Mahood will speak on "The Art of Decoration." 11.45: Mrs. Clarence Weber will speak on "Physics. Our Women-Prevention is Better than Core." MID-DAY NEWS SESSION.

MID-DAY NEWS SESSION. 12.0: Melbourne Observatory time signal. 12.1; Metal prices received by the Australian Mines and Metala Association of the Australian Press Acock Ex-nuaby: Reuters and the Australian Press Associa-tion cables: "Argus" news service. 12.20: General-programme, including Stanley J. Alen, tenor. 12.37: Stock Exchange information. The Radio Rev-lers: Dorothy Stephen, entyrtainer. 1.8: Meteoro-logical information: weather forecass and Taamabing: New South Wates, civer reports; rainfail. 1.30: Speaches: transmitted from the Rotary Gub lunch-bourne. 2.0: Close down. AFTERNOON SESSION.

AFTERNOON SESSION.

at the Freeman on Hall Colling Street, Melbourne. 2.0: Close down.
 ATERNOON SESSION.
 A. BYERNOON SESSION.
 A. BYERNOON SESSION.
 Close down.
 Amies. Ceelong races. 220: The Station Orchestries.
 S. The Station Orchestra. 3,2: Description of Cliy Handleap. 1 mile 2 furiongs 1327de. Crelond races.
 J. The Station Orchestra. 3,2: Description of Cliy Handleap. 1 mile 2 furiongs 1327de. Crelond races.
 J. The Station Orchestra. 3,3: Description of Cliy Handleap. 1 mile 2 furiongs 1327de. Crelond races.
 J. The Station Orchestra. 4,20: Description of Cliy Handleap. 1 mile 2 furiongs 1327de. Crelond races.
 J. The Station Orchestra. 4,30: Description of Figure Bandleap. 6 furiongs. Gelong races.
 J. The Station Orchestra. 4,30: J. Beeription of Station Orchestra. 4,30: Close down.
 Description of the Coleraine races will be broad-soprano. 4.7: A Anderson, clarinet. 4.13: Description of the Station Orchestra. 4,50: Close down.
 Chenge Cole Exchange Information. During the affective Stock Exchange Information. During the affective stock Exchange Information.
 Chenge Cole Coleraine races will be broad-soft. The Propers. Son." will give some more of his famous impersonations.
 CHIDREN'S HOTME.
 Constance Articulture, 4.11 give a future for the station of the past future for the station of the past future for the station of the station.
 Stock Exchange Information. 7.15: Market Frequence.
 Monumeer, Frank Hatherley.
 Accompaniste, Agase Forthe.
 Constance Articulture, and State Down.
 Market Frequence.
 Monumeer, Frank Hatherley.
 Accompaniste, Agase Forthe.
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 Mace Articulture, and state states.
 Mace Articulture, and statestreet.
 Mace Articulture, and the statestreet.</

Bolosti, J. Alexander Browne.
Bilt The Station Orchestra. "
Sonata for Orchestra."

Alexander Browne. barltone"Sonata for Orchestra."
Alexander Browne. barltone"Mille Northern Wallow
The Station Orchestra."
Orchestrab. Suite. "Pictures from France."
Alexander Browne, barltone"Love Comes But Once"
"Love Comes But Once"
"Corestrab. Suite. "Pictures from France."
Alexander Browne, barltone"Love Comes But Once"
"Generate Suite. "Pictures from France."
Alexander Browne, barltone"Dere Heart of Mine"
(with orchestral accompaniment).
Treester Halt on Miner."
"Cotavo solo for piano and orchestra.
"Haf an bour with Schubert.

Ext. Lindsey Biglins, piano"Impromptu in O Minor."
"Moment Musicale in A Flat, Op. No. -""Onces."
"A little Bit of Australia."
Half an hour is the Schubert.
Statis Jack He Ringer of the Shed, Frank
Half an hour is the Schubert.
Statis Jack He Ringer of the Shed, Frank
Half an hour is the Schubert.
Frances."
" A kitte Bit of Australia."
Half an hour is the Schubert.
Freider, Jornay Piach is rouseabout who plays is and a schuber.
Freider, Jornay Piach is a boundary rider who sings bush sonks. Oliver Feacek. (Jd Wildy Jackson, a reflex and shearer.
The at is nevet night early in the shearing season.
The is the

MacLean. It is a wet night early in the shearing senson. The but is pretty full of men, and hums with their conversation. The rain is heard, too, falling heavily on the roof as the scene opens. 9.45: The Station Orchestra--Belection, "Maiden of Perther Hills of Enclose the station of the station of the station of the station information of the station of

- 10.25: The Station Orchestra-Selected.

- 10.38: Ern. Hall's Radio Revellers. with Hugh Huxham-"Honey" (Simons). "When the Right One Comes Along" (Glibert). "Whear a Hat with a Silver Lining" (Sherman). "One Alone" (Romberg). "The Desert Song" (Romberg). "The Oses Like This" (Glesar).

 - Selected. 11,30: God Save the King.

3AR

MORNING SESSION

- 10.0 to 10.59: See Friday.
- MORNING MUSICAL SESSION Evterpe interprets. 11.15: The Strad Trio.
 British official wireless news; announcements.
 30: Close down.
- AFTERNOON SESSION

AFTERNOON SESSION Announcer: John Stuart. 3.0 Becutiful ballads and orchestral chefs d'ctuvre. 4.15: Miss P. F. Yerbury will speak on "How a Great Sportsman Won His Spurs." 4.30: Olose dewn. EVENING SESSION

- EVENING SESSION
 6.30 The Imperial Russian Trio.
 7.01 Bellads. 6.30 The Imperial Russian Trio.
 7.02 Beautiful bellads.
 NIGHT SESSION
 Announcer: John Stuart.
 Accompanist: Reg. Browne.
 St. Concident O. H. Reteries.

Announces: John Bluart. Accompanist: Reg. Browne. 8.0: Capitain O. H. Peters-"Books, Wise and Otherwise." 8.16: Commissioner D. Kennedy, under the Atis-pices of the Boy Scouts' Association, will speak 3.30: Transmission from the Auburn Methodist Church, arranged by J. Sutton Crow. J. Sutton Crow, orgen-"Chant Herolque" (Franick). Sybli Shaw, contraito-"Still as the Night" (Bohm). Hermis Barton, Villan-"Still as the Night" (Bohm). Hermis Barton, Villan-"Scuvenir" (Drdia). Stells Dredge, contraito-"Andante Cantabile" (Mozart). "Sutton Crow, orgen-"Andante Cantabile" (Mozart). "Stells Dredge, sonrato-"String of Fearls" (Iscalkówsky). "Stells Dredge, Sonrato-"String of Pearls" (Cartian). Stells Dredge, Sonrato-"String of Pearls" (Cartian). Stells Dredge, Sonrato-"The Women's Hospital and Its Work." 9.30: From the Studio, T. M. Burke will speak on "The Women's Hospital and Its Work." 9.45. Gertrude Hutton, mezzo-contraito-"Theur Exoute" (Haha), "Theur Exoute" (Haha), "Theur Women's Hospital and Its Work." 9.45. Gertrude Hutton, mezzo-contraito-"Theur Minter (Bohumann). "Night-Vision in F" (Schumann). 10.12: Gertrude Hutton, mezzo-contraito-"Theur Minter (Bohumann). "Night-Vision in F" (Schumann). 10.12: Gertrude Hutton, mezzo-contraito-"The Ring" (Schumann). "Night-Vision in F" (Schumann). 10.20: News service, exclusive to 3AR; announce-methics. 10.30: God Save the King.

- 10.30. God Save the King.

40G

down.

400G EARLY MORNING SESSION. 7.45 to 63:0 See Friday. MORNING SESSION. 11.0: Music. 11.6: Social news. 11.15: A talk on "Artistic Uses of Sealing Wax and Crepe Paper," by "Denise." 12.0 noon: Olose down. MIDAY SESSION. 1.0: Market reports and weather information. 1.15: The Postal Institute Orchestra. 2.0: Close down. ATTERNOON SESSION. 3.0: A programme of records. 3.30: Mail train running times. 4.15: Afternoon news. 4.30: Close down.

EARLY EVENING SESSION.

EARLY EVENING DESSION. 6.0: Mail train running times; mail information; thipping news. 6.5: Dinner music. 6.25: Commer-cia announcements. 6.30: Bediume stories; conduc-ted by "Little Mias Brisbane" 7.0: News in brief. 7.5: Stock Exchange news. etc. 7.45: LeCurter ar-ranged by the Queensiand Agricultural High School and College. MICL SECON

NIGHT SESSION.

NRGHT SESSION. (Announcer: H. Bumphreys.) 8.0: Alf. Peatherstone's Dance Orchestra— "Oldal Reg Doll" (Acer). 8.0: Alf. Brodgart and Miss M'Dowell, duetisfa-"Morning" (Lane). "Love is Bondgart and Miss M'Dowell, duetisfa-"Love is Can't Give You Anything But Love" (Pields). "Promise Me' (Van Cooth).

Friday, 3rd May, 1929.

Page Fifty-Fife



Local Programmes, Thursday, May 9

2FC

EARLY MORNING SESSION. Announcer: A. S. Cochrane.

Announcer: A. S. Cochrane. 7.0: "Big Ben" and announcements. 7.2: Official weather forecast; rainfail; river re-port; temperatures; astronomical methor-anda. 7.7: "Sydney Morning Herald" sum-mary. 7.12: Shipping intelligence; mail ser-vices. 7.15: Studio music. 7.25: Investmenu-market; mining sharemarkets; metal quola-tions; wool sales; breadstuffs markets; Inter-State markets; produce markets. 7.40: Studio music. 8.0: "Big Ben"; close down. MORNING SESSION.

MORNING SESSION.

Announcer: A. S. Cochrane.

10.0: "Big Ben" and announcements. 10.2 10.0. "Big Ben" and announcements. 10.2. Planoforte reproduction. 10.10: "Sydney Morning Herald" news service. 10.25: Studio nusic. 10.30: Last minute sporting informa-tion by the 2FC Racing Commissioner. 10.40: Studio music. 11.0: "Big Ben" A.P.A. and Reuter's cable services. 11.5: Close down.

MIDDAY SESSION.

<text><text><text><text><text><text><text><text>

- 8.46: Ambrose Bourke, baritone.
 8.53: Mischa Dobrinski, violinist.
 8.0: "Big Ben." John Mitchell, tenor.
 9.7: Dagmar Roberts, pianist—
 (a) "Three Fours" (Coleridge-Taylor.
 (b) "Gopak" (Moussorgsky).
 (c) "Hungarian Air" (Traditonal).
 (d) "Polichinelle" (Rachmaninoff).
 (e) "Hongarian Air" (Traditonal).
 (f) "Gorak" (Moussorgsky).
 (f) "Gopak" (Moussorgsky).
 (g) "Hongarian Air" (Traditonal).
 (h) "Gopak" (Moussorgsky).
 (h) "Gopak" (Moussorgsky).

2BL

MORNING SESSION.

MORNING SESSION. Announcer: A. C. C. Stevens. 8.0: G.P.O. chimes. Weather report—State and metropolitan 8.3: Studio music. 8.30: G.P.O. chimes. News and information service from "Daily Telegraph Pictorial." 9.0: G.P.O. chimes. Studio music. 9.30: G.P.O. chimes. Half an hour with silent friends. 10.0: G.P.O. chimes. Close.

MIDDAY SESSION.

Announcer: A. C. C. Stevens.

Announcer: A. C. Stevens. 11.0: G. P. O. chimes. 2BL Women's Sports Association session, conducted by Miss Gwen Varley. 11.30: Advertiling hints: 11.40: Women's session, conducted by Mrs. Cran-field. 12.0: G.P. O. chimes. Special ocean 'orecast and weather report. 12.3: Studio music. 12.30: Shipping and mails. 12.35: Market reports. 12.45: "Sum' midday news service. 1.0: Studio music. 1.30: Talk to children and special entertainment for chil-dren in hospital. 2.0: G.P.O. chimes. Close down. down.

AFTERNOON SESSION.

Announcer: A. C. C. Stevens.

Accompanist: Kathleen Roe.

Accompanist: Kathleen Roe. 3.45: G.P.O. chimes. Popular music. 3.50. Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.0: G.P.O. chimes. B. M. M'Michan will speak on General Diseases in Dogs. 4.15: Winifred Campbell, soprano-(a) "Little Lady of the Moon" (Coates), (b) "Trees" (Hahn): 4.22: Romano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 4.32: Popular music. 4.42: Winifred Campbell. soprano-(a) "Heart's Desire" (Fraser-Simp-son), (b) "My Desire" (Cadman). 4.50: Ro-mano's Cafe Dance Orchestra, conducted by Bennie Abrahams. 5.0: G.P.O. chimes. From the Studio: Planoforte reproduction. 5.15: Studio items. 5.37: Features of the evening's programme. programme

EARLY EVENING SESSION.

EARLY EVENING SESSION. Announcer: Basil Kirke. 5.40: Children's Session, conducted by Uncle Eas. Music and entertainment. Letters and stories. 6.30: "Sun" news and late sporting. 6.40: 2BL Dinner Quartette-(a) "Marche Tazigane" (Ideombe), (b) "Kisses in the Dark" (Micheli), (c) "Love in Arcady" (Woods), (d) "Iolanthe" (Sullivan), (e) "Lo-tus Blossom" (Chilsen). 7.7: Australian Mer-cantile Land and Finance Co's report. Wea-ther report and forecast, by courtesy of Gov-ernment Meteorologist. Producers' Distri-ter of the state of the state of the state of the state report. Grain and fodder report ("Sun"). Dairy produce report ("Sun"). Weekly traf-fe bulletin. 7.25: Mr. Pim and Miss Pam in sdvertising talks, handy hints, and nonsense. 7.53: An Ad. Special. 7.55: Programme and other announcements. EVENICE SESSION. Accompanist: Horace Keats. 8.0: G.P.O. chimes. 2BL Topical Chorus. 8.2: From the Town Hall: Radio and Elec-trical Exhibition, 19.29. The Metropolitan Band, conducted by John

Palmer.

Selection, "Beauties of Wagner" (arr Newton)

8.16: David Craven, baritone-(a) "If Ever I Meet the Sergeant" (Sanderson)

(b) "Sonny Boy" (Jolson). 8.24: Bertle Wright, the well-known com-

- dian (a) "Wheel Him In" (Batch and Lang
 - try) "Dear Matilda" (Damerell and Har-(b) greaves)
- 8.34: Arthur Prince, the Prince of Banioiststs—

 (a) "There's a Rainbow Rom Shoulder" (Jolson).
 (b) "Popular Medley."
 840: "The Crescendo" Vocal Trio-Agnes MacDiarmid, soprano. Rainbow Round Mr
- Agnes MacDiarmid, soprano. Eva Newbury, mezzo. Peggy Dunbar, contralto-Trio: "The Oars are Plashing." Duet, soprano and contralto. "I Lore Ym Truly" (Bond). Trio, "Bird in Hand."

- Trio, "Bird in Hand." 8.48: The Metropolitan Band, conducted by John Palmer-Fantasia, "British Songs" (arr. Romd). 9.0: From the Studio: G.P.O. chimes. Wa-

- 9.0: From the Studio: OF O. CHINES Washer report. 9.1: David Craven, bartione-(a) "I am Fate" (Hamblen). (b) "Come to Me Then" (Sauer). 9.8: Arthur Prince, and his banjo-(a) "Down South" (Ossman). (b) "Popular Song Medley." 9.16: "The Crescendo" Vocal Tho. 9.26: The Metropolitan Band, conducted by Tobu Palmer-
- 9.26: The Metropolitan Band, conducted by John Palmer— Waltz, "Les Fleo RS D'Australle" (Labi 9.41: Bertie Wright, Comedian— (a) "What Makes the Ladies Follow & Everywhere?" (Wallace).
 (b) "Mother Loves Me" (Stanley and Al-land) (b) "Mother Loves leyn). 51: The Metropoltian Band, conducted by Dowe" (Lacalie).
- 'feyn).
 951: The Metropoltian Band, conducted John Palmer
 (a) March, "Hurrah Boys" (Lacalie).
 (b) Song Melody, "As You Pass By (Rusnell)...
 (c) March, "Colonel Bogey" (Alford).
 (d) G: The Crescendo Trio.
 (d) Eate "Sun" news service.
 (d) 26: Late weather report.
 (d) 27: To-morrow's programme.
 (d) 30: National Anthem. Close.

2GB

2CBB 10.0: Music. 10.10: Happines talk. w A.1 Bennett. 10.20: Music. 10.30: Women's Ses-sion, by Miss Helen J. Beegling. 11.30: Chu down. 2.0: Music. 2.5: Women's Padio Sev-tee, by Mrs. Dorothy Jordan. 2.50: Music. A.15: Close down. 5.30: Children's session, by Ducle George. 7.0: Music. 7.30: Short at by Mrs. Jordan. 8.0: Miss Gwiadys Edwarks soprano. 8.7: Mr. Leonard Brewer, riolink 8.15: Mr. Clement Q. Williams, baritone 82: Madame Bethes-Vincent. In an Ilustrated talk. "The mtaking of music." 831: Instrum-tent of Mr. Jack Win and Mr. Heath Burdock. 830: Madame Bennett North, contraito. 90: We-ther renort. 9.3: Address. 9.15: Instrume-tal music. 9.25: Miss Gwiadys Edwards, so-mand Mr. Heath Burdock. 9.40: Mr. Jack Win and Mr. Heath Burdock. 9.40: Mr. Jack Nin and Mr. Heath Burdock. 9.40: Mr. Jack Min and Mr. Heath Burdock. 9.40: Mr. Jack Mr. Back Burdock Mr. Jack M

2UW MIDDAY SESSION. 12.30: Music. 1.0: G.P.O. clock and chimes Music. 1.15: Talk on Homecraft, by "Pan-dora," 1.30: Music. 2.30: Close down. 430:

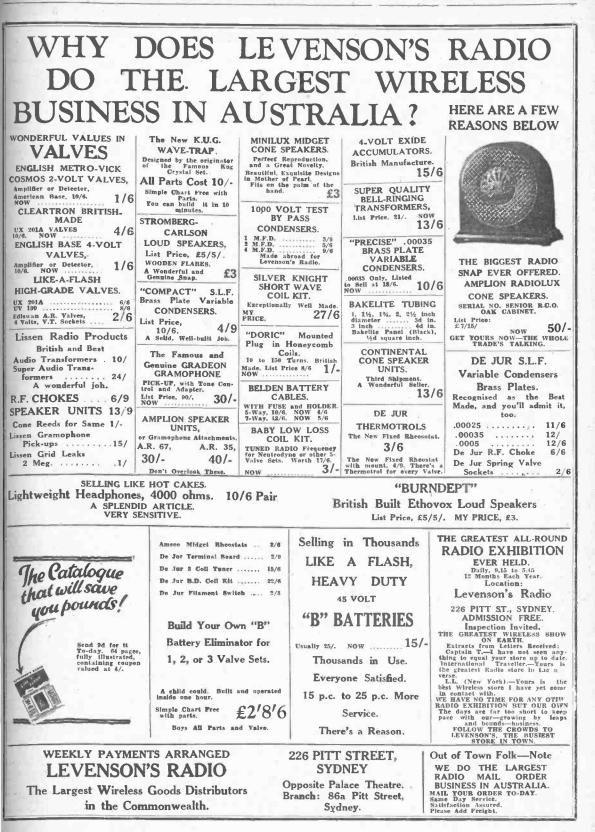
EVENING SESSION.

EVENING SESSION. 5.30: Children's Hour, conducted by Und-Jack. 6.30: Close down. 7.0: G.P.O. dod and chimes. Request numbers. 8.15: Gu-den talk, by Mr. S. H. Hunt. 8.30: Mus-9.0: G.P.O. clock and chimes. Comments m foreign affairs, by Mr. J. M. Prentice 31: Music and request numbers. 16.30: Case

Musical programme

down

Friday, Srd May, 1929.



9.10: Studio Instrumental Gartette-Characteristik, "Syncopation" (Kreine 18: The Silkstone Apollo Club-"The Derbyshire Ram" (Dr. Galleoth, 20: Annie Adams, soprano-"Silk Lady Moori" (Coleridge-Taylor). Selected. Morris, Dass-Selected.

2.5. We have been closeridge layor. Seletted Mortis, bass-Seletted Mortis, bass-Seletted Nortis, bass-Miss O. Woolley and Messrs. A sof 0 have Selected items. 9.35: The Royal Male Quartette-"Bong of the Bow" (Aylward), 9.36: The Suikstone Apollo Club-"Rolling Down to Rio" (German). 42: Alex Laurke, violinist-Self: Studi Instrumental Quartette-Wardh. "The Pericone" (Allen)

Selected. 847: Studio Instrumental Quartette-March, "The Periscope" (Allan). 8.81: T. Westwood, Bartiona-"The March of the Cameron Men' (screys) ied by the Silkstone Apollo Club. 8.55: The Silkstone Apollo Club. Chorus: "Martyrs of the Arena" ide Elle 10.0: News: weather: close down.

MOLINIC SESSION. 11.0: Chines. 11.1: Morning melodes. In Ritchen craft and menu taik [1.45; A is trailan short story, "Dick's Luck." 12.15; Green news service, British official wireless news 10; Railway information, Stock Exchange informat, melecorological information. 1.1: Lunch hour res 1.58: Meteorological information. 2.0: Close dyn AFTERNOON SESSION.

1.59: Metéorologicai Information. 7.6: Chee des AFTERNOON SESSION.
 3.0: Chlimes, general programme, including: Bas Quartette: Rev. C. H. Nield, in a cheer-gu and the session of the session o

ppeak to you. 7.20: Addie. Matreelle betrant. The for All. 7.40: Mr. A. M. Whittenbury, has a boultry breeders. NIGHT SESSION
S. O: Chines.
S. O: Chines.
S. C. Chines.
S. S. Chines.
S. S. Chines.
S. S. C. Chines.
S. S. C. Violin. The Value Social.
S. S. A violin recital, by Max Reimolds-"Hungarian Dances." (Wagner).
"Goodolleru" [H. Schreeder).
"Goodolleru" [H. Schreeder).
"Goodolleru" [H. Schreeder).
"Goodolleru" [H. Schreeder).
"The Warver and the Callph" iDobeel.
"The Carver a

"To-day," To-morrow, for Ever" (Nichoid, 9.54: Dolly Burdett, contrailo, and Rup Hume, "At the End of an Irish Moonbeam." 9.57: The Radio Revellers--"Who Knows" (Dixou, Burton), "The Crasy Over You" (Levis). "One Jack Hocking, barltone-"Dady, Wonderful Pal." 0.5: The Radio Revellers--"Oid Man Sunshine" (Dixon), "Wijni the Feed" (Bart), "Wijni the Feed" (Bart), "Wijni the Feed" (Bart), "Guess Who's in Town" (Razalf), "That Radio Revellers--"Guess Who's in Town" (Razalf), "That Radio Revellers--"Guess Who's in Town" (Razalf), "That Radio Revellers--"Atorna" (Gilbert), 9.31: The Radio Revellers--"Ashense Manyun" (Donalow, Emeri "That's What You Mean to Me' Dires, "That's Got a Gress Hig Army of Pited" (Bart), "Both, Got a Gress Hig Army of Pited" (Bart), "Bart, So ta Gress Hig Army of Pited" (Bart), "Bart, Bart, Santa Santa Mean Isto Me' Dires, "Bart, Bart Santa Santa Santa Santa Santa Santa "Bart, Barty Santa Santa Mean Isto Me' Dires, "That's Got a Gress Hig Army of Pited" (Bart), "Bart, Bart, Santa Santa Mean Isto Me' Dires, "Bart, Bart, Santa S

5CL

Interstate Programmes, Thursday, May 9

3LO

EARLY MORNING SESSION.

EAULI MORNING SESSION.
 7.15 to 8.15: Ber Priday.
 MORNING SEMON.
 7.10 to 8.15: AND AND SEMON.
 7.10 to 8.15: Ber Priday.
 7.10 to 8.15: Ber Priday.
 7.11 to 8.15: Ber Priday.
 7.12 to 8.15: Ber Priday.
 7.14 to 8.15: Ber Priday.
 7.15: Control to 9.15: Ber Priday.
 7.15: Ber Priday.
 7.16: Ber Priday.
 7.16: Ber Priday.
 7.16: Ber Priday.
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 7.17: Ber Priday.
 7.16: Ber Priday.
 7.16: Ber Priday.
 7.17: Be

Information. 12.43: Community singing resumed.
 S. Meiserological information: weakber fore-tend Transmission. 2.55: Conservation Australia.
 AFTERNON SERSION.
 2.15: General programme. including: The Statuon Orchestra: Moran Hilford, bass: Ettle Coc. contraito; Dorothy Rorburgh, viols. 3.6: Dr. Toftus Hills will preak. 3.15: Fritz Hart will speak to students of massion of the status of the Statuon Direction of the Status Hills will preak.
 3.15: Fritz Hart will speak to students of massion of the status of the Status Hills will preak.
 3.15: Fritz Hart will speak to students of massion of the status of the Status Mills will be preak.
 3.20: Rev. Win. Bottomicy will control to the status of the Status of the Coleratine races will be given as they form to hand.
 4.5: Kows service: Block Exchange information.
 During the afternoon results of the Coleratine races will be given as they form to hand.
 4.5: Class down.
 6: ALRLY EVENING SESSION.
 6: ALRLY EVENING SESSION.
 7: Stots: Exchange unformation.
 7: Booby Brein and they season.
 7: Booby Brein and they season.
 7: Stots: Exchange unformation.
 7: Boots: Exchange unformation.
 7: Boots: Exchange unformation.
 7: Boots: Exchange the section graves and takk.
 8: And maker of history.
 8: Boots.
 8: Stots: Change Berlin.
 8: Acount on Status.
 8: Acount on sections.
 8: Acount on sections.
 8: Stots: Change Berlin.
 8: Acount on Status.
 8: Acount on sections.
 8: Acount on sections.
 8: Acount on sections.
 8: Acount on sections.
 8: Stots: A maker of history.
 8: Stots: Bechange Acount on sections.
 8: The Redio Revellers— "Forty-seven of Inters.
 <l

- My Angeline (Wayne)...
 My Angeline (Wayne)...
 Ton)...
 As Rainbow Round my Shoulder" (Jo)...
 Ton a Rainbow Round my Shoulder" (Jo)...
 Back in Your Own Backyard."
 Sh: The Radio Revellers...
 "Mississippi Mud" (Haris). Friend.
 "High Upon a Hillion" (Baer).
 Today revelets...
 It was service, meteorological information:
 British ofhila Wireless news from Rugby: and
 Bouncennehts. Radio Revelers...
 "When Love Comes Stealing" (Rapee)
 "Roll up the Carpets" (Mixon).
 "To-day, To-morrow, for Ever" (Nichols).
 10.31: Dolly Burdett. contrails, and Hugh Hux.
 Ban, innor...
 "The Radio Revelers...
 "Who Knows" (Dixon).
 "The Crazy Over Your (Lawis).
 "The Crazy Over Your (Lawis).
 "The Radio Revelers...
 "Odd Wan Sunshine" (Biron).
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 "Odd Wan Sunshine" (Biron).
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 "The Crazy Over Your (Lawis).
 "The Radio Revelers...
 "Dist Dire Radio Revelers...
 "Dist Revelers...

- "My Dream Sweetheart" (Hall). 10.48: Thelma Ready, banjo-"My Curly Hended Babby" (Clutasm). 10.51: The Radio Revellers-"Guess Words in Towa" (Bazell). "That Biolen Melody" (Pisher). "Lenora" (Gliberi). 11.1: The Radio Revellers-"There's a Rickety Bhack" (Turk). "There's a Rickety Bhack" (Turk). "There's a Rickety Bhack" (Turk). "There's diverse the Monalight" (Wallis). "She's Got a Great Big Army of Friends" (Nel-son).
- "She's Got a Great Big Army of Priends" (Nel-son), "Querida" (Simon), "Palling in Love With You" (Mayne). "I Love to Dunk a Hunk of Spongecake" (Ose-till).
- till). "I Just Jog Along" (Rose). "The Voice of the Southland" (Austin). 11.30: God Save the King.

3AR

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- 10.17: The Station Orchestra: "Sume of Four (Frimi). 10.24: "Age" news service, exclusive to 3AR An-douncements. "God Save the King."

4QG

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"Querida" (Simon). "Falling in Love With You" (Mayne). "I Love to Dunk a Hunk of Spongecake" (Cas-till).

till). "I Just Jog Along" (Rose). "The Voice of the Southland" (Austin) 11.0: God Save the King.

6WF

CWYF 1.30: Tune In. 12.36: Markets, news, etc.; rading miticipations. 1.0: Time signal. 1.1: Weather nees, supplied by the Meteorological Bureau of the Markets, Perth. 2.0: Close down. 3.30; June In. 3.35: Middle from the Carlion Cale. 4 Status from 6.48: Beddime stores by Uncle Duff, 1.4: Those and solos by the Sistion String Trio. 1.4: Nord All Status for the Cale of the Status for the Markets and solos by the Sistion String Trio. 1.4: Nord All Status for the Cale of the Status for the Markets and solos by the Sistion String Trio. 1.4: Nord All Status for the Signal. 8.1: First world Polltics." 8.0 Time signal. 8.1: First world Polltics." 8.0 Time signal. 8.1: First the Station Orchestra, conducted by Mr. W. Wilhis: Miss Audrey Dean, Disnist. 8.5: Lake sport Co. Luci. station announcements: ships Wilb: Pogramme continued from the studies Conserver. 1.4: West Mr. H. Haston. 2000 down.

104.5-METRE TRANSMISSION

Simultaneous broadcast on 104.5 metres of pro-ramme given on 1250 metres, commencing at 6.45

7ZL

MIDDAY SESSION 11.30 to 1.30: See Friday. AFTERNOON SESSION 3.0 Oblimes. 3.1: Musical selections. 3.4: Weather. 1.5: Musical selections. 4.15: A representative of the Child Welfare Association will speak on "Early Feed-ing!" 4.30: Close down. EARLY EVENING SESSION 2.1: When a selections. 5.90. "The Stores Lady"

EARLY EVENING SESSION 6.15: Mudical selections. 6.30: "The Storey Lady" will tell a story to the wee folk. 6.45: Betty Braith-naite, will play the planp for the wee folk.-"Jack The" (Dunhill). "One Alone" (Romberg). 7.0: An-sers to letters and birthday greetings by Uncle David and "The Storey Lady," 7.5: Musical selec-tions. 7.15: News session. EVENING SESSION

BIONE 7.15: News Session: EVENUE SEESION 7.00: L. Norman will speak, under the auspices of the "Come to Tasmania." 7.45 H. H. Cummins, president of the Rotary Club, will speak on "Em-present the "Come of the session" of the session of the resonance of the session of the session of the resonance of the session of the session of the present of the session of the session of the present of the session of the session of the session bartlenet of the Session of the presider (Garal, Greaten Singers, "Good Night, Be-present Session, Comparison of the session", Masquerade" (Krauss), Sono of the session o Rocked in the Draw of the Deep." Alla Polacca orchestra. Schottlache-"Tioney Bees" (Richmond). John M'Oormack, (Enor--''Good-bye, Sweethea:M Good-bye'' (Raiton). Alla Polacca Orchestra, Quad-rills-selected. John M'Cormack, tenor--'Within a Garden of My Heart' (Scott). Alla Polacca Or-chestra, waltz--'Honeymoon Waltz.'' Alma Oluc-orchestra, waltz--'Honeymoon Waltz.'' Alma Oluc-tor, and the Chines' (Worell). / if Polacca Orchestra, Two Step.--'Denham' (Conwsvi Kirby Lunn, contraito-''Boat Song'' (Standford). Alla Polacca Orchestra. -Fiehland Schritische-se-keted. E. Willems, thoro-''Modt Song'' (Standford). Alla Polacca Orchestra. Waltz-''Merry Widow'' (Leharl. John M'Cormack, tenor--''Thek. Oh Take Those Libs Awa''' (Bennett). Alla Polacca Orchestra. Polka-''Johle'' (Rolfe). Elste Baker, con-traito-''Old Polks At Home'' 'Fosjer). Alla Polacca Orchestra. ''Warsovlasa', '' 10: Chimes. 10.1: News sesion. 10.15: Close down.

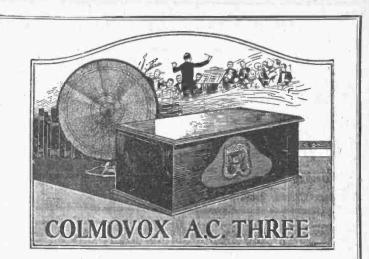
7ZL

Wednesday, May 8 AFTERNOON SESSION

APTERNOON SESSION 3.0: Chimes 3.4: Weather, 3.10: Description of City findicas, in mile 2 turiongs, Gelong, Vic. 3.45: De-provide a contract of the second second second the second second second second second material second second second second the second s

EVENING SESSION

7.30: Geo. Nation will speak on "Gardening." 7.45: Mise M. D. Wilson, Instructress of Dressmaking, will speak on "Dress Outling and Designing." 8.0; G.P.O. Clock Chimes the hour. 8.6: Recital of in-surmental and vocal items by leading international artists, specially arranged by Paton's Music Ware-house. 9.45: News session. 10.0; Chimes. 10.1: Close down.



"COLMOVOX" RECEIVERS

Practically the oldest Receiver manufacturers in New South Wales! "Colmovox" Receivers have stood the test of time and are still in demand from those who buy recommended goods. "Colmovox" Receivers are guaranteed for twelve months, and are built to suit Australian conditions, being selective to a high degree, giving good. faithful reproduction, and they are moderately priced.

Our new Model AC3 Batteryless Receiver is the latest addition to our large range of Receivers, and intending purchasers should see this wonderful Receiver before they buy elsewhere.

	Cash Price.			D	-	uit.	Weekly,		
	£	8.	d.	£	8.	d.	. 8.	d.	
"Colmovox" All-Electric Three	29	Ö	0	5	0	0	9	8	
"Colmovox" All-Electric Five	48	10	0	11	0	0	15	11	
"Colmovox" Three-valve Receiver	17	10	0	3	0	0	6	2	
"Colmovox" Four-valve Receiver	28	0	0	4	0	0	9	8	
"Colmovox" Five-valve Receiver	33	10	0	6	0	0	11	8	
"Colmoyox" One-valve Receiver	5	10	0	0	10	0	5	0	
"Colmovox" Crystal Receiver	3	10	0	0	7	0	3	6	

ALL SETS ARE COMPLETE WITH LOUD SPEAKER, BATTERIES, ETC., AND INSTALLED FREE OF CHARGE

Demonstrations given in your own home without any obligation.



Friday, Srd May, 185



A.D. (Gabarita).-On three-inch former wind 45 turns 24 gauge D.C.C. Space 3/1n. and wind prim-ary 20 turns. Wind reaction coil on 2-inch former, 40 turns 30 gauge wire. Circuit requested appears in these columns.

S.T.J.C. (Alpha) .-- Reverse connections to con-C.W.H.

(Randwick) .- Faulty carborundum crystal 01

G.S. (Burwood).-Open flament or grid circuit Set not neutralised.

M.F. (Wentworthville).-Cannot tell you whether is control is for volume unless you let me know here it is connected to.

GENERAL.—For the sake of those readers who have not seen my previous remarks I desire to advise that in accordance with many request, and in an effort to clear up all queries on hand (hearly 2000), only brief replex will be given here hope to clear up this big batch of queries within a few weeks, when ques-tions and snawers will be given heat.

tions and answers will be given again. E.C.D. (Sandgate).-Thanks OM; will use your letter in queries when I have more room to spare. J.T.R. (Vietoria).-Resistance does vary with vary-ing voltage readings in proportion to the voltage For instance, a two ohm rhee would make a differ-ence to a reading when the input is one volt. If the voltage is rulsed to 100 the resistance is practically nullified. Re eliminator, no Thanks for notes Will review

C.D.P. mer Hill) .- Wind 70 turns, and tap .P. (Summe tenth turn. every

(a) tella tura: L.S.L. (Lithgow).—Sorry; no data at present. Con-cet aerial and earth to primary of detector stage fay be necessary to reverse re-action leads for best esults. Re earth, quite usual.

PESUIS. Ne curvin, quite usual. A.B. (No Address)—Have only shall of your letter Re aerial. Use 9-inch rings. Should be 70 feet over-all. No; lead-in should be cage type, also on smaller wooden rings. Re rheostats. Old type. Re neutra-lisation, you will experience dimensity in tunning inter-State stations if you are able to receive them and the station of the state station of the state stations. at all

Interstate stations if you are able to receive them will, S. (Sydner).--Re variable resistance, O.K. At Ideal Portable, try various fixed condensers in series, and in parallel with the variable condenser, and in series with the nerial. B. and C. (Brisbane).--Don'tl Your best plan, would be to use ear phones and a "O" hattery. Only a few parts of a radio circuit earry high enough current to be measured on the milliameter you mention. Meter is too small for other purpose menitomed. Place br phones it in between the "A" battery and "B" bater bines it in between the "A" battery and "B" bater bines to it in between the "A" battery and "B" bater bines the formed first. Use distilled water. "rest polarity with a piece of Lis-mits paper.

mits paper. S.S. (Ashfield).--Wish you'd abbreviate your letters Stick to Marco. Short in set would cause trouble ry valve. Trouble may usto be in battery cable. C.R.B. (Newcastle).--Colls of old type, and made to anit brobuby s. 001 variable condensor. Remove one-

C.R.B. (Newessies).---Colls of oid type, had made to guilt probably a doi, water of the second of the second give diagram. Use econdary of about 47 turns. Ty-reversing reaction connections. Hand capacity may be caused through reversed condenser connec-tions.

F.L. (Tooweng).—Thanks for infromation. Will use in these columns when I have a little more space. W.G.W. (Gampsie).—Three stage resistance coupled Circuit published in these columns recently. A.B.C. (Beaudeserl).—Build Countryman's One Valver; published recently. A.C.T. (Bisander recently. A.C.T. (Mikeoy).—Burn-out primary in transformer Place a 10,000 ohm scross primary.

Place a 10,000 ohm across primary in transitioning
 R.L.M. (Nerang).—Quite O.K., but difficult to control. Re Schrell. Not to be compared with other chrcuits. Yes; I agree. Far too much for one letter. So the second second

A.F. (Mosman) .- Try choke in plate lead of valve A.F. C. (TOSMAR). --Either set. Both the same s regards circuit. Philips, Marconi, Osram, or any well-known type valve. Speaker not important. Pick one to suit your ear. Philips' valves not so heavy or current; Bix Sixty particularly so.

Current; Bix Sixty particularly so. A.McA. (Murwillumbah).--Wrong value grid leak or grid olas. Try reversing re-action. Valve may also be faulty. Try reversing grid return: "MUGO" (Cessmock).--By using heavier gauge wire you have done the same thing as putting on leas turns, which means that too much current is flowing through the coil Re-wind, using same rauge wire sremoved that

that removed. N.B. (34. George.).—Thé vuives mentioned. O.K. "INTERESTED" (Lower Mitcham).—Bulld Go-Get-ter, leaving out last audio stage. A.O.B. (North Strathfield).—Thanss for getting straight ter business." Necessary to ould or buy wave trap. Suggest circuit that has appeared several times in these columns as being a good one. Other et mentioned miles behind Marco in DX and volume

qualities. "MUG" (Cessnock) .- Makes no difference You

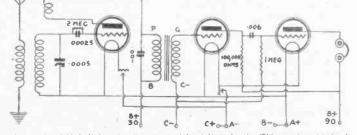
"MUG" (Cessnook).-wake no untertue mery answerd above. S. McC. (Leichhard6).-Evidenily you connecteo outteries wrongly, placing too high voltage on de-tector valve. You did not mention what type valves toou were using. Philips and some other type valves have no visible filament glow. Use 20-30 volts on

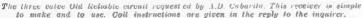
H.C. (Oatley) .-

detector. **H**:Gereessary, but worth the inclusion. **A.B.A.** (Brisbanc)-No: transformers ico large ratio. Use 5-1 in first stage, and 3%-1 in second giage. If three-luch formers used, increase number of turns by one-third. Detector PM4D PM2'4 power valve ifor last stage! **1.8. (Sydney).**-Excellent. Yes. quite O.K. Only large or re rocoistat. It should be at X on your draw-ing. Components O.K. Pleasure to answer such letters.

lug. letters

R.M.F. (Bourke) .--- Valves suggested, O.K.





L.W.G. (Lakemba).—An imposing list of states to the Countryman's One! It is generally undersates these days that a vertiler dial is messar, how will note a big improvement. Of course, it is no sarry to turn theostat at least half-ray on they because when is is nearly off almost the thole of resistance is in circuit, and this stops the ener current from reaching the valve. It is only aso sarry to turn the rheostat right of . The "b teries will the carse of themselves. No like the teries will the carse of themselves. No like the information of the stops of the stops of the information of the stops of the stops of the final remark: "I have been reading without WEEKLY for twelve months, and hope to read as under the will "s near.

another twelve" is neat. "GWALTA" '(Balmah).--Midget condenser must with nerial may help. Can aerisl and each pre-be improved? Just as important as the set of stuff. 25 turns 24-gauge D.G.C. O.K. Ya e use a 190 (3/2 volts). Cut down voltage sliphly rheostat No alterations necessary. Siz with we better. atter

Detter. E.F.F. (Hacrilton).--Not obtainable in Australs of present. Small shipment on way from America in be in time for Radio Exhibition; so keep year open there, and order your requirements. May a waiting argerly for photo-electric cells.

Witting engerity for photo-encodering cents. W.R.M. (Gies Inness-Doord'you erer set time s writting to us? Answered about a doren of me queries this year. No means of telling resultang theostat by judging how close turns are wound in aldu's even state number of turns, guuge wite so etc. Probably, 20-30 ohms O.K. for single come of four or six volt vulve.

of four or six volt valve. L.S. (Bronche).--Three pages too much. Prays are remarks at end of letter. We take it for pro-unless you advise us to contrary. Greatr par-my time taken in rending through letters to far what is required. Build Marinock Pire Palling it valves, E type. All-Empire S.W. set. Three me-hardly feasible in Bronte. Need stage of R is Allson is back again, and going as hard a set whilst Mr. Knock still continues to experiment Screen Grid Valves, with success. W B (Same Sample) --That's all, robt Barre

Screen Grid Valves, with success. W.B. (Sans Sone).-That's all right. Bette circuit diagram than one which might not be rect. Wave trap necessary. Not enough "B" who on detector. Try a .001 fixed condenser stores pr mary of first audio stage. Old-type condenser is give double readings. Don't re-build set if subs-tory otherwise. Replace old parts with moder mos S.T.C. (Alpha).--Neutrodyne in last use All you say is: "Set does not work, satisfaced Whilst briefness is a virtue, some details are pen-ated by a stage of the set of down for us.

"ELSTREE" (Redhill) .- Push-pull transforme 16

"BLSTIEL" (Recannik, --ruan-puin transforme fa for your purpose wurkes used as yush-puil my valves in parallel necessary in audio stage. Cam be responsible for circuits published in "Litzene" jub but they are usually O.K. to the best of my test ledge. If you forward a replica of their circuit as a few more details may be able to help yoe.

a few more details may be note to help you.
H.C. (Rechtsmappion).-No need to send copy when relieving subscription. Alterations head a have been mude to colls, which are now point unmatched. Try placing one more fixed places it condenser. Increase coupling in R.P. slaps. So-condenser. Increase coupling in R.P. slaps. So-plante till afterwards. Stuck away in come.
H.T.W. (Chalewood).-Wolley. Sense. Got Access.

Hards (Chaiswood).—Pollow Screen Ord Mure Hards (Chaiswood).—Pollow Screen Ord Mure Pive R.F. Stages. Valves O.K. Suggeston in sete We specify capacities as found best by test, and per suggested circuit. Suggest .006 by-pass not necessary to by-pass choke to S.G. supply R.G. (Stockinbingal).—Condensers O.K.

B.T. (Afmidale).-No; you received the static e-rect, but you got the call wrong. It was EGO, we are coming through well lately.

APCO (Albert Park).—Yes; phone station on Grid leak troubbs. See also if "C" battery is 01 W6XN relays KGO on 23.38 metres every Walshest from 3 p.m. to 5 n.m.. Sydney time PHI to a from 3 p.m. various times.

D. (Youngy.-No. The All-wave Four. A.R. (Brisbane).-A good 'uerial and earth two This is probably your trouble. Valve O.K J.D.

E.T.J. (Mess Vale).---An amplifier of some sort is advisable. Wrong coil combination probably cause of failure. Use Go-Getter home-made colls.

failure. Use Go-Getter home-made volls. **H.s.** (Dabbo).--Circuit of a short-wave adaptor using S.G. valve appeared recently in an article by peroy Graffam. A442 of the four-volt type. Reason thy you can hear broadcast stations on S.W. is be-ause you are listening to harmonics. The first har-monic would be (for JFC) 231 metres, the second on if metres, and so on The sixth harmonic is the mudamential divided by even.

Minimetter, and you the south instantion is the minimetter, and you the south instantion is the minimeter of the south instantion is the south instantion. The south is the south south is the south is the south is the south is the south is

stage. E.S. (Darlinghurst) .-- An article covering this (as oned several times in these queries) will shortly

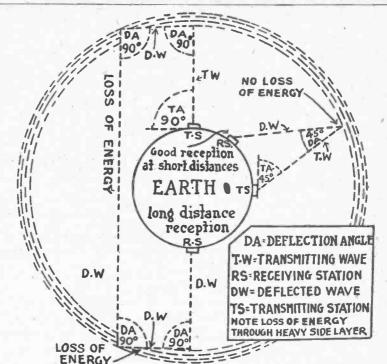
T.B.P. (Plumpion).-Wiring proseny wrong the actives.
T.S. (Darlinghurst).--An article covering this (as geneticed several limes in these queries) will shortly indicate several limes in these queries) will shortly the several limes in the sequences of the several limes of the several l

itters. C.R.W.L. (Frankston).—Same way as All Empire T.J.B. (Mile End).—Receiver will suit your re-

D.H.

C.F.W.L. (Frankston).--Same way as All Empire-tr.J.B. (Nill E and).--Receiver will suit your re-mements.
D.H. (Goorparco).-Take a few turns off prim-ry in R.F. stage.
C.B. (New castle).-Orry We have no coples. Some the control of the start of the start of the start of the start recease.
MultiAMS, 730 Great North Road, Ryde, In-starts if any reader has a spare copy of "WRELESS EEE. (Peth).-Sofry We have no coples. Has the Screen Grid Foury the All Empire receiver the Gorse's Terrace. Peth. M.E. (Casley Vale).-W. G. White, 4 Dawson Street, and the starts of the starts of the starts and the Gorse's Terrace. Other and the starts the Gorse's Terrace. Other and the start start of the start of the start of the start of the start the dual the your advantage waiting for you. M.B. (Aaburt).-Trankstormers O.C. Valves men-tion of the start of the start of the start of the start and address required. Complete list of ana-seu call signs consistently heard will be youlbaked horthy. We are waiting for definite information-test of main tuning condenser; also plag contect the start of the starts start will be youlbaked horthy. We are waiting for definite information-test of main tuning condenser; also plag contect the start of the starts start will be youlbaked horthy. We are waiting for definite information-test of main tuning condenser; also plag contect the "Proving Radio." MUG (Willow, hot):-Grid leak, grid condenser, or Hortector will on the place of the start of the s

Use "Proving Radio." Giad you MUG (Willoughby).-Grid leak, grid condenser, or elector valve not sented properly in socket. Try 0001 fixed condenser in aerial lead. A midget con-enser might be better. Failing this, wave trap will be required.



T.E. (Brisbane) asks for a diagram explaining further the deflection angle of a radio wave in relation to the Heavyside layer. This drawing, in connection with the any moer to T.E.'s query, will be of interest to all those following "Proving Radio."

A.J. (Sydney).—Direct Current Eliminator. Connect positive side of mains to one side of a 4 mfd. condenser (call it Cl), thence to one side of a 4 mfd. condenser (call it Cl), thence to one side of a for the one side of a condenser (call it Cl, i), and the other side of the other side of a condenser (call it cl), then to B plus power reminal. From other side of R1 to B plus mover the mining other side of R1 to B plus mover the similar condenser (call it Cl), then on to one side of a similar capacity condenser (call it Cl), then on to one side of a find. condenser (call it Cl), then on to one side of a find. condenser (call it Cl), there to the remaining side of Cl, and thence to the remaining side of Cl, and thence to the regative side of R1 to the there side of A to the remaining side of Cl, and thence to the regative side of the A to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. From the other side of Cl to the B plus any terminal. Condenser to the should be tested to 500 volts.

Should be ested to 300 volts.
 A.F.O. (Victoria).--Did not receive the communication referred to. Sorry no copies. See below.
 Mr. ALFRED M. COATES, 21 Beach Avenue, Elwood. S.J. Victoria, requires urgenity a copy of WIRELESS WEESELY containing the 3 W. Screen Grid W. G.R. (Relete).--No. circuit correct; but you can leave out the .006 condenser in the R.F. grid return.
 F.C. (Thornleigh).--Add stage of A.F. Circuits have appeared in these columns frequently during the Ehre and a half months.
 E.B.Y. (Warrego).--Amplifier O.K. UX112 valves. 150 volts on plates. Eliminator circuit O.K.
 "BECTIFIEE" (Ballarat North).--See "Proving Radio." Parts 3 and 4.

B.Y. (Warreys).-Ampuner O.A. Chara tennerso votice on plates. Elliphinator circuit O.E. "MERCITFIER" (Ballari North).-See "Proving Radio." Parts 3 and 4.
B.A.R. (Nundah).-Do not recoiled seeing circuit described. Pleased to receive a copy. 11 p. 10.
B.Y. (Ballari Parts 1 and 4.
B.A.R. (Nundah).-Do not recoiled seeing circuit described. Pleased to p.m. in Totom.
B.Y. (Ballari Parts 2 and 4.)
B. (Ballari Parts 2 and 4.)
B. (Ballari Parts 2 and 4.)
B. (Ballari Parts 2 and 2.)
B. (Ballari Parts 2.)
B. (Ballari

will depend on nature of interfering signal. Try the Purness wave grap, published in this paper recently. Rushing sound developing into a roar, probably grid leak trouble.

A.M. (Darlinghurst).-No. 2, best results. Ani-plion Speaker Unit. The measurements shown O.K. Use 14 gauge galvanised iron. Well worth making.

S.N. (Wallinkabine).-Re earth: The larger the better. Aerial should be at right angles to any power lines. Wave-trap O.K. J.E. (Glebe).-"Herewith an article on radio and any allied subjects. Is it fit for publication of for delegation to the W.P.B.?"

J.S. (Woollahra) -B406 valves O.K. Brachstats O.K. condenser O.K. Jack O.K, Wave-trap may necessary. he

J.R. (Bexley).—Does not require fresh electrolyts. lectrolyte is made up as a commercial product or Balkite Charger.

F.K. (no address) .- See All-Empire. Meggo (Melbourne) .- Depends on length of aerial.

P.J. (West Wollongong).—Pollow Marnock Five circuit. Grid trouble might cause spluttering. Re screen: O.K. W.W.S. (Drummøjae).—Soon. R.H.F. (Queensland).—Primary O.K. 200-500 metres. Probably an amateur you heard. Don't think ten metres will ever be of practical use con-mercially for long-distance work.

OUERY COUPON

If you are in difficulties about re Ster W. Cher Joint an and the south of the s If you are in dimensions about ception or set-construction, let knew, and we will endeavor i set you right. Make your ques-tions brief to the point, and where possible, show lay-out and wiring design. Under no circumstances will however the queries he net by the provided the provide are re

Page Sixty-Two

WIRELESS WEEKLY

Friday, 3rd May, 183

When you have visited the Exhibition and picked out the set you like best call around to our showroom and let us demonstrate OUR models to

you.

We are too busy attending to our numerous clients to exhibit this year, but we invite your comparison of our sets, on a quality for price basis, with any other sets on

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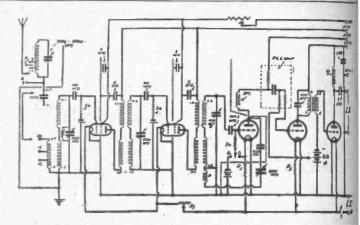
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The Resco Radio Supply Co.

28a Pitt St., Sydney (Near Quay).

'Phone, B1817



W.B. (Rozelle). has been kept some considerable time for this circuit of the 1928 8th dyne. Others interested in modernised versions of standard receivers will also be the way to adapt their Neutrodyne to Soreen Grid. The oircuit is practically the use throughout.

F.W.H. (Queensland).—PH1 comes in below 2ME. KGO ditto, on 23.5 metres. A complete list will be published shortly. P.L. (Strathfield).—Build Go-Getter. Giad you like "Proving Radio." Letter passed on to "Back

like "Proving Radio." Letter passed on to "Back Number" Department. W.F.S. (Mitcham).—An underground aerial is one which is buried beneath, but is insulated from, the earth. It is claimed that this type aerial eliminates alight loss in signal strength. Add S.G. stages as per S.G. Midger Four. Yes, because they are made for 240-volt aircuits, but they will work on about 180 volts in the same way as the ordinary lamp globe will function off this voltage. A.E.G. (Urawis).—Greenwich central time. C.F.B. (Uraila).—Bad wiring, Watch plate and grid leads. Write to Economic Radio Stores. Con-necting speaker wrong way round will damage mag-nets.

nets.

nets. A.G.B. (Anckiand).—We do not reply by post. WIRELESS WEEKLY costs 3d, not 2d; and postage costs 1d. Have no back numbers of the issue you require. Shull I make a note in these columns in connection with your requirements? Repeat your query: but cut down your letter. G.E.H. (Newtown).—Your query answered before. My reply was "Yes."

G.E.R. (Newtown).-Your query answered before. Wy reply was "Yes." W.G.W. (Campsie).-Three stages R.O. amplifica-tion. We have discontinued the practice of forward-ing non-subscribers' copies on account, because many inquirters fail to justify our trust. Geferal.-It is regretted that an error appeared in the circuit and back of panel diagrams of the Marnock Five, which will explain why reaction is difficult to obtain. The R.F. choke was placed in series with the lead to the plate of the detector valve, whereas this choke should have been placed in series with the plate lead to the first audio trans-former. A correction diagram will be published A correction diagram will be published

W.G. (Roseville) .- This was a printer's error. The correct circuit and article appeared in the following

issue. W.H.F. (N. Coast).-Should bring in 7ZL. Try adding ten more turns to R.F. and detector second-ary colis. Tuning dials should read approximately the same. Adjust colls. Re S.W.: No. Build S.W. adaptor which appeared in these columns a few weeks ago.

A.E.S.C. Pennant Hills) .- No; the Marnock Five ould be better, but note remarks made at the head of these queries. C.V.L. (Lakemba).-Would not be efficient.

E.V.I. (Internal).--would not be entited in H.A.R. (Ryde).--Reverse connections to tuning condenser, or use back of manel shield. VESAL can be found as following address: A. D. Kew, 1214 Sturf Str-et. Rallarat. Re resistance countings. O.K. Primarv 100.000 ohms. Sccondary 1 meg leak. A .006 fixed condenser should be connected between the two menterproces.

1000 here condense: should be connected between the two restlatances. C.E. (Grafton)--Write Philips Yor folder. O.K. on two stawn gaunifier. Electic records not neces-sary. Colville Moore. Economic Aadlo, Levenson's. Harringtons, or any such firms.

Milling Coll. of Mary Such and Such

Complete instructions given here for building one provides the second second second second second second second transformer second sec

E. McC. (Leichhardi)....Kug O.K. Regret re me no copies left. Can any reader oblige M. I M'Clymont. "Birkdale." 101 Renwick Street, Ler-hardt?

E.J. (Adavale).-Alterations C.K. Suggest may of audio. Circuits have appeared frequenty these columns.

Distortion (Adavale),--Too high voltage on a tector valve, reversed connections to speake a faulty speaker, faulty transformer, insufficient e is much grid bias.

W. Gillerst, "Dunkels," Kissing Point Read. Jun murra, asks if any reader can supply him w W.W. dated July 13.

W.T. (Pomona).-Phillips have lamps suitate st this purpose. Signs of flat "B" battery, may reception, sometimes accompanied by whitte a of volume.

W.D.S. (Croydon) .- It would be better to matthe Renown Three.

H.S. (Dubbo).--8025 is the 6 volt 5.0. and A442 is 4 volt type. You hear local stations harmonics. See circuit by Percy Grafian, po harmonics. Se lished recently.

B. de M. (Brisbane) .-- Moving plates to early and circuit. Your detecton valve is evidently an-ting. Reduce plate voltage. of circu lating.

I.C. (Brisbane) .- N.G. for "A" charger. Charge rate too low. In radio, harmonics refer to a indicatal waves mostly noticeable in many wave operation. These harmonies differ in quency and length to the fundamental wavelengt and frequency.

and irrequency. S.L. (Absor).-Use B406 in place of the de-detector valve mentioned. Neutralise as four insulate come of the filment promps of an 37 valve with a piece of paper, and replace in ross filment of the prometer of the second second read training condenaer until station fade set nearly soc. (Use a station in contre of brows band, such as SLO or 2BL). Remore paper bay valve pin, and replace valve, when station be heard at full volume. Repeat with other B W F C.

(8. K.C.L. (S. Brisbane).-Cause is saturation, wave-trap published in these columns recently, K.C.L.

W.Z.Z. (Lewisham) - VMG works on 33 metre. H.O. (Lewisham) - 150 turns 30 gauge D&C ire on ½-inch former.

G.W.E. (Goulburn).-Charger O.K. for Philco. Place 30 watt lamps in series with a to reduce charging rate.

W.R.S. (Queensland) .- Since you posted your is or Go-getter has been republished. ter

Let Go-getter has been republished.
E.W. (Yorkelown), "Jack O.K. Bleadst em Rheastats could be mounted on baseboard bet is sometimes necessary to make any source of cushon sockets. Advance condenses O.K. Ga leak used in original set was a Mullard. Be for ing Radio": Glad you Uke It. Machine server mention N.G., because the core must be for William Adams. Scruttons Lid., Woolworth, be and Rirby.

J.H.L. (Edgecliff) .- Not enough details. What circuit are you using? R.F. stage probably area

"Pommy" (North Sydney). Twe seen some room drawings in my time-but . . . A battery proceed make an "A" charger. Glad you like "Prove Rudio."

W.C. (Queensland), Valve (detector) may have lost its emission. A .0001 fixed condenser in sense with the aerial may help. Meagre details.

M.H.S. (Sydney).-Sorry, no room at press Pollow out S.G. of any S.G. broadcast recting published in this paper recently.

W.T. (Petersham) .- See A.W.A. Handbeet 18

Page Sixty-Three

7.H.J. (Kearnsby) .- Trouble is in detector grid

T.K. (Ashfield) .--- 6 ohm rheostats for separate outol; 30 ohm rheostats when one rheom used for control; 3

Justres. JH. (Bundarra).—Same course. Smith and Ulm ere endeworing to beat Hinkler's record. D.W.W. (Lindfield).—100 m!a.

C.H.L. (Randwick) .- Build All-Wave Four. leaving ut last audio stage.

T.E. (Queensland).--Do not know what station by was, though I hear him often. Wave is about 17 metres

a metres. "Mag" (Qneensiand).--Set not neutralised. Sec remarks on neutralising to a queryist above. Mar-exc Five, but note remarks at head of these genes. All-Empire or Air King for short-waves. Wite to Annylion for leafet. R.F.M. (Queensiand).--Yes, Murnock, but note marks at head of these queries. Aluminium O.K. bit ht obtainable from Radiokes, price 33/6.

D.M. (Randwick).—Many such circuits published these columns recently.

"Neut" (Mudgee) .- Your drawing not a work of Bee Neutrodyne in this issue; 6-voit slightly

better

ester. (c.C.Q. (Hurlstone Park).—201A's should be O.K. pate has come away from plates of accumulator, nc is shorting the charge. Set not properly neu-miner querylst above. Also see this week's tech-clear sticle. 21D's address is: L. D. Dodds. 5 Woodland Sireet, Marrickville.

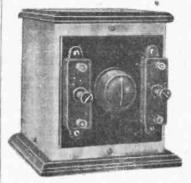
B.J. (Victoria).-Rectifier O.K. Like to have that be. Will consider suggestion. Space at present uable.

Augusta. J.C. (Randwick).—Try connecting earth to other the of flament, and also reversing grid return d. Make One adjustment at a time. One side mains is earthed. Phillips supply a tapping for earth counterpoise for set.

afe of Ramérik, and also reversing grid return of Make Dar Adjustion is a vibre. Once side i mains is earthed. Thips supply a tupping for tark (Gladeswile) Thips supply a tupping for tark (Gladeswile). The superstandard superstandard supply a tupping for the superstandard super

The agents are the Australian General Elec-B 26. (Chatswood).—The most important parts we left out. What circuit are you using? The vuble may be due to a looke lead in the set, to faithy valve, grid lesk, or grid condenser. Try 100,000 ohm dixed resider across primary of first

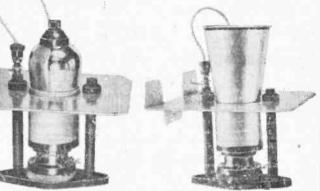
FURNESS



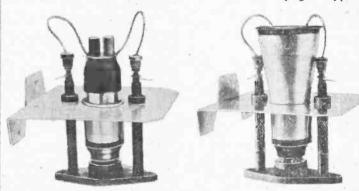
The trap is first tuned in to any two stations you want cut out say, 2BL for the lower band, and 2FC for the upper band, and left permanently on this station, and in using set you simply turn a switch to tune out one or the other. Once tuned, you only have to turn switch for results. The whole of the parts to make same £1/10. The above parts, drilled and aluminium box, all drilled ready for use £1/17/6 The Set Complete, £2/5/-

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2 Viking Audio Transformers	20	0	3	Specially Matched Philips Valves	40	6	
Single Circuit Jack	1	6	1	4-Volt 45-Amp Actual Ediswan	. 37	0	
Lewcos Special All-Wave Choke	12	,6	2	Ever-ready B Batteries	. 25	0	
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Aerovox Special Grid Leak	1	9		2	4 17	10	

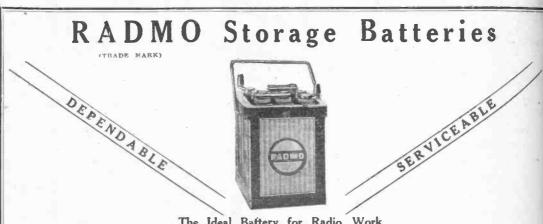
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