

# THE RADIO RECORD

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WELLINGTON, FRIDAY, JULY 5, 1929.

## Wireless—the Invisible Bond



URING the long time that this expedition has been far from civilisation, they have been carrying out investigations valuable to science. They have set about exploring some of the vast expanse of apparent waste, hitherto unknown, seeking information that can be revealed only by privation in eternal snows. But this is not all. They seek to do a service to radio which is now doing such service to them.

During all this long period they have not been out of touch with their homeland, and as a consequence the world is able to publish in its daily papers the events of the day in Little America Antarctica. An adventure seal hunting, a man injured, a party a few hours overdue, the meditations of the leader all appear in our dailies a few hours after they have happened in a land thousands of miles from the nearest post. They have become so commonplace that they are read without any thought as to how the messages were received—perhaps they are not read. Every day from the Bay of Whales vibrations in the ether carry the tidings half way round the world to the listening posts in America from where they are sent out to the world.

But this is not the only service of radio to the expedition. The short wave station of KDKA, W8XX, broadcasts regular programmes for the entertainment of the party. Every week messages are sent through this or allied stations from those at home and these followed with special programmes. Modern science has made possible the selection, and their almost perfect broadcast, of the best programmes from America. To recount the number of successful relays and rebroadcasts from American short wave stations would be unnecessary. Readers will recall the reports of many of these feats as most of them have been intercepted in this country.

Perhaps the most outstanding of these accomplishments was the rebroadcast by 2ME, Sydney, of KDKA who was re-

*ALMOST twelve months have elapsed since the small barque City of New York, the first unit of Byrd's Expedition left from New York City, bound for the wilderness of ice and snow. A singularity existed about this departure—time not space was to separate them from their homeland—they carried radio.*

broadcasting the reply of the Antarctic party to the weekly messages. In this manner 22,000 miles were covered by the messages, before they were finally rebroadcast by 2ME. For a while New Zealand listeners were able to listen to the two-way communication, including musical numbers, between Byrd and his homeland.

Relays from musical entertainments in New York are common, and because of this there is the chance that the wonder of the feats will be overlooked. It may be forgotten that this is only the commencement of the wireless age, that in the near future we shall be talking to relatives, friends and business associates on the other side of the world without effort or difficulty. That in this age we shall see them and talk to them though separated by half the world. But this is by the way.

To come a little nearer home, one can cite the times when crystal owners have heard America talking to their explorers in the frozen wastes. Probably some have closed down in disgust because of a fade or a burst of static, and condemned wireless—but they forget that on a piece of apparatus costing a few pence they are intercepting conversation between two stations thousands of miles away, listening to the same music and messages that the intrepid party, snug-

gling round their oil fire, and surrounded by perpetual snows are enjoying, and listening to a message which is cheering some heart far removed from civilisation.

As one sits by their drawing room fire listening to a mother sending a message to a son in that waste do they think of the tie wireless is, of what it means to that mother and that son? Doubt, and uncertainty, the two most painful mental situations have been reduced to a minimum and the mother and son, wife and husband, the child and the father can each set his or her mind at rest knowing the other is safe. The day of return can be looked forward to without the horror that perhaps some untoward news will greet them.

But this is the vital service of radio—it has another significance. Just after 10 o'clock, when the flickering oil lamp is about to be doused and the weary pioneers retreat within their sleeping bags there comes the bright announcement: "Good evening, everybody! this is station 2YA, Wellington." Yes! it is Mr. Announcer upon whom there are many just waiting for a slip or something they do not like to wax their bitter irony and sarcasm. Put it in Antarctica—there, in the last moments of the day, Mr. Announcer and his pleasant tidings is welcomed with no uncertain note. "The voices and the music seem somehow to break down our sense of isolation for a few minutes while we snuggle down in our sleeping bags and think we have no connection with Antarctica," reads a recent message from the expedition to the "New York Times."

"We can almost see the inside of the broadcasting studio in Wellington. We can imagine what the men and women look like. It is part of the world we have left, and it adds somewhat to the piquancy of our enjoyment that they cannot completely visualise our environment, that they cannot realise the pleasure they give a group of men so cut off from the civilised community."

—Continued on page 2.

## Cable Combine

## Important Effects

GENERAL HARBORD, at Minneapolis, delivered an address in which he referred to the merger of cables and radio in Britain. "This new combined British communications interest will," he said, "affect American relationships in every part of the world. There will hardly be a port or principal city in the planet not reached by British communications. American trade in every quarter of the globe cannot but be profoundly affected. National defence must reckon with the planetary combination of communications by the British."

General Harbord deplored the White Act of 1927 forbidding the purchases of radio systems by cable companies and vice versa in the United States.

## In Southern Seas

(Continued from front page.)

## The Invisible Bond.

A RASPING roar comes from the loudspeaker, and then as it is tuned down the gay notes of the orchestra playing dance music comes floating into the room. Back there are cabarets filled with men and women whirling merrily about; many homes where those listening to the same music sit before cheerful wood fires.

"They are clad in garments which we have almost forgotten, laughing as they talk, probably entirely unconscious that far south of them is this little group getting far more enjoyment from the music which they hear. It is our invisible bond with the world of comfort and security—invisible, but none the less real, because it has its roots in our memory and in our anticipations.

"And how different is our home from theirs! On a top bunk, where the air is warmest, is a man in his underclothes, leaning back against an ingenious sloping board, which he can raise when he turns in for the night. He is writing a diary by the light of a candle, stopping now and then to listen and smile a broad smile of satisfaction at some new and lulling measure which reaches us from so far over the sea. He has a picturesque beard, and his own wife would hardly recognise in him the trim figure in uniform who, seven months ago, walked the streets of Dunedin."

## Public Trust Office

## Last Month's Business

The following particulars of the loan transactions of the Public Trust Office and new business reported during the month ended May 31 have been supplied by the Prime Minister (the Right Hon. Sir Joseph Ward):—

"The amount paid out in settlement of new loans was £168,812. Further new loans were granted to the amount of £53,510, and the total of new loans now awaiting completion is £435,734, while offers of loans less than the full amounts applied for amount to £100,232, a total of £535,966. Renewals of 52 loans amounting to £257,714 were also authorised. Applications for additional new loans amounting to £254,919 are now under consideration. Estates of a value of £685,932 were reported and accepted for administration during the month. The value of the estates reported in April and May of this year shows a 25 per cent. increase over the value for the same two months in the previous financial year, the figures being £1,556,149 and £1,243,263 respectively. Grants of administration made by the Court in favour of the Public Trustee numbered 175 for the month.

"During the month 634 new wills appointing the Public Trustee executor were deposited for safe custody with the Public Trustee by living testators, and the total number now held is 63,748, representing an estimated present value of £255,000,000."

## Features of Australian Broadcast Programmes

IN response to many requests the historic story of the "Mutiny of the Bounty," written and produced by C. C. Faulkner, will be repeated at 2FC on the evening of July 1. The following night Alfred Cunningham is collaborating with the Metropolitan Band in a programme of British marching songs, such well-known numbers as "Hearts of Oak," "Rule Britannia," "Boys of the Old Brigade," "The Girl I Left Behind Me," "The British Grenadiers," "The Vicar of Bray," will be given, with annotations by Captain Fred Aarons.

DOROTHY HELMRICH'S recital on the evening of July 3, to be broadcast through 2FC, will offer music lovers some of the best broadcasts of this kind ever undertaken. Miss Helmrich is a delightful artiste with a world-wide reputation. Her repertoire is extensive and unusual, and listeners may anticipate with pleasure the programme she is arranging for this evening.

THROUGH 2BL service on Wednesday night, July 3, the H. W. Varna Company will present the domestic comedy, "Tea for Three." This will be Mr. Varna's last production before taking a well-earned holiday.

ON Sunday evening, July 7, there will be no church service broadcast through 2BL. On this occasion the Sydney Harmonic Choir, conducted by William Bourne, will render a programme of Elgar music. There will also be well-known hymns with organ accompaniment and instrumental and vocal numbers by the Empire Trio in association with Miss Le Brun Brown.

AN hour in Bohemia! At 9.30 on July 9, will commence a novel programme, consisting ostensibly of what our artists do after the studio closes down for the night. Impersonations will be given by Mr. G. Vern Barnett, and other 2BL well-known personalities, and a hearty laugh is promised those listeners who are curious enough to want to know what the microphone does after the announcer's cheery "Good-night."

THE Royal Apollo Club will hold their concert at the Conservatorium on the evening of July 10, and the whole performance will be broadcast through 2FC service. The artists assisting are: Muriel Barlow, Ernest McKinley, and Carl Budden-Morris. The following night, July 11, 2BL listeners will have the opportunity of hearing Lucille Bruntnell's studio production of "My Lady's Dress."

2FC'S final night will be given on July 16. On this occasion there will be an all-star programme featuring trio numbers by Alfred Cunningham, Lillian Gibson, Charles Nicis, and other artists who have been associated with 2FC since its inception will also contribute. Through 2BL on the same evening the complete concert by the Strathfield Music Club will be broadcast, the artists assisting are Alexander Sverjensky, Jules van der Klei, Lloyd Davies, Enid Conley, Constance Burke.

## The King's Health

## Interest in America

WHEN the King was critically ill there was as much interest and anxiety in America as there was in this country about the condition of His Majesty. A glance at American papers will convince the average reader that the people in America followed the news bulletins with the gravest anxiety. The interest in listening to 5SW, the Chelmsford shortwave broadcasting station which broadcast news of the King's illness, swamped interest in every other form of broadcasting in America for the time being.

THE trouble was, it appears, that 5SW was considerably interfered with, and reception of the station's bulletins was almost ruined because of interference by another shortwave station, which was eventually located in Chile.

So great was the interest that there was an insistent demand that the United States Government should take steps to stop this interference. The United States Department of State was asked to make "representations" to the Government of Chile on the matter of this interference.

This, of course, from a diplomatic point of view, was a very grave step, for "representations" are seldom made by one Government to another unless matters of vital importance are concerned. In fact, representations sometimes lead to a breaking off of diplomatic relations, and that usually leads to war.

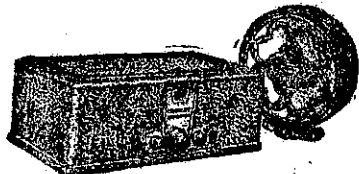
However, America seemed to regard this interference as so serious, in view of the widespread importance of receiving the bulletins broadcast by Chelmsford, that the Government officials concerned made no bones about it. They did not ask the Chilean Government to prevent the interference, they demanded that it should cease!

From the point of view of international law, it is doubtful whether America had the right to make such a demand, but nevertheless it is interesting to note that the Chilean Government took "immediate steps," and the interference stopped! And so American listeners were able to receive the news of the King's progress via the Chelmsford shortwave broadcasting station without interference.

## Picture Transmission

PICTURE transmissions from Paris by means of the Fultograph system having been arranged, Captain Fulton has now arrived in Madrid to discuss the adoption of the system at Spanish broadcasting stations.

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# Views and Suggestions of a Listener

## Various Controversial Points Discussed

THE writer of the letter below first forwarded his article to the Radio Broadcasting Coy., which duly replied to him. We are therefore able to present both sides for the views of readers.

### A Review.

GLANCING over last week's issue of the "Radio Record," I noticed an article dealing with the present criticism of the Radio Broadcast Co., and its work. The article referred to sets out various points, and in its way is a very fair commentary. There is, however, another side of the matter, and as listeners—either past or present, are invited to give their views, the following remarks are submitted:—

Taking my own case first: I have been a listener for over two years. I have not renewed my license for present year, and do not intend to while the conditions continue as at this writing. Now for reasons:—

First.—No variety to speak of—all programmes possess the "sameness" of the average boarding-house breakfast. Select any programme at random and compare it with another of 18 months back; what general difference or improvement is there? Some time back the R.B.C., through the "Record," took a vote to find the popular tastes in the different centres of New Zealand. This test certainly showed how fond the listening public is of "jazz," heavy operatic items, etc., and gave the verdict in no uncertain manner. What notice was taken of this "vote"? Apparently none.

Secondly.—Too much gramophone. This averages nearly half of total time. Now, most of us have machines of our own and can use them to suit our tastes; i.e.: what we like, and when we like it. To run a four-tube set costs in my case £3 per year, including license, batteries, valve replacements, and sundries, entirely too much to pay for the privilege of listening to somebody else's records.

Thirdly.—In changing children's hour and replacing it with more gramophone, you have lost many friends. This children's hour appeals to thousands of parents, who now reach home of an evening (from work) too late to listen to what, in my very humble opinion, was the brightest, happiest, and most "real" part of the entire day's programmes. To these folks the "Aunts" and "Uncles" were real, living friends, who they now rarely if ever hear—they are moved away to make room for another dozen gramophone records of very doubtful musical quality.

Fourthly.—Too much "jazz." Some listeners, of course, like this sort of thing, but many more detest it—each

pays the same license fee and is entitled to consideration in proportion to their numbers; still I would suggest keeping the different classes of music separate, so that the many who dislike what a friend of the writer calls "musical garbage" will know when to switch off the set.

Probably someone will suggest to switch in another station; but the majority know this cannot be done with the ordinary commercial set while 2YA is on the air—so they either have to accept what this station puts out, or shut down altogether. Question: Why should this station, with its huge power, be permitted to "poison the ether" for listeners who do not like its items. This phrase is not

misements in the "Record," specially featuring the fact: "Will cut out 2YA" as the strongest inducement to buy—and it is!

In another part of the "Radio Record" joy is expressed at the number of licenses already issued this year, and this is taken to mean approval of the R.B.C.'s policy. Good; but how many of these are normal new licenses? How many are due to the "Southern Cross" accident (and rescue), etc.? Then, consider how many of the older class of licenses are not being renewed, and the crowd who are dropping out of the "radio" circle for some of the reasons set out above. Personally the writer knows of a very great number who are disgusted and



THE CLARION QUARTETTE.

A talented group, whose items from 1YA, Auckland, are a feature of the programmes

original, but was used in conversation by a party to whom the writer was introducing a modern four-tube set. His remarks were: "As I see it, I am compelled to pay 30/- yearly for programmes that I do not want, and pay this to help 2YA poison the ether so that I cannot receive the other New Zealand and Australian stations that I do want, the latter of which get no part whatever of this fee?"

These are not exactly the writer's ideas, but they certainly represent the opinion of many hundreds in Wellington at least. Reduce the power of local station. It is not necessary—crystal users had better reception when 2YB was broadcasting from local station some time back on the lower power. If a cut were made it would allow all set owners to operate in comfort; at present many valve set owners feel they are being squeezed out for the sake of crystal users and are resentful—very. What this interference really means is shown by adver-

disappointed and refuse to re-license. Here, undoubtedly, is to be found the reason for the various societies lately coming into existence, most of which are frankly antagonistic to the R.B.C. and its work, or policy. The agitation for B class stations in the country is largely due to same cause. People are not satisfied, they think the company is "getting into a rut" and needs some competition to stir it up. New Zealand ought to have 65,000 listeners' licenses or more. We are making no progress. Why? In conclusion, the writer believes that the company is really trying to make a success, and actually endeavouring to please the public. Possibly some facts from the listener's side may help, and it is with this in view that these notes have been written.—"Eos."

### Company in Reply.

IN reply, the General Manager of the Radio Broadcasting Coy. wrote in detail:—

Programmes.—The sources from which talent for our programmes is drawn are limited, particularly as we are not in a position to send artists on tour among our stations or import special entertainers from overseas. Such an arrangement is one worthy of consideration when circumstances permit, but in the meantime we are of the opinion that as a result of co-operation between the Company and the available artists at each of the centres, including those from overseas who are visiting the Dominion, considerable improvement is noticeable in the programmes.

Since the inception of the Company it has been apparent to us that it is an impracticability to please everyone at all times. It is evident that each listener is entitled to consideration in that his license fee contributes to the service, but it is an unfortunate circumstance that as promoters of a public utility we are unable to individualise in arranging our programmes, but must formulate our plans generally in accordance with the

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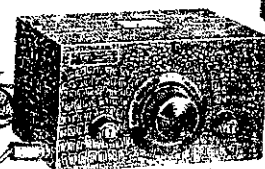
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requirements of the majority. To this end a thorough investigation is constantly conducted of every possible source of talent.

Then again it must be remembered that we are unable to choose our audience. Unlike the promoter of a concert for stage purposes, who arranges and provides his items in accordance with the requirements of a particular type of audience whom he knows will attend, we must of necessity bear in mind that each one of our programmes is broadcast to an audience which we cannot number and which is representative of possibly every shade of musical temperament. Thus we endeavour as far as we possibly can to co-ordinate the programmes of each station such that whilst each broadcasts a different definite type of programme on each night of the week, the programmes are so arranged that a listener with a suitable receiving set can choose one of four different types of programmes on each night on which our stations are operating simultaneously.

For listeners who are able to tune in only one station, the programmes vary from night to night, and in addition to this we arrange for relay or re-broadcast transmissions when circumstances permit for the purpose of adding variety and novelty. More recently we have been featuring long distance relays which, having been made practicable by the co-operation of the Post and Telegraph Department, have enabled us to broadcast entertainment and functions which would otherwise have been unavailable for this purpose. An investigation is constantly conducted of every possible source of broadcast entertainment.

**Gramophone Records.**—With the exception of dance programmes broadcast during the evening sessions, the period devoted to the broadcasting of records during the evening is less than 25 per. cent. of the total evening

broadcasting time. This provision is stipulated by regulation, but apart from this, we may assure you that we have no desire or intention to utilise gramophone records where we are able to provide similar items with reasonable artistry from the studio. In the case of dance programmes we have found that records adapt themselves admirably for this purpose, and further, offer a very wide selection of items. As far as we can gather from the mail which passes through this office, this practice is approved, although as we pointed out above, it is not our intention to utilise gramophone records unnecessarily, particularly where studio items of a similar type are available.

**Dinner Music.**—This has a wide appeal both to the farming community and the town folk. Circumstances will not permit of the farmer listening to either the afternoon or the evening concert session, and the dinner session provides an hour of musical entertainment in his particular interests. Unfortunately it was necessary to move the children's hour forward one hour, and although there has hardly been opportunity to investigate thoroughly the acceptability of the extension of schedule and re-arrangement, we have considerable evidence of their popularity. The children's session is, of course, broadcast in the particular interests of the children themselves, thus whilst we appreciate the interest which is manifested by many of the adults in this session, we had more especially to satisfy ourselves that any change would not adversely affect the entertainment derived by the younger listeners.

**Power of 2YA.**—There can be little doubt that listeners within the vicinity of 2YA have to take special precautions to cut the high powered station out to permit reception of outside stations and to avoid overloading

and consequent distortion. This condition of affairs cannot, however, be regarded entirely as a fault of the transmitting station, which serves a much wider area than that represented by Wellington city. Persons who have not receiving sets are not obliged to take out licenses, and in view of the fact that there are selective receivers on the market and we understand that demonstrations of any set can be made, it would seem desirable that an intending purchaser should listen to the set he proposes to buy prior to actually purchasing it. We are of the opinion that every license fee is amply repaid, even by the programmes from one station, but a prior demonstration will dismiss any misapprehension as to the capabilities of a particular receiver should reception of outside stations be desired.

Our service is cumulative to the extent that its development depends upon the patronage which is associated with it, and we may assure you that we are doing everything possible with the means at our disposal. A public utility service cannot be promoted and developed successfully to its fullest extent over-night, but to indicate that progress is being made we might mention that at the present time there are some 40,000 subscribers to our service, whereas at the corresponding time last year the licensed radio listeners in New Zealand numbered 33,000 odd. Further, the above figures would suggest that by far the majority of last year's listeners have renewed their licenses. Our experience has proved that the growth in licenses is a natural one and accelerated very slightly, if at all, by such individual features as the transmissions during the Tasman flight, the election broadcasts, overseas rebroadcasts, and long distance relays. Such broadcasts contribute to the efficiency of the service as a whole, but the latter is the basis upon which the Company's work must be judged.

## A Sporting Act

### Amateurs Stand Off

A VERY sporting act was performed by very many short-wave enthusiasts during the rebroadcast of 2MB, Sydney, Saturday last. Prior to crossing over to this station, announcement was made from 2YA asking that short-wave amateurs keep off the air to allow the technician responsible for the broadcast, Mr. E. R. Macarthy, of Macks Radio Co., to have a fair run. Although the temptation for the amateurs to listen-in on their own receivers was great, the air was practically free of any howling valves. This speaks great praise for amateurs, for resisting the desire to tune in to a station which is coming in well is no easy matter for the short-wave enthusiast.

The announcer no doubt had a very trying time standing in the rain broadcasting the very vivid description that came over so well. That he was thinking of better times was evidenced by his remarks to us in New Zealand, "I envy you people in New Zealand sitting over your cup of coffee and listening to the details of the match between your team and ours." Again we can almost picture the scene when we heard come over the air, "Look out, or you'll knock the microphone over," and to the Press photographers, "Shift on, you're blocking the view." These little incidents, which came over so clearly, show how very well the broadcast was handled both in Sydney and New Zealand.

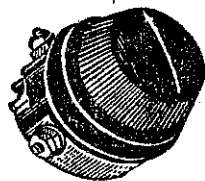
## New Radio Combine

SOME time ago arrangements were in progress with a view to separating from the Radio Corporation of America the business of communications, except between ship and shore stations. News now reaches us that these arrangements have taken effect and that a subsidiary company of the Radio Corporation of America has been formed under the title of the Radio Corporation of America, Communications, Incorporated.

### Notice to Constructors

IN the description of "A Cheap Eliminator for Small Sets" (Vol. II, No. 49) the third paragraph from the bottom of column 2, page 29, should read: "For the 110-volt mains connect together 1 and 3, also 2 and 4, and lead the supply to 1 and 4."

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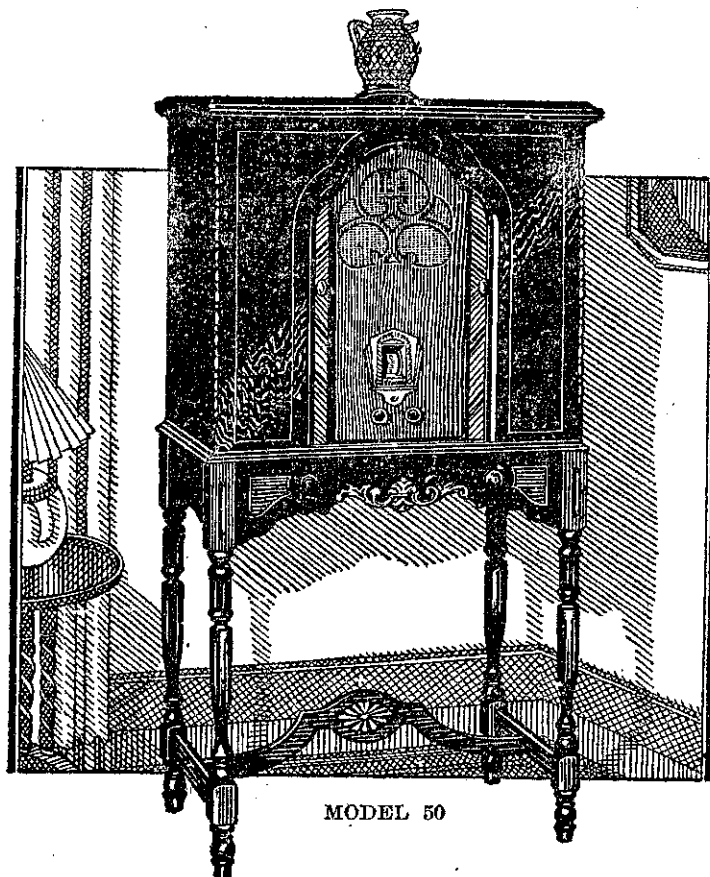
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The New—

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WELLINGTON, FRIDAY, JULY 5, 1929.

## AUSTRALIAN PROGRAMMES.

**L**ISTENERS will have been interested in the full details we published last week as to the plans of the successful tenderers to the Commonwealth Government's new broadcasting system. As is well known, the Australian Government has taken over the plant of the existing radio stations throughout the Commonwealth. Its purpose is to maintain these stations at a high standard of efficiency, and make itself responsible for the provision of further stations as occasion demands, the aim being to provide over three years a regular chain of broadcasting and relay stations throughout Australia sufficient to cover the needs of the population. The Government, however, purposes to divide responsibilities in connection with broadcasting. While it itself will be responsible for the capital expenditure and maintenance of the stations, it proposes to sub-let the provision of programmes. Tenders were called for this right, and the successful tender was that made jointly by Union Theatres, Limited, Fullers' Theatres, Limited, and J. Albert and Son. This group possesses strong orchestral and programme resources, and, according to the statement made last week by the managing director of Union Theatres, Limited, purposes entering on its duties in a broad spirit. It is indicated that an early move will probably be to borrow a leading programme director from the British Broadcasting Corporation, in order that his advice may be made available under Australian conditions. This is to supplement associations already formed in Los Angeles, Chicago, New York, and Paris.

**P**ERHAPS the most interesting announcement, however, from the New Zealand point of view, is the declaration that it is proposed by the programme directors to create advisory boards in every State, quite independent of the Government's Board. These advisory boards will be of the highest authority in music, education, sport, and feminine interest, and will be able to co-operate with the local stations in securing maximum results. An analogy between this proposal and that already operative in New Zealand in the form of the voluntary committee system, originated and applied by the New Zealand Radio Broadcasting Company, will be apparent to listeners. It is within our knowledge that the scope and success of the New Zealand advisory committee system has attracted considerable attention in Australia, and requests for detailed particulars of the organisation and application of the system have been frequent. The fact that the system is to

**C. R. RUSSELL M.Sc.,**  
M.I.R.E., A.M.I.E.E. (Lon.)  
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### An Australian Lady on Sydal.

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be extended and applied in Australia is the best possible indication of its fundamental soundness, and reflects credit upon this country as having originated the idea of practically co-ordinating the expert guidance of those interested in different pursuits, in order that listeners might benefit. The system, as listeners know, works very well in New Zealand, particularly in relation to church matters, musical matters, and the administration of the children's sessions. Australia, according to the preliminary announcement, purposes covering slightly wider scope in including education, sport, and feminine interests.

Many New Zealand listeners who are possessed of high-powered sets make regular contact with Australia, and therefore the prospective improvement in Australian programmes that is foreshadowed will be welcomed by listeners in this country.

## Broadcast of Children's Choir

### 3YA to Relay Unique Festival from Temuka

**A** TREAT for music-lovers, and especially for those to whom the singing of children makes a strong appeal, will come over the air from 3YA on Friday, July 12, when a Children's Choir Festival will be relayed from Temuka.

This festival will be on the lines of those promoted in England, and will be quite a new thing in New Zealand. The competitive element has been entirely eliminated.

Each school in the district has prepared a number of children in certain selected songs, and all these children are to be brought together on the appointed date, and will sing in two massed choirs, one of boys and the other of girls. It is anticipated that each choir will comprise upwards of 150 voices, and they will be accompanied by a string orchestra of nine instruments. Mr. Vernon Griffiths, the well-known Christchurch lecturer on music in schools, is going to Temuka to conduct the choirs and generally to supervise the festival. In addition each school will give a musical

number of its own during the course of the programme, and it is probable that the Orari Bridge School Choir, which recently gained a second prize at Christchurch Competitions, will sing the same music as they sang in Christchurch. The event will be unique in that for the first time the competitive element will have been eliminated.

The organisation of this festival is largely due to Mr. B. Hughes (choir-master) and members of St. Peter's Choir.

The following schools will be participating: Temuka, St. Joseph's, Geraldine, Pleasant Point, Orari, Milford, Orari Bridge, "Mrs. De Renzy's Winchester," and Arowhenua Native.

The selected songs which will be sung by the massed choirs will be:

Boys—"Who is Sylvia?" (Schubert), "The Captain and the Frenchman" (Dunhill).

Girls—"When Icicles Hang on the Wall" (Dyson), "You'll Get There" (Parry).

## "Bird in Hand"

### A Very Successful Broadcast

**T**HE recent radio presentation of "Bird in Hand" met with the greatest appreciation from listeners. Very many letters have been received by IYA eulogising this performance by Mr. Kenneth Brampton and the Little Theatre Society.

There have been a few letters of mild protest, also, from listeners whose susceptibilities have been a little ruffled by certain of the expressions used by the writer of the play.

One writer expressed himself in the following sentiments:—

"We enjoyed the presentation, but there was a fly in the ointment. Swear-words and objectionable expressions were rather frequent. The playwright evidently tried to depict his characters according to life, but no doubt the play would have been equally effective, and more pleasing to many, without the undesirable expressions. Adults and

young people of both sexes were listening-in over a wide area, and to me and many others it seems a pity to broadcast anything to hurt people's sensibilities. Cromwell is said to have told his portrait-painter to put in the warts, so that the painting might be accurate; in this case I think the playwright, while aiming to be true to life, could have left out the warts (i.e.: the objectionable expressions), and could have done so without any injury to his play. Of course this is an expression of opinion, with which no doubt many will disagree. Wishing you all success in your broadcasting."

## King's Thanksgiving

Sunday, July 7.

**I**N all the cities, the services in thanksgiving for the recovery of His Majesty the King from his long and serious illness will be held on Sunday, July 7, and will be broadcast.

## Who Laughs Best?

### Children of 4YA to Compete

**BIG BROTHER BILL**, of 4YA, is holding a Laughing Competition on Monday evening, July 8. A vote of listeners is to be taken as to which boy and girl has the heartiest laugh. The competition will be announced by number, not by name.

## Football Broadcasts

A NORTH Auckland listener comments as follows on the Wellington Radio Society's resolution in respect to football broadcasts:—

"No many listeners, if any, would be found hereabouts to agree with the ridiculous vote of the Wellington Radio Society (by 12 votes to 8!) to eliminate football relays from Saturday afternoon sessions. There would certainly be trouble if they were dropped from 1YA. The enthusiasm of the announcer, Mr. W. J. Meredith, is most infectious to all listeners and his thorough knowledge of the game and the players quite inimitable."

## Amateur Drama

### Series of Lectures from 1YA

A FORTNIGHTLY series of talks arranged by the W.E.A. will be broadcast from 1YA, beginning on Tuesday, July 6. On that date Mr. J. W. Shaw, M.A., will speak on "The Amateur Dramatic Movement." Mr. Shaw is well known in Auckland both for his literary work and for his tutorship of the W.E.A. class for the appreciation of the drama. This has been running for the past seven or eight years, and draws an average weekly attendance of about 300 students.

The increasing interest which is being taken in drama is shown by the formation of a large number of small groups which meet for the reading and discussion of plays. Many of these groups also reach the stage of production. In this way those who care for the better sort of play can enjoy readings and performances which the commercial stage is unable to supply in the present state of public taste. Mr. Shaw will describe the development of this interesting movement. The talk should be of particular interest to country listeners.

Other lecturers who have consented to speak from 1YA in this series are Dr. H. Belshaw, Professor of Economics at Auckland University; Mr. H. Hollinrake, Mus.Bac.; Rev. W. G. Monckton, M.A. The subjects to be taken by these gentlemen will be announced in due course.

## Rebroadcast of "All-Black" Match

### Highly Successful Venture

REALISING the great interest which would centre round the "All-Black" matches, the first of which took place on Saturday last, the Broadcasting Company arranged for the broadcast of a running description of matches. Negotiations were set in train and the use of the shortwave station 2ME was contracted for, but the use of this station applied solely to the transmitting.

Relay lines, an announcer, operators, and many other important factors still had to be arranged. Mr. Harris for some time seriously considered incurring the heavy additional expense of sending to Sydney the company's representative, to make the necessary arrangements and do the announcing. By the courtesy of 2BL, Sydney, however, this great difficulty was overcome, and it was arranged that 2BL and 2ME should broadcast simultaneously on the same relay.

In this way the problem of the Sydney matches was solved, but those which are to be played in Brisbane and Melbourne are still beset with difficulties. Mr. Harris is keenly anxious to arrange for shortwave transmissions in regard to those matches, and negotiations are still proceeding.

Saturday last the first of these broadcasts took place and listeners throughout New Zealand were able to listen in to the first match of the tour played by their team. During the afternoon it was announced that about 4.45 the stations would relay, or attempt to relay, 2ME. At about this time the local programme was interrupted and the broadcast commenced.

For a while it seemed that conditions would spoil the rebroadcast for a

slow fade and static were present. When, however, the listeners were switched over to the ground and interest properly aroused, conditions fortunately improved. The shortwave station came in like the local. Volume and clarity were all that could be wished for, and the rebroadcast turned out to be one of the most successful yet.

In opening, the sports announcer stated that the day left much to be desired. "Listen," he said, "and you may be able to hear the pit-a-pat of the rain falling on the umbrellas." One listener and there was certainly a background of noise, almost indistinguishable from light static. It was no doubt the rain.

One could picture the huge, cheering crowd, the falling rain, the umbrellas and the besplashed team as they fought that hard, even game in the mud. New Zealanders are gratified to know their team were, under these conditions, able to draw their first match. When they strike form the matches will be even more interesting, and thanks to the enterprise of the Broadcasting Company, the co-operation of the Australian stations, 2ME and 2BL, and the technicians who enabled the New Zealand stations to rebroadcast, listeners can look forward to the broadcasts yet to come.

The remaining fixtures which it is hoped to broadcast are:

July 6 v. Australia, at Sydney.  
July 10 v. New South Wales, at Sydney.  
July 13 v. Victoria, at Melbourne.  
July 20 v. Australia, at Brisbane.  
July 24 v. Queensland, at Brisbane.

## Kidnapped!

THE great day had arrived. All Germany was getting its radio receivers ready to tune in on the speech of a prominent Socialist Minister on armaments. The microphones were placed and the station was ready. Herr Minister stepped into a high-powered car and was on his way.

Suddenly the car was stopped. Hold-up men were at the Minister. He was seized, quickly taken away, and placed in captivity.

At the radio station, right on the hour, a gracious gentleman introduced himself as the speaker of the occasion, and calmly stepping up to the microphone addressed the German nation on the subject of armaments. As the speech came through the audience gasped in amazement. Surely something was wrong. Surely Herr Minister could not be serious. Why, every word was in direct opposition to his party's known position. The speech went on in this vein and was finished.

The listeners were right. Something was wrong. An able speaker of the Communist Party had presented himself and given an opposing address over stations arranged for by the Socialists. It took until the next day to fathom the plot. On that day, just 24 hours after his seizure, the Socialist Minister was released.

## Licenses in Other Countries

THE following figures compiled from various sources give some idea of the number of listeners in other countries:—

Country.	Licenses in force.	Ratio to 100 of population.
Australia .....	296,317	4.73
United States ..	Unknown	6.59
England and Wales .....	2,450,000*	6.35
Scotland .....	183,000	3.71
Germany .....	Unknown	4.85
Ireland .....	55,000	3.07
South Africa ..	17,000†	1.00
New Zealand ..	43,000	3.05
*Approximately.		†White population.

## Relay from Gore

### 4YA to Broadcast Concert

THOUGH the usual silent day, 4YA will be on the air on the evening of Thursday, July 11, to broadcast a concert from Gore. The concert is to be given by the Gore Orchestral Society. This Southland town is noted for its musical and elocutionary talent.

## Broadcasters in Motor Accident

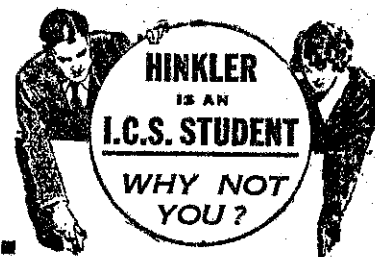
SPORTING Announcer F. L. Hutter and Operator W. A. Penton, of 1YA, figured in a sensational motor-car accident when en route the recent trotting meeting at Alexandra Park. Their car skidded on an overhead railway bridge, and was badly damaged in the fall. Both the occupants had almost miraculous escapes. Mr. Hutter sustained a fractured arm, and Mr. Penton was even more lucky.

As an indication of Mr. Penton's devotion to duty, it may be mentioned that although suffering severely from shock he immediately hired a taxi, took the microphone, amplifier, batteries, etc., to the studio, effected temporary repairs to the gear, and set out again for Alexandra Park in company with Mr. D. Wrathall, 1YA's programme organiser, who announced the results.

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—Mechanical Engin., —Intermediate,  
—Mine Electrician, —Hereford House,  
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B.Z.

## Hawke's Bay Notes

(By "X.Y.Z.")

**HEAVY** business calls and no time off to pen a few notes last week did not mix, so in last week's "Record" notes from Hawke's Bay were missing—not that there was much to report, for things are going along in the same groove up this way at the moment. Reception generally has been good and both static and howlers have been behaving quite well. As far as reception from the New Zealand stations are concerned, it has been a toss-up between 1YA and 3YA, both these stations coming in a lot better than Wellington. The Australian stations have been patchy, with 2BL at the top of the tree.

**ONE** cannot help but congratulate the Radio Broadcasting Company on its service in connection with the earthquake disaster in the South. All stations gave a full supply of news, but apart from this were very helpful in helping with messages to and from the sufferers, and once more radio proved itself a wonderful boon to all.

**WHILST** the company did such wonderful work in connection with the earthquake, it slipped badly with the description of the Leckie-Sarron boxing match in Sydney. Exceptional interest was taken in this contest, and why 2BL did not put a running description over the air is hard to understand. The New Zealand stations remained on the air in the hope of getting something about it, but they all closed down without being able to give the result. In fact, just before closing, 2YA announced that they had been advised that the contest had been postponed again, but a few minutes after Wellington said

good-night, 2BL put out a full description of the contest.

**WHILST** on boxing matters, there is another matter where 2YA failed. This was in connection with the Hurne-White battle in Wellington. Apparently permission to broadcast this was not given, but no announcement to this effect was made, and many people waited up to hear the result. Even when the station closed down the result was not made known, and it was available well before closing time. Even the bare result at the end would have filled the bill.

**BY** the time these notes are read, the new B class station at Napier should be on the air. It is proposed that the new station will transmit on Sunday afternoons and evenings and also on Wednesdays, but for a start its power will not be very high, so it will not be heard very far afield. It was hoped to be in full working swing on Wednesday, June 26.

**THINGS** are moving very quietly for the local concert, which is to be broadcast from Hastings on August 22. A really fine programme has been arranged and should be finalised during the coming week, when details will be sent to the "Record" for publication.

**MR. D. REES**, a member of the Hawke's Bay Radio Society, has now landed a complete television outfit, the first of its kind to reach New Zealand. A demonstration will be featured at the next meeting of the Radio Society and should attract a large attendance.

Have you secured your copy of

"N.Z. Radio Listener's Guide?"

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## Auckland Notes

(By "LISTENER.")

**WITH** a weekly relay programme now provided, from either the north or the south, Auckland listeners are now being remarkably well catered for. Last Sunday night's concert from Wellington must be reckoned the best of the series to date. What makes it all the more enjoyable is the atmosphere conveyed by the hearty appreciation of the Wellington audience. Several Auckland listeners on Sunday last enjoyed the unique experience of tuning in the whole four YA's, and hearing the one programme broadcast by each. It is surprising that, with such excellent items on the air, there should be one or two complaints because certain diatwisters could not find "variety" in their Sunday night listening. Truly the task of trying to satisfy all types of listeners is a superhuman one.

**AN** unusual experience befel Mr. W. J. Meredith, our football announcer, on Saturday last. Public interest was divided between the finest Rugby game of the season at Eden Park, and the trots at Alexandra Park. The football announcer, enthusiastic in his descriptions, was detailing graphically the crowded incidents of the Ponsonby-University game, only to find, later in the afternoon, that he had been talking for many minutes to a dead wire. Through some misunderstanding the relay line from Eden Park was switched off for longer than was intended, and during part of the game Mr. Meredith's account was not even wasted on the desert air; it got no further than the portable microphone. However, conditions were soon remedied, and the concluding stages of the exciting game suffered nowise in their vividness over the air.

**SCANNING** the 1YA programmes for next week, one cannot but be impressed with the improvement in style and arrangement which is noticeable in them. Each week marks some new feature that appeals to the listening public. "A Night With Grass Widowers" is but one example of many. The title alone is sure to intrigue many a wife towards her neighbour's set, if she is unfortunate enough not to possess one of her own.

**THE** Wednesday community singing broadcasts are enjoyed in thousands of homes, even if father is not there to tune in during the midday meal. Of course, it is almost impossible to obtain balance in a community sing, and the microphone being a faithful reproducer of sounds presented to it, there are at times audible parts of items which verge on the ridiculous. Someone near the microphone will suddenly be seized with the desire to "give it lip" in an air or a harmonised part which he or she knows, and listeners are bound to get the full benefit of the effort. They should remember, in criticising community singing broadcasts, that such conditions are inevitable. If

## A Wanganui Concert

### Another Relay Proposed

**THE** Broadcasting Company has been invited by the Queen Alexandra's Own Regimental Band to broadcast another of their concerts. The date has not yet been fixed. Listeners who heard the Wanganui concert last year will look forward with pleasure to the next.

### "Hinemoa" Encored

### To be Produced Again

**SO** successful was the recent presentation of "Hinemoa" by the Wellington Harmonic Society that it has been arranged to produce the cantata again in aid of the Earthquake Fund. As on the previous occasion, 2YA orchestra will take part in the performance.

"Hinemoa" will be produced on Saturday evening, July 13, and will be broadcast by 2YA.

### Near East Exhibition

**THE** Fourth Palestine and Near East Exhibition, which was held in April at Tel-Aviv, included a special radio section. This is not the first time that radio apparatus has been exhibited, but the radio exhibits on this occasion were a very much more important feature of the exhibition than formerly.

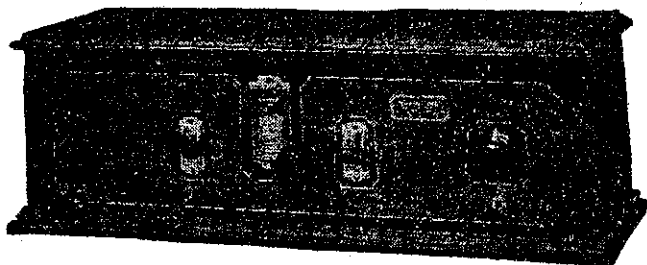
they do, they will then be able to appreciate certain enthusiastic, if misdirected, vocal efforts of units in a crowd.

**EARTHQUAKE** happenings, and messages to people in the tortured area, have been well to the forefront in announcements from 1YA during the past week. One more of the innumerable occasions when broadcasting has been of outstanding service has thus arisen, and country listeners especially must have felt grateful for 1YA's service. As on previous occasions the station was early in the field with the news of the latest flight of the Southern Cross, and listeners were kept fully acquainted with particulars received by wireless, almost as soon as these were broadcast from Sydney.

To-day, Mr. Cooper, of the Devonport Fire Brigade station, had the experience of listening on shortwave to the Morse transmission of the Southern Cross as she was speeding from Derby to Singapore. The droning sound used as an "all well" signal was also plainly audible at various times during the morning.

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## A Voice Without a Body

### How Publicity is Engineered

**M**EDICAL history records some extraordinary cases of the revival of apparent corpses. A case now current in Auckland radio history of a somewhat similar occurrence is causing a good deal of amusement in certain circles. The activity of what was known as the "Auckland Listeners' League" will be familiar to those who for some years have been interested in radio.

It will be remembered that this organisation, which, by the way, seemed always to be of a somewhat nebulous character in that a subscription of 1s. per annum entitled the general public to membership, was formerly much in the limelight by reason of the vitriolic criticism directed by it towards the broadcasting organisation in general. Several famous meetings were held in Auckland, the last prominent public one being some fifteen months ago. This was somewhat in the nature of a volcanic upheaval, after which a long period of quiet prevailed.

**T**HIS quietness was generally regarded as a presage of death—so much so that recently a meeting of the executive was convened to arrange the "funeral obsequies." These were progressing to finality, all arrangements as to winding up being practically completed, when one member, who, by reason of his association with a certain newspaper, was always able to give the League the publicity it enjoyed in its prime, walked into the room.

On being informed of the position, he is understood to have ejaculated: "Oh, damn it all, we won't wind up yet. We will have another fling." He was able to instil sufficient life into the apparent corpse, as it were, to have the winding-up resolution shelved and

arrangements made for a deputation, behind closed doors, to wait upon the Postmaster-General.

In due course a report appeared in the daily press to the effect that a deputation from the Auckland Listeners' League had waited upon the Postmaster-General and had submitted to him their views and had, it was understood, extracted from him a promise that no variation or renewal of the broadcasting arrangements would be entertained without their being submitted to the Auckland Listeners' League.

**A**ND that's that. It is just as well that listeners should be given this little insight as to how publicity can be engineered. The Auckland Listeners' League is apparently a voice without a body. What its membership is has never been made public. That, however, would not seem to be a material point. So long as a title can be secured and an aggressive spirit imparted, those with the necessary outlet through the Press can give the appearance of a virile organisation.

**I**N contrast to the "League," the Auckland Amateur Radio Society has actively built a genuine membership of those interested in furthering the cause of radio. This body is in a healthy state, comprising a membership of capable enthusiasts who are desirous of encouraging the constructional and technical side of radio as well as giving due attention to programme improvement.

Recently a special concert was arranged by the Auckland Amateur Radio Society for broadcast by 1YA, and a further special concert is to be given in the comparatively near future. By co-operation with 1YA, the Radio Society hopes to render service to radio.

## Topical Events

**B**BROADCASTING in France has been rather in the melting-pot of late, owing to the fact that attempts have been made to regularise it and place it upon a more standard basis. A thorough investigation has been carried out by the Paris Chamber of Commerce, and some important proposals have been put forward for the conduct of broadcasting. The principal recommendation is that equal representation should be given to the listener, the trade and the Government. The Paris Chamber of Commerce has also suggested that broadcast advertisements should be taxed so as to provide a source of revenue, and, furthermore, that two additional wireless taxes should be imposed, one upon the listener and the other upon valves.

**T**HE Indian Broadcasting Company shows a loss of £16,125 for the past year. So far, the total loss sustained by the company is £28,650. The directors of the company assert that the loss would have been much less

but for two important disabilities under which the company suffers. In spite of the protections undertaken by the Government against persons found possessing wireless receiving sets without licenses, says the "Times," there is still a good deal of piracy, which deprives the company of legitimate revenue. The company is also unable to collect all the amounts due as the 10 per cent. tax on wireless imports.

**O**NE of London's oldest colleges—King's College—has to struggle consistently against financial difficulty, though its teaching has been as advanced as in those universities where an endowment capital is assured. Some of the discoveries, inventions and investigations made in the laboratories there during the last hundred years are: electric telegraph, Professor Sir Charles Wheatstone, F.R.S., and W. F. Cooke; invention of Daniell cell, J. F. Daniell, F.R.S.; and the discovery of the existence of electro-magnetic waves, Professor James Clerk Maxwell, F.R.S.

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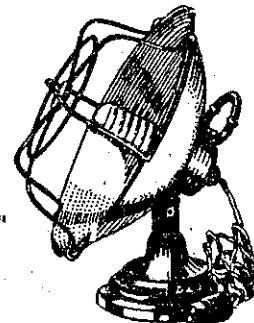
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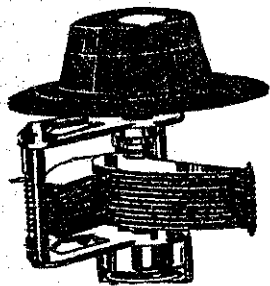
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Aeolian modulations."

—Shelley.

By  
Bolton  
Woods

## A Name to Conjure With.

IN the days of our parents' youth Strauss was a magic name, whether it were that of the Johann who saw Queen Victoria come to the throne or his more famous son Johann (1825-1899), who composed "On the Beautiful Blue Danube" and over four hundred other waltzes. Johann, the younger, eclipsed his father, and was the most popular musician in Vienna in the middle of last century. As a youth he nearly took up banking, for his father did not wish his son to go into the musical profession, but waltzes were in the blood, and would come out. Young Johann had been writing them since he was six, and he kept on doing so for nearly sixty years. The IYA Orchestra will play Strauss's "Artists' Life" Waltz on Saturday, July 13.

## The Dance of the Tumblers.

RUSSIAN composers, probably more than others, have used their native folk tales as bases of operas, orchestral tone poems, and other works, on a big scale. In "The Snow Maiden," from which "The Dance of the Tumblers" is taken, Rimsky-Korsakov embodies an old story which tells of the first day of spring. This is the day on which all the young folk who wish to wed come to receive the Tsar's blessing. There are various efforts to entertain the company, and the Dance of the Tumblers makes a merry end to the occasion. The 2YA Orchestra will play "The Dance of the Tumblers" on Friday, July 12.

## A Musical Socialist.

BORN in Glasgow, Hugh Robertson can be counted among those who have done most for music in Scotland. Practically self-taught, he began as a church choirtrainer, and while holding this position he founded the Toynbee House Choir, a small body of singers who met weekly at the Toynbee Men's Social Club. He used this as the nucleus for a more ambitious choir, which ultimately became the world-famous Glasgow Orpheus. He was one of the originators and pioneers of the Competition Festival in Scotland, and is a frequent adjudicator in both England and Scotland. He has arranged many songs and vocal pieces for choirs, including "The Red Flag," and has written two plays.

"Banks of Doon" and "John Grumlie," both arranged by Robertson, will be sung by the Hutt Valley Choral Society, whose concert will be relayed by 2YA on Monday, July 8.

## The Quaker Poet.

JOHN GREENLEAF WHITTIER was born at Haverhill, Massachusetts (U.S.A.) in 1807, the exact day seems doubtful; the date usually given is December 17, but in a letter written to Mr. Linton the poet writes: "My birthday was the very last of the year 1807." He died in 1892. On his seventieth birthday his brother poets and contemporaries offered to him a fitting and spontaneous homage, and after he died, his house at Amesbury was preserved as a memorial of one

who, through a long and blameless life, had served every noble cause with an unstinting and single-minded devotion. Miss Beryl Cooper will recite Whittier's "Marguerite" at 4YA on Tuesday, July 9.

## Block Chimes Bercense.

IT is usual to think of Brahms as rather indifferent about the instruments which were to present his melodies, and he made arrangements of his important works. There is a story told about the "Cradle Song" being used in a rather novel way. The composer, wishing to make a present to one of his god-children, the son of another distinguished musician, had a clock specially made which chimed the lines of this song every quarter of an hour. Although the fortunate possessor of this clock is now himself the father of a family, it may well be that he still treasures so unique a gift. The Melodious Four will sing the "Cradle Song" at 3YA on Thursday, July 11.

## A Rising Hope.

A DISTINGUISHED former pupil of the Royal College of Music in London, where he held a Composition Scholarship, Thomas Frederick Dunhill, earned the gratitude of many of his countrymen by a series of chamber music concerts which he ran for some years. Their special object was to bring forward music of young native composers which was in danger of being forgotten. He himself composed a large number of beautiful songs, some chamber music and a symphony. He gained the Carnegie Award in 1925 for his one-act opera, "The Enchanted Garden," although the opera has not so far been adequately presented. He is an author of several fine works on musical topics from chamber music to Gilbert and Sullivan opera.

ONE of Dunhill's part-songs, "The Captain and the Frenchman," will be sung by the boy's choir at the children's choir festival under the conductorship of Mr. Vernon Griffiths, M.A., Mus. Bach., being relayed by 3YA from Temuka on Friday, July 12.

## Personality Musically Portrayed.

BEETHOVEN called the eighth symphony his "Little Symphony," but only in relation to its length compared to the seventh. It is anything but little in conception, indeed, the finale has been spoken of as one of the supreme moments among the symphonies. First performed in Vienna on February 27, 1814, it did not receive nearly so much applause as the seventh symphony, which was also on the programme, but Beethoven, though intensely disappointed, merely said: "That's because it's so much better than the other." Grove says the work is "a portrait of the author in daily life," and this may well be so with its outbursts like temper and its humorous treatment of the various subjects.

A record by Mengelberg's Concertgebouw Orchestra of the Allegretto Echerzando of the eighth symphony will be used at 3YA on Sunday, July 14.

## A Parlour Favourite.

OF all Mendelssohn's "Songs Without Words," No. 34 is probably the greatest favourite. In most editions it is called the "Spinning Song," but it is known to many performers and hearers, as "The Bees' Wedding." It is of interest to know which of the titles given to the "Songs Without Words" were the invention of the author. They are those of the two "Gondola Songs," the "Duet," the "Folk Song," and the "Spring Song"; all other titles are the invention of publishers or the public. It is as the composer of "Elijah" and the "Songs Without Words" that Mendelssohn is known to the majority, but the "Songs" were not always so popular. The first book of them was published by Novello's in 1832, and in 1836 only 114 copies had been sold!

A record of "The Bees' Wedding" and "Spring Song" as cinema organ solos, will be used at 4YA on Tuesday, July 9.

## The First Fairy Opera.

IT is interesting to recall that Weber specially wrote "Oberon" for England. Kemble, the actor, had offered the musician a thousand pounds if he would write and conduct an opera in London. The composer took on the task, notwithstanding the fact that his doctor assured him that the English climate would prove his death. It was first produced, under the composer's direction, a few weeks before his death, at the early age of thirty-nine. It is a fairy-story opera, in which Weber's gift for composing imaginative music, full of romance and pictorial suggestion, rose to the heights of genius. There is little suggestion in the music of its being the work of a dying man, for it contains some of the most charming thoughts he ever set down. The St. Kilda Band will play selections from "Oberon" at 4YA on Tuesday, July 9.

## "Ellen McJones Aberdeen."

W. S. GILBERT'S "Bab Ballads" appeared originally in the columns of "Fun," when that periodical was under the editorship of the late Tom Hood. They were subsequently reprinted in two volumes. "The Bab Ballads" The period during which they were written extended over three or four years, and it is amusing to know that the first of the series "The Yarn of the Nancy Bell," was originally offered to "Punch," to which paper Gilbert was at that time an occasional contributor. It was, however, declined by the then editor, on the ground that it was "too cannibalistic for his readers' tastes." Miss Beryl will recite "Ellen McJones Aberdeen," one of the "Bab Ballads," at 4YA on Tuesday, July 9.

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# Notes and Comments

By  
"SWITCH"

THE unsettled condition of the atmosphere of late has apparently been responsible for most peculiar vagaries in long-distance reception. "Switch" has observed that on some evenings the Australian stations have been louder at, say, 8 p.m., New Zealand time, than at 11 p.m. This is contrary to results obtained under normal conditions.

WELLINGTON listeners have read with interest of the nightly reception of 2YA, Wellington, by the Byrd Expedition men down in the frozen Antarctic. The big station continues to perform magnificently, and not a few Wellingtonians obtain fair loudspeaker reception from crystal sets without any valve amplification. The writer heard reception from such a combination recently, and 2YA was audible forty feet away from the loudspeaker in another room with the doors closed. The receiving aerial was about half a mile from 2YA's transmitting aerial.

AN inquirer call on "Switch" recently for advice regarding loudspeaker reception from 2YA, using only a crystal set. The type of loudspeaker recommended was one with a thumbscrew for delicately adjusting its diaphragm. There are, however, some fairly sensitive loudspeakers which do not have an adjustable diaphragm. These should be tried out first to ascertain their capabilities. The crystal set should have a first-class detecting medium—either a catwhisker combination or a very sensitive semi-permanent crystal. If a copper catwhisker is employed the contacting tip should be kept fairly bright with an occasional rub with a piece of fine glass paper. The earth wire must be soldered to the water-pipe or whatever type of "earth" used. The aerial should be as high as possible.

WHILE on the subject of crystal set-loudspeaker reception of 2YA Wellington, the best performance of its kind reported to "Switch" is that of the equipment of Mr. J. King, Lower Hutt. Mr. King's residence is about eight miles from the 2YA transmitting station, yet he obtains fair loudspeaker reception of 2Y Awitihis crystal set, without any form of amplification. He uses a loudspeaker with an adjustable diaphragm, which can be heard in the room adjoining that in which the speaker is located. "Switch" would like to hear of a better performance than the above if anyone knows of one.

AS a Maori concert is to be broadcast from 2YA Wellington within a few weeks, the suggestion has been made that one or two of the older generation of Maoris be induced to sing a real Maori song before the microphone. Thanks to the art of a few New Zealand composers some beautiful Maori songs have been brought out, and are a delight to listeners, but they are merely the pakeha's conception of Maori music. As the years creep past there is a very real danger of the traditional Maori songs passing into oblivion.

ON the occasion of a big Maori concert at the studios of 2YA Wellington, a couple of years ago, a stalwart old Maori man was persuaded by the writer to sing one of the old-time songs of his race while the Maoris were having supper. The station had closed down, but the song was sung before the gathering in the supper room. It proved a revelation to the younger Maoris and the pakehas present. The only "fly in the ointment" was the length of the song, which assumed the dimensions of a serial cinema picture. However, the vocalist eventually concluded, and received a hearty round of applause.

THE old cylindrical type of gramophone by which any amateur is able to take a record is still obtainable. Some months ago the writer watched a friend taking a record of an item transmitted by 2YA, Wellington. The record was subsequently run through, and proved extraordinarily successful when an electric pick-up was utilised for reproduction. Not so long ago a singer at 3YA was heard direct and through a gramophone record. Listeners in Wellington had difficulty in deciding which was the singer or the record.

THE attitude of an experienced listener on the subject of whether the Wellington Radio Society should recommend the Broadcasting Company to substitute music for football relays is as follows: (1) The Wellington Radio Society's membership may be likened to a drop of water in a bucket in proportion to the numbers who listen to 2YA. Therefore, the society is not in a position to assume the status it should possess before urging such a radical change in the broadcasting service which may affect the pleasure of so many. (2) The only means of obtaining a knowledge of the wishes of the majority is by a plebiscite. (3) The Broadcasting Company has more to lose or gain than the Radio Society in directing its own policy, on the subject of pleasing the majority of listeners. (4) One afternoon in a week, devoted to New Zealand's national sport, is not a serious encroachment on the number of afternoon sessions per week, and must appeal to a large number of listeners.

SEVERAL thousands of New Zealand listeners are interested in the news that the contract for all Australian "A" class stations' programmes has been let to a newly-formed Australian Broadcasting Company embodying Messrs. Fuller, Union Pictures, and Albert and Co., Sydney. The Sydney "Wireless Weekly" says: "Listeners-in are promised the benefit of the Fuller Company's various theatrical presentations. Artists under their control who are suitable for broadcasting will be readily available. Sir Benjamin Fuller has no intention of pushing his own artists down the throats of listeners-in, as he puts it. He wishes to serve the public from the sense of national responsibility, and will tolerate nothing in the Broadcasting Company's activities which will not elevate the standard of broadcasting services. Sir Benjamin Fuller's great interest in educational matters is well known. He has endowed a bursary in perpetuity, and is ever taking an active part in the educational affairs of the community."

WITH Messrs. Fullers' venture into the higher forms of entertainment than vaudeville during recent years they have now been placed in a position to cater for all classes of tastes from those who relish grand opera down to those who prefer red-nosed comedians. The operations of the new Australian Broadcasting Company commence within a few weeks, and New Zealand listeners may be said to be awaiting developments with eagerness.

MR. ROSS A. HULL, formerly Federal secretary of the Wireless Institute of Australia, has returned to Sydney after an absence of three years spent in America. He states that Australia is a veritable paradise so far as atmospheric conditions are concerned, static being consistently fierce in the United States, especially on the Atlantic side, and fading and distortion is rampant. Mr. Hull asserts that the giant broadcast station WEAU New York, using 60,000 watts power, at 90 miles distance sounds as

though it were 3000 miles away. Taking this into consideration, New Zealand listeners will appreciate the wide radius swept by the YA stations.

MR. ROSS HULL has a gentle tilt at the quality of transmission by the much-vaunted Australian stations, and the incapability of many receiving sets in Australia to reproduce with good tone. He remarks: "It must be established, by some means or other, that broadcasting at its best actually has an entertainment value quite unequalled in any field, and that our present transmissions (in Australia), and particularly our present reception, are so far removed from broadcasting at its best as to be acclaimed as passable only by those who have heard no other." One may remark, "distance lends enchantment," and those New Zealanders who are given to going into ecstasies over the tonal qualities of the Australians may pause, now, and think a while.

NEW Zealand broadcasting though compelled to work on a much smaller population than that of Australia, the ratio being about one-sixth, has to maintain four broadcast stations to Australia's eight. Yet the percentage of listeners per ratio of 100 of population in New Zealand (about 3.05) compares very favourably with that of Australia (4.73).

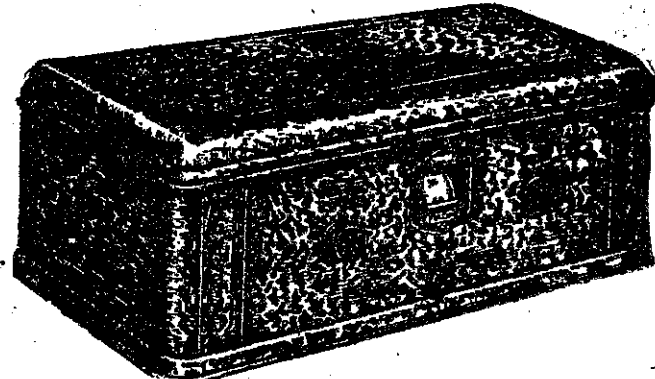
It must be remembered, also, that a definite broadcasting service commenced in Australia quite three years before the New Zealand service. Even with a start of three years the Commonwealth has not gained much of a lead over the Dominion.

THOSE listeners in New Zealand who complain that 2YA Wellington is distorted at distances of upwards of a hundred miles away, in some places, will find interest in the fact that listeners round about Newcastle, only seventy miles from Sydney, cannot get good reception of the big stations in Sydney owing to severe distortion. The problem has become so serious that with the taking over of the broadcasting in Australia the Commonwealth Government proposes to endeavour to overcome the disability experienced by Newcastle listeners.

THE theory that sunspots have a marked effect upon long-distance radio reception has a strong supporter in Professor Stetson, of the astronomical laboratory of the Harvard University, U.S.A. New Zealand listeners may look forward to poor reception about the end of this year owing to great sunspot activity, according to Professor Stetson.

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## Liven It Up.

THE dinner music session you put on at 2YA is quite appreciated by country listeners, but I quite agree with A. G. Mason that it wants livening up a bit; and as for the five minutes' interval. I would suggest that they who want a little polite conservatism, get up and turn the juice off when it suits them, as "tacet" is a little drier than the other music. Popping to see "tacet" eradicated and the dinner music livened up a bit.—S. B. HALL.

## Broadcast of Football Matches.

I WISH to support the protest of "Edenite," Auckland, and C. Russell, Auckland, as written in "Our Mailbag" of May 31, against the broadcasting of football matches every Saturday afternoon. A fair estimate of the percentage of listeners on an average Saturday afternoon in winter is 75 per cent, women and children, and of these the majority want music not football. The children particularly like the afternoon music on Saturday and Sunday; in fact, it is their only opportunity of listening to a musical programme, as there is very little music in the children's session, and now in winter, when these programmes would be more than ever appreciated, the service is spoilt by football broadcasts. Now, for football, in all codes, great games and good sport, and from my experience the radio family is well represented in the crowds at the various games, for en-

thusiasts want to see the game, not stay home and listen to something of it; therefore, those who stay home are not very interested in football, so why spoil the afternoon for the women and children? I say give them music. I am not forgetting the inmates of our hospitals, etc., and those who are sick at home. I have had my share of experience in those circumstances, and upon a vote being taken in a hospital ward for men, music versus an ordinary club game of football, I am confident music would win. Music is beautiful to listen to. Football is beautiful to watch. I am not advocating the dropping of football altogether, but would like to suggest that only representative games, championship finals, trophy games, and such games of special interest be broadcast to give the sports who cannot go to the matches something worth while; then I think all would be getting a fair share of the Saturday afternoon broadcasts.

Now, if the Broadcasting Company want to get the feeling of the licensed listeners on this subject, my suggestion

is this: invite the holders of licenses in the Auckland district to send in a postcard marked "I vote for music," or "I vote for football," by a given date, and I offer my experience and services as scrutineer to ascertain the result. This would cost the radio family a £d., and the Broadcasting Company nothing to get a satisfactory solution to the problem.—R.F.A. (Devonport.)

## Lectures for Constructors.

SIR,—Might I suggest that, in view of the large number of set-constructors who are interested in the latest radio apparatus, a series of weekly chats dealing with the latest radio developments be broadcast. The chats could be divided in many ways as follows:—New circuits and their merits; the books in which constructional details could be found; recent developments in accessories, viz.; screen-grid valves, etc.; and the latest books (a review of radio literature). Many of us living, as we do, in small towns or in the country, have not the facilities of libraries and well-stocked magazine depots which are afforded the city listeners, and a move in the direction of these chats would, I am sure, be greatly appreciated. They should materially increase the interest of set-owners in the possibilities of their sets, thus helping to popularise radio as a hobby in New Zealand.

I have not heard of this being done before, but if not, it is no reason why New Zealand stations should not lead the way. Why not give it a trial and enclose a voting coupon in the "Radio Record" following the first lecture, or ask readers what their ideas are of the new departure? Incidentally a voting coupon concerning the football and sport broadcasts; dinner music, etc., all on the one slip, might give the authorities some true conception of the general tastes of listeners. Hoping that you have the best of luck in your endeavours to make programmes really presentable, and trusting that you at least give the above ideas consideration.—I am, etc.,  
PLEASED, BUT PROGRESSIVE,  
Waimate.

(There exists a difficulty in obtaining suitable lecturers. However, the suggestion will receive attention.—Ed.)

## The Salvation Army Broadcast.

I TAKE this opportunity to congratulate the Broadcasting Company on the very fine relay of General Booth's Memorial Service from the Town Hall on Sunday. The whole service came through with wonderful clarity, and was very much appreciated.—CONSTANT LISTENER (Feilding).

## Give and Take.

SIR,—I am unable to diagnose the mysterious diseases of your correspondent, "Fed Up, and Then Some," in his letter of the 28th inst.

I say, "give and take. Mother Earth will take care of the rest." Illogical reasonings and faulty thinking are deadly enemies. Perhaps if "Fed Up,

and Then Some" took some of the cobwebs out of his household and burnt them in a furnace, I am sure he will find a gradual improvement in his sphere of thought and processes of thinking. I hope your correspondent, "Fed Up, and Then Some" will find in future happiness and contentment in trying to solve the psychology of 2YA Sunday programmes.

The Salvation Army is morally and spiritually one of the greatest forces in the world for the uplifting and betterment of humanity. I hope your correspondent will take heed of these immortal words of Shakespeare: "There is nothing either good or bad, but thinking makes it so."—ROSE JOHN JOSEPHS (Wellington.)

## Most Unfair.

YOUR correspondent "Fed Up, and then Some" is most unfair, and is certainly taking the view of one who lives in the city with its culture, religious and secular. He forgets us who, far from church or elevating media, who rely solely on literature and upon the "air" for our enlightenment and edification. "When I want to hear the Army I can walk," he says, but he forgets that we in the backblocks would still be walking. Surely every sector of the community must be considered, and when an event such as the death of the leader of what might be termed one of the world's greatest spiritual organisations, dies, the Broadcasting Company is ridiculed for putting it on the air. These unusual broadcasts are enjoyed, and the company's effort to further provide them appreciated by listeners.

The suggestion that the station remain on the air to play records is rather ridiculous—to me it suggests ending a divine service with a fox-trot.—MIS-INTERPRETATION (Tokaanu.)

## Sunday Radio.

ON behalf of many listeners and myself, we wish to express our appreciation of the great improvement in the programmes broadcast from 2YA on Sunday evenings. Last night's programme by the Wellington Silver Band was very good indeed, and from the applause of the audience it was equally well received there, and I'm sure would be equally enjoyed all over New Zealand. If I may be allowed to suggest, a hymn tune added to the programme would be appreciated. They come out splendidly over the air by the band. With all good wishes for the future—A LISTENER (Cambridge)

## Reception of Relays.

J. W.F. writes: "The reception from the Timaru broadcast was not good between approximately 8 and 8.30, but

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from then on it improved, and before 9 p.m. was coming over as well as one could possibly wish for. The criticism in the "Radio News" and in a daily paper may have been based on the reception at the commencement of the broadcast. The reception of the Whangarei Band concert, relayed by land line through 1YA, was successfully picked up on a 2-valve machine."

### Two Appreciations.

I GET the weekly "Radio" paper, and in it I am surprised to see how many grumblers there are in New Zealand. I am a listener in every evening—we have a very good wireless set. I grant I know very little about wireless, but what I do know I owe to you. I appreciate the efforts of everyone who is connected with the radio announcers, uncles, aunts, etc., as well as the wonderfully good music and entertainments you give us. I often ponder how you in 1YA, 2YA, 3YA, and 4YA can produce such variety every night. The children's sessions are wonderful. I take a great interest in listening-in. All I can say is thank you very much indeed. From one who is very grateful to 1YA, 2YA, 3YA, and 4YA. The dinner session is excellent. —GRATEFUL (Dunedin).

"I am well pleased with all your programmes, and if I am not I switch on to another station. Those who grouse at them I ask for what they alone want are utterly selfish, and do not consider others. Carry on, and good luck," adds a correspondent to our office, H.H.B. (Kawhia).

### 4YA at Cromwell.

PERHAPS the R.B. Co. would be interested in suggestions in regard to their station, 4YA. Contrary to general experience in this district I can always bring him in when he is on the air except on very rare occasions and now and then he comes in in great style, but unfortunately after a good night or so some of the screws apparently get loose and the modulator tubes rattle in their sockets—at least that is what it sounds like. In case they are short of tools to effect repairs I have a fine big axe they can have the loan of any time.—DIOGENES (Cromwell).

### Largest Broadcasting Station

THE Czecho-Slovakian Government has placed orders with the International Standard Electric Corporation of Prague for a broadcasting station which it is expected will be the largest in the world. The new station will have a power of 120 kilowatts in the aerial, as compared with 50 kilowatts which is at present used by the largest broadcasting stations in the United States.

# EDUCATION BY WIRELESS

## The Mechanism of Evolution

THE following is the summary of the third W.B.A. lecture on the above subject, to be given from 4YA on Tuesday, July 9, 1929, at 7.30 p.m.

### 3.—The Lamarckian Factor.

EARLY in the nineteenth century, just fifty years prior to the appearance of Darwin's "Origin of Species," the French zoologist, Lamarck, published a work on zoological philosophy which included a clear account of a theory of evolution, which many scientists of to-day still support in a more or less modified form.

Though Lamarck was a brilliantly-gifted man and a great observer, his work was much hampered by his poverty and the blindness which overtook him later in life. Further, the great French anatomist, zoologist, and palaeontologist, Cuvier, who, at this time exerted a very powerful influence over scientific thought and was a man of high social standing, was a firm supporter of a modified theory of creation to account for the origin of species. Consequently the work of Lamarck, which clashed with the views of his brilliant and influential opponent, was neglected during his lifetime and was not appreciated until many years after his death.

Lamarck's theory of evolution involves two main basic principles. In the first place, he believed that the changes which result in the evolution of new forms are brought about by the direct influence of the environment acting upon the nervous system. A change in any of the conditions which constitute the environment will cause a need or want to be felt by the organism; and if this want is felt over a long-continued period, a new organ may gradually be developed, or existing organs may be adapted to suit the new environmental conditions. Environment, then, plays just as important a part in Lamarck's theory as it does in Darwin's principle of natural selection, but there is this great difference between the two theories. Lamarck believes environment actually to cause changes to take place in the structure of the organism. Darwin, on the other hand, states that from the innumerable variations and changes that happen to occur in any species, those which suit the new surrounding conditions are selected and perpetuated, while the comparatively useless variations are eliminated.

The second part of Lamarck's theory states that once any new character is acquired or an existing one modified by the influence of environment, such a character will be transmitted to successive generations by heredity, till ultimately it becomes an established and characteristic feature of the new species. All biologists agree that there is much truth in the first of these two basic principles; but for it to have evolutionary significance, the second principle outlined above must also operate. Here is the point over which much controversy arises. Is it possible that such acquired characters can be transmitted by heredity?

The geneticists headed by Weismann insist that if the nucleus of the protoplasmic cell itself contains the determin-

ants of hereditary qualities, then since the protoplasm cannot possibly be influenced by the environment of the organism, any characters acquired under its influence during life will not affect the germplasm and will not therefore be handed on to the next generation. If this argument is correct we must regard Lamarck's theory as disproved.

A good deal of experimental work has been done along the line of producing "acquired" characters in animals such as mice, guinea pigs, salamanders and insects, and subsequently testing whether or not these characters may be inherited. Evidence of this sort is sometimes—perhaps more usually—in favour of Lamarck's theory, and sometimes apparently opposed to it. Much of it is inconclusive, as it is difficult to prove that the characters thus artificially induced are comparable with those acquired under natural conditions.

Probably geologists and palaeontologists are the strongest supporters of Lamarck's principle to-day. The geologist looks back through the countless millions of years that make up geological time and sees the slow pulsation of life as it ebbs and flows on its evolutionary course. Many of the changes which he sees—often the most profound ones—he can only explain on the assumption that they have been brought about by the direct influence of the great changes in climatic, physiographic and other environmental conditions, which he knows to have occurred again and again through the ages. Many geologists would suggest, for example, that the first land vertebrates originated from a group of fishes away back in the remote period which we term the Silurian, under the compelling influence of adverse climatic conditions to which the survivors were forced to adapt themselves.

We know that no one mechanism can account for all the phenomena of evolution. So geologists believe that, while natural selection is the chief agent in evolution, yet Lamarck's principle of the more direct action of environment has also been at work. Such, indeed, was the view of Darwin himself.

### Radio Terms

### Their Origin Traced

ALMOST everybody knows that the unit of electrical capacity by which the size of condensers is measured is known as a farad, writes R. P. Clarkson in the New York "Sun." I told one of my radio classes that this term is derived from the name Faraday, in honour of the great English electrician. One of the bright students immediately jumped to the conclusion that microfarad, by the same process, came from his full name, Michael Faraday!

The prefixes milli and micro are, of course, not peculiar to the electric art. They mean a thousandth and a millionth respectively, wherever you find them, just as kilo as a prefix always means thousand. A kilowatt is a thousand watts and a kilo-cycle is a thousand cycles. The microfarad is, of course, the millionth part of a farad.

Faraday is not the only brilliant scientist whose name has been made im-

mortal in the language of electricity. We have the volt in memory of Volta, the ohm in memory of a great Bavarian, G. S. Ohm, who, in 1826, established the law which bears his name. The ampere is likewise named in honour of Andre Marie Ampere, a great Frenchman. The unit by which we measure our inductance, the henry, perpetuates our own Joseph Henry, of Albany, N.Y., and later the first head of the Smithsonian Institution of Washington, D.C. In the lesser known units are the oersted, from the name of Hans Christian Oersted, a Dane, at one time professor at Copenhagen, and the first to show a relationship between the electric current and magnetism.

Then there is the coulomb, which measures the quantity of electricity and comes from C. S. Coulomb, who first experimentally verified the fact that the forces of attraction and repulsion between two charges vary inversely as the square of the distance between them, a choice bit of technical information. James Clark Maxwell, the great Scotch mathematician, provided his name in the maxwell or number of magnetic lines of force. Another Englishman, James Prescott Joule, who gave us the laws of conservation of energy and measured the relation between the various forms of energy, has given his name in the joule, which is the electrical unit of work done. And whenever we talk of watts or kilo-watts we are commemorating none other than James Watt, largely remembered for his work on the steam engine.

### Derived from the Greek.

MOST of the funny little names, such as electrodes, electrolyte, ion, anion, cathion, anode, cathode, electronic, paramagnetic, and many others came from Michael Faraday with the help of his

(Continued on page 25.)

## A Vital Business Matter

that concerns every man is the making of a will and providing for the future need of his dependents. The Public Trustee, if appointed executor, prepares your will and keeps it in safe custody free of charge. Much helpful and interesting advice is contained in a new booklet,

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# Next Week's Features

## Notes from 1YA

**T**HE service in St. Matthew's Church on Sunday evening will be relayed. The preacher will be Canon C. H. Grant-Cowen, the organist, Mr. J. H. Phillpot.

**O**N Tuesday evening Miss Rita McCully will make her first appearance before the "mike" at 1YA. Miss McCully's light soprano voice is particularly suited for broadcast purposes and her items will be awaited with interest. Mrs. Culford Bell, now a firm favourite with all listeners, will contribute Dr. Drummond's fine French-Canadian poem (with musical accompaniment), "De Bell of San Michel," and a recital, "The Last Lesson" (Daudet). Contralto solos to be sung by Miss Gwenyth Evans, who is making a welcome reappearance at 1YA, include "Here's to Love" ("Sunshine Girl") and "Love's Own Kiss." Mr. Frank Sutherland will sing the baritone solos "Song of the Clock," and "If I Were." The Studio Trio will contribute instrumental numbers, including a "Lilac Time" selection. The popular Auckland violiniste, Miss Ina Bosworth, will be heard in "Spanish Dance" (Granados). Orchestral items will be relayed from the Majestic Theatre.

**O**UTSTANDING on Wednesday evening's programme will be the presentation of Jubilee Songs and Negro Spirituals by Mrs. Daisy Basham and the Lyric Quartet. Although the negro music of both Africa and America is essentially spontaneous, in Africa it was nearly always used for the war dance, funerals and wedding festivities, while in America it was the outcome of the conditions under which the slave lived and laboured.

The plantation songs, or "spirituals" were the outbursts of religious fervour, and were the slaves' own interpretation of the Scripture as preached to them by their own religious leaders.

Mrs. Basham in the course of her recital will trace the history of the "Spirituals" and will be ably assisted by the Lyric Quartet. Also appearing on this programme will be Mr. Eric Maxwell, pianist, and Mr. Leonard Cronin, who will discourse on the "Humours of Parliament." Mr. Cronin has had many years' experience in newspaper work in Parliament and his talk should prove most interesting and entertaining.

During Wednesday's programme there will be relays from the semi-final rehearsal of the Bohemian Orchestra.

**T**HE programme on Thursday evening will be contributed to by Miss Ina Thomson, contralto, who has returned to Auckland and is making a welcome reappearance before the "mike," and Miss Gwenda Weir, soprano, who is making her initial appearance at 1YA. Baritone solos to be sung by Mr. Walter Brough include "Simon the Cellarer," and "Far Across the Desert Sands." The Studio Orchestra will play popular numbers, while a novelty humorous sketch will be presented by a new combination, the "Four Originals." Dance music will be broadcast until 11 p.m.

**T**HE main contributors to Friday evening's programme will be Mr. Arthur E. Wilson, contributing two short organ recitals. Mr. Wilson will be assisted by the fine baritone, Mr. Laurence North. Miss Irene Frost, a popular young Auckland contralto, will sing "Break, Break, Break" (Cary), and "Sink, Red Sun" (Del Reiga).

Another new artist will, this evening, swell the ranks of vocalists at 1YA in the person of Miss Mary Coffield, soprano, whose sweet soprano voice is particularly adapted to broadcasting.

Miss Mollie Wright, the well-known cellist, will play "Romance Sans Paroles" (Davidoff) while the Studio Trio will contribute instrumental items. Mr. A. B. Chappell, M.A., will continue his extremely interesting "Topical Talks."

**O**N Saturday afternoon Mr. W. J. Meredith will describe the main Rugby football match on Eden Park. In the evening the "Radio Scamps" will provide a bright and varied programme of novelties, sketches and songs. These novelty programmes are

will be heard later. The orchestral items will include the "Plymouth Hoe" overture, two violin solos, with orchestral accompaniment, "Romanza Andaluza" (by Sarasate), and Chopin's "Nocturne in E Flat," the soloist being Mr. W. Bennett, and Saint-Saens popular "Suite Algerienne."

**O**N Tuesday evening a light "popular" programme will be presented. The orchestral numbers will include the popular march medley, "Martial Moments," a cornet and trombone duet "Watchman, What of the Night" (the soloists being Messrs. W. Sneddon and Harold Oakes), and "Petit Rhapsodie" (by Russe). The supporting artists will be Mr. G. Austin Blackie (tenor), Miss Greta Stark (soprano), Mr. Edward Silver (popular songs), and The Two Boiled Owls, who will give a short radio skit entitled 2H. O.W.L., as well as a piano novelty and vocal number. Mr. Edward Silver will be heard in some of the latest dance numbers.

**T**HE band of the 1st Battalion Wellington Regiment, under the conductorship of Lieut. B. J. Shardlow, and with the assistance of Mrs. Kingi Potiki (soprano), Miss Grace Robertson (contralto), Mr. S. E. Rodger (baritone), and Mr. Will Hancock (tenor) will provide an entertaining programme on Thursday evening. The band items will include a selection "A Day with Robert Burns," by the well-known composer Ord Hume, a selection from the popular musical comedy "The Vagabond King," and the "Portia" intermezzo from "The Merchant of Venice Suite," as well as several waltzes, marches, and foxtrot items. A cornet solo, "Until," by Sanderson, will be played by Sergeant Barke. Mrs. Potiki's items will be two Maori numbers, "Pokare Kare," and the well-known Maori slumber song, "Hine e Hine." Mr. S. E. Rodger will sing "The Song of the Waggoner" and Tosti's "My Dreams." Miss Grace Robertson has chosen for her items "Home They Brought Her Warrior Dead," "Jock o' Hazeldean," and an "Eriskany Love Lilt." Mr. Will Hancock, the popular tenor, will sing "Sweet Miss Mary," "I Heard You Singing," and "Rose of My Heart." Mr. Daniel Barrie, the popular elocutionist, will deliver another instalment of "School-



**MR. H. HART.**  
A popular entertainer at 2YA.  
—Photo, Andrew.

providing one of the most popular entertainments "on the air" and are always looked forward to with keen anticipation by all classes of listeners. At the conclusion of the concert programme dance music will be broadcast until 11 p.m.

## The Programme from 2YA

Listeners will no doubt have pleasant recollections of the concert broadcast by the Hutt Valley Choral Society, and will be pleased to hear that on Monday, July 8, a relay of the society's first concert of the 1929 season will be carried out. The society, which performs under the conductorship of Mr. E. A. F. Jenner, A.R.C.M., will, as in the past, have the assistance of the 2YA Orchestra. The programme will comprise folk songs, part songs, and the cantata, "The Banner of St. George." The soloist in the latter number will be Miss Ailsa Nicol, who will also be heard in an operatic aria from Verdi's opera, "La Traviata," and in Mendelssohn's "On Wings of Song." Miss Nicol is a rising young soprano of whom more

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boy Howlers," and will also recount "My Financial Career" (by Leacock).

ON Friday evening, the Philharmonic Quartet will present a programme of operatic and musical comedy numbers, which will include selections from "Faust," "The Rebel Maid," "The Gondoliers," "The Quaker Girl," "Merrie England," and "Lilac Time." Supporting items by the Studio Orchestra will include "The Marriage of Figaro" Overture, selections from "La Boheme" and "The Bohemian Girl," and "The William Tell Ballet Music." The piano soloist for the evening will be Miss Pauline Rodgers. Two humorous sketches will be given by Mrs. E. Carte and Miss Rose Carte.

## Features from 3YA

THE service conducted in the Holy Trinity Anglican Church, Avon-side, will be broadcast on Sunday evening. The preacher will be the Rev. O. Fitzgerald, the organist and musical director being Mr. Arthur Lilly, A.R.C.O. A studio concert will follow, the local artists being Miss Vera Martin (contralto) and Mr. W. H. Inkster (baritone). Afterwards there will be a rebroadcast of 2YA, which will be relaying a concert to be given by the Wellington Municipal Tramways Band under Captain Herd.

THE Woolston Band, under Mr. R. J. Estall, will provide a programme on Monday evening. Among the items will be "Rock Lea" (Rimmer), "If I were King," selection from "Rigoletto," "Glad Rag Doll" (foxtrot), and "Merry Maids" (march). In addition Bandsmen Ohlsen and Arnaud (cornetists) will play "Two Juliets," to band accompaniment, and a euphonium solo will be played by Bandsman Anderson, also with band accompaniment. There will be selections by the Studio Trio. The assisting vocalists will be Mrs. L. B. Salkeld (soprano), Miss Marian Woodhouse (contralto), and Mr. Sydney Armstrong. This will be Mrs. Salkeld's first appearance at 3YA.

THE Salon Quartet—Miss Corrie Aslin, Miss Dulcie Mitchell, Mr. H. Blakeley, and Mr. J. Graham Young—will provide the vocal portion of the musical programme on Wednesday evening. Popular operatic excerpts will form the major portion of the programme. A fine programme will also be presented by the Studio Orchestra under Mr. Harold Beck, and Miss Winifred Smith will recite.

THERE will be a classical programme—but a popular one, nevertheless—on Thursday evening, the vocalists being the Melodious Four. A further pianoforte recital, with introductory remarks, will be given by Mr. Sydney Francis Hoben. His selections will be Rheinberger's "Romance" (played with the left hand only), and the "Spinning Song" from "The Flying Dutchman."

Other instrumental numbers will be played by the Studio Trio, and there will be a 'cello solo by Mr. Harold Beck. Included among the vocal items by the Melodious Four will be several of Kennedy Fraser's Hebridean songs, to be sung by Mr. Russell Sumner and Mr. T. D. Williams.

On Friday evening there will be a relay from Temuka, where a Children's Choir Festival is to take place.

ON Saturday evening 3YA will rebroadcast 2YA.

## 4YA Notes

The first half of Monday evening's programme will be devoted to a presentation of "Our Miss Gibbs" by The Majors, under the direction of Mr. T. J. Kirk-Burnand. "Our Miss Gibbs" is one of Monckton's



MRS. ROSS BRODIE.

This fine contralto, who lives at Rangitata, is heard occasionally from 3YA.

most popular musical plays. There will be a supporting miscellaneous programme to which, in addition to The Majors, Miss Joyce Hould (elocutioniste) and the Studio Trio will contribute.

ST. Kilda Band, under the baton of Mr. James Dixon, will give a programme on Tuesday evening. Assisting vocalists will be Mrs. Herbert Burrow (soprano) and Mr. A. G. Cooke (baritone), while elocutionary numbers will be given by Miss Beryl Cooper. The records which will be introduced will include numerous novelty features.

AN interesting feature on Wednesday evening's programme will be a debate between members of the Dunedin Debating and Social Club. The subject will be "That woman has

more than come into her own." There will also be two novelty interludes provided by relays from the Ritz Broadcasting Orchestra. The soloists for the evening will be Miss Florence Sumner (soprano) and Mr. John Kennedy (tenor).

Friday evening's vocalists will be Miss Helen Ray (soprano), Miss Olga Wynne (contralto), and Mr. W. Harrison (tenor). There will be a duet by Misses Roy and Wynne. The Studio Trio will play and there will be violin, 'cello and piano solos by Miss Eva Judd, Mr. P. J. Palmer, and Mrs. E. Drake respectively. Two musical monologues will be given by Miss Eileen Cooper.

ON Saturday evening 4YA will relay from 3YA.

## Children's Sessions

### 1YA, AUCKLAND.

TUESDAY, JULY 9: Gather round! gather round for the Bedtime Hour, with Uncle George in charge, and songs and duets from cousins.

WEDNESDAY: Uncle Tom will cheer you on your way to-night with more of his happy stories and ditties—birthday greetings—and piano solos from Cousin Lois.

THURSDAY: A jolly hour with Peter Pan and Cinderella, who are off to a picnic. Cousins will join the party and give items by the way.

FRIDAY: New cousins to-night. Pupils from the Alfriston School will entertain with part-songs and choruses. Nod and Aunt Jean at the helm with stories and birthday greetings.

SATURDAY: To-night Miss Blamires brings her band of young performers to the studio, and they have a very jolly programme prepared. Cinderella will have stories and birthday greetings.

SUNDAY: Children's Song Service conducted by Uncle Leo, assisted by cousins from Beresford Street Sunday School.

### 2YA.

MONDAY, JULY 8: Uncle Jeff will send the birthday messages over the air to-night, and there will be a new puzzle for the little folk, also a jolly programme of music by some cousins.

TUESDAY: Uncle Jim will greet Radioland and talk to the big family this evening. The pupils of Miss Agnes Wright will make merry music on the piano.

THURSDAY: Uncle George with his merry tune will call Radioland to-night. Cousin Herbert is coming with his oboe. Joyce and Jean will give musical items and Rona will sing and recite.

FRIDAY: Big Brother Jack and Robinson will sing and crow their way to Radioland this evening. Punch and Judy will be here too with their music, also pupils of Miss Rose Carte.

SATURDAY: Uncle Toby and Aunt Gwen to-night, also the pupils of Mrs. Martyn Williams. There will be one of Aunt Gwen's good-night stories and Uncle Toby's good-night song.

SUNDAY: Uncle George will conduct the Children's Song Session this evening, assisted by the Cambridge Terrace Congregational Sunday School Choir under Mr. Reynolds.

### 3YA SESSIONS.

MONDAY, JULY 8, 1929:

On each Monday night we take a nice flight,

And Fancy wafts us afar.

With "Scatterjoy's" aid, and The Melody Maids,

All aboard our good ship "Hip-Hoorah."

WEDNESDAY:

Now, Wednesday comes, with Laughter and Fun,  
Mother Hubbard her sweet songs will trill.

Uncle Frank is here too, and he knows what to do,  
And with stories this short hour will fill.

THURSDAY:

To-night is the night the Choristers come,  
From Dunelm School—Riccarton way.

With songs sweet and pretty, and Uncle John's stories pithy,  
"We are set for the evening," we all say!

FRIDAY:

Oh, Storyman, true, pray tell us now—do!

Have you stories for the young and the old?

Yes! Surely I have, and some sweet music, too,

From the cousins of 3YA Studio.

SATURDAY:

Oh! Brother Bill bold, are your stories all told?

"Not by half," he tells us to-night.  
So sit in your homes—put on your headphones,

And listen by the warm firelight.

SUNDAY:

This Song Service, dear to young folk far and near,

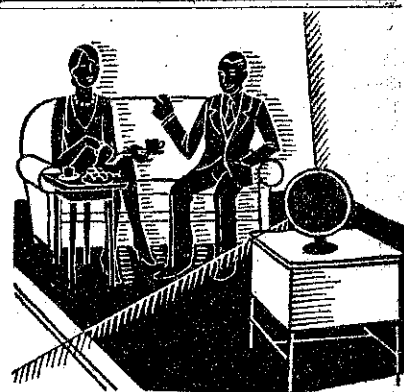
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# Full Programmes for Next

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## Sunday, July 7

### 1YA, AUCKLAND (333 METRES)—SUNDAY, JULY 7.

- 11 a.m.: Relay of Special Thanksgiving Service from St. Mary's Cathedral.  
 3 p.m.: Afternoon session—Selected studio items.  
 4.0: Literary selection by the Announcer.  
 4.8: Studio items.  
 4.30: Close down.  
 6.0: Children's Song Service conducted by Uncle Leo.  
 6.55: Relay of Thanksgiving Service from St. Mathew's Church (Preacher, Canon C. H. Grant-Cowen; Organist, Mr. J. H. Phillpot).  
 8.30: Rebroadcast of 2YA, Wellington (relay from Grand Opera House of concert by the Porth Nicholson Band under the conductorship of Mr. J. J. Drew).  
 9.30: Selected gramophone music.  
 9.45: Close down.

### 2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JULY 7.

- 3 p.m.: Relay from Town Hall of Special Citizens' Thanksgiving Service.  
 5.30: Children's Song Service conducted by Uncle George.  
 7.0: Relay of service from St. Thomas's Anglican Church, Wellington South (Preacher, Rev. C. V. Rooke; Organist and Choirmaster, Mr. W. E. Gatheridge).  
 8.15 (approx.): Relay from the Grand Opera House of recital by the Porth Nicholson Silver Band under the conductorship of Mr. J. J. Drew.  
 Close down.

### 3YA, CHRISTCHURCH (306 METRES)—SUNDAY, JULY 7.

- 3 p.m.: Relay of Thanksgiving Service from the Anglican Cathedral. Preacher Bishop West-Watson (clergy of all denominations will attend).  
 4.30: Close down.  
 5.30: Children's Song Service.  
 6.15: Hymn chimes from the studio.  
 6.30: Relay of evening service from Holy Trinity Church of England, Avon-side (Preacher, Rev. O. Fitzgerald; Organist and Musical Director, Mr. Arthur Lilly, A.R.C.O.).  
 7.45 (approx.): Contralto solos—Miss Vera Martin, (a) "Dawn" (Curran), (b) "Trees" (Rasbach).  
 7.51: Baritone solos—Mr. W. H. Inkster, (a) "The Blind Ploughman" (Clarke), (b) "On the Shores of the Aegean Sea" (Marsh Little).  
 7.58: Orchestral—Philadelphia Symphony Orchestra, "I Call Upon Thee, Jesus" (Bach) (H.M.V. Record D1464).  
 8.2: Contralto solo—Miss Vera Martin, "The Sands of Dee" (Clay).  
 8.6: Baritone solo—Mr. W. H. Inkster, "The Mighty Deep" (Jude).  
 8.10: Orchestral—San Francisco Symphony Orchestra, "Funeral March of the Marionette" (Gounod) (H.M.V. Record ED5).  
 8.15 (approx.): Rebroadcast of 2YA, Wellington (relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band under the conductorship of Captain T. Herd).  
 Close down.

### 4YA, DUNEDIN (463 METRES)—SUNDAY, JULY 7.

- 11 a.m.: Thanksgiving Service, relayed from St. Paul's Cathedral (the Mayor and Councillors will attend).  
 3 p.m.: Town Hall chimes.  
 3.1: Selected gramophone items.  
 4.30: Close down.  
 5.30: Children's song service conducted by Big Brother Bill.  
 6.30: Relay of evening service from First Church.  
 8.5: Relay from His Majesty's Theatre of concert by the St. Kilda Band under the conductorship of Mr. James Dixon.  
 9.15: Close down.

## Monday, July 8

### 1YA, AUCKLAND (333 METRES)—MONDAY, JULY 8.

SILENT DAY.

### 2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, JULY 8.

- 3 p.m.: Chimes of the G.P.O. clock.  
 3.1: Selected gramophone items.  
 3.40: Relay from Messrs. Kirkcaldie and Stains's Tea-rooms of music by the Trio.

- 4.0: Studio items.  
 4.30 and 4.55: Sports results to hand.  
 5.0: Children's session conducted by Uncle Jeff.  
 6.0: Dinner session:  
 Orchestral—Philadelphia Symphony Orchestra, "Dance of Death" (Saint-Saens) (H.M.V. Record D1121).  
 6.8: Tacet.  
 6.15: Soprano solo—Elisabeth Schumann, "Standchen" (Strauss) (H.M.V. Record DB1010).  
 Orchestral—Philadelphia Symphony Orchestra, "Casse Noisette" Suite (Tschalkowsky): (1) Overture Miniature and March; (2) Dance of the Sugar-Plum Fairy and Trepak (H.M.V. Record D1214).  
 6.27: Tacet.  
 6.30: Soprano solo—Margaret Sheridan, "E Questo?" (Look here, then) ("Madame Butterfly"—Puccini) (H.M.V. Record DB1084).  
 Orchestral—Philadelphia Symphony Orchestra, "Casse Noisette" Suite (Tschalkowsky): (1) Arab Dance; (2) Chinese Dance; (3) Dance of the Flutes (H.M.V. Record D1215).  
 6.42: Tacet.  
 6.45: Tenor solo—Tudor Davies, "Ah! Moon of My Delight" (Lehmann) (H.M.V. Record D1283).  
 6.49: Orchestral—Philadelphia Symphony Orchestra, "Casse Noisette" Suite (Tschalkowsky): Waltz of the Flowers (H.M.V. Record D1216).  
 6.57: Tacet.  
 7.0: News session, market reports and sports results.  
 7.40: Lecturette—Mr. R. R. Money (late Royal Air Force), "Empire Air Communications" and "World Air Communications."  
 8.0: Chimes of the G.P.O. clock.  
 8.1: Relay from King George Theatre, Lower Hutt, of the Hutt Valley Choral Society's first concert of the 1929 season (Conductor, Mr. E. A. F. Jenner, A.R.C.M.). (The Society will be assisted by the 2YA Orchestra.)  
 Overture—Orchestra, "Plymouth Hoe" (Ansell).  
 Choral—(a) "Diaphenia" (Stanford), (b) "Serenade" (Brahms), (c) "Phyllis" (Parry).  
 Soprano solo—Miss Ailsa Nicol, "Ah Fors e Lui" ("La Traviata"—Verdi).  
 Cantata (soloist, Miss Ailsa Nicol)—"The Banner of St. George" (Elgar).  
 Violin solo with orchestral accompaniment (soloist, Mr. Bennett)—"Romanza Andalus" (Sarasate).  
 Weather report.  
 Selection—Orchestra, "Brahmsiana" (arr. Langey).  
 Part songs—(a) "Come, Dorothy, Come" (Trdtl.); (b) "Banks of Doon" (arrgd. Robertson); (c) "John Grumlie" (arrgd. Robertson).  
 Violin solo with orchestral accompaniment (soloist, Mr. Bennett)—"Nocturne in E Flat" (Chopin).  
 Part-songs—(a) "The Fairies Were Tripping" (Douglas Tayler); (b) "Moonlight" (Eaton Fanning); (c); "Song of the Pedlar" (Lee Williams).  
 Soprano solo—Miss Ailsa Nicol, "On Wings of Song" (Mendelssohn).  
 Choral—"Songs of Bavarian Highlands" (Elgar).  
 Close down.

### 3YA, CHRISTCHURCH (306 METRES)—MONDAY, JULY 8.

- 3 p.m.: Afternoon session—Selected studio items.  
 4.25: Sports results to hand.  
 4.30: Close down.  
 6.0: Children's session conducted by "Scatterjoy."  
 7.0: News session.  
 7.15: Talk—Mr. E. J. Bell, "Book Review."  
 8.0: Chimes.  
 Studio concert by the Woolston Brass Band under the conductorship of Mr. R. J. Estall, and assisting artists:  
 8.1: March—Band, "Rock Lea" (Rimmer).  
 Overture—Band, "If I Were King" (Adams).  
 8.14: Soprano solo—Mrs. L. B. Salkeld, "The Market" (Carew).  
 8.18: Male voices—Salon Group, "Sunny Boy" (Jolson) (H.M.V. Record EB35).  
 8.22: Instrumental—Christchurch Broadcasting Trio, "Trio, Op. 352—Allegro, Moderato, Andantino, and Rondo" (Bohm).  
 8.32: Baritone solos—Mr. Sydney Armstrong, (a) "The Songs I Sing to You" (Willeby), (b) "Little Town in the Old Country Down" (Sanders).  
 8.39: Polacca for two cornets (with band accompaniment)—Bandsmen Ohlsen and Annand, "Two Julets" (Ord Hume).  
 8.45: Contralto solo—Miss Marian Woodhouse, "Oh, for a Burst of Song" (Allitsen).  
 8.49: Selection—Band, "Rigoletto" (Verdi).  
 9.1: Weather report.



# Week-all Stations-to July 14

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- 9.6: Vocal with guitar—Harry McClintock, "The Big Rock Candy Mountains" (McClintock) (Zonophone Record EE125).  
Comedian—Will Fyffe, "I'm 94 To-day" (Fyffe) (Columbia Record 9108).  
9.14: Soprano solos—Mrs. L. B. Salkeld, (a) "Wind Flowers" (Farley), (b) "Happy Times" (Mana Zucca).  
9.20: Euphonium solo with band accompaniment—Bandsman Anderson, "Yeoman's Wedding Song" (Poniatowski).  
9.25: Baritone solo—Mr. Sydney Armstrong, "The Garden of Your Heart" (Dorel).  
9.29: Male chorus—"War Songs" (H.M.V. Record EB25).  
9.33: Instrumental—Christchurch Broadcasting Trio, (a) "Gavotte" (Sinding), (b) "Minuet in G" (Beethoven), (c) "Serenade" (Chaminade).  
9.43: Contralto solos—Miss Marian Woodhouse, (a) "Oh, Men from the Fields" (Hughes), (b) "'Twas in the Land" (Chaminade).  
9.50: Foxtrot—Band, "Glad Rag Doll" (Yellen).  
March—Band, "Merry Maids" (Pearson).  
10.0: Close down.

## 4YA, DUNEDIN (463 METRES)—MONDAY, JULY 8.

- 3 p.m.: Town Hall chimes.  
3.1: Selected gramophone items.  
4.25: Sporting results to hand.  
4.30: Close down.  
6.0: Town Hall chimes.  
6.1: Children's hour conducted by Uncle Allan.  
7.0: News session.  
8.0: Town Hall chimes.  
8.1: Overture—Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen) (Columbia Record 02622).  
8.5: Presentation of "Our Miss Gibbs" (Monckton) by the Majors Quartet under the direction of Mr. T. J. Kirk-Burnand.

### Cast:

Soprano ..... Miss Freda Elmes  
Contralto ..... Miss Dorothy Skinner  
Tenor ..... Mr. J. Montague  
Baritone ..... Mr. L. M. Cachemaille

### Act 1.

- Opening Duet—Soprano and Contralto.  
Baritone Solo—"My Yorkshire Lassie."  
Soprano and Contralto Duet—"Chorus of Bridesmaids."  
Contralto Solo and Chorus—"Hats."  
Piano Symphony.  
Soprano Solo—"Romance."  
Chorus of Dudes—"Correct."  
Piano Symphony.  
Solo and Chorus of Dudes—"Mary."  
Piano Symphony.  
Tenor Solo and Chorus—"Hughie."  
Piano Symphony.  
Duet, Soprano and Baritone—"Not that Sort of Person."  
Piano Symphony—Dance.  
Finale of Act 1—Quartet.

### Act 2.

- Introduction—Pianoforte.  
Opening Chorus and Entrance of Irish Girls.  
Duet—"Irish Girls."  
Piano Solo—Dance.  
Soprano Solo—"In Yorkshire."  
Duet and Chorus—Contralto and Tenor, "Arms and the Man."  
Piano Solo—"Dance de Ballet."  
Solo—Soprano and Chorus, "Moonstruck."  
Finale Act 2—Chorus, "Country Cousins."  
8.55: Instrumental—4YA Broadcasting Trio, "Carmen" Selection (Bizet).  
9.1: Weather report and announcements.  
9.3: Orchestral—Percival Mackey's Band, "Vagabond King" (Friml) (Columbia Record 02707).  
9.7: Cello solo—Mr. P. J. Palmer, "Sonata in G Minor" (Eccles).  
9.12: Humorous—Will Kings, "Bertram Addresses His Tenants" (Rutherford) (H.M.V. Record C1340).  
9.15: Recital—Miss Joyce Hould, "Juliet and the Nurse" (from "Romeo and Juliet"—Shakespeare).  
9.25: Tenor solo—Mr. J. Montague, "The River Running By" (Hopkins).  
9.29: Piano solo—Mrs. Ernest Drake, "Ballade in A Flat" (Chopin).  
9.35: Humour—Will Kings, "Bertram at the Rotary Dinner" (H.M.V. Record C1340).  
9.39: Contralto solo—Miss Dorothy Skinner, "The Miller's Song" (Schubert).

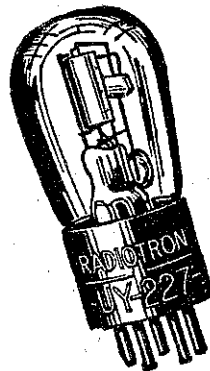
- 9.43: Instrumental—4YA, Broadcasting Trio, "Daughter of the Regiment" (Donizetti).  
9.49: Recital—Miss Joyce Hould, "Hamlet" (Act 3, Scene 1), "Good My Lord—see what I see" (Shakespeare).  
9.56: Violin solo—Miss Eva Judd, "Chant" (Kreisler).  
10.0: Orchestral—Percival Mackey's Band, "Vagabond King" (Friml) (Columbia Record 02707).  
10.4: Close down.

## Tuesday, July 9

### 1YA, AUCKLAND (333 METRES)—TUESDAY, JULY 9.

- 3 p.m.: Afternoon session—Selected studio items.  
4.0: Literary selection by the announcer.  
4.8: Further studio items.  
4.25: Sports results to hand.  
4.30: Close down.  
6.0: Children's session, conducted by Uncle George.  
7.0: News and information.  
7.15: Talk—Mr. George Campbell, "Motoring."  
7.30: Market reports and book review.  
8.0: Chimes.  
8.1: Relay of orchestral overture from Majestic Theatre.  
8.11: Soprano—Miss Rita McCully, "Some Day Waiting Will End" ("Kissing Time"), (Caryll).  
8.15: Band—Royal Guards' Band, "The Merry Widow" (Lehar) (Columbia 117).  
8.19: Poem with music—Mrs. Culford Bell, "French-Canadian poem, "De Bell of San Michel" (Dr. Henry Drummond).  
8.24: Instrumental—Studio Trio, Suite, "From the Samoan Isles" (Geehl).  
8.34: Bass—Mr. Frank Sutherland, (a) "If I Were" (Richards); (b) "The Song of the Clock" (Burchell).  
8.42: Orchestral—New Queen's Hall Light Orchestra, "Madame Butterfly" Selection (Columbia 02563).  
8.50: Contralto—Miss Gwenyth Evans, "Here's to Love" ("The Sunshine Girl"), (Rubens).  
8.55: Relay of entr'acte from Majestic Theatre.  
9.5: Evening forecast and announcements.  
9.8: Soprano—Miss R. McCully, (a) "My Own Wee House" (Old Scotch); (b) "Be Kind to Old Grannie."  
9.15: Violin solo—Miss Ina Bosworth, "Spanish Dance" (Granados).

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WELLINGTON.

- 9.20: Recital—Mrs. Culford Bell, "The Last Lesson" (Alphonse Daudet).  
 9.29: Tenor—Francesca Merli, "Brindisi" ("Cavalleria Rusticana") (Columbia 04038).  
 9.33: Contralto—Miss G. Evans, (a) "Love's Own Kiss" (Silesu); (b) "A Glance" (Boanas).  
 9.41: Instrumental—Studio Trio, Second Selection "Lilac Time" (Schubert).  
 9.49: Baritone—Mr. Frank Sutherland, "The Fishermen of England" (Phillips).  
 9.54: Band—National Military Band, selection, "La Traviata" (Verdi) (Columbia 9014).  
 10.2: God Save the King.

## 2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, JULY 9.

- 3 p.m.: Chimes of G.P.O. clock.  
 3.1: Selected studio items.  
 4.30 and 4.50: Sporting results to hand.  
 5.0: Children's session, conducted by Uncle Jim.  
 6.0: Dinner session:  
 Dance orchestra—The Troubadours, (a) "Beautiful Heaven"; (b) "The Swallow" (H.M.V. Record EA349).  
 Tenor solo—Jno. McCormack, "The Far Away Bells" (Gordon) (H.M.V. Record DA914).  
 6.9: Tacet.  
 6.15: Baritone solo—Lawrence Tibbett, "Believe Me, If All Those Endearing Young Charms" (Moore) (H.M.V. Record DA886).  
 Orchestral—New Light Symphony Orchestra, (a) "Barcarolle" (Offenbach); (b) "Cavalleria Rusticana" (Mascagni) (H.M.V. Record B2377).  
 6.26: Tacet.  
 6.30: Dance orchestra—The Troubadours, "When Love Comes Stealing" (Rapee) (H.M.V. Record EA410).  
 Orchestral—Salon Orchestra, "Aloha Sunset Land" (Kawelo) (H.M.V. Record B2581).  
 Orchestral—International Concert Orchestra, "The Waltz Dream" (Strauss) (Zonophone Record EF18).  
 6.39: Tacet.  
 6.45: Male voices—The Revellers, "Was It a Dream?" (Coslow) (H.M.V. Record EA402).  
 Bass-baritone solo—Peter Dawson, "Lorraine, Lorraine, Loree" (Capel) (H.M.V. Record B2759).  
 Jazz—Arcadians Dance Orchestra, (a) "Bluebird, Sing Me a Song" (Davis) (Zonophone Record 5201); (b) "Nicolette" (Batten).  
 7.0: News session, market reports and sports results.  
 7.40: Lecturette—Representative Agricultural Department, "For the Man on the Land."  
 8.0: Chimes of the G.P.O. clock.  
 8.1: Overture—Orchestra, "Martial Moments" (arrgd. Winter).  
 8.9: Soprano solo—Miss Gretta Stark, "The Mirror Song" ("Last Waltz") (Strauss).  
 8.13: Wurlitzer organ solos—Leslie Harvey, (a) "Absent" (Metcalfe); (b) "Until" (Sanderson).  
 8.19: Humorous sketch—Two Boiled Owls, "Station 2 Owl" (original).  
 8.26: Tenor solo—Mr. G. Austin Blackie, "A Spirit Flower" (Tipton).  
 8.30: Cornet and trombone duet with orchestral accompaniment—Messrs. W. Sneddon and Harold Oakes, "Watchman, What of the Night" (Sargent).  
 8.36: Popular songs—Mr. Edward Silver, (a) "All By Yourself in the Moonlight" (by request) (Wallis); (b) "In a Woodshed."  
 8.41: Flute quartet—London Flute Quartet, "Scotch and Irish Airs" (arrgd. Stainer) (Columbia Record 4155).  
 8.45: Soprano solos—Miss Gretta Stark, (a) "Love Will Find a Way" ("Maid of the Mountains"); (b) "My Life is Love" ("Maid of the Mountains") (Fraser Simpson).  
 8.52: Instrumental—Orchestra, repeat number.  
 9.0: Weather report.  
 9.2: Tenor solo—Mr. G. Austin Blackie, "Bird Songs at Eventide" (Coates).  
 9.6: Piano and vocal—Two Boiled Owls, (a) "Russian Lullaby" (Berlin); (b) "Jest Her Way" (Aitken).  
 9.14: Popular songs—Mr. Edward Silver, (a) "Mississippi Mud" (Barris); (b) "Lila."  
 9.21: Instrumental—Orchestra, "Petit Rhapsodie" (Russe).  
 9.30: "His Master's Voice" Dance Programme:  
 Foxtrot with vocal refrain—Aaronson's Commanders, "My Scandinavian Gal" (Tobias) (H.M.V. EA460).  
 Foxtrot with vocal refrain—Shilkret's Orchestra, "My Tonia" (de Sylva) (H.M.V. EA478).  
 Foxtrot with vocal refrain—Hamp's Kentucky Serenaders, "What D'Ya Say?" (Brown) (H.M.V. EA460).  
 9.40: Tenor solo—Franklyn Baur, "Marie" (Berlin) (Zonophone EE135).  
 Waltz with vocal refrain—The Troubadours, "Live and Love" (Klages) (H.M.V. EA478).  
 Wurlitzer organ solo—Jesse Crawford, "Me and the Man in the Moon" (Leslie) (H.M.V. EA491).  
 Foxtrot with vocal refrain—Shilkret's Orchestra, "I Still Keep Dreaming of You" (Davis) (H.M.V. EA461).  
 9.53: Bass and chorus—Paul Robeson, "Plantation Songs" (H.M.V. C1585).  
 Hawaiian—Kolomoku's Honoluluans, "Aloha-oe" (Lihoukalani) (Zonophone EF23).  
 Foxtrot with vocal refrain—Shilkret's Orchestra, "Cross Roads" (Klages) (H.M.V. EA461).

- Hawaiian—Kolomoku's Honoluluans, "Three O'Clock in the Morning" (Robledo) (Zonophone EF23).  
 10.6: Tenor solo—Franklyn Baur, "Cross Roads" (Klages) (Zonophone EE135).  
 Orchestral—London Orchestra, "On With the Show" (Nicholls) (Zonophone 5137).  
 Wurlitzer organ solo—Reginald Foort, "Worryin'" (Fairman) (H.M.V. EA491).  
 10.19: Tenor solos—Walter Glynne, (a) "Jeunesse" (Barry); (b) "I Love the Moon" (Rubens) (H.M.V. B2761).  
 Foxtrot—Rhythm Band, "There are Eyes" (Keyes) (H.M.V. EA469).  
 Foxtrot with vocal refrain—Rhythmic Eight, "Saskatchewan" (Gilbert) (Zonophone EE126).  
 Foxtrot with vocal refrain—New Mayfair Dance Orchestra, "Why is the Bacon so Tough?" (Prentice) (H.M.V. EA469).  
 10.35: Male quartet—Masters Lough and Mallett and Messrs. Dixon and Hastwell, "Drink to Me Only with Thine Eyes" (arrgd. Ball) (H.M.V. B2770).  
 Saxophone duet—Rudy Wiedoeft and Arnold Brilhart, "The Swallow" (Zonophone EE129).  
 Foxtrot with vocal refrain—Aaronson's Commanders, "I'll Get By as Long as I Have You" (Turk) (H.M.V. EA460).  
 Waltz with vocal refrain—The Troubadours, "Dolores" (Grossmün) (H.M.V. EA477).  
 10.48: Accordion with banjo—P. Frosini, "Silver Moon" Waltz (Frosini) (Zonophone EE129).  
 Foxtrot with vocal refrain—The Troubadours, "Love Dreams" (Harris) (H.M.V. EA475).  
 Foxtrot with vocal refrain—Geo. Olsen's Music, "Sonny Boy" (Jolson) (H.M.V. EA441).  
 11.0: God Save the King.

## 3YA, CHRISTCHURCH (306 METRES)—TUESDAY, JULY 9.

SILENT DAY.

## 4YA, DUNEDIN (463 METRES)—TUESDAY, JULY 9.

- 3 p.m.: Town Hall chimes.  
 3.1: Relay of instrumental music from the Ritz.  
 4.25: Sports results to hand.  
 4.30: Close down.  
 6.0: Children's session, conducted by Big Brother Bill.  
 7.0: News session.  
 7.30: Lecturette—Mr. F. S. Turner, M.Sc. (under the auspices of the Workers' Educational Association)—"Geology and Evolution."  
 8.0: Town Hall chimes.  
 Studio concert by the St. Kilda Band, under the conductorship of Mr. James Dixon, and assisting artists.  
 8.1: March—Band, "Rubinstein" (Bidgood).  
 8.6: Soprano solos—Mrs. Herbert Burrow, (a) "Sing, Joyous Bird" (Phillips); (b) "Mignon" (D'Hardelot).  
 8.13: Overture—Band, "Tancredi" (Rossini).  
 8.23: Cinema organ solos—Chas. W. Saxby, (a) "Spring Song" (Mendelssohn); (b) "Bees' Wedding" (Mendelssohn) (Zonophone Record A338).  
 8.27: Recitals—Miss Beryl Cooper, (a) "Marguerite" (Whittier); (b) "Ellen McJones Aberdeen" (Gilbert).  
 8.34: Chorus with orchestra—Sullivan Light Opera Company, Vocal Gems from "The Mikado" (Sullivan) (H.M.V. Record EB5).  
 8.42: Intermezzo—Band, "Just a Memory" (Marsden).  
 8.50: Novelty—Nightingales and church bells, "Summer Night Idyll" (H.M.V. Record B2853).  
 8.53: Baritone solos—Mr. A. G. Cooke, (a) "Nirvana" (Adams); (b) "When You are There" (Tate).  
 9.1: Weather report.  
 9.3: Euphonium solo—Mr. C. Miller, "Up From Somerset" (Sanderson).  
 9.10: Male chorus—"Over There" Medley (H.M.V. Record EB33).  
 9.13: Selection—Band, "Oberon" (Weber).  
 9.25: Soprano solo—Mrs. Herbert Burrow, "By the Waters of Minnetonka" (Lieurance).  
 9.29: Medley waltz—The Troubadours, "Popular Songs of Yesterday" (H.M.V. Record EB33).  
 9.33: Recital—Miss Beryl Cooper, "The Complete Kitchen" (Milne).  
 9.40: Male chorus—The Revellers, (a) "Mammy is Gone" (de Sylva); (b) "Dream River" (Brown) (H.M.V. Record B2646).  
 9.46: Waltz—Band, "Dream of Delight" (Nicholls).  
 9.52: Baritone solo—Mr. A. G. Cooke, "Mate o' Mine" (Elliott).  
 9.56: March—Band, "Swinging Along" (Hawkins).  
 10.0: Close down.

## Wednesday, July 10

### 1YA, AUCKLAND (333 METRES)—WEDNESDAY, JULY 10.

- 3 p.m.: Afternoon session—Selected studio items.  
 4.0: Literary selection by the announcer.  
 4.8: Further studio items.  
 4.25: Sports results to hand.  
 6.0: Children's session, conducted by Uncle Tom.  
 7.0: News and market reports.  
 7.40: Talk—Madame Mabel Milne, "Health Foods and Diet."

- 8.0: Chimes.  
Special presentation of Jubilee Songs and Negro Spirituals by Mrs. Daisy Basham and The Lyric Quartet.
- 8.1: Overture—H.M. Coldstream Guards, "Poet and Peasant" (Suppe) (H.M.V. Record C1315).
- 8.9: Lecture-Recital—Mrs. Daisy Basham and The Lyric Quartet, "Negro Spirituals and Jubilee Songs," Part 1.
- 8.39: Piano—Mr. Eric Maxwell, (a) "Pierrot Reveur" (Schott); (b) "Caprice—Sganarelle" (Lengnick).
- 8.47: 'Cello solos—W. H. Squire, (a) "Silver Threads Among the Gold" (Danks); (b) "Melody in F" (Rubenstein) (Columbia Record 04178).
- 8.55: Weather report.
- 8.58: Humour—Mr. Leonard J. Cronin, "Humours of Parliament."
- 9.14: Band selections—Black Diamonds Band, (a) "Funeral March of a Marionette" (Gounod); (b) "Punjab March" (Payne) (Zonophone Record 2793).
- 9.22: Lecture-Recital—Mrs. D. Basham and The Lyric Quartet, "Negro Spirituals and Jubilee Songs," Part 2.
- 9.32: Piano—Mr. Eric Maxwell, "Impromptu in B Flat" (Schubert).
- 9.5: Novelty—National Military Band, "Weymouth Chimes" (Hare) (Zonophone Record 5119).
- 10.0: Close down.
- This programme will be twice interrupted to allow for relay of items from the rehearsal of the Bohemian Orchestra.

### 2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, JULY 10.

- 12 noon: Results of Wellington Racing Club's winter meeting (second day), interspersed with gramophone items.
- 4.30: Re-broadcast of description of First Test Match—New Zealand v. New South Wales.

### 3YA, CHRISTCHURCH (306 METRES)—WEDNESDAY, JULY 10

- 3.0 p.m.: Afternoon session—selected gramophone items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Children's session, conducted by Mother Hubbard and Uncle Frank.
- 7.0: News session.
- 7.30: Addington Stock Market reports.
- 8.0: Chimes.
- 8.1: Overture—Studio Orchestra under the conductorship of Mr. Harold Beck, "Tout Vienna" Valse (Strauss)
- 8.9: Soprano solo—Miss Corrie Aslin, "Ave Maria" (Mascheroni) (with violin solo by Miss Irene Morris).
- 8.12: Vocal quartet—Salon Quartet, "A Regular Royal Queen" ("The Gondoliers") (Sullivan).
- 8.15: Pianoforte solo—Ethel Leginska, "Moment Musical—Moderato in C—Andante in A Flat" (Schubert) (Columbia Records 01317-8).
- 8.24: Tenor solo—Mr. H. Blakeley, "Take a Pair of Sparkling Eyes" (Sullivan).
- 8.28: Violin solo—Fritz Kreisler, "Romance in A Major" (Schaumann-Kreisler) (H.M.V. Record DB1122).
- 8.32: Violin solo—Miss Dulcie Mitchell, "The Dreary Steppe" (Gretchaniv).
- 8.36: Recitals—Miss Winifred Smith, (a) "Castles in the Air" (MS), (b) "The Pathway of Gold" (MS).
- 8.41: Baritone solo—Mr. J. Graham Young, "You in a Gondola" (Coningsby Clarke).
- 8.45: Solo and chorus—Zonophone Light Opera Company, vocal gems from "H.M.S. Pinafore" (Sullivan) (Zonophone Record A317).
- 8.53: Soprano solo—Miss Corrie Aslin, "Spring Dropped a Song Into My Heart" (Lennis).
- Tenor and baritone duet—Salvator Duo, "The Moon Hath Raised Her Lamp Above" (Lily of Killarney) (Benedict).
- 9.1: Weather report.
- 9.6: Orchestral—Orchestral, Studio Orchestra, (a) "Drink To Me Only With Thine Eyes" (Arrgd. Quilter), (b) "Waltz No. 1" (for Strings) (Scott).
- 9.14: Tenor solo—Mr. H. Blakeley, "Ah, Though The Silver Moon Were Mine" (Lohr).
- 9.18: One-step, Debroy Somers' Band, "American Medley" (Arrgd. Somers) (Columbia 02698).
- 9.22: Contralto solo—Miss Dulcie Mitchell, "My Ain Folk" (Lemon).
- 9.26: Orchestral—Studio Orchestra, (a) "Intermezzo-Cavalleria Rusticana" (Mascagni), (b) "Marche Militaire" (Schubert).
- 9.34: Soprano and contralto duet—Salonelle Duo, "Barcarolle" ("Tales of Hoffmann") (Offenbach).
- 9.38: Grand organ and cornet—Arnold Grier, "Softly Awakes My Heart" (Saint-Saens) (Zonophone Record A309).
- 9.42: Recitals—Miss Winifred Smith, (a) "The Song of the Market Place" (MS), (b) "Old Pierrot" (Levey).
- 9.50: Baritone solo—Mr. J. Graham Young, "Bedouin Love Song" (Pinsuti).
- 9.54: March medley—H.M. Grenadier Guards Band, "Martial Moments" (Arrgd. Winter) (Columbia Record 9065).
- 10.2: Close down.

### 4YA, DUNEDIN (463 METRES)—WEDNESDAY, JULY 10.

- 3 p.m.: Town Hall chimes.
- 3.1: Selected gramophone items.
- 4.25: Sports results to hand.

- 4.30: Close down.
- 6.0: Children's session, conducted by Aunt Anita.
- 7.0: News session.
- 8.0: Town Hall chimes.
- 8.1: Overture—Sousa's Band, "High School Cadets" (Sousa), (H.M.V. Record EA43).
- 8.5: Soprano solos—Miss Florence Sumner, (a) "I Am Longing For You" (Marshall), (b) "My Gentle Child" (Del Riego).
- 8.12: Relay from Ritz of novelty orchestra interlude.
- 8.27: Debate—Messrs. R. Thompson, P. Nash, J. McGowan and F. Moloney (of the Dunedin Debating and Social Club), subject: "That Woman Has More Than Come Into Her Own."
- 9.2: Weather report.
- 9.4: Tenor solos—Mr. John Kennedy, (a) "I Heard You Singing" (Coates), (b) "Duna" (McMurrough).
- 9.11: Xylophone solo—Sam Herman, "Al Fresco" (Zonophone Record EE53).
- 9.14: Soprano solo—Miss Florence Sumner, "The Glorious Land of Spring" (Slater).
- 9.18: Saxophone solo—Rudy Wiedoft, "Rubenola" (Wiedoft), (Zonophone Record EE119).
- 9.21: Tenor solo—Mr. John Kennedy, "Youth" (Allitsen).
- 9.25: Relay from Ritz of novelty orchestral interlude.
- 9.35: Dance programme.
- 11.0: Close down.

## Thursday, July 11

### 1YA, AUCKLAND (333 METRES)—THURSDAY, JULY 11.

- 3 p.m.: Afternoon session—Relay of concert from Messrs. Lewis Eady's, Ltd.
- 3.30: Talk—Miss Edith Sutherland, "Home Handicrafts."
- 3.45: Further items by Messrs. Lewis Eady Ltd.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 6.0: Children's session, conducted by Peter Pan.
- 7.0: News and market reports.
- 7.40: Talk—Mr. N. M. Richmond, "Land Tenure and Settlement."
- 8.0: Chimes.
- 8.1: Presentation of novelty programme, "Scampering with the 'Radio Scamps.'"
- 9.30: Programme of dance music.
- 11.0: Close down.

### 2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, JULY 11.

- 12 noon: Results of Wellington Racing Club's Winter Meeting, interspersed with studio items.
- 5.0: Children's session, conducted by Uncle George.
- 6.0: Dinner session:  
Band—H.M. Coldstream Guards, "Colonel Bogey" (Alford) (H.M.V. Record B2408).

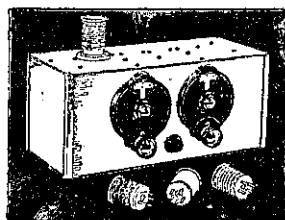
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- Bass-baritone solo—Peter Dawson, "Now Your Days of Philandering Are Over" ("The Marriage of Figaro") (Mozart) (H.M.V. Record C1401).  
 Chorus—The Revellers, Gems from "Tip Toes" (Gershwin) (H.M.V. Record C1293).
- 6.11: Tacet.  
 6.15: Band—H.M. Coldstream Guards, "H.M.S. Pinafore" selection, (Sullivan) (H.M.V. Record C1283).
- 6.23: Tacet.  
 6.30: Bass-baritone solo—Peter Dawson, "The Delaware's Farewell" (Capel) (H.M.V. Record B2759).  
 Dance orchestra—Nat Shilkret's Orchestra, "Till We Meet Again" (Egan) (H.M.V. Record EA412).  
 Band—National Military Band, "Christchurch Chimes" (Arrgd. Hare) (Zonophone Record 5119).
- 6.39: Tacet.  
 6.45: Tenor solo—Joseph Hislop, "Mary" (Richardson) (H.M.V. Record DA901).  
 Instrumental—Savoy Orpheans, "Hit the Deck" (Youmans) (H.M.V. Record C1408).
- 7.0: News session, market reports and sports results.  
 7.34: Lecturette by J. W. Fergie, Publicity Branch, N.Z. Railways: "Excursions by Rail."  
 8.0: Chimes of the G.P.O. clock.  
 Studio concert by the Band of the 1st Battalion Wellington Regiment, under the conductorship of Lieut. B. J. Shardlow, and assisting artists:
- 8.1: March—Band, "Grand Procession" (Hawkins).  
 Selection—Band, "A Day With Robbie Burns" (Hume).  
 8.17: Soprano solo—Mrs. Kingi Potiki, "Pokare Kare" (Hill).  
 8.21: Baritone solo—Mr. S. E. Rodger, "Song of the Waggoner" (Breville Smith).  
 8.25: Mandolin band—Circolo Mandolinistico Leghorn, (a) "Turn to Surri-ento" (de Curtis); (b) "Stephanie Gavotte" (Czibulka) (Columbia Record 01212).  
 8.31: Contralto solo—Miss Grace Robertson, "Home They Brought Her Warrior Dead" (Somerville).  
 8.35: Cornet solo with band accompaniment—Sergt. W. Barke, "Until" (Sanderson).  
 Foxtrot—Band, "Out of the Dawn" (Donaldson).  
 8.43: Humour—Mr. Daniel Barrie, "Schoolboy Howlers" (original).  
 8.50: Whistling solo—Sybil Sanderson, "Honeymoon Waltz" (Arden) (Columbia Record 3901).  
 8.54: Tenor solo—Mr. Will Hancock, "I Heard You Singing" (Coates).  
 8.58: Waltz—Band, "Syringa" (Gertrude Taylor).  
 9.4: Weather report.  
 9.6: Soprano solo—Mrs. Kingi Potiki, "Hine E Hine" (Princess Te Rangī Pahi).  
 9.10: Baritone solo—Mr. S. E. Rodger, "My Dreams" (Tosti).  
 9.13: Musical comedy selection—Band, "The Vagabond King" (Friml).  
 9.24: Contralto solos—Miss Grace Robertson, (a) "Jock O' Hazeldean"; (b) "An Eriskay Love Lilt" (Kennedy Fraser).  
 9.31: Humour—Mr. Daniel Barrie, "My Financial Career" (Leacock).  
 9.38: Intermezzo—Band, "Portia" ("Merchant of Venice") (Rosse).  
 9.41: Tenor solos—Mr. Will Hancock, (a) "Sweet Miss Mary" (Neidlinger); (b) "Rose of My Heart" (Logan).  
 9.50: Concerted—The Revellers, Gems from "Sunny" (Kern) (H.M.V. Record C1293).  
 9.54: Foxtrot—Band, "Me and the Man in the Moon" (Leslie).  
 March—Band, "Locano" (Wood).  
 10.2: Close down.

### 3YA, CHRISTCHURCH (306 METRES)—THURSDAY, JULY 11.

- 8.0 p.m.: Afternoon session (gramophone items—electrically reproduced).  
 4.25: Sports results to hand.  
 4.30: Close down.
- 6.0: Children's Hour, conducted by Uncle John.  
 7.0: News session.  
 8.0: Chimes.  
 8.1: Overture—Rebroadcast of 2YA, Wellington—Band of the 1st Battalion Wellington Regiment, (a) "Grand Procession" (March); (b) "A Day With Robbie Burns" (selection) (Hume).  
 8.17: Vocal Quartet—Melodious Four, "Awake, Awake" (Bantock).  
 Soprano solos—Miss Frances Hamerton, (a) "My Heart Is Like a Singing Bird" (Parry); (b) "The Blackbird" (Fritz Hart).  
 8.26: Pianoforte recital with introductory comments—Mr. Sydney Francis Hoben, (a) "Romance" (left hand only) (Rheinberger); (b) "Spinning Song" (from "The Flying Dutchman") (Wagner-Liszt).  
 8.42: Baritone solos—Mr. T. D. Williams, (a) "Kishmuls Galley" (Fraser); (b) "Skye Fishers' Song" (Frazer).  
 8.46: Instrumental Trios—Christchurch Broadcasting Trio, (a) "Allegro Maestoso" (Lalo); (b) "Scherzo" (Reissiger).  
 8.56: Soprano and Tenor Duet—Dolce Duo, (a) "Oh, Gentle Music" (Mendelssohn); (b) "Morning" (Mendelssohn).  
 9.0: Weather report.  
 9.5: String Quartet—Lerner String Quartet, "Andante Cantabile" (from Quartet in D) (Tchaikowsky) (Columbia Record L1803).  
 9.7: Orchestral—Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli) (Zonophone Record EF12).  
 9.13: Vocal Quartet—Melodious Four, (a) "Hunting of the Snail"; (b) "Lullaby"; (c) "Willie Winkle" (Davies Nursery Rhymes).

- 9.25: Tenor solo—Mr. Russell Sumner, "Eriskay Love Lilt" (Frazer).  
 Contralto and Bass Duet—Melodious Duo, "Still as the Night" (Bohm).  
 9.32: Cello solos—Mr. Harold Beck, (a) "Abenlied" (Schumann); (b) "Bouree" (Handel).  
 9.40: Soprano solo—Miss Frances Hamerton, "Child and the Twilight" (Parry).  
 9.44: Orchestral—Salon Orchestra, "Serenade" (Schubert) (H.M.V. Record EA358).  
 9.47: Tenor solo—Mr. Russell Sumner, "Barra Love Lilt" (Frazer).  
 9.51: Instrumental Trios—Christchurch Broadcasting Trio, (a) "Minuet" (Beethoven); (b) "Petite Bolero" (Ravina).  
 10.1: Bass solo—Mr. T. D. Williams, "Song of the Breakers" (Gordon).  
 10.7: Orchestral—Salon Orchestra, "Serenade" (Toselli) (H.M.V. Record EA358).  
 10.10: Contralto solo—Miss Belle Renaut, "The Asza" (Rubinstein).  
 10.13: Vocal quartet—Melodious Four, "Cradle Song" (Brahms).  
 10.17: Close down.

### 4YA, DUNEDIN (463 METRES)—THURSDAY, JULY 11. SILENT DAY.

## Friday, July 12

### 1YA, AUCKLAND (333 METRES)—FRIDAY, JULY 12.

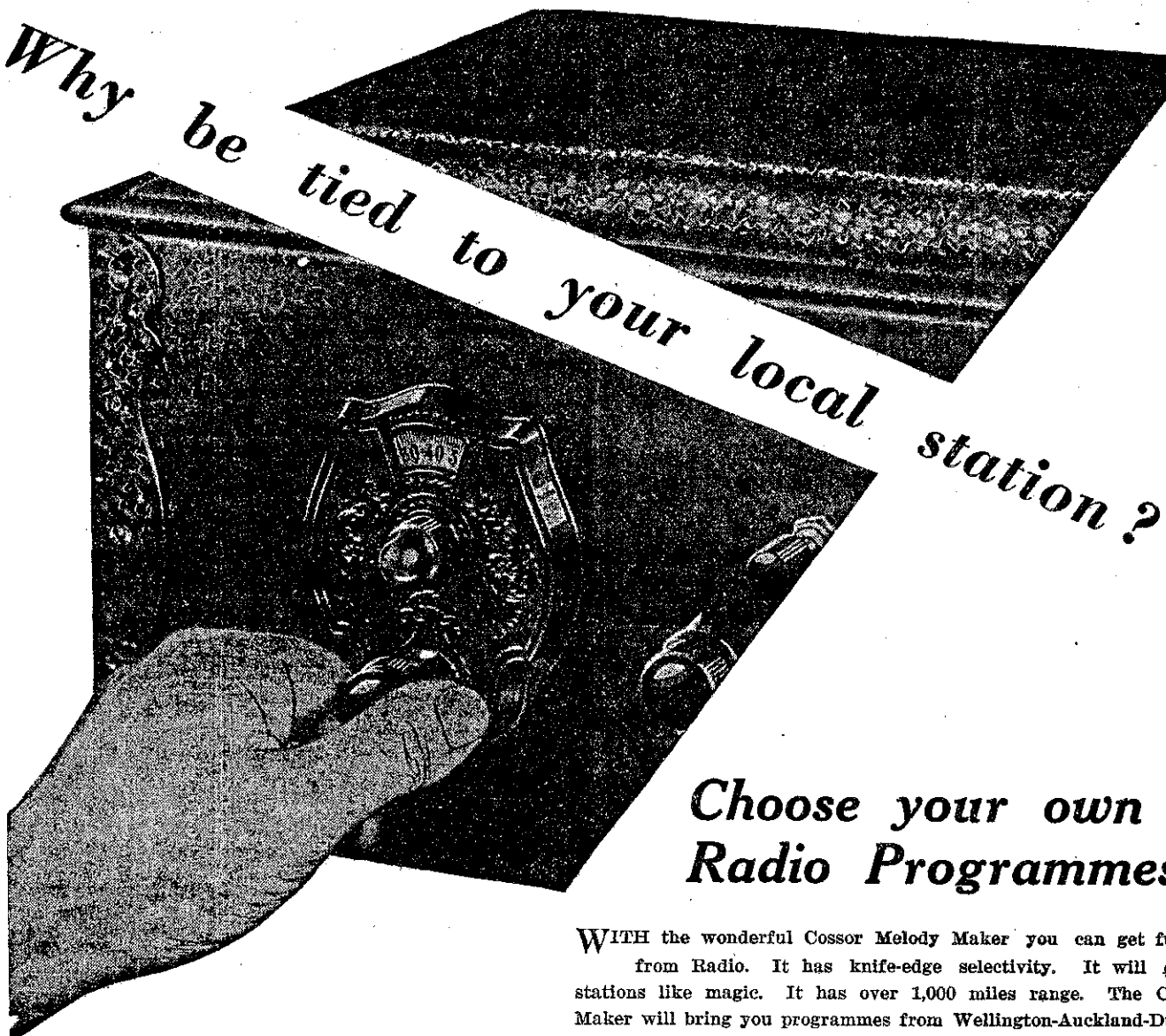
- 3 p.m.: Afternoon session—Selected studio items.  
 4.0: Literary selection by the announcer.  
 4.8: Further studio items.  
 4.25: Sports results to hand.  
 4.30: Close down.  
 6.0: Children's session, conducted by Nod and Aunt Jean.  
 7.0: Talk—Mr. Frank Sutherland, "Rugby Football."  
 7.15: News and information.  
 7.30: Market reports.  
 7.40: Talk—Mr. R. Howard-Taylor, "Care of the Feet."  
 8.0: Chimes.  
 8.1: Band—Regimental Band of H.M. Grenadier Guards, "Rienzi Overture" (Wagner) (Columbia 9086).  
 8.9: Contralto—Miss Irene Frost, (a) "My Dear Soul" (Sanderson); (b) "Break, Break, Break" (Carey).  
 8.16: Instrumental—Studio Trio, "Yorkshiredales—Suite of Three Pieces" (Schott).  
 8.25: Choral—Don Cossacks Choir, "Monotonously Rings the Little Bell" (Columbia 9085).  
 8.29: Organ and vocal—Mr. Arthur E. Wilson and Mr. L. North (baritone).  
 "Organ Works by American Composers," Part 1—(a) "Miniature Suite" (Rogers); (b) "Meditation in D Flat" (Cadman); baritone (c) "How Willing My Paternal Love (Handel); (d) "Massa's in de Cold, Cold Ground" (S. Foster), (arr. Lemare).  
 8.49: Soprano—Miss Mary Cofield, (a) "I Will Await Thee" (Desert Love Songs), (Clarke); (b) "Love's Rhapsody" (d'Hardelot).  
 8.56: Cello—Miss Mollie Wright, "Romance Sans Paroles" (Davidoff).  
 9.0: Evening forecast and announcements.  
 9.2: Baritone—Mr. L. North, "Duna" (McGill).  
 9.8: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."  
 9.21: Instrumental—Studio Trio, Biblical Tone Poem, "La Deluge" (Saint-Saens).  
 9.29: Contralto—Miss I. Frost, "Sink Red Sun" (Del Riego).  
 9.33: Organ and vocal—Mr. A. E. Wilson and Mr. L. North, "Organ Works by American Composers," Part 2—(a) "Caprice Poetique" (Diggie); (b) "The Squirrel" (Weaver); (c) "A Perfect Day" (Bond); baritone, (d) "Pageant" (Johnston).  
 9.53: Soprano—Miss M. Cofield, "Fairy Tales of Ireland" (Coates).  
 9.57: Orchestral—Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen) (Columbia 02622).  
 10.1: God Save the King.

### 2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, JULY 12.

- 3 p.m.: Chimes of the G.P.O. clock.  
 3.1: Selected studio items.  
 3.40: Relay from Messrs. Kirkcaldie and Stains' Tea Rooms, of music by the Trio.  
 4.0: Studio items.  
 4.30 and 4.55: Sports results to hand.  
 5.0: Children's session, conducted by Big Brother Jack.  
 6.0: Dinner session:  
 Orchestral—Royal Opera Orchestra, "Faust Ballet Music" (Gounod), (1st, 3rd, and 4th Movements) (H.M.V. Record C1462).  
 Vocal solo—Theodor Chaliapin, "The Calf of Gold" (H.M.V. Record DA554).  
 6.11: Tacet.  
 6.15: Orchestral—Royal Opera Orchestra, "Faust Ballet Music" (Gounod), (5th, 6th, and 7th Movements) (H.M.V. Record C1463).  
 Chorus and orchestra—Symphony Orchestra, "Kermesse Scene" (Gounod) (H.M.V. Record D1047).  
 6.27: Tacet.  
 6.30: Vocal solo—Dame Nellie Melba, "Jewel Song" ("Faust") (Gounod) (H.M.V. Record DB361).



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- 6.38: Orchestral—Marek Weber's Orchestra, "Faust" Selection (Gounod) (H.M.V. Record C1511).
- 6.42: Tacet.
- 6.45: Vocal duet—Chaliapin and Austral, "Seigneur, Daignes Permettre" (Church Scene) ("Faust") (Gounod) (H.M.V. Record DB899).
- Orchestral—Marek Weber's Orchestra, "Faust" Selection (Weber) (H.M.V. Record C1511).
- 7.0: News session, market reports, and sports results.
- 7.40: Lecturette—Mr. Dan McKenzie, "The Laws of Rugby."
- 8.0: Chimes of the G.P.O. clock.
- 8.1: Overture—Orchestra, "Marriage of Figaro" (Mozart).
- 8.9: Soprano solo—Miss Ena Rapley, "Are My Lanterns Shining?" ("The Rebel Maid") (Phillips).
- 8.13: Baritone solo—Mr. Arthur Brady, "The Merriest Fellows are We" ("The Gondoliers") (Sullivan).
- 8.17: Pianoforte solos—Miss Pauline Rodgers, (a) "Sonata, Op. 31, No. 3—1st Movement" (Beethoven); (b) "Minuet" (Paderewski).
- 8.27: Tenor solo—Mr. Edwin Dennis, "Salve Dinora" ("Faust") (Gounod).
- 8.31: Instrumental selection—Orchestra, "La Boheme" (Puccini).
- 8.39: Humorous sketch—Mrs. E. Carte and Miss Rose Carte, "Making Up One's Mind" (Jerome).
- 8.46: Contralto solo—Miss Madge Freeman, "Tony from America" ("The Quaker Girl") (Monckton).
- 8.50: Vocal duet—Miss Ena Rapley and Mr. Edwin Dennis, "Come to Arcady" ("Merrie England") (German).
- 9.54: Selection—Orchestra, "Bohemian Girl" (Balfe).
- 9.2: Weather report.
- 9.4: Vocal quartette—Philharmonic Quartet, "Drink to Me Only" (arrgd. (Sawyer)).
- 9.8: Soprano solo—Miss Ena Rapley, "Absent" (Metcalf).
- 9.12: Instrumental—Orchestra, (a) "Piccolo Piccolo" (Strauss); (b) "Dance of the Tumblers" (Rimsky-Korsakov).
- 9.19: Humorous sketch—Mrs. E. Carte and Miss Rose Carte, "Saving Samuel" (Holmes).
- 9.26: Vocal duet—Miss Madge Freeman and Mr. Edwin Dennis, "The Golden Song" ("Lilac Time") (Schubert-Clutsam).
- 9.30: Baritone solo—Mr. Arthur Brady, "Off to Philadelphia" (Adams).
- 9.34: Military Band—(a) H.M. Grenadier Guards, "Wine, Women, and Song" Waltz (Strauss) (Columbia Record 9029); (b) H.M. Royal Air Force Band, "Gondolier and Nightingale" (Langey) (H.M.V. Record C1244).
- 9.42: Tenor solo—Mr. Edwin Dennis, "Serenata" (Toselli).
- 9.46: Contralto solo—Miss Madge Freeman, "Golden Dawn" (Lohr).
- 9.50: Ballet music—Orchestra, "William Tell" Ballet Music (Rossini, arrgd. Godfrey).
- 10.0: Close down.

### 3YA, CHRISTCHURCH (306 METRES).—FRIDAY, JULY 12.

8 p.m.: Afternoon session—selected gramophone items.

4.25: Sports results to hand.

4.30: Close down.

6.0: Children's session, conducted by "Storyman."

7.0: News session.

7.30: Talk.

8.0: Relay from Temuka of Children's Choir Festival:

Children's Massed Choir Singing—one choir of girls, and the other of boys—over 150 voices drawn from the following schools:—Temuka, St. Joseph's, Geraldine, Pleasant Point, Orari, Milford, Orari Bridge, "Mrs. De Renzy's, Winchester," and Arowhenua Native School.

#### PROGRAMME.

- 1.—Opening Remarks ..... Mr. B. Hughes
- 2.—Boys' Massed Choir—
  - (a) "The Captain and the Frenchman."
  - (b) "Who is Sylvia?"
- 3.—Girls' Massed Choir—
  - (a) "You'll Get There."
  - (b) "When Icicles Hang by the Wall."
 (The Massed Choirs will be accompanied by the Orchestra.)
- 4.—The Orchestra.

#### INTERVAL.

- 5.—Orari School: "In Derry Vale" ..... Irish Folk Song
- 6.—St. Joseph's School.
- 7.—Milford School: "The Keeper." ..... Warwickshire Folk Song
- 8.—Arowhenua Native School: "New Zealand Anthem."
- 9.—Violin Solo ..... Mr. Inglis W. Todd, L.A.B.
- 10.—Pleasant Point School: "Larboard Watch."
- 11.—Mrs. De Renzy's Choir: "Slow, Horses, Slow."
- 12.—Orari Union Four: "Drink to Me only with Thine Eyes."
- 13.—Milford School: "The Keys of Canterbury." .... Somerset Folk Song
- 14.—Folk Songs and Chanties ..... Mr. T. Vernon Griffiths, Mus. Bac.
- 11.0: Close down.

### 4YA, DUNEDIN (463 METRES).—FRIDAY, JULY 12.

3 p.m.: Town Hall chimes.

3.1: Selected gramophone items.

4.25: Sports results to hand.

4.30: Close down.

6.0: Town Hall chimes.

6.1: Children's session, conducted by Aunt Sheila and Big Brother Bill.

7.0: News session.

7.30: Lecturette—Mr. H. Greenwood, Book Review.

8.1: Overture—Berlin State Opera Orchestra, "The Beautiful Galathea" (Suppe). (H.M.V. Record C1527).

8.9: Contralto solos—Miss Helen Roy, (a) "O Wonderful Mystery of Love" (Liszt); (b) "Dear Love, That Like a Flower" (Liszt).

8.16: Instrumental—4YA Broadcasting Trio, "Vienna Life" (Strauss).

8.22: Tenor solos—Mr. W. Harrison, (a) "String of Pearls" (Phillips); (b) "Sanctuary" (Hewitt).

8.29: Musical monologues—Miss Eileen Cooper, (a) "Foolish Questions" (MS); (b) "Little Coon's Prayer" (MS).

8.36: Relay from Ritz of special orchestral feature.

8.46: Chorus—Light Opera Company Gems from "Lilac Time" (Schubert-Clutsam) (H.M.V. Record C1450).

8.54: Cello solo—Mr. P. J. Palmer, "Orientale" (Cui).

8.59: Vocal duet—Misses Roy and Wynne, "The Passage Bird's Farewell" (Mendelssohn).

9.2: Weather report.

9.5: Instrumental—4YA Broadcasting Trio, "Warum?" (Schumann).

9.11: Soprano solos—Miss Olga Wynne, (a) "Summer Storm"; (b) "Rose Resurgut" ("Life of a Rose") (Lehmann).

9.18: Orchestral—Royal Philharmonic Orchestra, "Symphony in C, No. 34—1st Movement" (Mozart) (Columbia Record 04255).

9.26: Pianoforte solo—Mrs. Ernest Drake, "Moonlight" (Palmgren).

9.32: Musical monologue—Miss Eileen Cooper, "Earthenware" (Anon).

9.37: Relay from Ritz of special orchestral feature.

9.47: Tenor solo—Mr. W. Harrison, "Afton Water" (Hume).

9.51: Violin solo—Miss Eva Judd, "Orange Blossoms" (Friml).

9.55: Chorus and orchestra—Chauvre Souris Company, (a) "A Russian Barcarolle" (Varlamoff); (b) "Round the Hay Wain" (trdtl.) (Columbia 02525).

10.3: Close down.

## Saturday, July 13

### 1YA, AUCKLAND (333 METRES).—SATURDAY, JULY 13.

2.45 p.m.: Relay description of Rugby match from Eden Park. Announcer, Mr. W. P. Meredith.

4.30: (approx): Close down.

6.0: Children's session, conducted by Cinderella.

7.0: News session.

7.30: Market reports.

8.0: Chimes.

8.1: Orchestra—Studio Trio.

8.11: Contralto—Miss Ina Thomson—"When Swallows Homeward Fly" (White).

8.15: Xylophone—W. W. Bennett and The Bournemouth Municipal Orchestra, "Gee Whizz" (Columbia 02575).

8.19: Duet—Flotsam and Jetsam, "Little Betty Bouncer" (Columbia 01009).

8.23: Baritone—Mr. Walter Brough, (a) "Far Across the Desert Sands" (Woodforde-Flinden); (b) "Allah, Be With Us."

8.30: Orchestral—Studio Orchestra.

8.40: Soprano—Miss Gwenda Weir, (a) "Thinking of Thee" (Roma); (b) "The Little Brown Owl" (Sanderson).

8.47: Hawaiian Orchestra—Hawaiian South Sea Islanders, "The Call of Aloha" (Columbia 01014).

8.50: Orchestral—Bournemouth Municipal Orchestra, "Rippling Streams" (Columbia 02575).

8.55: Evening forecast and announcements.

8.57: Novelty sketch—The Four Originals, "Oh, Millie" (T. F. Birch).

9.27: Banjo—Leu Fills, "Banjoviality" (Columbia 0990).

9.31: Contralto—Miss I. Thomson, (a) "Four by the Clock" (Mallinson); (b) "Thank Me Not" (Mallinson).

9.38: Orchestra—Studio Orchestra.

9.48: Baritone—Mr. Walter Brough, "Simon the Cellarer" (Hatton).

9.52: Miss G. Weir, "Hedgeron Carnival" (Martin).

9.56: Orchestra—Studio Trio.

10.4: Programme of dance music.

11.0: God Save the King.

### 2YA, WELLINGTON (720 KILOCYCLES).—SATURDAY, JULY 13.

11.30 a.m.: Results of Wellington Racing Club's meeting, interspersed with selected gramophone items.

2.45 p.m.: Relay description of football match from Athletic Park.

5.0: Children's session, conducted by Uncle Toby and Aunt Gwen.

6.0: Dinner session:

Pipe organ, piano, trombone, and harp—Shikret's Rhythm Melodists, "When You're With Somebody Else" (Gilbert) (H.M.V. Record EA336).

Male voices—The Revellers, "Dream River" (Brown) (H.M.V. Record EA384).

Dance orchestra—Paul Whiteman's Orchestra, "Dixie Dawn" (Trent) (H.M.V. Record EA386).

6.10: Tacet.

6.15: Vocal duets—Dalhart and Robison, (a) "My Blue Mountain Home" (Robison); (b) "Far Away in Hawaii" (Robison) (H.M.V. Record EA295).

Dance orchestra—Paul Whiteman's Orchestra, "I'm Afraid of You" (Davis) (H.M.V. Record EA373).

- 6.28: Tacet.  
 6.30: Male quartet—De Reszke Singers, "My Lady Chlo" (Clough) (H.M.V. Record E432).  
 Piano solo—Pauline Alpert, "The Dancing Tambourine" (Ponce) (Zonophone Record EE98).  
 Chorus—Ever-ready Hour Group, "Down South" (Myddleton) (Zonophone Record EF8).  
 Dance orchestra—Nat Shilkret's Orchestra, "Dainty Miss" (Barnes) (H.M.V. Record EA276).  
 6.42: Tacet.  
 6.45: Orchestral—International Novelty Orchestra, "Emperor" Waltz (Strauss) Zonophone Record EF22).  
 Vocal trio—Dalhart, Robison, and Hood, "Climin' Up De Golden Stairs" (H.M.V. Record EA382).  
 Orchestral—Royal Opera Orchestra, "Marche Hongroise" (Berlioz) (H.M.V. Record C1279).  
 6.55: Tacet.  
 7.0: News session, market reports, and sports results.  
 7.40: Lecturette—Mr. A. E. Wilson, of the Government Tourist Department—"Tourist and Holiday Resorts."  
 8.0 p.m.: Relay of "Hinemoa," to be produced by the Wellington Harmonic Society, under Mr. Temple White, in the Wellington Town Hall.  
 10.0: "Brunswick" dance programme:  
 Novelty foxtrot—Jesse Stafford's Orchestra, "Kewpie" (Rose) Brunswick 4249).  
 Foxtrot with vocal chorus—Jesse Stafford's Orchestra, "A Precious Little Thing Called Love" (Davis) (Brunswick 4249).  
 Waltz with vocal chorus—Hal Kemp's Orchestra, "One Kiss" (Romberg) (Brunswick 4216).  
 Waltz—Pianoforte solo, Rosita Renard, "Blue Danube" (Strauss) (Brunswick 4240).  
 10.16: Vocal duet—Francis Luther and Jack Parker, "Carolina Moon" (Davis) (Brunswick 4202).  
 Foxtrot with vocal chorus—Brunswick Orchestra, "Lover, Come Back to Me" (Romberg) (Brunswick 4216).  
 Foxtrot with vocal chorus—Gerunovich's Roof Garden Orchestra, "I'm Telling You" (Rose) (Brunswick 4190).  
 Foxtrot with vocal chorus—Joe Rines' Orchestra, "Sweetheart of All Thy Dreams" (Fitch) (Brunswick 4199).  
 10.28: Soprano with string quartet and harp—Marie Tiffany, "Little Grey Home in the West" (Wilmot) (Brunswick 15197).  
 Foxtrot with vocal chorus—Gerunovich's Roof Garden Orchestra, "I Found You Out When I Found You In" (Ponce) (Brunswick 4190).  
 Novelty foxtrot—Joe Rine's Orchestra, "Fashionette" (Glogau) (Brunswick 4199).  
 Vocal duet with novelty accompaniment, Frank Luther and Carson Robison, "Wednesday Night Waltz" (Williams) (Brunswick 297).  
 10.37: Vocal duet—Frank Luther and Carson Robison, "You Can't Take My Memories from Me" (Davis) (Brunswick 4202).  
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "No One in the World But You" (Robison) (Brunswick 4194).  
 Foxtrot—Brunswick Orchestra, "Dardanella" (Fisher) (Brunswick 4218).  
 Waltz with vocal chorus—Regent Club Orchestra, "Poor Punchinello" (Lewis) (Brunswick 4206).  
 10.50: Soprano solo—Marie Tiffany, "Pale Moon" (Indian Love Song) (Logan) (Brunswick 15197).  
 Foxtrot with vocal chorus—Brunswick Orchestra, "Redskin" (Zamcnik) (Brunswick 4218).  
 Waltz with vocal chorus—Regent Club Orchestra, "Loneliness" (Polack) (Brunswick 4206).  
 11.0: Close down.

### 3YA, CHRISTCHURCH (306 METRES)—SATURDAY, JULY 13.

- 2.45 p.m.: Relay description of Rugby match on Lancaster Park.  
 4.25: Sports results to hand.  
 4.30: Close down.  
 6.0: Children's session, conducted by Aunt Pat and Brother Bill.  
 7.0: News session.  
 7.30: Sports results.  
 8.0: Chimes.  
 8.1: Rebroadcast of 2YA. Wellington (Vaudeville programme).  
 10.0: "His Master's Voice" dance programme:  
 Light orchestral—Piccadilly Orchestra, "My Beloved Gondolier" (Tibor) (H.M.V. Record B2575).  
 Orchestral—De Groot and The Piccadilly Orchestra, "If Only I Had You" (Davies) (H.M.V. Record B2713).  
 Vocal duet—Maurice and Sydney, "I'm Going Back to Old Nebraska" (Sissle) (Zonophone EE117).  
 10.10: Chorus and orchestra—Ever-ready Hour Group, "Down South" (Myddleton) (Zonophone EF8).  
 Tenor with two pianos—Franklyn Baur, "I'm Away From the World" (Clare) (Zonophone EE107).  
 Wurlitzer organ solo—Chas. W. Saxby, "Can't You Hear Me Say I Love You?" (Derickson) (Zonophone 5094).  
 10.20: Mixed voices—The Revellers, Gems from "Tip Toes" (Gershwin) (H.M.V. Record C1293).  
 Foxtrot—Arcadians' Dance Orchestra, "Chilly-Pom-Pom-Pee" (Bryan) (Zonophone Record 5169).

- Foxtrot with vocal refrain—Edwin J. McEnelly's Orchestra, "What Are We Waiting For Now?" (Kortlander) (H.M.V. Record EA322).  
 10.20: Chorus with orchestra, Light Opera Company, Gems from "Sunny" (Kern) (H.M.V. Record C1293).  
 Vocal duet—Johnny Marvin and Ed. Smalle, "Mary Ann" (Davis-Silver) (H.M.V. Record EA339).  
 Baritone solo—Jack Smith, "The Best Things In Life Are Free" (de Sylva) (H.M.V. Record EA332).  
 10.39: Bass with orchestra—Paul Robeson, "Down De Lovers' Lane" (Cook) (H.M.V. Record B2777).  
 Violin solo—Fritz Kreisler, "Indian Love Call" ("Rose Marie") (Friml) (H.M.V. Record DA785).  
 Wurlitzer organ solo—Jesse Crawford, "My Blue Heaven" (Donaldson) (H.M.V. EA284).  
 Hawaiian—Hilo Hawaiian Orchestra, "Aloma" (Bowers), (H.M.V. Record EA310).  
 10.52: Chorus and orchestra—Victor Arden, Phil Ohman, chorus and orchestra, Selections from "Good News" (de Sylva) (H.M.V. Record EB28).  
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "There's My Meyer" (Wolfe) (H.M.V. Record EA267).  
 Orchestral—Victor Salon Orchestra, "The World Is Waiting For the Sunrise" (Lockhart) (H.M.V. Record EA186).  
 11.0: Close down.

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**4YA, DUNEDIN (463 METRES)—SATURDAY, JULY 13.**

- 2.45 p.m.: Relay of senior Rugby football match from Carlsbrook Ground.  
 4.45: Close down.  
 6.0: Children's session, conducted by Uncle George.  
 7.0: News session.  
 8.0: Relay of 3YA, Christchurch (rebroadcast of 2YA, Wellington—vaudeville programme).  
 10.0: "His Master's Voice" dance programme:  
 March—Philharmonic Symphony Orchestra, "Rakoczy March" (Berlioz) (H.M.V. Record ED7).  
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "In My Bouquet of Memories" (Lewis) (H.M.V. Record EA362).  
 Foxtrot with vocal refrain—Waring's Pennsylvanians, "In the Evening" (Hanley) (H.M.V. Record EA368).  
 Waltz with vocal refrain—The Troubadours, "When Love Comes Stealing" (Hanley) (H.M.V. EA410).  
 10.14: Baritone solo—Lawrence Tibbett, "Drink To Me Only" (Calcut) (H.M.V. Record DA886).  
 Waltz with vocal refrain—The Troubadours, "A Kiss Before Dawn" (Perkins) (H.M.V. Record EA410).  
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "My Angel" (Pollack) (H.M.V. Record EA362).  
 Foxtrot—Nat Shilkret's Orchestra, "Get Out And Get Under the Moon" (Tobias) (H.M.V. Record EA368).  
 10.27: Orchestral—Philadelphia Symphony Orchestra, "Samson and Delilah" (Saint-Saens) (H.M.V. Record ED7).  
 Male voices—The Revellers, "Mammy Is Gone" (de Sylva) (H.M.V. Record EA384).  
 Pianoforte solo—Pauline Alpert, "The Doll Dance" (Brown) (Zonophone Record EE98).  
 Waltz—Bert Firman's Orchestra, "I'm Away From the World" (Clare) (Zonophone Record 5099).  
 Dance orchestra with vocal chorus—Salon Orchestra, "My Blue Heaven" (Whiting) (H.M.V. Record EB18).  
 10.40: Organ solo—Edwin Lemare, "Aloha-Oe" (Liliuikalani), (H.M.V. Record EE98).  
 Male voices—The Revellers, "Dream River" (Brown) (H.M.V. Record EA384).  
 Foxtrot—Bert Firman's Orchestra, "When I Ring Your Front Door Bell" (Lyn) (Zonophone Record 5099).  
 Dance orchestra—New Light Symphony Orchestra, "Just a Memory" (de Sylva) (H.M.V. Record EB18).  
 10.53: Comedian—Sir Harry Lauder, "Just Got Off The Chain" (Lauder), (H.M.V. Record D1434).  
 Waltz—Geo. Olsen's music, "King For a Day" (Lewis) (H.M.V. Record EA429).  
 Foxtrot with vocal chorus—Paul Whiteman's Orchestra, "Mississippi Bud" (Barria) (H.M.V. Record EA429).  
 11.0: Close down.

**Sunday, July 14****2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JULY 14.**

- 3 p.m.: Afternoon session—selected gramophone items.  
 5 p.m.: Children's Sunday service, conducted by Uncle George.  
 7.0: Relay of service from Church of Christ, Vivian Street: Preacher, Pastor W. G. Carpenter. Organist, Mrs. L. Sincok. Choirmaster, Mr. W. J. Mason.  
 8.15 (approx.): Relay from His Majesty's Theatre of concert by the Wellington Municipal Tramways Band.  
 Close down.

**3YA, CHRISTCHURCH (306 METRES)—SUNDAY, JULY 14.**

- 3 p.m.: Afternoon session—selected gramophone items.  
 4.30: Close down.  
 5.30: Children's song service.  
 6.15: Hymn chimes from the studio.  
 6.30: Relay of service from Church of Christ, Moorhouse Avenue: Preacher, Pastor J. Crawford. Organist, Miss E. Hepburn. Musical director, Mr. H. Ames.  
 7.45 (approx.): Orchestral—Mengelberg's Concertgebouw Orchestra, "Symphony No. 8—Allegretto Scherzando" (Beethoven) (Columbia Record 04055).  
 7.49: Soprano solo—Miss Marjorie Nelson, "For All Eternity" (Mascheroni).  
 7.53: Tenor solos—Mr. W. J. Trewern, (a) "Elegie" (Massenet); (b) "O Vision Entrancing" (Goring Thomas).  
 8.0: String quartet—Elman Quartet, "Emperor" (Haydn) (H.M.V. Record DB1055).

- 8.4: Soprano solos—Miss Marjorie Nelson, (a) "A Little Coon's Prayer" (Hope); (b) "Thanks Be To God" (Dickson).  
 8.11: Tenor solos—Mr. W. J. Trewern, "The Star of Bethlehem" (Adams).  
 8.15 (approx.): Rebroadcast of 2YA (Relay from His Majesty's Theatre, Wellington, of recital by the Wellington Municipal Tramways Band, under the conductorship of Capt. T. Herd.)  
 Close down.

**4YA DUNEDIN (463 METRES)—SUNDAY, JULY 14.**

- 3 p.m.: Town Hall chimes.  
 3.1: Selected gramophone items.  
 4.30: Close down.  
 5.30: Children's song service, conducted by Big Brother Bill.  
 6.30: Relay of service from St. John's Church, Highgate, Roslyn. Preacher, Archdeacon Fitchett.  
 8.5: Relay from His Majesty's Theatre of concert by the Kaikora Band, under the conductorship of Mr. T. J. Kirk-Burnand.  
 9.15: Close down.

**Coming Features****Australian Stations****TALKS.**

- Monday, July 8: 2FC.—9.0: C. N. Baeyertz, "Great Writers I Have Met—Frankfort Moore." 2BL.—9.30: S. H. Bowden continues his topical talk, "Week by Week."  
 Tuesday, July 9: 2BL.—6.0: Mr. Norman speaks to the "Bigger Boys."  
 Wednesday, July 10: 2FC.—9.0: Rev. F. H. Raward, "Quaint Folk of the Australian Bush." 2BL.—9.40: Claude Corbett will speak on "General Sporting."  
 Thursday, July 11: 2FC.—8.40: The Storyteller.

**MUSIC—COMEDY—DRAMA.**

- Friday, July 5: 2FC.—8.0: First Act of the "Desert Song," by arrangement with J.C. Williamson, Ltd. 2BL.—8.0: Studio Orchestra.  
 Saturday, July 6: 2FC.—8.0 Sydney Operatic Society Revue Co. 2BL.—8.0: The Troubadours.  
 Sunday, July 7: 2FC.—8.0: N.S.W. Government Tramways Band. 2BL.—7.0: Sydney Harmonic Choir, "An Elgar Night."  
 Monday, July 8: 2FC.—8.20: The Artarmon Gleemen. 2BL.—8.15: Graham and Manning, entertainers.  
 Tuesday, July 9: 2FC.—9.30: An Hour in Bohemia. 2BL.—8.0: A Concert Programme.  
 Wednesday, July 10: 2FC.—8.0: Royal Apollo Club Concert. 2BL.—8.7: Charles Tidswell in unusual songs.  
 Thursday, July 11: 2FC.—8.19: Carl Budden Morris, Pianoforte Recital. 2BL.—8.0: Lucille Bruntnell, production, "My Lady's Dress."

**"RADIO LISTENERS' GUIDE"**

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**AMATEUR RADIO SOCIETY OF WELLINGTON.**

The Monthly General Meeting of the Society will be held in  
**CAMBRIDGE TERRACE CONGREGATIONAL CHURCH HALL**  
**8 P.M. TUESDAY, JULY 9.**

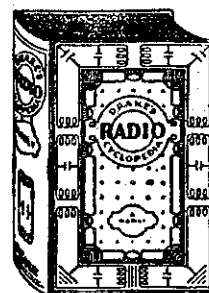
**MR. L. H. WRIGHT**

will deliver an address on

**"MOVING COIL SPEAKERS."**

At the last general meeting notice of motion was given to rescind the motion passed at the annual general meeting with reference to the relaying of football matches on Saturday afternoon. The debate on this subject will take place prior to the lecture.

All Listeners Cordially Invited to Attend.

A. G. H. LAWS,  
Hon. Secretary.**New 1929 Edition.****Drake's Radio CYCLOPEDIA**

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## Competitions for Constructors

[In connection with Wellington Radio Exhibition, Town Hall, July 25-27, constructional and literary competitions under the auspices of the Wellington Amateur Radio Society.]

**TO permit constructors displaying their capacity and demonstrating the simplicity and attractiveness of radio, the following competitions have been arranged in connection with the forthcoming Radio Exhibition.**

### 1.—BEST AMATEUR HOME-MADE CRYSTAL SET.

(Under 18.) Entrance Fee 1s. 6d. 1st Prize, £1 1s.; 2nd Prize 10s. 6d.

Points.—(1) Signal Strength; (2) Selectivity; (3) Neatness and Construction.

### 2.—BEST AMATEUR HOME-MADE NOVELTY SET (Capable of Local Reception).

Entrance Fee 1s. 6d. 1st Prize, £1 1s.; 2nd Prize, 10s. 6d. (In a cigarette case, pocket set, etc.)

### 3.—BEST HOME-MADE VALVE RECEIVING SET.

Entrance Fee 2s. 1st Prize, £2 2s.; 2nd Prize, £1 1s.

Points for Judging.—(1) Tone and Quality; (2) Selectivity (for 4); (3) Volume; (4) Layout, Wiring, Construction; (5) Simplicity of Operation; (6) Economy.

### 4.—ESSAY: "POSSIBILITIES OF RADIO." (Not necessarily Technical).

(Limit, 1,500 words). Entrance Fee 1s. 1st Prize, £2 2s.; 2nd Prize, £1 1s.

Entries for Essay to be sent, with 1s. postal note attached, to "Essay," c/o "Radio Record," P.O. Box 1032, Wellington. Closing date July 17, 1929.

#### CONDITIONS:

1.—Entries for competitions 1 to 3 (inclusive) will close on WEDNESDAY, JULY 17, 1929, and must be delivered, accompanied by the necessary fee, at the Studio of 2YA, between the hours of 7 p.m. and 9 p.m. on that evening.

2.—The Wellington Amateur Radio Society, who are conducting this competition on behalf of the Radio Exhibition Committee, will take care of exhibits, but cannot take any responsibility, with the exception of the loss by fire or theft, which will be covered by insurance, and entry must be made strictly on that understanding.

3.—The Society will not be responsible for any damage to sets during the judging, but it will take all precautions possible to prevent such happening.

4.—Every competitor must ticket each valve with the "A" and "B" voltage to be applied. "A," "B," and "C" batteries will be provided by the Society.

5.—If, in the opinion of the judge, the quality of the exhibit or exhibits in any one section is not of sufficient merit to warrant the first or any prize given, the Society reserves to itself the right to allocate the first or any other prize as the judge may direct.

6.—The judge's decision shall in all cases be accepted as final, subject to the conditions of entry being fulfilled. Any appeal concerning a breach of said conditions must be made during the period of the Exhibition.

7.—The Society to have the right to show the selected exhibits in each section at the Radio Exhibition.

8.—After the Judge's decision has been made, delivery must be taken of all unsuccessful entries on Wednesday, July 24, from the 2YA Studio, between the hours of 4 p.m. to 6 p.m., or as otherwise arranged. Exhibits required for the show will be delivered to owners from the show between 10 p.m. and 11 p.m. on July 27, or between 9 a.m. and 11 a.m. on Monday, July 29.

9.—It shall be a condition of entry that each exhibit shall be home built and constructed without any assistance or supervision by any person connected with the radio trade.

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Sec. Wellington Amateur Radio Society.

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## Origin of Radio Terms

(Continued from page 13.)

close companion, the Rev. W. Wheelwell, who apparently knew his Greek. The word electric was first used by Dr. William Gilbert, the physician to Queen Elizabeth, in the general sense we use it now, although the Greek word for amber is electron, and relates to the golden, sunlike colour of the stone which played such an important part in the rise of electricity. The first work to use the word "electricity" was written by Robert Boyle, and published at Oxford in 1675.

Just where magnet comes from is hard to discover. There are many interesting tales, the most repeated being its derivation from a poem written by one Nicander, a couple of centuries B.C. It concerns a shepherd named Magnes, who, in wandering around, found the ferrule of his staff suddenly adhering to a stone subsequently called after him the Magnes stone, or magnet. This is the first intimation that shepherds were accustomed to have their staves ferruled in the manner of modern canes, and sounds rather fishy.

Fully as interesting as any of our modern terms is the word "rheostat." This is the last survivor of a terminology which at one time was quite common. Electric meters, particularly galvanometers, which were about the only metres used, were called rheometers. The whole group of rheo words came from the fact that in Greek that word means "flow," and so galvanometers were "flowmetres" and variable resistances for keeping the flow steady became rheostats.

#### The Personal Touch.

MOST of the early terms were derived from names of people, as the list above shows. Much descriptive language came from the same source. An electric battery was a "galvanic" cell, the name coming from poor old Galvani, who certainly deserves something in his honour, and now we speak of galvanometers to commemorate this great Italian.

## Radio Round the World

IT is interesting to learn that station KDKA has for some time past been rebroadcasting British time signals from 2LO by means of short waves. This forms part of regular tests which are being conducted upon short waves between the two countries. KDKA, Pittsburg, often rebroadcasts the chimes of Big Ben. The Chief Broadcasting Engineer of the Westinghouse Company at Pittsburg is Mr. C. W. Horn, who has been prominently associated with broadcasting and particularly with short-wave experimental work for some time past.

IT is anticipated that one of the first relay stations to be built by the Australian Commonwealth Government under the National Broadcasting Service will be in the Newcastle district, where there is a population of over 200,000 people who will come directly under the influence of radio. Newcastle at the present time suffers from certain disabilities in respect to its reception of programmes from Sydney. The night programmes are affected to a certain extent by distortion, and it is

to the relay station that listeners in that district look for relief. It may be anticipated that within twelve months of the establishment of a relay station in the Newcastle district, 20,000 new licenses will go towards swelling the total for New South Wales.

**WIRELESS** licenses in force in Australia at the end of May were as follows:—

	In force.	Month's totals.
New South Wales ..	98,550	1,673 †
Victoria .....	143,344	49 ‡
Queensland .....	24,681	54 ‡
South Australia ...	23,573	387 †
Western Australia..	3,790	32 †
Tasmania .....	4,604	137 †
	298,551	2,234
† Increase.	‡ Decrease.	

THREE years ago the percentage of crystal sets operating in New South Wales was about 70 per cent. The reduction from 70 per cent. to 25 per cent., its present proportion, has been effected by slow and easy stages. In Victoria, however, the large percentage to-day of crystal set receivers, estimated at 60 per cent., is explained by the fact that local interference has not played a big part in reception of programmes by listeners and it is still possible in Melbourne to satisfactorily receive the two "A" class station programmes with a very humble type of crystal set. It is evident now that a change-over from crystal set to the valve set is taking place, as we find that during the last twelve months licenses in Victoria have suffered several setbacks. Between May 1928 and 1929 the increase in the southern capital is under 7000.

THE R.A.F. wireless station at Cairo has sent a message to Croydon Aerodrome stating that telephone conversations sent out by an aeroplane, which was carrying out tests with a Marconia short-wave experimental transmitter, while flying over England, were distinctly heard in Cairo. This would appear to be a record in long-distance transmission from an aeroplane in flight.

A DEVICE has now been perfected which will send out S.O.S. signals automatically once it has been started. The machine is not unlike a small portable typewriter in appearance, and in addition to the S.O.S. it will also send, by wireless telegraphy, transmissions of latitude and longitude, call-signs and certain other signals, and can be operated by any one unacquainted with the code.

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## BATTERIES

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## Answers in Brief.

"B.J.B." (Onehunga): Your circuit is not of the best. Try the two R.F. Brownings-Drake with your own amplifier. The two R.F. was described in the "Radio Record" and the "Listeners' Guide," where full instructions are given.

## The Cockaday Receiver.

A REQUEST has come from "R.S." Nelson, for the circuit of the "Cockaday" receiver.

A.: We shall publish this with a few notes on its construction next week.

## Selling a Receiver.

COULD you supply me with any information regarding the private sale of a wireless set? writes a correspondent from Hawke's Bay.

A.: A wireless set may be disposed of by private sale without any restriction. As soon as there is any suggestion of making or buying wireless sets to sell or resell, a dealer's license of some description is necessary.

## The Crystal and Valve.

I SHOULD like to make the crystal and valve with 3-valve performance with condenser control reaction. Could you supply the circuit?—"H.A.S." (Morning-side.)

A.: This set, which has proved very popular, can be made equally well with reaction controlled in either way. As soon as possible we shall publish full constructional details.

## The R.F. Booster.

I WAS interested in the booster described in the "Radio Record."

writes "Inquirer," Ngaiio, "and built one to specifications, but find on reading subsequent article that it could not be used with my Brownings-Drake. I would appreciate advice as to whether the circuit of the booster could be modified so as to make it suitable for the Brownings-Drake.

A.: The simplest method is to rewind the aerial coil of the Brownings-Drake. On examining this first coil in the set it will be found that there are three terminals on it. One connects directly with the aerial, one with the fixed plates of the tuning condenser and the grid of the first valve, and the other to earth and filament negative. This coil has to be removed, and a loosely-coupled coil constructed to take its place. On a 2½-inch or 3-inch former wind 75 turns or 55 turns of 20-gauge (according to size of former) enamel copper wire, as described by "Megohm" in this week's issue. Leave a space of about ¼-inch and wind on about 25 turns of the same wire. Secure the ends and connect them as follow: One end of the smaller coil, the primary, is connected to the aerial, the other end to the earth. One end of the larger coil, the secondary, to the condenser and grid, and the other to the filament negative (or moving plates of the condenser). The booster may now be connected as was originally described. If results are not quite up to expectations, reverse the connections to

the primary (or the secondary, if this is easier).

## Electrical Interference.

"RADIO" (Bay of Plenty) has encountered a type of interference which will be very hard to check. A few doors from where his set is operating, a barber is operating an electrical hair-cutting machine, which travels along a wire stretched across the room, carrying current. Interference is very bad while the machine is operating.

A.: The trouble may arise from any one of three sources, direct radiation from the electric machine, through the ground connections or through the electric lighting system (the set in question is an all-electric). If a condenser of 1 or 2 mfd. is connected between the wire on which the machine moves and the earth, the trouble may disappear. If it is travelling through the lighting system there will be little hope of preventing it. If through the ground a counterpoise aerial would probably prevent interaction.

## Audio Howl.

"L.H.W." (Lower Hutt) has been troubled with an audio howl. He cannot put the full voltage on his audio valve.

A.: See reply to a correspondent last week. Another method is to reverse the connections to either the primary or the secondary of one of the audio transformers. If this cures the trouble it indicates that it has arisen through the windings of the transformers being in a different direction to the other. Quite frequently different makers wind their transformers in different directions, and the induced currents, being out of phase, set up a hetrodynamic note or howl.

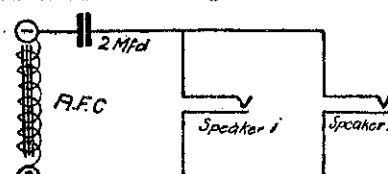
## Cannot Increase Voltage.

I CANNOT put more than 22½ volts on the radio frequency valve of my set, without reducing volume, write "N.W." (Rongotai). All my components appear to be O.K., but I cannot get the volume outside Wellington. Reaction makes very little difference.

A.: Test the valve used in the radio frequency stage, as this may have lost its emission. Renaturalise the set, as has been described in the "Guide" and in the "Record." This will be facilitated by the introduction of a by-pass condenser capacity 1 mfd. between "B plus R.F." and earth. Use a grid leak of lower value and trace the circuit out so as to make certain that it goes to "A plus." If it goes to negative, as is probable, if it is shunted across the condenser, break this shunt and connect one end of the grid leak to the side of the condenser nearest the valve. The other end is connected to "A plus."

## An Extension Speaker.

I HAVE an all-electric set, wires "G.J.H." (Invercargill), and I want to use a speaker upstairs as well as downstairs. How might I do this?



A.: A diagram is appended showing the connections. Where a long lead has to be taken, a condenser should be connected in both leads. It amounts really to purchasing or making an audio frequency choke and connecting this between the two speaker terminals, then, connecting each speaker terminal to one side of a 2 mfd. condenser. The other ter-

minals of these two condensers are connected to leads which can be taken to the set in the other room. By connecting them to a jack the speaker can be cut off at will. To use the speaker nearest the set take one lead from each of the terminals of the condensers farthest away from the set. Connect these with a jack, and the speaker may be used at will.

## "Round-the-World Two."

I Have just finished "Round-the-World Two," and have picked up PCJ RFN, and several amateurs, writes "D.J.C." (Petone). However, there are one or two points I would like cleared up.

1. The set is very unstable, for when I bring my hands close to the neutralising condenser, which I placed on the panel, the set bursts out into uncontrolled oscillation.

A.: The trouble is caused through the neutralising condenser in the aerial lead being mounted on the panel. It was placed in the rear so that it should not cause this interference. It would be well in constructing a set of this description to follow explicitly the instructions given.

2. Should the coils, when plugged into the sockets, be in. apart—mine are a good inch. Would this affect oscillation.

A.: The coils have to be placed just sufficiently close to make the set oscillate.

## The Screen-Grid Short-Wave Booster.

"MACK" (Johnsonville) writes:—I am building a S.G.S.W. booster described in the "Radio Record," and intend to use commercial valve base coils. Will the old coils made to the 1928 "Listeners' Guide" specifications do?—Yes.

Will an A635 valve be suitable, or what other one could I use?

A.: A screen grid valve will be necessary—A635 is then not suitable. At the present time A442 (Philips), PM12, 14, or 16 (Mullard), UX222 (Radiotronics), RF222 (Ce-Co.), S215 (Osram), are vertical mountings screen grid valves now readily obtainable. We have tested the Mullard and Osram valves, and reports will be appearing later.

Will the different make of valve affect the set?—If at all, only in signal strength.

I am using a .0001 tuning condenser. Will I duplicate or use another?—Duplicate.

## The Full-wave Crystal Set.

BECAUSE he cannot get good results from his full-wave crystal set, "Try Again" (Devonport) asks regarding this set.

(1) Should each condenser read the same on the same station?

A.: Yes, the fact that the condensers are not showing the same reading indicates that the coils are not matched. Add a few more turns to the secondary of the coil controlled by the condenser which has the higher reading.

(2) The coils of 60 turns secondary maximum strength is obtained at 0 degrees on both condensers. What does this mean?

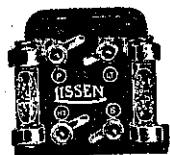
A.: It means that less turns are required on the secondary coil.

(3) A diagram indicates that the direction of the winding coils are different, and this possibly is the seat of all the trouble. If the coils are not wound in the same direction the induced current arising in the secondary circuit of the first coil will be neutralised by the induced current in the secondary circuit of the second coil. In other words, the effect of one crystal is being lost. Reverse the leads on one of the primaries or secondaries, and try the result. If then, the symptoms mentioned previously still persist, proceed with the suggestions made.

The correspondent has stated that he has used several combinations of crystals, and asks if we can advise him of any better combination. We cannot, his trouble no doubt lying in another direction, as has already been indicated.

## The Linen Diaphragm Speaker.

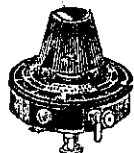
MANY correspondents have recently written in concerning the linen dia-



Lissen R.C.C. Unit.  
Price ..... 4/0



Lissen Mansbridge Condenser.  
2/6; .25 mfd, 2/8; .01 mfd, 2/8; .1 mfd, 3/6; 2 mfd, 4/6.



Lissen Rheostat, 7 and 35 ohms.  
Price .... 3/6 each



Lissen Grid Leak, Fixed, 1, 2, 3 and 4 meg.  
Price .... 1/6 each  
Variable ..... 3/6

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phragm cone speaker which was published some time ago. Unfortunately, we have sold out completely of the numbers in which the description appeared. However, in a future issue we shall publish a short description with diagrams. One of these correspondents, "D.C.C." (Southland) has suggested an index to constructional items. We had this in mind, and intend publishing it with the completion of volume two next week.

#### An Unsatisfactory Tuner.

**"BACKBLOCKS"** (Glen Murray) writes stating that he has purchased a tuner to replace the coil already in the set. It was not satisfactory; the primary coil has 12 turns, and the secondary 52. The tickler 26 turns.

A.: The coil is of the wrong specifications. The primary should be of 24 turns at least.

2. I am thinking of adding another R.F. stage. Would it be O.K. if I re-wound the primary and centre tapped it?—Yes.

Is a moving tickler coil better than condenser controlled reaction?

A.: A few weeks back this was discussed fairly fully in the "Beginner's Corner," where it was shown that a condenser used to control reaction rarely alters the tuning, and is sometimes smoother than the moving tickler.

How many turns should I use on a primary with 425 as detector?

A.: 425 is suitable only with resistance capacity coupling. Try 409 and 415. UX 199 requires 25 turns.

#### Improving Sets.

**WRITING** on behalf of the owners of several commercially-made neutrodyne receivers, "H.M.B." (Te Kuiti) asks how they might improve their sets, although the correspondent reports a quite good log. Sometimes he can get the Japanese on the loudspeaker, but he is not able to get the Americans. What can they do to go "D.X.-ing"?

A.: "D.X.-ing" with factory-made receivers of the neutrodyne type with less than six valves is very difficult. If a wireless enthusiast wishes to go "D.X.-ing" he should construct a regenerative receiver. In this case, if tone is poor, the valves may be at fault. In this connection it is unwise to use valves other than those originally provided in the sets, unless it is a power-valve in the last stage. A power-valve of the 171A type will greatly improve tone if correctly biased. The detectors used in this case are

inclined in some cases to be harsh, so that a change back to the American detector for which the set was built may be preferable.

#### Various Points.

**"S.B."** (Auckland), writes: I propose to use the following valves in a receiver. Screen-grid, PM4, PM3 detector, PM4 and pentode. Is this a suitable combination?

A.: It can be improved. PM14 (screen-grid), PM3 (R.F.), PM4D (detector), PM4 (first audio), PM254 (second audio), or PM14 ("Pentode"). While greatly increasing signal strength the pentode type of valve can be overloaded easily, and ruin the quality from a local station.

2. How many turns on the primary to suit the R.F. valve?

A.: The screen-grid circuit should be tuned anode, which does not require a primary. PM3 requires 25 turns.

Would a 7-plate neutralising condenser be all right for neutralising?—Yes.

#### Choke Construction.

**I HAVE** a quantity of soft iron, transformer laminations, which I should like to use in the construction of audio chokes, writes "Choke" (Hataitai). Can you give me:

1. A compensation between the magnetic stallo and soft iron?

A.: Two-thirds. Stallo carries 60,000 magnetic lines of force to the square inch, soft iron 40,000.

2. The method of finding the value of a choke in henries? I have been placing a milliammeter in series with the choke, and measuring the current taken when placed across a convenient voltage, such as 110 volts, or 230 volts A.C., 50 cycles, and then working out the value of "L" (inductance) from the usual formula,  $E/I$  is equal to the square root of ( $R$  squared plus  $P$  squared  $L$  squared).

Where  $E$  is the voltage,  $I$  the current,  $R$  the resistance,  $P$  6.2832 times frequency, and  $L$  henries. Would not the inductance of a choke vary at different frequency? If so, at what frequency is a choke rated?

A.: The usual rating for a choke is 920 cycles per second. Using this, the formula given can be applied.

I have an all-electric crystal and valve amplifier which gives splendid results. Are there any objections to my using a raw A.C. on the filament of the power valve. If not, what is the difference between an A.C. power valve and a D.C. power valve?

A.: As there is no difference a D.C. power valve may be used quite conveniently for A.C.

#### Amplifying the Full Wave Crystal Set.

**I HAVE** made the full wave crystal set, writes "R.L.F." (Wellington), and have found it much superior to the usual crystal set. I intend building another, and adding a stage of audio frequency, and would like to know:

1. Is it possible to add a stage of radio frequency?—No, it is not practicable.

2. Would it be a disadvantage to bank-wind the primary coil?

A.: A bank-wound primary coil would not be satisfactory for this circuit.

### Technical Tips

**WHEN** buying condensers for a home-made "B" eliminator it is important to see that the rated working voltage is well above the normal voltage which the finished unit will take.

**A GOOD** method of tidying frayed ends of flexible wires is to use a little blob of Chatterton's compound to seal off the odd lengths.

## Under the Shadow of a Powerful Station

### How a Receiver is Best Operated

**AS** listeners are aware, a new powerful 2LO, London, has been erected and in writing to the "Morning Post," W. James stresses valuable points concerning the use of a receiver in close proximity to a powerful local station. His advice is repeated in these columns in order that it may strengthen or collect points that have from time to time been given listeners in this respect.

"Those who live within a few miles of the new station when it begins transmission will receive a very strong signal, with the result that there will be a tendency for the receiver to be overloaded. This will have the effect of spoiling the quality of the reproduction unless the receiver is fitted with an effective volume control.

"As only a small number of sets have a volume control, those listeners who experience overloading will have to reduce the size of their aerials, or alternatively, fit an adjustable resistance in the aerial circuit of their receivers or across the circuit connected to the first valve. A modification of this type will not be very expensive.

"It will prove much more difficult, however, to cut out the powerful local transmission and to tune in distant stations. Much will depend upon the type of set employed, and if this is a simple one, the user will probably find himself unable to effect inexpensive modifications which will have the desired result.

#### Meeting New Conditions.

**"THE** effect of reducing the size of the aerial, and of fitting a small condenser in the aerial circuit, may, of course, be tried, but it will probably be necessary to add a further tuned circuit or a high frequency stage, and it may prove essential to employ a frame aerial.

"Those who have a portable receiver may find that by taking advantage of the directional properties of the aerial included in the set, other stations may be received, but it is not possible to say whether all sets of this type will be sufficiently selective.

"The points I wish to emphasise are that those who live within a few miles

of the new station will find they are not able to receive other stations so easily as before, but they will have a very strong signal to deal with. Those who are considering the purchase of a receiver, or those who build themselves a new receiver during the summer months—and I find a number of listeners do this—should, therefore, bear these two points in mind, and make certain of providing adequate selectivity and an effective volume control.

#### Wait and See.

**"MANUFACTURERS** realise that in the future selectivity will be of even greater importance than in the past, and I believe a number of interesting receivers at low prices will be forthcoming. The all-metal construction which was favoured in certain quarters during the past season may be more greatly employed in the popular sets of the future.

"Complete shielding, the use of suitable tuning coils and shielded valves, and the production of fewer types of receivers will be responsible for simplifying tuning and improving the results. New and improved valves also help the manufacturers, and it is expected that large number of sets will be sold during the season.

"There is still room for better loudspeaker construction without increasing their cost. Good loudspeakers are relatively expensive as compared with the receiver itself, and the cheaper instruments are not so good as they should be for the sets with which they are used. There are, unfortunately, a number of inexpensive foreign-made loudspeaker units in the country which give very good results. Numbers of amateurs are therefore building their own loudspeakers from sets of parts.

"This would not occur were there a supply of good loudspeakers reasonably priced. Unfortunately, sensitivity is often still considered of more importance than quality of reproduction, but when strong signals are more easily obtained than at the moment, the manufacturers will be free to design their products to give the desired quality without bothering so much about sensitivity."

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# The Construction of Tuning-Coils

For all Purposes

By "MEGOHM"



TUNING coils for radio receivers are now seldom made greater than three inches in diameter, whilst for valve sets particularly there is now a great tendency toward  $2\frac{1}{2}$  and 2-inch coils. In short-wave receivers the diameter may be as little as 1½ in., as illustrated by the valve-base coils now so much in use, and from which high efficiency is obtained.

Short-wave coils have few turns of wire, even when of small diameter, but as reducing diameter increases the number of turns necessary to tune to a given wave-length, too great a reduction in the diameter of broadcast coils is not always desirable, because in order to avoid a great number of extra turns, a wire of comparatively thin gauge must be used. Radio-frequency currents travel only on the surface of conductors, so that a wire giving the most outside surface presents least resistance to such currents. A hollow metal tube is just as good a conductor for r.f. currents as a solid conductor of the same diameter.

In order to increase the "skin" surface of wire it is sometimes made up of strands of thin enamelled wire, the whole being then silk-covered. For radio-frequency coil construction this wire may be composed of, say, twenty strands of 36's wire, and is known as "Litzendraht" wire. This wire is expensive, and though efficient on the broadcast band, but on account of the increased capacity introduced by the strands, it is not suitable for use on short-wave coils.

For the average aerial or secondary tuning-coil, wire ranging from 20 to 24's, s.w.g., is suitable. Where it is desired to get the most from a crystal set, a low-loss coil wound with 20's wire is suitable, but for local reception up

to a few miles, and where selectivity is not required, cotton-covered or enamelled wire of any gauge above-mentioned, and wound without spacing, may be used. The use of cotton-covered wire has the advantage of automatically spacing the conductor by virtue of the two thicknesses of covering intervening between the turns, although close wound.

The inductance of a coil is stated in "microhenrys," or millionths of a henry, which latter is the unit of inductance. The average constructor does not need to deal with this measurement, so suffice to say that the inductance of the average broadcast coil is between 150 and 325 microhenrys.

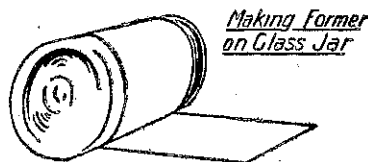
## Types of Induction Coils.

THE type of coil now most used in radio receivers is that known as a "solenoid," which consists of turns of insulated wire wound in one layer upon a cylindrical former, the turns being wound either close together, or slightly spaced apart, from a half to the full diameter of the wire.

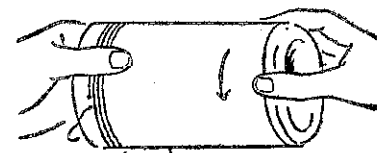
The honeycomb coil, once popular, is now little used. It is a compact type of coil, made to plug into a suitable holder; the turns are wound in-and-out on spokes radiating from a central hub, the spokes and hub being afterwards withdrawn and a plug-in block attached. Spider-web coils are a simpler but rather less efficient type of compact coil. They are wound in slots around a flat celluloid or cardboard former. These are also called "basket-coils." Formers of cardboard

or other material upon which to wind these coils may be obtained at the dealers for a small sum.

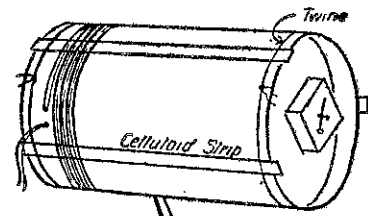
In the construction of any coils wound in slots or over pins or spokes, there must always be an odd number of slots or spokes.



Making Former on Glass Jar



Winding on the Wire



Winding Low-Loss Coil

In following specifications given in descriptions of valve receivers, constructors should keep as nearly as possible to the measurements given, as to diameter, turns to the inch, and the total number of turns. If the winding is spaced a greater amount than specified, the range of the coil and associated condenser will be reduced, with the consequence that 7ZL, 3AR, and even 2FC, all high wavelengths, may not be received. The usual remedy in such a case is to add turns to the coil or coils.

The spacing of turns makes the receiver more "selective," which means that it will tune sharply, making it an easier matter to tune out stations on a wavelength not many degrees away from that being received.

## Actual Construction.

THE simplest coil for a beginner making up a crystal or small valve set is the solenoid of double cotton-covered copper wire on a cardboard former. Cylindrical or ribbed formers made of various materials may be purchased at any radio dealer's, the required length being supplied. Any of these are suitable for coil construction. If the constructor desires to make his own former, this may easily be done.

Thin white cardboard that will roll up easily should be procured from a

printer or elsewhere. The white card known as "4-sheet" or "6-sheet" is suitable, and will be in sheets measuring 25 by 20 inches.

From a table get the number of turns to the inch of the wire to be used, and from this calculate the total length across the required number of turns. These tables are given in "Listeners' Guide." Add to this one inch to allow a half-inch clear at each end. We shall suppose the total length of the cylindrical former is to be five inches. A strip this width and 25 inches long is to be cut from the sheet of card. A cylinder slightly under three inches in diameter is now required upon which to build the former. A round bottle is good, if one of the correct size can be found. This should be covered with one thickness of thin paper to prevent accidental sticking of the former. The paper is only to fasten to itself by its adjacent edges, and not to the bottle; be sure of this. The measurement around the bottle will be about 10 inches, so that a 25-inch strip will go round  $2\frac{1}{2}$  times. The finished thickness should not be less than 1.16 in., so unless the card is sufficiently thick a further strip must follow the first when constructing. Seccotine is a good adhesive to use.

One end of the card is rolled round the bottle and secured with a sparing amount seccotine where it meets the other portion of the card. Strips of seccotine are applied at frequent intervals, rolling up the card, and when the necessary thickness is built up, a waste piece of card should be wrapped round the outside, and the whole bound up with twine and put aside to set for a few hours. When set, a coat of shallac, dissolved in methylated spirits, will be an improvement, though not an actual necessity. Its function is to keep dampness away.

The former should be kept on the bottle during the process of winding, but should be tested to ensure that it is removable.

Wire of standard gauge (s.w.g.) is now required, according to the specifications being followed. Wire is sold by the pound, or quarter and half-pound, and as a guide to the quantity likely to be required for a coil, the following quantities are given. When ordering wire it is always best to order more than the exact amount required, as any surplus will always come in useful for connections.

On a 3 in. former, quarter-lb. 20's d.c.c. wire will suffice for 70 turns, and enamelled a few more turns. The same

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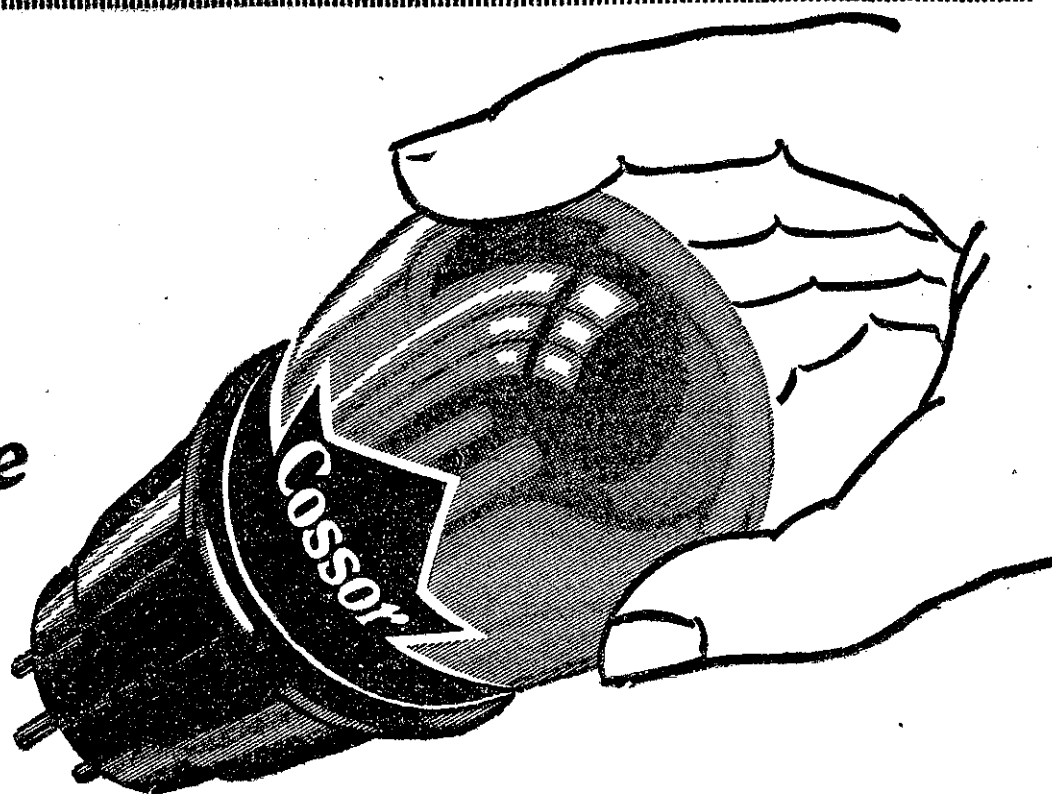
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weight of 22's d.c.c. will make over 100 turns, and enamelled about 120 turns. Two ounces of d.c.c. or enamelled 24's will make about 90 turns.

On a 2½ in. former, quarter-lb. 20's d.c.c. will make 80 turns, and enamelled about 88, and for 100 turns just over 3oz. of 22's d.c.c. or under that quantity of enamelled. One ounce of 26's d.c.c. makes over 75 turns.

These figures allow a small margin over for connecting up, but if the former is even slightly over the specified diameter, more wire will be required

### Winding on the Turns.

HAVING the wire as specified, two small holes are now made half an inch from one end of the former, sliding it partly off the bottle for the purpose. Through these holes the end of the wire is passed, leaving six inches spare for connecting. The former can now be placed on the knees, with the spool of wire on the floor. Commence winding at the left-hand end, turning the coil towards you, and guiding the wire with the left thumb, using suffi-

cient pull to straighten out ordinary unevenness. Sharp kinks should be straightened by special treatment.

When the requisite number of turns has been wound, pass the end of the wire through two holes as at the beginning, and leave a sufficient length over for connecting.

### Low-Loss Coils.

THE usual low-loss coil is made of plain tinned or enamelled wire wound with a space between each turn, half the diameter of the wire being a good proportion for the spacing. For short-wave reception heavy wire is used, spaced its own diameter apart when necessary. Whether the wire is tinned or enamelled matters little, but the latter ensures that turns will not

and once made, can be used as often as desired.

A number of circles of cardboard are cut, the diameter being less than that of the inside of the finished coil by twice the thickness of the former. A number of small squares of wood, ¼ to ½ in. thick, are also required. A hole is drilled in the centre of each circle and block, and the whole can then be threaded upon a piece of twine, which is secured at each end by twisting round a nail or otherwise. This pile of circles can be used to make the former on just as a bottle is used, but it has the advantage of being withdrawn without trouble when the coil is complete, and if the former is split lengthways it may be used repeatedly. See diagram. Some constructors use a tin for the former instead of cardboard.

### Stock Coil Formers.

MANY types of coil former are stocked by radio dealers, a convenient form being composition tubing from which the required length may be sawn as required by the purchaser. This tubing may be plain circular or may be cast with six or more projecting ribs running lengthways. Upon these ribbed formers good low-loss coils may be wound without the preliminary labour of constructing the former.

Another type of ribbed former is the six-pin coil with plug-in base. This former is cast in bakelite, with 12 small ribs. The diameter may be 2 3/8 or 2½ inches, and length 2½ to 3 inches. Three separate coils, primary, secondary and tickler, may be wound upon these formers, the whole being plugged into the corresponding base with one operation. Some are provided with notches on the ribs to facilitate spaced winding, otherwise spacing may be obtained by using double cotton-covered wire, or by the method already given, securing the turns with cement.

### Celluloid Formers.

WHEN the coil is to remain upon the former it may be constructed of motor-hood celluloid, about 20 mills thick, a very neat-looking coil resulting. A former must be used around which to shape the celluloid with an overlap of not more than ¼ inch. A strip of paper under the joint prevents the celluloid from adhering to the former. When the joint has been made, wrap many turns of twine around the whole, and set aside until next day. Wind the wire before removing the celluloid from the former. If the celluloid is thick there will be more difficulty in making a neat join and tendency to pull out of shape.

### Primary and Tickler Coils.

PRIMARY and tickler coils vary considerably in construction. In some cases these are wound on insulating strips over one end of the secondary coil to give the required space between coils. In the Browning-Drake the primary is invariably placed inside the first turn of the filament end of the secondary coil, and must have as little "self-capacity" as possible. Sixteen to twenty-five turns, according to the impedance of the valve, are usual, and the capacity is kept low by winding the turns irregularly or jumbled, so that they cross and recross as much as possible. Double cotton-covered wire assists in giving separation, the usual gauge being 30's a.w.g.

# RADIO DIRECTORY

## What to Buy and Where

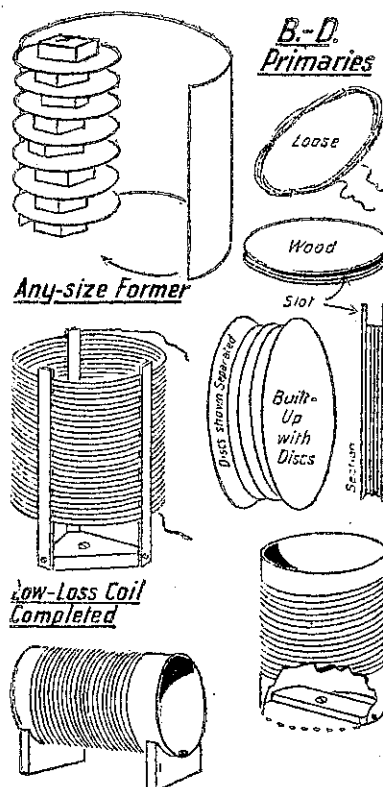
### CITIES

- AERIAL MASTS** ..... Domestic Radio Co., Ltd.,  
Strand Arcade, Auckland.
- ALTONA & HAMMARLUND-ROBERTS SETS.** Johns, Ltd.  
Chancery Street, Auckland.
- ATWATER-KENT RADIO** .. Frank Wiseman, Ltd.  
170-172 Queen Street, Auckland.
- BREMER-TULLY RADIO** Superadio, Ltd.,  
147 Queen Street, Auckland.
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- CROSLEY RADIO** Abel, Smeeton, Ltd.,  
27-29 Customs St. E., Auckland.
- FERRANTI RADIO COMPONENTS** ..... A. D. Riley & Co., Ltd.,  
Anzac Avenue, Auckland, and all leading Dealers.
- CROSLEY SETS** ..... Lewis Eady, Ltd.,  
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### COUNTRY TOWNS

- CROSLEY RADIO** ..... J. C. Davidson,  
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"short" if accidentally touched owing to being misplaced by a knock.

Suitable gauges of wire are 20's to 24's, and the best method of spacing is to wind an enamelled wire of several sizes smaller, alongside the wire composing the coil. This thinner wire is afterwards carefully unwound, leaving the coil turns ready to be secured to celluloid strips with celluloid cement. These strips, about half an inch wide, may be three or four in number.

When the winding is complete, the permanent wire is secured through two holes at the end of the former, and the spacing wire is then carefully unwound without disturbing the position of the permanent turns. Thin celluloid cement is now liberally applied to the turns where they cross the celluloid strips, and when this has been done, a duplicate strip of celluloid is pressed into place above the turns and underlying strip. Put aside to set overnight.

The cardboard former may be shaped upon a suitable jar or bottle as already described, or made by the alternative method now to be outlined. By this system, formers of any exact dimensions may be easily constructed,

There are three typical ways of making this coil, the diameter in every case being such that the coil can be slipped inside the end of the secondary without leaving an appreciable space between the two coils, though there must be proper insulation between them, otherwise a "short" of the B battery may result. The three methods are shown in a diagram. One is a bunch of turns of the requisite diameter, bound together in places with twine. The second method is to build up a slotted former of cardboard, the slot round the periphery measuring barely 3-16in. each way. The third method is to turn a similar former out of wood.

Rotating ticklers for the Browning-Drake are close-wound upon a short former of small dimensions; the turns should not be spaced on ticklers. There is no need to endeavour to make the tickler as large as can be rotated in the end of the secondary. A smaller tickler with a few more turns to compensate, will give even better results.

#### Mounting Coils.

VARIOUS methods of securing solenoids to the baseboard are shown in a diagram. Other suitable means will be devised by the constructor to meet special cases. Small metal angle-pieces may often be bolted to the former and fastened to the baseboard with screws.

#### Short-Wave Coils.

THIS subject would make an article to itself, and can only be briefly dealt with here. The making of valve-base coils is usually dealt with in the specifications of receivers. For coils of larger diameter 18's wire is often used, on the low-loss plan, only strips of celluloid holding together the turns, which are usually few in number—from 3 to 20. The coil may be secured to a strip of ebonite by bolting it down through extensions of one of the celluloid strips, or by bolting across the inside of the coil, another small strip of ebonite. The tickler, of thinner wire, may be attached to the projecting celluloid strips of the secondary coil, and connected to pins in the ebonite mounting strip so that it plugs in at the same time. The aerial coil, spaced, of few turns; is placed near the grid end of the secondary; it may be made to move on a hinge, or to be variable in some other convenient way.

#### General Points.

COILS associated with the aerial do not require as many turns as a secondary coil, as there is the added capacity of the aerial. By coupling the aerial to only a few turns of the first stage tuning-coil, as in the Browning-Drake, the added capacity of the aerial is very small, with the advantage that the coil and tuning condenser will then cover a greater range than in the case of the aerial being coupled to the full coil. Loose coupling gives a similar advantage.

Coils with spaced turns require more turns than unspaced ones of the same diameter if required to cover the same range with the same capacity of variable condenser, but they give greater selectivity.

If there is any uncertainty as to the number of turns required on a coil to tune in certain wavelengths, the best way is to put on too many turns. When the receiver is completed, it is easy to remove a few turns so that the highest wavelength station required is just tuned in when the condenser is full in.

Coils of large diameter and short winding length are the most efficient,

theoretically, but modern practice does not always recognise the equal-diameter-and-length compromise, as compactness is often a vital consideration, especially in shielded receivers.

Useful tables will be found in the Listeners' Guide concerning the number of turns required upon coils for various purposes.

#### Celluloid Cement.

CELLULOID cement is easily made by dissolving chips of celluloid in a small bottle with liquid acetone. Half fill the bottle or test-tube with chips and pour in acetone to about double the depth, otherwise the cement may be too stiff. Apply with a thin stick. Keep well corked, and away from a naked light.

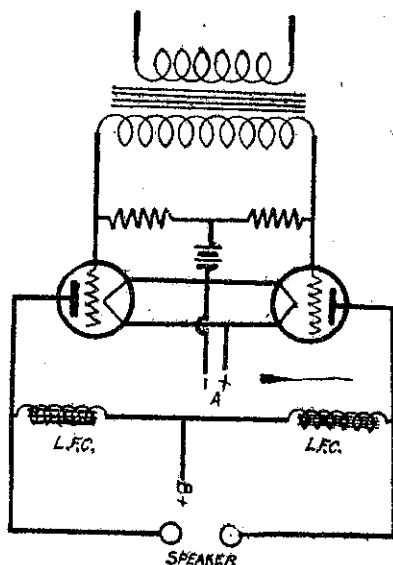
### Adapting Audio Transformers for the "Push-Pull"

A CORRESPONDENT to "Question and Answers" has asked how the ordinary audio transformers can be adapted to function in a push-pull arrangement. As a rule, transformers having a split secondary are more expensive than the ordinary variety in which the secondary is not centre tapped, and an amateur desiring to try a push-pull arrangement for the last stage will welcome a few tips showing how it can be done, using ordinary transformers. Strictly speaking, the

be considered. In lieu of a centre tapped output transformer or choke, several methods avail themselves. Perhaps the simplest is the one shown in which two separate audio chokes are used, the centre connection being taken to B+ terminal. The speaker in this case is connected across these two chokes.

It is as well to mention here that the impedance across the entire output of a push-pull amplifier is doubled, and that unless a speaker having a fairly high impedance is used, a certain amount of energy loss will be entailed. A solution which suggests itself to the writer would be the adoption of a 2-1 ratio centre tapped output transformer for use with the average speaker. A more practical idea would be the use of two speakers connected in series, the centre connection taken to the centre connection of the chokes, in order to obtain better stability.

Where no output chokes or transformer is available, a good method can be adopted by connecting the two leads from a horn-type speaker, one to either plate terminal on the amplifier, and to use the connection between the two bobbins on the speaker magnets, inside the unit, as the actual B+ connection. Thus one-half of the speaker is in the plate lead of one valve, the other half being in the plate lead of the other valve. This experiment should be tried only when a pair of small valves is used, as all the direct current is going through the fine wire of the speaker.



following arrangement does not function in the same way as would a transformer having a centre tapping, but the output derived from this circuit can be considered as equal to twice that of each valve singly.

By studying the diagram it will be seen that across the secondary of the input transformer are connected two resistances joined in series, the centre join being used as the mid point of the secondary to which the grid bias is applied. The value of these resistances is not critical so long as they are of sufficient value to prevent any bypass of the higher frequencies. Two half-megohm resistors are quite suitable.

Having provided the input arrangement, there still remains the output to

## DX Notes

### Station Identification

CAN any DX enthusiast (or maybe the owner of the station in question) identify station heard here at full R9 on late afternoon of June 23? The modulation could not be called excellent by any means. It was operating on the same wave-length as 2YB. It was rather too powerful and steady a transmission to be the effort of a budding "B class" owner without a license. No announcement was made between the items, only long intervals, and the sound of needles being changed. The mysterious station was listened to from approximately 4.50 p.m. to 5.50 p.m. At 4.50, in broad daylight, strength was R9. "Sunny Boy" was played no fewer than four times. Another item was "The Sky is the only Roof I Have."

I would like to congratulate "Fifteen-year-old," Gisborne, on his work on four valves. His circuit must be quite a reliable job. On three valves here I have logged, to date, 160 stations. Hoping someone knows something of the whereabouts of the station before-mentioned. I will be pleased to communicate with any of the DX enthusiasts on this or any other subject.—RONALD J. H. SCOTT, 508E Queen St., Hastings.

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### "RADIO RECORD"

Stall at the Exhibition.

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See page 32 for column of casual advertisements.

Longest  
Life,  
Honest  
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Capacity



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4	60	£3 10 0
6	60	4 10 0
6	80	5 5 0
6	100	6 5 0

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# Short-wave Jottings

**MR. A. R. MORRISON, Brooklyn,**

writes:—  
Regarding the tests of the Dutch station P.H.I., wave 16.88 metres, the first time I heard this transmitter was on January 28, 1929, on this transmission his strength and modulation was perfect, they were also heard in February during one of his special tests 4.30 p.m. New Zealand time, Saturday. Reception was heard here very well indeed, but lately P.H.I. has again been carrying out tests, but I have not been too successful in hearing him.

Last Saturday, June 22, he was supposed to begin at 11.30 p.m. New Zealand time. I tried for him for an hour, but could not even get a whisper of his carrier wave. I think probably the reason he is not audible here late at night is that the time is not suitable for New Zealand, because it would be broad daylight in Holland.

By announcements made by PCJ it seems P.H.I. is heard very well in Australia. I would like to see reports from other shortwave listeners outside of Wellington, such as Christchurch and Auckland, of their success, if any.

## Programmes to Byrd.

THE special programme to Commander Byrd and party in Little America (polar regions) given by the Paramount Film Company on Sunday, June 23, the broadcast commenced at approximately 2.35 p.m. New Zealand time, when many introductions were made.

Mr. John L. Laszky was the first to speak to Commander Byrd, others were Buddy Rodgers, film star, and Mary Bryan, who seemed to be a little shy of the microphone. We heard a couple of humourists talking about a trip to the moon. I did not catch their names, but believe they were the original Black Crows we often hear on the records.

A message was read to Commander Byrd by the Hon. George Atkinson, secretary for President Hoover. We next heard Rudy Vala and his "Yankees," who rendered a few musical items. The general manager of the Laszky Corporation was then introduced and had much to say to Byrd. It was then announced that a great friend of its commander would speak (who, I think, had the best radio voice of them all). He was announced as Jimmy Walker (not Johnny Walker), Mayor of New York. His first words were: "Hullo, Dick." He made a very fine speech, every word was heard, and I am using a detector and a two-audio, which gets anywhere.

This programme concluded at 3.20 p.m., N.Z.T. I should state that this hour's programme came from the Ambassador Hotel, Atlantic City, broadcast by KDKA, Pittsburg, on W8XK., S.W. They then went over to William Penn Hotel for messages for Byrd and party, and a little after 5.30 p.m., our time. W8XK stated they would then rebroadcast VK2ME, Sydney, another special broadcast for Commander Byrd. As far as I am concerned this rebroadcast was a failure; at times modulation was good, but to make a short story of it it was not a success, as the American announcer stated, because of receiving conditions there. I found on tuning to 2ME, 28.5 metres, modulation was perfect only for a slight fade now and again, so it will be seen that the R.B. Company of New Zealand are not the only ones who find that S.W. rebroadcasting is not always successful.

I have heard SXAL or WLW quite frequently lately. He seems to be on the air every day, and has been tuned in as early as 3.15 p.m., but at that time not with any great strength, his transmissions continued till 5.30 p.m., and at that time he sometimes reaches R7 to 8, but he is not consistent. He comes on the air again at 10.45 p.m., N.Z.T., for one hour, for "the farmers' hour" (early risers there, I guess). The programme begins with "Hullo, everybody"; station call, time given generally a little after 6 a.m., their time; weather conditions, and weather report, followed by a musical item or two, then market reports, vegetables and such like, and very often its announcer continues with the cures for diseases in fruit, flowers.

His strength is about R7 for its first twenty minutes or so; he then gradually goes down. It can be expected, because SXAZ's power is only 750 watts, wavelength 49.5 metres, or 6060 kilocycles.

W3XL, Boundbrook, New Jersey, was on the air again last night, Tuesday, June 25, conducting a test. He came on as soon as SXAL concluded his transmission at 5.30 p.m. I listened to him for about a quarter of an hour; he was playing musical items, strength R8, modulation good. Again to-night he was heard

(26th). Opened up about the same time and announced that this was a test programme, and gave his wave as 49.8 metres, or 6020 kilocycles, and asked listeners to report on his transmission and to address mail to W3XL, Boundbrook, New Jersey, U.S.A.

I listened for him again at 7.30 p.m., and he was still on the air. He closed down not long afterwards with the concluding item, mentioning that it would be of interest to those in Australia and New Zealand—a recording of the Westminster organ. He closed down, giving his time as 4.15 and 45 seconds a.m. This concludes this period of test programme, and "We are now signing off. Good-night all" (instead of good-morning). Strength and modulation was R8, with slight fading.

## Byrd Broadcasts

AN excellent programme was broadcast by KDKA (Pittsburg) on Saturday night, June 22 (Sunday afternoon, New Zealand time), film artists providing the very fine items on an acceptable menu. Mayor (Mickie) Walker, New York, a friend of Commander Byrd, spoke specially to Commander Byrd, and President Hoover's secretary also spoke to Commander Byrd.

2ME (Amalgamated Wireless, Australasia, Sydney) also broadcast a special musical programme for KDKA, the latter rebroadcasting same to Commander Byrd. Reception in Wellington, states Mr. R. Leslie Jones, of Lyall Bay, was excellent throughout.

## Children's Sessions

### 4YA SESSIONS.

MONDAY, JULY 8:

K stands for Kensington,  
S stands for School,  
M for the melody  
They bring as a rule.

TUESDAY, JULY 9:

If you're a Scout, so people say,  
You must do one good deed a day;  
St. Martin's Scouts their debt will pay

This Tuesday night at 4YA.

WEDNESDAY, JULY 10:

Just what they'll do it's hard to tell,  
What they won't do is stamp and yell;  
You'll find they sound a happy band  
When led in song by Kirk-Burnand.

FRIDAY, JULY 12:

An old grey College built on a hill  
Where maidens go their minds to fill,  
Columbia's the name, and you'll be  
quite wrong  
If you think they know nothing of  
laughter and song.

SATURDAY, JULY 13:

Here comes a school that sings as  
a rule  
Without the piano's aid;  
They're from Moray Place and it will  
be the case

They'll have to come again, I'm  
afraid.

Have you secured your copy of

"N.Z. Radio Listener's Guide?"

Dealers and Booksellers 2/6; Post  
Free 2/6—P.O. Box 1032, Wellington.

Now Available.

## News Items

THE Radio Wien short-wave transmitter recently carried out satisfactory preliminary tests, and will shortly be brought into nightly operation with the relay of the ordinary Vienna broadcast programmes. Details of the official times of transmission, wavelength, and power will be available within the next few days.

THE air mail liners on the new route from Croydon to India are in wireless communication with the ground throughout the entire journey. The usual wireless organisation is used on the London-Basle section, this comprising the stations at Croydon, Le Bourget, and the Marconi station at Basle. R.A.F. stations form links in the chain after Alexandria. From Basra to Karachi the machines can communicate with the Marconi stations at Chabar and Bunda Abbas, in Persia, while in the concluding stages they are in continuous touch with the powerful station at Karachi.

THE taxing of valves has often been suggested, not only in France, but in other countries, but it has usually not been found to be a very practical scheme, owing particularly to the fact that the design of receivers is continually changing, with the consequence that a valve tax which at one time seems to be equitable may within a very short period become unfair either to the Government or to the listener. A great deal of time has been wasted in regard to broadcasting in France, and the large and increasing body of French listeners now hope that a regular basis will soon be reached and that important advantages to them will result.

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The rate for small advertisements under this heading is 2/- cash for 20 words, and twopence for every other word thereafter.

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It will pay you to do so

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