

PUBLISHED WEEKLY

THE RADIO RECORD

AND

HOME JOURNAL

Vol. IV., No. 41.

WELLINGTON, FRIDAY, APRIL 24, 1931.

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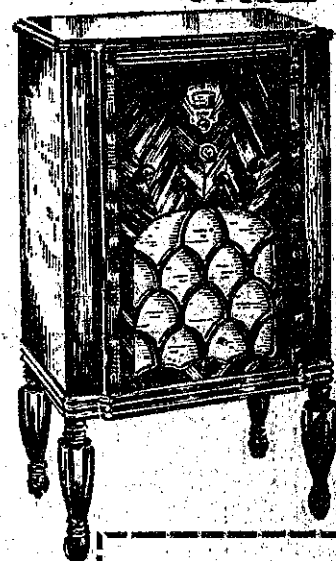
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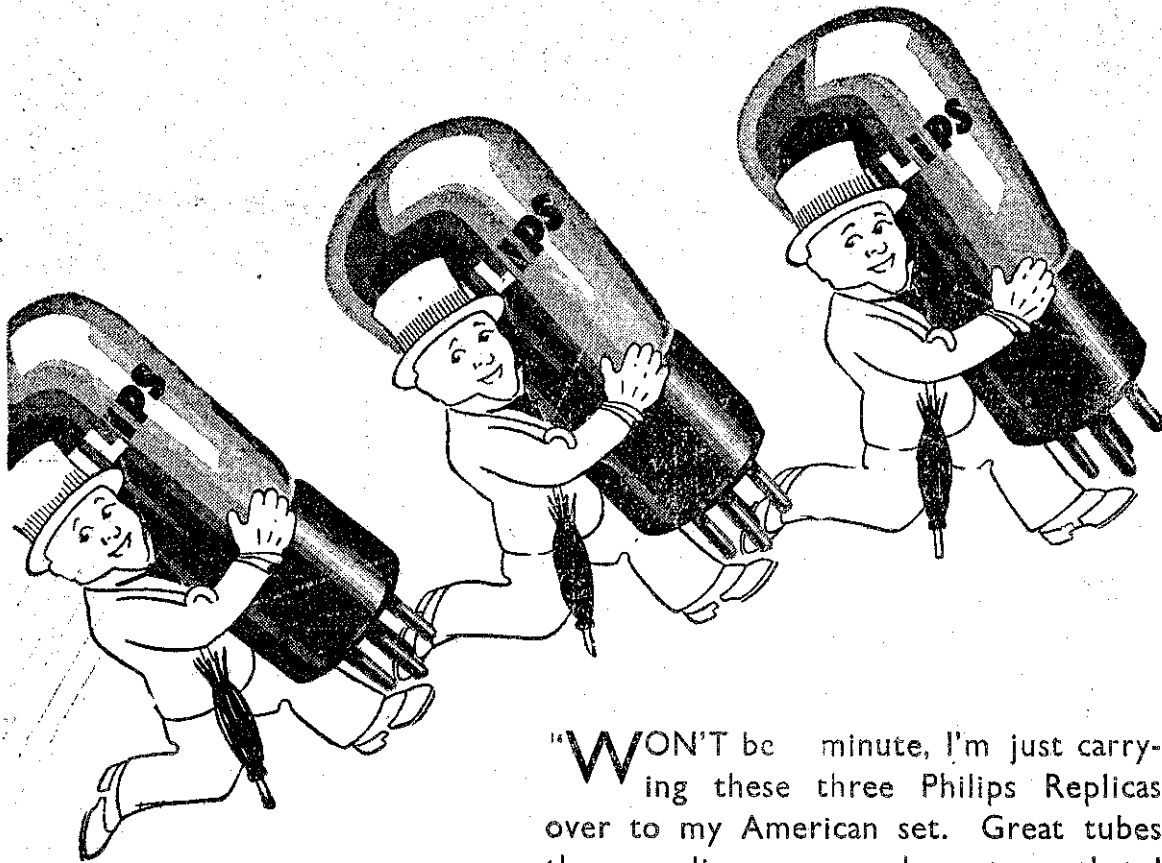
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Broadcasts for School Children

Recently 2YA extended its hours of transmission and commenced upon an important series of broadcasts for schools. In this article the Chief Inspector of Primary Schools gives his views on the subject.

THERE are, I think, great possibilities in the scheme. In England and elsewhere, school broadcasting has proved a great success, and there is no reason why it should not succeed to the same degree in our country. There are many difficulties to overcome, and it will be some considerable time before the scheme is properly in operation.

Teaching by radio does not end—nor for that matter begin—with the lecture over the air. The child, before he can assimilate, must be taught, and this requires the active co-operation of the teacher. This is possible only through extensive preparation on the parts of lecturer, Department and teacher.

Right from the onset we are handicapped and cannot give assistance in the most vital aspect—the purchase of radio equipment. Much as we would have liked to subsidise teachers and committees, this, during the present financial stress, is quite impossible. However, we are optimistic enough to imagine that ways and means will be found by the teachers and their committees to overcome this difficulty.

In some districts sets have been loaned to the schools; in others the pupils of small schools have gone to neighbouring homes where radio is installed. No doubt steps will be taken to ensure the regular reception of these broadcasts. 2YA, it appears, comes in satisfactorily in most parts of the country, for already I have had letters from far North and South reporting satisfactory reception.



MR. N. T. LAMBOURNE, the recently-appointed chief inspector of primary schools, believes that broadcasting to primary schools should prove most beneficial.
—A. F. ANDREW, photo.

Apart from the consideration of providing the set, the most essential factor is the co-operation of the teacher. Children will not sit for an hour and listen to someone talking. They want to be doing something. It may be following a lecturer in geography with a pencil and paper, or watching their teacher following the remarks by using a large map or illustration; it may be singing; it may be doing certain forms of handwork to the instruction of the lecturer. It may even be copying something that comes over the air. There are, without doubt, many ways in which children can be interested; they need not be kept sitting still, just listening to what is being said.



MR. T. STRONG, Director of Education, under whose purview broadcasts to school children were commenced.
—Crown Studio, photo.

Before these aids can be made use of, the teacher must be warned of the broadcast and given a chance to prepare for the lesson, as he would for one he would take himself. The logical way is to publish an illustrated booklet, outlining the subject matter of the talk, illustrating it, and asking typical questions to be answered after the broadcast. This is the system employed in England. In New Zealand, of course, this may not be possible for some time to come, but there is the monthly journal, the "Education Gazette," by which a fair amount of information can be conveyed to the teacher. Ways and means exist for making the scheme a success as far as the co-operation of the teacher is concerned.

By introducing to the children so many specialists a new fund of information is tapped. I have received a few letters from teachers commenting on Mr. Strong's remarks regarding weather and climate on Tuesday last. They state that those few remarks have opened up new channels they can explore. It will be remembered that Mr. Strong, in speaking of the weather, said that it would be a good idea if children in different parts of the country, wrote to one another and compared notes concerning, for instance, the effects of different winds, they would find out first hand many facts concerning our climate. It is the presentation of this idea simultaneously to the pupils in localities far distant from one another that encourages its adoption. And this simultaneous presentation can be brought about only by radio.

WE hope to do more than talk during the hour these broadcasts are taking place. It will be possible, I think, actually to conduct lessons. You see, it is not our intention to lecture—we propose to teach. We are opening up a new field with tremendous possibilities and not a few obstacles. We want the co-operation of all concerned, from lecturer to parents, and judging from the response and interest that has been shown so far we shall get it.

We are arranging an excellent schedule, and it can be seen that prominent authorities are co-operating with us. For the next two weeks the lectures and lecturers are:—

Coming educational broadcasts are: Tuesday, April 21, 2 p.m.—Mr. W. W. Bird, Superintendent of Native Schools and Island Education, "Geography of the Far North of Auckland."

Miss F. M. Hind, Normal School, "Heroes."

Mr. E. Douglas Tayler, Supervisor of School Music, "Illustrated Talk on Music."

Tuesday, April 28, 2 p.m.—Mr. W. S. La Trobe, Superintendent of Technical Education, "Tools."

Mr. R. J. Waghorn, M.A., Lecturer, Wellington Technical College, "Making Geography Interesting."

Mr. E. Douglas Tayler, Supervisor of School Music, "Illustrated Talk on Music."

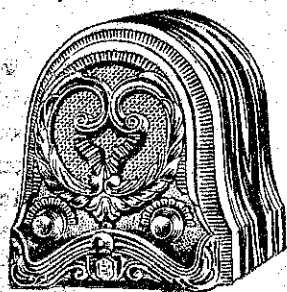
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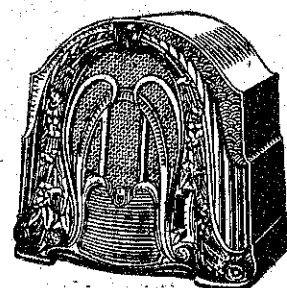
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TANNHÄUSER

Wagner's magnificent grand opera, "Tannhauser," will be presented in concert form by the Royal Christchurch Musical Society in the Civic Theatre, on Wednesday, April 29, and will be broadcast by 3YA. This performance will be one of the finest productions yet given to the public by this society, the musical director of which is Mr. W. H. Dixon, L.R.A.M., A.R.C.M. A full chorus and orchestra will take part in the presentation and the roles of the soloists are well cast.

TO many persons "Tannhauser" is the greatest of all operas. It represents a period in the life of the author, Wagner, before he had abandoned the opera form for the music drama. Its music is of noble character throughout. It does not, like the "Ring of the Niebelungen" deal chiefly with the sins and the weaknesses of pagan gods, but with those of aspiring, suffering, self defeated humanity. To those who look for the moral lesson in a work of art, there is disappointment; for the whole opera, with its magnificence of structure and its richness of detail, at the bottom only typifies the struggle between the good and the baser elements of the human soul.

The operas of Richard Wagner fall into two classes. There are those—like "Parsifal" and the Ring series—which bore plain people and delight the intelligentsia. There are the earlier works—like "Tannhauser"—at which too clever people sniff, and which, with their beautiful melodies and clear stories, please the majority.

WAGNER was the first composer to write the words as well as the music of his operas, thereby obtaining a completer harmony between what may be called their bodies and their souls. His plots were usually taken from Germanic national legends, that of "Tannhauser" probably proving the most popular. A wandering minstrel of that name seems to have existed in the thirteenth century, while the hero of the legend was a converted rake. After plunging into a vortex of pleasure on the Venusberg, he was rescued by the blessed Virgin and went to Rome to seek absolution. But this was denied, and he returned to his voluptuous joys.

Wagner embroidered on this, promoting the wandering minstrel to be a romantic knight at the Court of Thuringia, where tournaments of song had superseded the clash of lances. Princess Elizabeth, the beautiful niece of the reigning Landgrave, used to bestow

CHARACTERS:

Herman—Landgrave of Thuringa—Bass	 T. D. Williams
Tannhauser—Minstrel Knight—Tenor	 R. T. Laurenson
Walther—Minstrel Knight—Tenor	 S. Andrews
Biterolf—Minstrel Knight—Bass	 J. T. Wilson
Schreiber—Minstrel Knight—Tenor	 H. Blakely
Reinmar—Minstrel Knight—Bass	 R. S. H. Buchanan
Elizabeth—Niece of the Landgrave—Soprano	 Mrs. C. Tail
Venus—Goddess of Love—Soprano	 Mrs. C. Tail

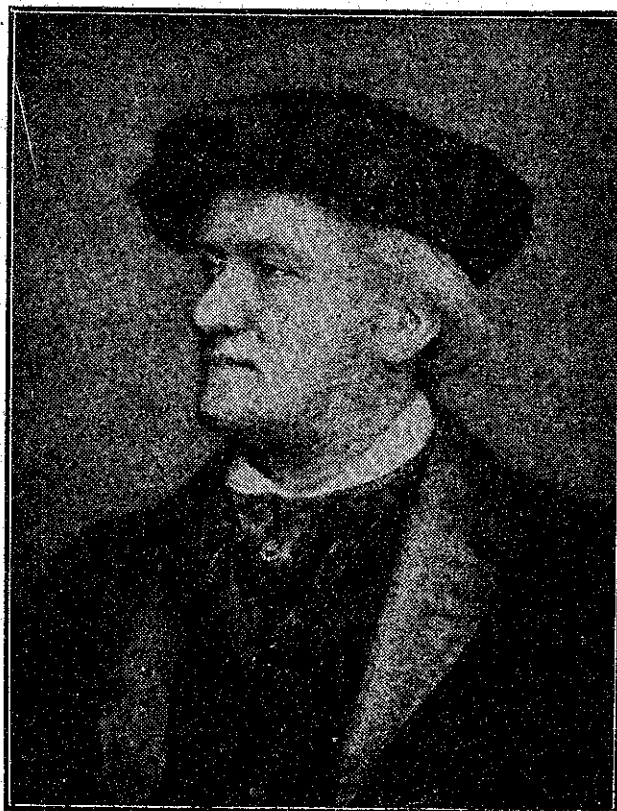
guerdons of flowers upon the victors, among whom Heinrich von Tannhauser was usually supreme. Indeed, the tender touch of his harp and the wonderful trills of his rich voice bewitched Elizabeth, so that her fair hands trembled as she wreathed his brow with flowers.

But Tannhauser was a child of Nature, imbued with strong animal passions, and a life of song and flowers and courtly graces did not content him, even with the crowning hope of a lovely princess as his bride. So one day he sped away to the Venusberg, where the Goddess of Love presided over wild revels, luring men's souls to perdition. Elizabeth wept and pined, taking no further interest in tournaments of song; and, meanwhile, the lost knight abandoned himself to sensual delights, taking no heed of the lapse of weeks, and months and seasons.

OF a sudden, however, at the end of a year, he awoke as from a trance, and realised the satiety of pleasure. Though sirens and naiads of transcendent glory disported themselves about the pink waters of a gleaming lake, though the air was filled with celestial strains and Venus showed herself exceeding kind, Tannhauser heard the call of church bells, the call of duty and godliness and honest toil.

Venus was loath to let him go; she cursed him and condemned him to misery and scorn. But presently we see him kneeling amid pastoral surroundings to return thanks to Heaven for his release. And thus he was found by the minstrel knights of Thuringia on their way home from a hunt in the forest. They were a brilliant cavalcade of knights and squires, all clad in Lincoln green as they streamed down the valley with Tannhauser in their midst.

A grand tournament of song was announced, with the hand of the Princess as victor's prize. The theme was the praise of love, and young Wolfram sang how he loved her from afar, how his only desire was to die in her service. Others followed in the same strain, but when the turn (Concluded on page 29.)



Richard Wagner.

The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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WELLINGTON, FRIDAY, APRIL 24, 1931

WHY NOT PUSH ON BROADCASTING?

INFORMATION was published this week regarding the progressive development of the system of regional stations by the British Broadcasting Corporation. The new North Regional Transmitting Station being erected at Slaithwaite, on the Yorkshire moors, at a cost of £160,000, is shortly to be opened. Its purpose will be to provide alternative programmes for listeners in this area. It will serve not only as a medium for the transmission of London broadcasts, but will develop a life of its own in portraying and expressing local culture. Another regional station at Falkirk, Scotland, is in the course of erection, so that the completion of the Corporation's full regional system is almost in sight.

Some two years ago the Radio Broadcasting Company submitted to the Government a scheme for the establishment of relay stations in main provincial towns. These were designed to relay selected programmes from the main stations, with all of which they would be linked up, and also through their own studios to give opportunity for the talent in the towns concerned to be utilised. That scheme, of course, was dependent upon a readjustment of the terms of the Company's contract with the Government. No public action was taken by the Government in connection with it, but last session announcement was made by the Postmaster-General that, on termination of the Company's contract, it was intended to take over the service and embark upon the provision of a system of provincial stations throughout the Dominion, much on the same lines as the scheme submitted by the Broadcasting Company. Action was suspended pending submission of final details to Parliament this year. Since that time the economic situation of the country has suffered a drastic change.

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To-day the Dominion looks forward to an anticipated deficit of no less than £5,500,000 in its accounts for the financial year just begun. This fact seems to us to have a material bearing upon the broadcasting situation, and to make it expedient for the Government's ideas to be re-cast. From the radio point of view an expanded service is wholly desirable, and valuable time has been and is being lost. Particularly in times of depression is radio important. It provides cheap and effective home amusement and instruction. What is required now to make radio of more use to the Dominion is the provision of more stations, linked in a comprehensive way, which will permit of a bigger population being served. The whole point is, who is to provide that expanded service?

We suggest that the Government should face the facts. With a drastic deficiency of £5,500,000, the Government obviously has but little money to spare for buying out the present Company and for additional capital. Apart from that fact, we believe it is increasingly recognised that it is better for the radio service to be in the hands of an authority other than the Government, in order to secure fullest promptitude of action and economy. Where Government administration is involved, there inevitably grows up a system of routine involving much red tape.

The population as a whole would be glad to see the broadcasting facilities extended in every way possible. The expansion indicated would make available the best of provincial talent for relay to town audiences, and town programmes for relay to country audiences. All parties would thereby benefit. The whole question is, has the present system failed and wherein can it be improved? There is also the economic situation as it stands making it extremely undesirable for the Government to add to its capital expenditure and administrative responsibilities and the jettisoning of six years of steady and progressive development of a service carefully planned and regulated by the Government of the day—all for what?

Talks About Africa

Safety at Sea

An International Night

Prophecy by Marconi

ON Wednesday evening last week and again last Wednesday, 2Y.A. listeners had the pleasure of hearing broadcast talks by Mr. E. J. Howard, M.P. on the subject of Africa. Mr. Howard was one of the Parliamentary party which visited South Africa some years ago, and he is well acquainted with the history and present-day conditions of the past continent, particularly that portion of it south of the Equator. Mr. Howard's talks have been singularly appropriate to International Night.

SENATORE MARCONI, in a recent interview, said that wireless two years hence would make the world very small. He envisaged squadrons of bombing planes being sent out without pilots.

"I am actively engaged in short-wave length experiments, one application of which will make collisions at sea more difficult," he said. "Ships will be able to place a wireless band round themselves, making their position immediately known to others entering the band."

"If the aircraft-carrier Glorious and the French liner Florida had been fitted thus the disaster in the Mediterranean would not have occurred."

Enormous American Radio Trade

ALTHOUGH the United States of America claims to have in use upward of 80,000,000 radio sets, the radio trade is not satisfied that saturation point has been reached. Proposals were recently made for the establishment of a 10,000,000 dollars advertising fund by the radio industry. This fund would be spent in newspapers, to give details of major broadcasts, and would be supplementary to the other funds spent by radio manufacturers, individuals and broadcasters. Tribute was paid by the promoter of the scheme to the valuable publicity work rendered to radio by newspapers, but the need was stressed for fuller co-operation in order to perfect the use of radio.

Radio In Canada

ANNOUNCEMENT was made some time back that the Canadian Government intended to establish Government ownership in the broadcasting service, and conduct the service somewhat on the lines of the British Broadcasting Corporation. This development is hung up for the time being, as the Provincial Government of Quebec has made a formal claim to jurisdiction over radio within its borders, and has taken its case to the courts, based on its reading of the British North American Act. This makes it improbable that any national broadcasting policy can be determined this year.

Weather Reports

Value to Shipping

TOWNSFOLK sometimes grow impatient when listening to the details of the weather report as broadcast by 2YA, but throughout New Zealand, especially in the country districts, the information thus given is greatly valued. An indication of its importance to shipping can be gained from the following extracts from a letter received by the Broadcasting Company from Captain L. Boulton, of the M.V. Maui Pomare:—

"I desire to place on record my appreciation of the convenience and value of the weather forecast and report which is broadcast from your station 2YA each evening.

"It will be readily understood that weather reports are of immense value to shipping, forecasting as they do the conditions which will be encountered by vessels in different positions and steering various courses."

Captain Boulton adds that the ship's wireless operator, Mr. Hooker, rarely experiences any difficulty in receiving the reports.

"Joan of Arc" at 2YA

A Triumph in Radio Presentation

THE "Joan of Arc" presentation from 2YA last week (Monday, 13th) was a triumph of production, and Mr. Montague deserves praise for his striking presentation of this remarkable historical play.

The cast was excellent throughout, the effects were remarkably vivid and helpful, and most especially was this so of the cheering multitudes, with the ringing of joy bells, the marching and the clash of arms, and again in the final scene when the fires are lighted and the unhappy Joan is consigned to the flames. Many of the lines are deeply moving, and numerous messages and letters show that many listeners were unable to restrain their tears when (to quote the text) "this Saint of God, who had saved her unhappy country from its enemies, was consigned to a cruel and ignominious death."

The whole of the incidental music and the entr'acte selections were beyond praise. By careful and discriminating selection it was made to harmonise with the words and the story throughout. Specially noteworthy was the "Virgin" theme (marking each appearance of Joan), the Coronation March, the singing of the Te Deum in Rheims Cathedral, the Cesar Franck selection toward the close, and the final singing of the Tenebrae music, seeming to waft Joan's soul to Heaven. Altogether a great and wonderful broadcast.

To Miss Mary Cooley's performance as Joan the warmest praise can be given. It was a rendering of great artistic excellence. As Mr. Montague remarked afterwards, "It is seldom that anyone has the chance of playing a part like Joan, and it is seldom, too, that one can find anyone as capable of doing it as Mary Cooley."

Excerpts from MARITANA and CARMEN

by the
Grand Opera Quartette
from 3YA Thursday, 30th



"Avonera"
"Toreador's Song"
"Of Fairy Wand"
"Yes, This is the Haunt"
"The Flower"

Radio Trade

Set Design Stabilised

AS radio is providing the cheapest entertainment known to the world its trade is almost as brisk as ever, according to Mr. E. T. Fisk, at the annual conference of A.W.A. Radiola dealers in Sydney on March 11.

Mr. Fisk remarked on the development of radio manufacture in Australia, and mentioned that only the previous Saturday Amalgamated Wireless had been in direct communication from Sydney with the new Burns, Philp liner Maedhui in Scotland. The Maedhui was making her trial trips on the Clyde and the distinguished gathering on board were surprised and delighted to receive direct messages from Australia. The equipment used at both ends was de-

signed and manufactured at A.W.A.'s own works in Australia.

The recently opened telephone service between New Zealand and Australia employed Australian-made instruments at each end, and a few days ago a high-speed direct telegraph service between Sydney and Papua was inaugurated.

Referring to the present conference, Mr. Fisk pointed out that one of the most important questions for consideration was the conditions of markets, as the public to-day was more conscious of values and prices. The sets of to-day had reached a fine state of stabilised design and would not be fundamentally altered for a long time to come. "Some people," he said, "are anxiously looking forward to television sets being placed on the market within a year, but so far as the present lines of development were concerned, it will be many years before public television would be available in the same way as public broadcasting."



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shipment of Gilfillan's
LYRA-TONE
MIDGET

Arrives April 31. Nearly 100 of this month's shipment already booked. Get in early.

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Distinguished Lecturer from 2YA

Will Lawson Before the Microphone

ONE of the best-known authors in the southern hemisphere will broadcast shortly from 2YA. This is Mr. Will Lawson, the distinguished prose writer and poet. He will be heard in a lecture on the East, a subject in itself fascinating, but which will be doubly so when in the capable hands of this speaker.

In 1893, Mr. Lawson started out on his career in the A.M.P., Wellington, and until 1912 he pursued the vocation of a clerk. In the meantime, however, he also wrote and published two books of verse. Wishing to pay more attention to poetic work, he relinquished his position, later proceeding to Blenheim to do publicity work for the Progress League. From there he went to Sydney and held positions on the "Bulletin" and "Smith's Weekly." During this time he devoted more time to authorship and began to publish a series of books, for which he has become justly famous. They include "Pacific Steamers," a story of trading between New Zealand and Australia, "Three Kings, and Other Verses," "Steam in the Pacific," "Stokin' and Other Verses," printed in New Zealand, "Between the Lights," and "Red West Road."

More recently Mr. Lawson visited Japan and U.S.A., then New Zealand on the Malolo. On the present trip he will be in New Zealand for a short time on business, and will take the opportunity of speaking from 2YA and 4YA.

DURING the war, Mr. Lawson performed service in the training camps, and on one occasion was travelling from Australia to New Zealand when the German raiders Scharnhorst and Gneisenau were cruising in the Pacific. At the time of the crossing in question, these two cruisers were coming down the Queensland coast. It was in the days when radio was in its infancy and few ships were equipped with it, but the Moeraki, on which he was travelling, was. Imagine the consternation of the officers when the wireless operator picked up a message from one of these ships and learned that they were only 150 miles from Sydney, and before long could be expected to appear on the horizon in quest for plunder.

"Of course," added Mr. Lawson, in telling us of the adventure, "none of the passengers knew, and we kept the fact well hushed up. We were afraid to use our radio because that would give away our position. We knew that the Sydney and a French cruiser were near Sydney harbour and that the raider would not venture there. However, when we were 'out of earshot' we radioed the French cruiser and told her of the proximity of the raider, which, however, had turned back, and was by this time making north. That was my introduction to radio—not altogether a pleasant one."

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Notes and News from the North

A NUMBER of plays are to be broadcast from 1YA during the next few months, these including "And So To Bed," arranged by Mr. J. W. Bailey, on May 5; "Treasure Island," arranged by Mr. J. F. Montague, on June 2; "A Mystery Play," written by Dr. G. de Clive Lowe, arranged by Mr. J. M. Clark, on June 16; and "School for Scandal," presented by the 1YA Radio Players, on July 1.

AN added degree of luxury is provided by an Auckland taxi-driver, who has fitted to his car a one-valve receiving set, which is producing very satisfactory results. The aerial is fitted to small brackets on the roof of the car, the current being taken from the car battery by plugging-in to an interior lamp. The earth wire is merely attached to the chassis of the car. No difficulty is experienced in hearing 1YA on the earphones, although interference is apt to be bad. In its present state, the set is chiefly used by the driver for his own entertainment while waiting fares, but he hopes to install a three-valve set, complete with loudspeaker, so that passengers can listen as they ride.

THE annual meeting of the Auckland Radio Dealers' Association was held on April 15, the president, Mr. C. A. Tucker, presiding. A year of successful activities was reported. It was stated that the association had devoted a large amount of time to considering the questions of the future control of broadcasting in New Zealand and the extension of hours by the A stations. The following officers were elected:—President, Mr. C. A. Tucker; vice-presidents, Mr. E. R. Boucher and Mr. C. M. Abel.

MR. DUDLEY WRATHALL, formerly programme organiser at 1YA, and now occupying a similar position at 4YA, spent a few days in Auckland last week.

"DREAMS of Long Ago" is the title of an old-time musical programme to be given from 1YA on May 13, the Broadcasting Choir and the Orchestral Octet supplying the evening's entertainment.

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Professor Zimmerman Appears from 3YA

Eminent Austrian Musician

FEW people commence the study of their chosen profession at the age of two and a half years! Yet that can be said of one of the most picturesque musical figures in New Zealand, Professor Zimmerman, of Christchurch, who, after carrying on for years the musical tradition of his family, has for some years been teaching the violin in

hope guide the tiny fingers and the miniature bow. It was not long before the old man found that his pupil was a worthy descendant of a line of musicians which extended back some 300 years.

There are manuscripts in Professor Zimmerman's home in Christchurch, fragile and faded with age, which have been handed down through ten generations. They are compositions of early Zimmermans which show more clearly than tradition just what were the capabilities of his gifted forbears. The paper is yellow with age, and must be handled with the greatest care, but the script, beautifully done in an age when penmanship was a fine art, is as clear as on the day when it was written. The Professor himself has added many fine compositions to this collection of manuscripts.

In New Zealand the Professor is better known as a teacher, and that is not surprising, for he himself was taught by Leopold Auer, perhaps the greatest teacher of the violin the world has ever known. Auer numbered among his pupils Mischa Elman and Heifetz.

Few people have had a greater or more happy association with the musical world than has the Professor. Among his own associates on the concert platform have been Madame Dolores, Madame Travelli, Madame Belle Cole, Signor Poli, and the great pianist De Konotsky.

In his studio by the River Avon, the pupil has a surrounding unique with musical associations, and is taught in an atmosphere that in itself is an encouragement to the music. It is an Old World room, in which one immediately feels at ease, and there this musician imparts his knowledge and some of his inspiration to the coming generation.

Professor Zimmerman is fulfilling a number of engagements as a solo violinist at 3YA. He makes his second appearance at the Christchurch Station on Thursday, April 30. He will play to orchestral accompaniment, and lovers of the violin, when played by such an artist, can anticipate this broadcast with pleasure.



As a newspaper caricaturist sees Professor Zimmerman.

this country, with a success that is best witnessed by the achievements of his pupils.

Professor Zimmerman was born in Vienna, and it was there that his grey-haired grandsire would take him on his knee and with infinite patience and

Multiple Telegraphy System

A Startling Prophecy

A CONFIDENT prophecy that within the lifetime of most people telegraphy would be so cheap that it would take the place of ordinary business letters to such places as Australia or China, was made at a demonstration of the Stenode Radiostat system of multiple telegraphy in London recently by Lieut.-Col. Adrian Simpson.

"The time is coming," he stated, "when it will be possible to send a telegraphed facsimile letter which will be

delivered at the other end within 24 hours or less by the ordinary postal organisation. The result must be an economic revolution in communication."

The system of multiple telegraphy which, he said, would bring this about, is a development of Dr. James Robinson's Stenode Radiostat wireless invention, which gives selective reception far in advance of general practice.

At the demonstration messages were sent automatically over about 240 miles of land line to Bristol, and thence back again to London, where they were recorded on paper tape by the Creed receiving instruments. Transmission took place at about 80 words a minute, a speed higher than usual in commercial printer working. Three channels of communication were used on the one line without any interference.

Radio to Papua

Direct Telegraphy

THE new high-speed direct radio telegraph service established between Sydney and Port Moresby, Papua, was formally opened recently by Mr. Leonard Murray, Official Secretary to the Papuan Government, on behalf of the Lieutenant-Governor of Papua.

Mr. E. T. Fisk, managing director of Amalgamated Wireless, explained the working of the new system to a gathering representing the commercial interests of Sydney and of the Pacific Islands. He stated that the new service would give a speed of 100 words per minute for telegraphic messages, and eliminate the long telegraph line route to Townsville, via which the service was formerly conducted. Eventually it would be possible to provide a telephone service between Sydney and Port Moresby, although at present the traffic did not warrant it. Undoubtedly the time would come also when telephone services connecting Australia with the whole of the Pacific Islands would be established. In the meanwhile it was hoped before long to establish a high-speed direct telegraph service between Sydney and New Guinea.

Mr. Murray, on behalf of the Lieutenant-Governor of Papua, sent the first message over the new circuit, congratulating the commercial houses and the people of Port Moresby on the completion of this modern high-speed station, and pointing out that the new service would facilitate Government and commercial business and place Port Moresby in closer touch with Australia. Even the older and indirect radio service had been nothing but a blessing, and the new modern direct service would be of even greater advantage.

New Lighthouse Tender

Comprehensive Radio Equipment

THE s.s. Pole Star, the new lighthouse tender of the Northern Lighthouse Board, Scotland, is being equipped with a Marconi telephone set, to enable the officials on board to communicate with the board's stations ashore, and with direction-finding apparatus for the assistance of navigation.

The telephone equipment consists of a combined transmitter and receiver, a compact and simply operated instrument specially designed for this type of service, or as a portable station ashore. The transmitter has a power of 100 watts. The wireless direction finder fitted on the Pole Star is the latest model of the kind, operating in conjunction with a fixed double loop frame aerial.

Owing to the high efficiency of the amplifying arrangements in this type of direction finder receiver, it has been possible to reduce the type of double loop frame aerial employed to very small dimensions, and it can be fitted on any part of the deck without becoming obtrusive.

Football Broadcasts Again in Limelight



THE hardy annual, the question as to whether or not the Rugby matches will be broadcast this year, is again with us. Rugby authorities would have us believe that broadcasting is ruining the sport—or rather, not the sport, but its finances, which seems to be the more important side. The Canterbury Rugby Union, for instance, takes the stand that if the Broadcasting Company pays (presumably the amount estimated by the union as the loss caused by the people who prefer a broadcast description to seeing the actual event), permission to broadcast will be granted. Capping their attitude they argue that in any case, as the Rugby Union arranges matches at its expense, the Broadcasting Company should not be permitted to carry out broadcasts without paying for the right to do so.

This last argument suggests that, after all, there may be some doubt as to whether broadcasting does really cause a loss in the gate takings—but that, nevertheless, the Broadcasting Company should be made to pay royalty for each match broadcast.

That, at any rate, is a definite stand for the union to take up. Hitherto it has been wrestling in a sort of catch-as-catch-can way with an unorthodox adversary, or what it thought to be an adversary. We have seen all manner of weird "holds."

In the case of the Canterbury Union, which was afraid of the "gate" being affected on wet days, it reserved the right to cancel the broadcasts on those unpropitious afternoons. This "hold" slipped badly one week when 3YA could not announce till the very last minute, when it went on the air to do the match, that the broadcast had been cancelled.

This was a good test, but the very large attendance at the match did not suggest that many people had stayed at home, preferring the broadcast to seeing the match. This was an experience that made the union stand off and survey broadcasting from another corner of the ring.

Last year we had the spectacle of the Christchurch Union insisting on all or none of the local games being broadcast. What conclusions were drawn from that experiment have not been published. But this year the union says, "Cash up, and no argument." It is certainly a more dignified stand than the manoeuvres previously witnessed.

Securing £ s. d.

THE question of securing £ s. d. seems to be the main thing that the Rugby authorities are concerned about. They seem to see the value in broadcast publicity all right. If a description of a match is good, they think people will prefer it to seeing a match for themselves; if an announcer does not enthuse over the play they think people will not attend next week's match.

This was actually an acute point and caused a rift between the New Zealand Rugby Union and the Broadcasting Company a couple of years ago. The New Zealand Rugby Union au-

Trenchant Criticism by Rugby Follower

[Contributed]

thorities insisted that the sports announcer of the company should not indulge in any expression of personal opinion as to the merits of players—except, presumably, to say when they did well.

There must be no adverse comment. Thus, if a man fumbled the ball, the announcer was not to say so, because, after all, it might be only the announcer's opinion, as the player may have intended just what he did!

So poor old broadcasting got the kick both ways. But the newspaper critics could say what they liked about the standard of play and of the players. The union would tolerate the most drastic written criticisms, but not verbal ones over the air. It was a strange attitude for men to adopt, but it was an unconscious tribute to the power of broadcasting.

THIS attitude of the Rugby authorities, which is almost typical of their attitude right from the inception of broadcasting, shows how they have failed to realise or endeavoured to take advantage of the potentialities of the wonderful development of science. They have looked upon broadcasting as an enemy and have sought for only the worst side of it. But as broadcasting is in the world to stay they should make the most of it.

The people who refuse permission to broadcast on relay consider that by so doing they are penalising the Broadcasting Company.

Why they should want to do so is not at all clear, as the company is a semi-public institution in the same category as a newspaper, which

is afforded every facility for reporting events.

But it is not the Broadcasting Company which will suffer. The benefit to be derived from the publicity is far greater than is the loss to the Broadcasting Company if an event is not broadcast.

"The better a broadcast is, the better it is for the sport. No follower of a sport would stay at home just to listen to a description of the game. He would be disappointed with a poor description, and if he heard a thrilling account he would feel that he had missed an exciting event. He would look rather shamefaced when he had to confess to his mates next day that he had stopped at home and listened-in, in order to save a shilling.

There is no broadcast that can quite come up to seeing or hearing the real thing, and everyone who listens to a thrilling account cannot fail to think that the real thing must have been much more exciting.

So, the more brilliant a description is, the better it is for the sport, because it enthralls people who are not very interested and invites them to attend the sport next time.

The Broadcasting Company has always sought to encourage sport, and particularly amateur sport, in New Zealand, but it has never been able to see that it should pay for the publicity which it gives, any more than a newspaper should be expected to pay for publishing a description of a match.

Last year, on the occasion of the tour of the British team, the Broad-

casting Company went to great expense, and although it is not publicly admitted, the financial success of the tour exceeded all anticipations. This was largely because of the publicity given by radio.

WHO would hazard a guess as to the number of people who listened-in to the description of the first match of the tour, played at Wanganui and broadcast by 2YA and 3YA? That broadcast ensured the success of the tour. It aroused phenomenal interest, which interest continued until the final. Many thousands of people who never had an opportunity of seeing the matches in reality saw them through the announcer's eyes.

Will anyone suggest that the attendance at any match suffered because the match was being broadcast? "No, but the attendance at country games played at the same time was," will be the retort. Even so, was it not worth while for the good of Rugby in general? The whole tour was undertaken for the purpose of stimulating interest in Rugby and it succeeded in its purpose, thanks largely to broadcasting which was carried out, handicapped—right and left by the Rugby authorities, who should have invoked the aid of the Broadcasting Company as being the first essential to the real success of the tour. Broadcasting, conducted by a capable announcer, is the greatest friend Rugby can have.

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Mr. Henry Ford, of Detroit, in conference with Dr. A. F. Philips outside the laboratory of the Philips Lamp Works, Holland.

THE Editor has asked me to keep an alert ear open to the Voice of Michael. "Michael" is my friend the microphone. Every night he gives me something of interest. Of music there is a plenty. And I like music in my own way, but of it the Lord knows I am no critic. I can detect "God Save the King" from "Onward, Christian Soldiers" principally by the fact that "God Save" comes at the end of most performances, while "Onward, Christian Soldiers" was firmly fixed in boyish memory by the rhythmic roarings of that tune by massed thousands at the Torrey-Alexander Mission. The music of Michael is therefore chiefly of interest as a pleasant background to my reading. By long immunity, engendered by concentration even above the clash of the linotype, I can read happily whether the brass bands are blaring or the cymbals tinkling, and only occasionally am I forced to avoid the penetrative sharpness of some super-excellent soprano, excellent in her field, I make no doubt, but disturbing to me personally. No, my function in these pages is not the harrowing of musicians. Let others do that. But the speechmakers, the talkers: they are to be my subject. Unable to read against the talking voice, I am compelled to listen. Listening, I criticise, and carrying that criticism into these columns I hope to interest listeners by genially cheering or jibing the talker, and recording the more important points of discourses of note. That is to be the spirit of this page.

I WAS agreeably pleased by the talk on South Africa on Wednesday evening last by Mr. E. J. Howard. In matter he was excellent, displaying a comprehensive knowledge which permitted an admirable pen picture of the State, its history, development and possibilities to be graven on the minds of listeners. Were I Pecksniffian in attitude, the paucity of final g's and the occasional complete absence of the initial "h" might be dwelt upon, but these omissions I cheerfully forgave because of a definitely attractive radio voice used in telling a story plainly holding the deepest interest for the lecturer. And that, I think, is the whole essence of success in the Voice of Michael. The lecturer is forced to rely only upon his voice: he is deprived of stage presence and dominance and the intimate contact with his audience. His voice alone is his emissary; how important therefore is the quality of that voice. And it is the capacity to convey the personality and interest of the speaker in what he is discoursing upon that accounts for the effect attained. The professorial or artificial tone is usually fatal. While I love pure English, the rounded phrase and the well-toned voice, I detest artificiality and affectation, and I loathe the quick-voiced, snappy jargon of many of our colonial speakers. Radio is ruthless in its revelation of them, and if my experience in the past is any guide to the future, I anticipate the need for some crisp reflections upon some radio speaking voices and manners. In that however, let there be no spleen or guile. I like the voice of Michael, and want his voice to be ever better and better; hence my mission. Meantime, congratulations to Mr. Howard; forgiven are minor verbal crudities for the sake of a live subject vividly handled. There is romance in Africa and a rare future

The VOICE of MICHAEL By "CRITIC"

awaits that dark continent. If he talks again I'll listen.

ON Tuesday night last I tuned in to IYA and was entertained by a strong cast of players supporting a rather thin play. This is not infrequently the case. The leading role of Mrs. Cyrus K. Schnyler was extremely well portrayed by Mrs. Zoe Bartley-Baxter. It was the evident intention of the author that this character should be the modern conception of a fairy godmother. Leaving England at an early age, Aunt Daphne strikes oil (literally) on property purchased by her in the United States. She returns many years later in the guise of Mrs. Cyrus K. Schnyler, a name assumed for business purposes after her sudden enrichment. She stays (strictly incognito) at the home of her favourite nephew, Douglas Montalban, and his wife June. The former is a brilliant, albeit unsuccessful playwright. June is an equally brilliant and equally unsuccessful pianiste. Their lack of financial support does not preclude this happily married couple from retaining the services of the usual trusty servitor in the shape of a nurse-companion, by name Susan, and a little maid-of-all-work, Peggy. On this home of bliss, so nearly on the financial rocks, descends Aunt Daphne as Mrs. Cyrus K. Schnyler, introducing herself as a friend of their dear Aunt Daphne. Taking only the trusty Susan and a lawyer (Mr. White-

head) into her confidence, she proceeds to draw large cheques, and in the course of a very brief interview "persuades" Mr. Goldmeyer to produce one of Douglas's plays on very lucrative terms to the author. Her persuasive methods, coupled with shrewd business tactics, and backed by her omnipotent cheque book, are similarly successful in arranging a comprehensive concert tour for June. Nor do her benefactions cease at this point; learning that Peggy (the-maid-of-all-work) is possessed of a chronic invalid for a father, and several young sisters and brothers, she provides a handsome annuity for the family, coupled with a cash gift of sufficient size to make an immediate holiday in Cornwall possible. For services rendered and about to be rendered the worthy lawyer receives a gift-salary of £1250, "quite apart from and in addition to the usual fees arising out of the transaction of my present and future business." Mr. Whitehead is suitably overwhelmed. To make assurance doubly sure, Aunt Daphne deeds £1,000 a year each to Douglas and June, besides buying them a fully furnished country mansion. News of all their good fortune is delivered by post on the following morning. An ingenious "slip" in the secrecy plans of Aunt Daphne forces her to an early disclosure of her identity and the source of their overwhelming blessings. A touching scene of mutual affection and general goodwill closes a very harmless, if slightly bilious, play. The incidental music

was in keeping with the play theme—sweet and pretty. I was particularly glad to find that the motif underlying much of it was a canary and not the effect of my neighbour's set squealing! Deserving of particular reference in the execution of somewhat trying parts (in addition to the work of Mrs. Baxter, previously mentioned) are Mr. Jack Gordon as Douglas, Miss Muriel Fisher as Peggy, Mr. Walter Brown as Signor Giuseppe Lucielle (the impresario who is persuaded into arranging June's concert programme). But signal praise in a cast of such all-round quality is perhaps unnecessary. I look forward with enthusiasm toward hearing them again in a stronger play which will further extend their obvious talent.

AT the commencement of Mr. Holloway's talk on tar and its by-products, broadcast from IYA, my sincerest sympathies were with the speaker. For, said I to myself, how can he condense such a subject into the short space of time, at his disposal? Particularly as Mr. Holloway courageously introduced us to tar's step-parent by chemistry—coal. But Mr. Holloway is a very capable man. Not only did he verbally conduct us through the intricacies of the extraction of coal tar, with short mention of various other of coal's by-products and uses, but, in addition, devoted quite twelve minutes to an able plea to "Buy New Zealand Goods." The firms who were singled out for special mention by Mr. Holloway must surely be gratified. But, with all due regard to the excellent and patriotic sentiments expressed, is this treatment of a scheduled subject quite fair? It does, after all, savour very much of "Wireless Advertising" which is (and very wisely) rigorously excluded by the Government in its agreement with the Radio Broadcasting Company. Mr. Holloway possesses a good delivery; he has the all too rare power of making a potentially dull subject very interesting indeed. I could have done with my full ration of twenty minutes on "Tar and Its By-products."

ON Thursday evening I tuned in to 3YA and listened to Mr. J. W. Humm talk on "Berry-bearing Plants." Coming on top of a good dinner, such a soporific all but proved fatal to the keeping of a later appointment. At first I was transported to the days of my early childhood, and had a mental vision of Jones minor following Smith major in an earnest but fruitless attempt to give some meaning to an English Primer. Then the unceasing low cadence gradually lulled me to the very borders of the land of nod. In all earnestness, let me beseech these gentlemen who are giving us of their valuable store of knowledge to try and put some spark of vitality into their lectures. Their items are advertised as "talks." Do let them be talks—read them, if that is necessary, but make such reading firstly word perfect and secondly possessed of some life. In both these qualities Mr. Humm's talk was sadly lacking; which, considering the undoubted excellence of his matter, was little short of a tragedy.

MY feminine counterpart reports that in a talk from 2YA, Mrs. T. W. Lewis spoke in an able and interesting manner on "Fabrics and Fashion," and the general trend of things sartorial. The speaker traced the historical sequence of the modes, giving sidelights and amusing comment on lightning diversities of fashion. At present, Mrs. Lewis said,



ALICE VINSEN,
a very frequent performer before the Christchurch microphone. She will present contralto solos on April 30.

—Claude Bins, photo.



AILEEN WARREN,
an accomplished 3YA pianiste and member of the Broadcasting Trio, a combination which is much appreciated by listeners.

—Stefano Webb, photo.

designers of new models are greatly under the influence of Vandyck portraits, and men and women of the time of Charles I. are dominating the styles of to-day. Changes of late have been sudden and complete, and this year the revolution has been as great as that in the reign of George III, when willowy figures proved their attractiveness, straight fringes were worn, and many styles introduced which have proved more or less of an inspiration to fashion experts ever since. A definite fact to be considered is that last year's coats and dresses must be worn as they are in spite of the possibility of looking odd, or else must be scrapped. There is no alternative, alteration being simply not possible. The long and slim garment is slightly flared below the knees, and everything must fit well over hips and at least indicate waistline. It seems as though I were encouraging extravagance, said Mrs. Lewis, but just now we can be well and economically dressed at the same time. It is true we are all hard up, but the present fashion for not spending money is to be deplored, as to wear the right things is a duty to our surroundings, our families and ourselves. "I adore good picture shows, but would rather cut them out for a time and achieve a good winter dress," she said, and proceeded to describe colours and textures of enticing tweeds and friezes, and different materials applicable for sports clothes, coats and skirts, with a separate eulogy for facecloths and diagonal weaves, so becoming to "the older woman." Many fascinating fabrics were described, the need of suitable "foundation garment" emphasised, and special comment made on the black and turquoise vogue that is imminent. The lecturer commended this decorative combination as peculiarly charming on blonde and brunette alike, particularly for evening frocks, blue shoes adding an intriguing touch. Lucky possessors of turquoise ornaments, no matter how ancient, are to be envied, Victorian jewellery being *le dernier cri*, and many effects, in clothes and trinkets, absolutely enchanting. For her next topic this interesting speaker has chosen wool, in its relation to present fashion indications, which to New Zealand is a subject of quite absorbing interest.

Two Great Manufacturers

WE reproduce elsewhere a picture of the heads of two of the biggest businesses in the world in conference. Mr. Henry Ford needs no introduction, and his photograph has been published countless times, but how many of our readers have seen a portrait of Dr. A. F. Philips, the head of the manufacturing concern which bears his name?

The Philips laboratory has been the birthplace of a number of electrical inventions, including the Metalix X-ray tube, the Argenta lamp, and the pentode wireless valve. It is of enormous extent and staffed by famous scientists.

The business was founded in 1890 by Dr. Gerard Philips, who retired some five or six years ago, leaving Dr. A. F. Philips, his brother, with whom he had worked in close association for many years, in control. The present head of the business is 57 years old.

Maurice Besley, the British Composer

Prison Camp Reminiscences

By C. T. ALISON

RECENTLY a short paragraph was devoted to E. M. Besly, prior to the presenting of one of his orchestral pieces at 2YA.

Now that the public taste is turning in the direction of the younger British composers, the following brief sketch of this talented musician, as I knew him, may be of interest to listeners.

In 1918, during the last months of the war, it was my misfortune to be a prisoner in Germany. My final place

known to all listeners through "The Meanderings of Monty," Besly gathered together the musically-minded and formed a concert party, to which was given the name of the "Mainzprings." The Citadel's rifle range was transformed into a theatre and the party produced a series of original shows in the form of revues.

The proscenium and stage were made from old packing cases, and the scenery was the production of artists unknown, who worked on pieces of brown paper pasted together. The resulting effects were good, and these creditable examples of the scene-painter's art formed a background to performances that were greatly appreciated.

Other theatrical parties sprang up, in all of which Besly had a large hand. Practically the whole of the music was of his composition and he was responsible for a number of the lyrics. A Dramatic Society produced "The Alternative," and for this he composed incidental music.

ANOTHER effort on the part of Maurice Besly to relieve the tedium of prison life was the delivery of a series of lectures on the operas. One, especially, remains in my memory—"Tristan and Isolde," in which the lecturer carefully analysed each "leit-motif," illustrating his points with the piano and the assistance of a gifted fellow prisoner who sang the various arias.

He also gave several pianoforte recitals from the works of the great masters.

A string band was brought together with the aid of Besly's never-failing energy, and he entered into the task of knocking it into shape with great enthusiasm. I yet smile when I call to mind the vociferating conductor, shaking his baton to the laggards. Attired in khaki shirt, riding breeches, held up by fancy braces, and shod in vivid-coloured socks and patent leather pumps, he looked anything but a captain of engineers! Additional colour was furnished by the yellow-spotted handkerchief he always wore about his neck.

He was a contributor to the camp magazine, "The Queue," which publication attained a high standard of literary quality. Alec Waugh, the youthful author of "The Loom of Youth," who was also with us in "durance

vile," contributed some sketches and verse.

Since those memorable days Maurice Besly has made a mark in the musical world and has had the honour of conducting the famous Halle Orchestra. He is quite at home before the microphone, having been starred in several B.B.C. orchestral concerts.

It is quite possible that some of the tuneful airs since given to the world by him have grown from seeds sown in his efforts to enliven the monotony of his comrades while a prisoner of Mainz.

The accompanying caricature is from the pages of "The Queue," and is the work of Capt. R. T. Roussel, to whom I make due acknowledgement.

New Type of Receiver

Cabinet Six Feet High

ECONOMY of space and improved tone quality are two advantages claimed for a new type of radio receiver which recently appeared on the American market. The cabinet is nearly six feet tall, but occupies a floor area of only ten by twelve inches. Aside from its handsome appearance and adaptability to the modern in interior decoration, its height and design have given the acoustic engineers an opportunity to improve the tone quality.

The ordinary speaker grill has been eliminated from the face of the set and is placed vertically so that it is directed upward through the top of the cabinet. This arrangement provides a five-foot column of air under the speaker, an important aid to tone improvement. Controls and dials are mounted flush on the sides of the cabinet.

A Radio Museum

THE German radio industry has undertaken the task of establishing a national radio museum in Berlin. Displays of transmitting and receiving apparatus dating from the inception of public broadcasting will form the main feature of the museum, while a room is also to be set apart for busts of leading German experimenters and inventors. For many years past in England the Science Museum at South Kensington, London, has been building up on the same lines a permanent record of Britain's predominant contributions to the science. In addition to preserving examples of the earliest apparatus developed, the museum contains such vitally interesting pieces of apparatus as the first Fultograph still-picture transmitter and various Baird television instruments, as well as numerous examples of different types of receivers developed by leading radio manufacturers.

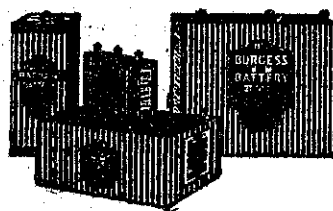


of internment was Mainz, in the old citadel overlooking the Rhine, which building had been arranged to suit the purpose of an officers' "gefangenen-lager."

Here were immured some five hundred officers, of all ranks and regiments and from all parts of the Empire; and it was here that I made the acquaintance of the former music-master of Tonbridge School, Captain E. Maurice Besly, of the Royal Engineers.

A man of pleasant and unassuming manners, full of energy, he occupied a prominent place in the prison life. Having a good knowledge of the German tongue, he formed an important link between ourselves and the authorities. But it was to his musical talent that he chiefly owed his popularity.

In conjunction with another prisoner, Lieut. T. Milton Hayes, M.C., since



**BURGESS
RADIO
BATTERIES**

Identification Wanted.

ARE there stations in Melbourne giving the calls "2LO" and "3BL"? Is it possible to pick up a shortwave station on a broadcast set?—"Rey de O" (Chch.). (Are you sure these stations are not "3LO," Melbourne, and "2BL," Sydney? In general, it is impossible to pick up a s.w. station on a broadcast set. Sometimes, however, when using an unselective receiver located in the "shock area" of a s.w. transmitter, it is possible.—Ed.)

STATION heard on the 13th from 7.30 to 8 p.m., at good volume. A man was lecturing on advertising by window display and on salesmanship. Our Dunedin "B" station came on the air at 8 p.m., and I was then unable to get them. It may have been 2ZI, but I receive them on 5 and 6 degrees. This station's dial readings were 6½ and 8½. I heard Napier shops mentioned during the lecture, so it may possibly have been 2ZH, Napier.—"Mark" (Dunedin).

STATION which transmits in a foreign language working on 70 metres each evening at about 9.30 p.m. Usually a woman is talking rapidly, often followed by two men conversing, with, occasionally, music in between. I cannot get the call sign, although every item comes through clearly. It is possibly RV15, Siberia. Also, I picked up at 6.45 a.m. on the 12th a station, dial reading 12½ (31.48m.—dial 33). A woman was speaking in a foreign language at a very fast pace for over 30 minutes.—W.B. (Gisborne).

STATION heard at about 5.35 p.m. on April 15. Part of call sounded like "Radio and Music Store, Halcombe." He was just closing down.—"Rambling Rose" (Raurimu).

DOES 1ZR operate on the broadcast band? I am sure I heard the call about 9.45 p.m. on the 10th. Records were being played, but I did not recognise any of them. Frequency about 1100 k.c. (273 metres).—"Owl" (Greymouth).

[1ZR, Lewis Eady, Ltd., 191 Queen Street, Auckland, operates on 275.2m. (1090 k.c.), on an output power of 40 watts.—Ed.]

AMERICAN on 35 (1YA 33, 2BL 38) on March 29 at 7.20 p.m. Closed down at 7.25 approximately, and stated that it was 2.4 a.m. Sunday morning in Chicago. Frequently repeats, "Gentlemen of the Air."—"Six-valve" (Christchurch).

STATION on 2YA's frequency heard after the latter closes down. If one waits until the "Good-night" has died away, a first-class gramophone recordings programme may be heard at overwhelming strength. I have heard him on Sundays and also on Tuesday, April 8, but no call is given.—R.H. (Dannevirke).

[Are you sure this is not 2YA testing?—Ed.]

AMERICAN station heard on Sunday, April 12, from 7.45 p.m. till 8.30 p.m., operating 1½ degrees above 3YA (dial 24½, 3YA 26), on recorded organ music. Could not hear call completely owing to static, but sounded like.—C.

Would this be WOC, Davenport, Iowa, on a frequency of 1000 k.c. (300 metres)?—"Jackmack" (Dunedin).

AT 4.45 a.m. recently I picked up a foreign station on approximately 880 k.c. (361 m.). It appeared to close down at 5 a.m., our time. This is not the station on 2BL, but is closer to 2ZP.—B.W. (Stratford).

Stations Identified

B.W. (Stratford).—Station heard on 2NC's frequency is either KFOX, Long Beach, California, or VK3EF, Ellwood. More than once I have had three stations all operating on this frequency, 241m. (1245 k.c.). Call sign of the new "B" station operated by A.W.A. is 4MB, Oxley. The new Jap referred to by "Switch" on 447m. (670 k.c.) is JOLK. He is directly on 2FC's frequency.—E.J.H. (Ararui).

"BELLVUE" (Christchurch).—Japanese station below 4QG is JOHK, Sendai, operating on 390m. (770 k.c.). The one below 3LO is JOCK, Nagoya, on 370m. (810 k.c.), and that just above 2BL is JOLK, Sapporo, on 361m. (830 k.c.). Your log is excellent for a three-valve set.—Ed.

RE station heard calling "Glade House" by several D.X.-ers. I sent a report to them and have just received a reply to the effect that this is Radio Te Anau (Standard Telephones and Cables Ltd.), a 50-watt transmitter on 198 metres from Lake Te Anau Hotel at the southern end of the lake. It is one of two point-to-point stations for working between Te Anau Hotel and "Glade House," a Government hostel at the northern end of the lake. They are having a good deal of trouble with noisy transmissions.—B.W. (Stratford).

DX Topics

Recent Loggings.

ON April 11 I picked up KOL, Seattle, Washington, on 1270 k.c. (236 m.), and on the 14th KREG, a 100-watt station located at Santa Ana, California, 1500 k.c. (200 m.). I have also heard KMCS (late KMIC), Inglewood, California, several times recently. In addition, I have a number of Americans which I am trying to identify. They are as follows:—One near 2YA's harmonic, an-

other behind KGER, two near KGMB (one of them gave his call as KFPY), three near KFOX (two of these are KOL and KYA). Another is one degree below KOK, and is probably WKAQ, mentioned by Mr. Ellis. Another heterodynes

"Q" SIGNALS

QRA—Location of Station.
QRH—Wavelength.
QRI—Tone of signals.
QRK—Strength of Signals.
QRM—Interference.
QRN—Static.
QRO—Higher Power.
QRP—Low power.
QRS—Sending slower.
QRT—Stop sending.
QRU—Nothing further.
QRX—Waiting.
QSA—Readability.
QSB—Fading.
QSL—Acknowledgment.
QSO—Contact.

R—Audibility.

R1—Faint signals; just readable.
2—Weak signals; barely readable.
3—Weak signals; but can be copied.
4—Fair signals; easily readable.
5—Moderately strong signals.
6—Good signals.
7—Good strong signals; readable through QRM and QRN.
8—Very strong; readable several feet away from phones.
9—Extremely strong signals.
QSA—Readability.

QSA1—Hardly perceptible; unreadable.
2—Weak; readable in patches.
3—Fairly good; readable with difficulty.
4—Good readable signals.
5—Very good signals; perfectly readable.

A full list of Ham abbreviations appeared in the "Radio Record" of April 2, 1931.

2BL during the earlier part of the evening.—"Seven Kicker" (Okoroire Springs)

A Good Suggestion.

WOULD it be worth while to have a DX Club member's badge on the lines of that of the recently-inaugurated N.Z. Shortwave Club?—S. R. Ellis (Okato).

[What do other DXers think?—Ed.]

4ZP's Schedule.

I HAVE recently received verification from 2AY, Albury, 3KZ, Melbourne, and 4ZP, Invercargill. After writing twice to the latter and enclosing a stamped, addressed envelope, I was successful in getting their card. Schedule is as follows:—Monday, Tuesday and Thursday, 7-10 p.m.; Friday, 7-11 p.m.; children's hour daily 6.30 to 8 p.m.; Sunday service, 6.30-8 p.m., followed by a concert until 9.30 p.m.—"Scotchman" Whangarei).

Some DX Queries.

HAS anyone heard 2YA on a frequency slightly lower than that of 2UE, Sydney (293 m., 1020 k.w.)? I heard 2YA there on March 18. On what frequency does 2MB, Mosgiel, reported by "Dud" (Bay of Plenty) operate? 3BO Melbourne, according to my latest Call Book, is not operating yet. I have re-

cently logged 7 new Australian "B's"—"Static" (Nelson).

A German Regional Station.

A RADIO Society has recently been formed here in Timaru, one of its main aims being to combat the electrical interferences caused by diathermy apparatus, etc., which we have had to contend with for so long. Thus DX'ers need not be surprised to see the DX Cup finding a home down here sometime during the next year or so. Hitherto reception has been about 50 per cent. interference, but one or two new loggings have recently resulted. WKBW, operating on 202m. (1480kc.) and KLO on 214 m. (1400kc.) are my latest. I have written to six European stations up to the present, but still have another four from which to collect musical items for verification. The station operating two or three degrees below OKB Bratislava, is undoubtedly one of the new German regional stations, and sometimes works in conjunction with the Mulhacker transmitter on 360m. (830 kc.), which is usually the loudest European with me. This was strengthened by the fact that a talk was received one morning, given by a gentleman with a peculiar high-pitched voice. This was heard from both stations simultaneously. On March 19 at 5.45 a.m., I heard the quarter hour chime from the London regional station on 261 metres (1150kc.), after which a talk, too weak to be understood, was received.

A recent verification from 2HD, states that they will soon be operating on 270 metres with a crystal-controlled outfit, so this should eliminate some of the generator hum which used to mar clear transmission from this station, and class it as a first-class B.—D.T.H. (Timaru).

Verification from WTIC.

D. McL. (Wellington): Anyone knows KGW couldn't be KZRM, but they both operate on the same frequency. I have verification from both stations. Leave your dial tuned in to 3AR and wait till he closes down, and then tell me what you hear. 3EF, Ellwood, may be picked up any Sunday at 2 a.m. I wrote him six months since and received no reply, so have written again. G.C.H. (Masteron): I think we receive only an harmonic of 2MB, Sydney. Has anyone ever heard 2BE, Sydney? I have seen him listed, but have never heard him. I have just received verification from WTIC, Hartford, Conn. They thank me for papers on the earthquake, and remark that they are very interesting. They are going to turn them over to the library of the Travellers' Insurance Co. as a memento.—J.P.C. (P.N.).

News of WOI.

THE following are extracts from the verification recently received from station WOI, Ames, Iowa. Has any other DX'er heard this station?—R.A.S. (Mamaku).

"We are rated as a daylight station operating on 640 kc. (468m.), which is the assignment used by KFI, of Los Angeles. We recently installed some new apparatus, and in order to be sure whether or not it would work satisfactorily, we waited until KFI signed off late one night, and then came on with a test programme. That is what you heard. The probabilities are that you will not hear us again for the reason that we are not able to maintain a night schedule.—W. L. Griffiths, Director Radio WOI."

European Address Wanted.

RECENTLY I identified as KLO, Ogden, Utah, 1400 kc. (214m.), a mystery station which I have been unable to identify for some weeks. Another which closed down at 5.30 p.m. on the 8th I identified as WBAL, Baltimore, 1060 kc. (283m.). KRLD also came in well, with its midnight organ recital. European stations have not been coming in so strong lately, but I collected enough data from the station on 1140 kc. (263m.) to write away for verification. I do not know his address, however. Does any

Easter Bargains in A.C. Receivers

STEINITE 8-Valve Console, model 40, £52..... For £30
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ROLA S.G. Model, £38..... For £32

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PHILIPS Q.P. Set and Speaker £14/14/-

Great Bargains in Battery Sets

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other DX'er?—D. McL. (Wellington). Yes, I heard 3EF on the 22nd. I wrote him last October for verification, but so far have had no reply.—N.J. (Master-ton).

Test Programme from KSTP.

LAST week up here in the King Country reception has been excellent. One evening WBNR, Chicago, came in at R10 and had to be toned down. It was between 7 p.m. and 7.30 when they signed off. Also, on evening of April 11 stations 3KZ (3WR, Wanganui), 2MV, Moss Vale, all Australians, came in at good speaker strength. Have secured items for verification. Friday evening, April 11, 8.15 p.m. (N.Z.T.), KSTP, National B.C., St. Paul's, Minnesota, put over a test programme and desired any listeners to send in reports of same. These they would duly recognise and forward any literature in connection with their station. Although KSTP was fading badly, several items were noted and verification sent for.

The D.X. notepaper for reception reports is an excellent and up-to-the-minute idea, and no doubt all D.X.-ers will avail themselves of this businesslike method of writing up their reports.—"Wireless Bug" (Raetihi).

American Loggings.

LATEST additions to my log are KWKH, Shreveport; WBAF, New York City; KYW, Chicago; WCKY, Kentucky; KSTP, Minneapolis; and Radio Te Anua. J.P.C. (P.N.) and Cromdale (Otago): When I picked up KSTP I distinctly heard the call Minneapolis, but I think you are both correct, as I notice WDGW is listed as Minneapolis, Minnesota. It would greatly assist many if D.X.-ers when giving the wavelengths and frequencies of distant stations would state whether they are official or approximate. If official, we know, for example, that

it is just above a station we already know. If approximately it may either be just above or below.—B.W. (Stratford).

Reception Reports.

D. P.B. (Wellington).—Your report card is very similar to our verification notepaper and includes all that is neces-

DX Notepaper

IN a panel published elsewhere is given a list of QRA signals, including those used in the DX verification notepaper. Audibility and readability signs are also given. In future, with all orders for DX notepaper (which may be obtained from the "Radio Record," Box 1032, Wellington, at a price of 1/6 for two dozen sheets—minimum order—or 4/- for six dozen, postage included), a copy of these signals will be enclosed.

sary for a comprehensive report. Unfortunately a small reproduction would not be readable.

Report from Oxley Station.

FOLLOWING is an extract from the reply to the report which I sent to A.W.A., Ltd., re the Oxley radio station:—"This station will become 4BC in lieu of the present station in the near future, when it is hoped you will be afforded many additional hours of broadcast entertainment. The wavelength of the station is 262 metres (1140 kc.), and the power 200 watts. A special type of aerial is used which may account for absence of distortion.—A. S. McDonald, Chief Engineer." The latter statement

Intense Heat in A.C. Valves

PRESENT-DAY heater type a.c. valves mark an achievement of the highest order in the development of severe service materials. For one thing, the insulator tubing in most valves must have a fusion point above 2270deg. C., as contrasted with 1820deg., which is the fusion point of porcelain. What is more, the insulating tubing must not warp, shrink, break, decompose, or interact with the tungsten wire at this temperature. It must remain a good dielectric at glowing temperatures.

Meanwhile, the tiny holes throughout the length of the tubing no larger than the lead of an ordinary lead pencil—holes hardly visible to the naked eye—must be accurate in size and evenly-spaced at all times.

The short life of earlier a.c. valves has been traced to several causes. In the first place, materials originally employed for the heater insulator were quite unsatisfactory. The severity of the service conditions was not realised. Impurities resulted in broken-down insulation. There was frequently a chemical interaction between insulating material and tungsten wire. A common cause of failure was the fusing of insulator and wire, with early

re type of aerial is due to a remark I made regarding absence of distortion while other stations close by were hardly affected.—"Kowhai" (Christchurch).

breakage of both tubing and wire, due to unequal rates of expansion and contraction. Porcelains, fused quartz, alumina, and other materials, were tried in turn, only to prove incapable of fulfilling the extremely trying conditions.

The remarkable life and performance of present-day heater type valves are due to the introduction of magnesia. This material eliminates the heretofore critical exhaust conditions and high shrinkage in tube production, and provides the desired operating conditions.

The crolite magnesia insulated valves now available have a life of several thousand hours, and, what is more, are capable of withstanding severe voltage overloads without materially decreasing their useful life, thus solving the problem of fluctuating line voltage faced in many sections of the country.

In fact, it is now possible to obtain heater type valves superior to the filament type, due to the successful solution of the insulation problem.

Receiver in Helmet

TESTS carried out in America with wireless receiving sets installed in a policeman's helmet have proved successful, and this device has now been adapted for pocket receivers. Messages have been picked up by these small sets as far as 100 miles from the transmitting station, and it is probable that in the near future each policeman will be supplied with one.

FERRANTI

THERE IS NO EQUIVALENT

IN RESPONSE TO THE CUSTOMERS' REQUEST THE DEALER SAID: "FIT A FERRANTI, OR THE EQUIVALENT." THAT, OF COURSE, IS WHERE THE DEALER SLIPPED. THERE IS NO EQUIVALENT. SOME TRANSFORMERS CLAIM TO BE GOOD BECAUSE THEY ARE BIG. CONVERSELY, SOME CLAIM TO BE GOOD BECAUSE THEY ARE SMALL. SOME CLAIM THAT A PARTICULAR KIND OF WIRE PUTS THEM ON TOP OF THE WORLD. BUT WHEN ALL IS SAID THE MAIN THING IS PERFORMANCE.

THE CURVE OF THE **FERRANTI** TRANSFORMERS, DRAWN ON THE MUSICAL SCALE, INDICATES ITS PERFORMANCE. THAT'S WHAT YOU WANT TO KNOW! ITS PERFORMANCE. FERRANTI MAKE NO FANCY CLAIM ABOUT SIZE, OR WIRE OR ANYTHING ELSE. THEY JUST MAKE A TRANSFORMER TO DO THE JOB, AND DO IT BETTER THAN ANY OTHER TRANSFORMER MADE. SO LONG AS IT DOES THAT, AND CONTINUES TO DO IT, YOU DON'T NEED TO WORRY ABOUT HOW IT IS MADE OR WHAT IT IS MADE OF. AND AS FERRANTI HAVE BEEN MAKING TRANSFORMERS FOR OVER 40 YEARS, THEY KNOW SOMETHING ABOUT IT.

**FERRANTI COMPONENTS WILL HELP YOU TO SECURE
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WELLINGTON. AUCKLAND.

Children's Sessions

FROM 2YA.

Monday, April 27.—Uncle Jeff has planned another trip on a magic carpet for to-night. He is taking the pupils from Mrs. Halligan's Studio with him, and they will broadcast from the "Carpet." There is room for Kipling Lady, too.

Tuesday.—We are to have a special "New Zealand Evening" tonight. It has been prepared by the pupils of Miss Ethel Mackay. New Zealand has a wealth of poets and composers, and with our delightful Maori legends it should be a delightful evening. Uncle Toby and Jumbo will send Birthday Greetings.

Wednesday.—Aunt Daisy to-night, with "Cheerful Chirpers," who will sing about life in the Australian Bush. Another "Meeting Pool" story will be read by Aunt Daisy, and there will be Birthday Greetings as usual.

Thursday.—Another evening of animal imitations by Cousin Vermont. We are also going to hear about "The Waggle Taggle Gipsies," and two choruses about "The Fuzzle Caterpillar" and "The Conceited Frog." Big Brother Jack and Uncle George are the Fairy Postmen to-night.

Friday.—Uncle Jim and Story Man will be here with stories and birthdays and some small cousins trained by Mrs. Pauli will entertain with songs, choruses, duets and riddles.

Saturday.—To-night is the first appearance of the "Bruin Boys," and when you've heard them you will hope to hear them again. Aunt Molly, Uncle Jasper, and Spot will join in the fun.

Sunday.—The Children's Choir from the Upper Hutt Methodist Church will help Uncle George with the Children's Evening Song Service.

FROM 3YA.

Monday.—Cousin Margot with a host of new stories. Cousin Gwen with new melodies—Audrey and Betty to sing and recite for us, and The Mystery Man with a story all his own. Then The Birthday Greetings have their own place in this hour.

Wednesday.—Uncle John telling stories and introducing Miss Hooper's pupils to you all, and Miretta here to sing for you.

Thursday.—This is the night you are all happy when Ladybird, Uncle Frank and Uncle Dick made merry with song, story and new musical rhymes.

Friday.—"Chuckie" introduces some of Miss Gilder's pupils to you, and in between tells stories for each little listener.

Saturday.—Aunt Pat and Uncle Alf (you will soon remember Uncle Alf when he sings and speaks to you) with some funny stories and songs for you all.

Sunday.—The Methodist Sunday School is taking the Children's Song Service this evening.

Operatic Concert from 2YA

By Signor Cesaroni and Company

ON the evening of April 27 Signor Cesaroni and his company will present an operatic concert, which should make a wide appeal.

Commencing the programme, Signor Cesaroni will sing in English, to orchestral accompaniment, two numbers entitled "Romance," the first being from Verdi's opera "The Masked Ball," and the second from "Il Trovatore," by the same composer. Both of these excerpts are fine examples of the old Italian school of Bel Canto, or smooth sing-

composition is amazing, especially when it is known that its composer was never in Turkey. The initial presentation of "The Ruins of Athens" in London in 1844 proved such a success that the entire work was adapted and produced in an English setting.

The "Chorus of Dervishes" contains several Turkish words which are often repeated during the performance, and added interest is lent to the rendition if their meaning is understood. The first of these is "Kaaba," and is the Holy Stone of Mecca, by which the followers of Mahomet swear. The second, "Borack," is the beast on which the prophet flew in one night from Mecca to Jerusalem, and, according to some versions, from thence to heaven.

The next selection, "Marcia Alla Turca," by Beethoven, will be played as a pianoforte solo by Gordon Short, one of Wellington's leading musicians. It depicts the Turkish cavalry entering the fallen city of Athens and marching victoriously through its ruins, and, in consequence, has a strongly triumphant theme as the motif.

The humorous duet from Mozart's brilliant opera, "Don Juan," which follows, will be sung by Signor Cesaroni and George Gray. When Leporello, servant of Don Juan, attempts to deliver a message to one of his master's many loves, her husband comes out and treats him so badly that he returns to Don Juan in a very sorrowful condition. He tries to resign, but Don Juan is highly amused at the whole affair, and will not hear of such a thing. Finally, he salves his servant's feelings with a purse of gold, and Leporello reluctantly consents to return to the most complicated and difficult task of delivering messages in furtherance of his master's amours.

The final excerpt, which is from "The Marriage of Figaro," by Mozart, occurring at the end of Act I is one of the most brilliant items of the opera. It was often performed in New Zealand and Australia by the late Andrew Blake, a Scottish baritone of exceptional ability. Count Almaviva learns that Cherubino, a page, is in love with the Countess, and in a rage threatens to have the boy killed. Figaro, the Count's valet, pleads for him, however, and the Count finally relents, giving Cherubino a commission as captain in his own regiment, where he may expend some of his energies on the field of honour.



U. A. TUCKER,
re-elected president of the Auckland
Dealers' Association.

ing. Simple and melodious, they are typical of the majority of Verdi's operas, which, unlike many by other composers, have a universal appeal.

Following these, the company will present the well-known "Processional March," from "Tannhauser," which because of its delightful melody and martial rhythm, is a favourite band selection. It occurs in the opera at the commencement of the Song Contest in the Hall of Song, described in more detail in an article on "Tannhauser" appearing elsewhere in this issue.

The next item is the "Chorus of Dervishes," from Beethoven's cantata, "The Ruins of Athens." The colourful, realistic atmosphere which pervades this

Radio Round the World

A COLOUR attachment for radio receiving sets, consisting of coloured electric lamps responsive to the different tone variations of the loudspeaker, has been invented and patented in the United States.

ALTHOUGH lightning is undoubtedly the principal cause of atmospheric electricity, it is apparently of definite benefit to mankind. According to an American electrical engineer, it produces a hundred million tons of fixed nitrogen annually.

A GERMAN company proposes to construct an international information station, which will transmit in many languages. It is suggested that Luzembourg would prove an ideal location, and a power of 100 k.w. is contemplated.

DURING 1930 the American Government proved to be the best client of the National Broadcasting Corporation, occupying 1000 hours of broadcasting. Official functions occupied another 323 hours, while President Hoover spoke no less than 27 times over the air.

AFTER a recent performance at the studio of Radio Paris the announcer introduced each artist by name. The following day a letter arrived from a listener stating that in one of the artistes he had recognised the name of a long-lost niece whom he had been endeavouring to trace for years in connection with a legacy to which she was entitled.

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopence for every other word thereafter.

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No radio enthusiast should be without the "Radio Record" "DX" CLOCK, as it correctly gauges the time as compared with ours in every part of the world.

By using the "DX" CLOCK, the right time to tune in for overseas stations may be obtained, and with use it will be found to be of permanent value to all radio receiver owners.

Send for Your Copy To-day. Price 9d.

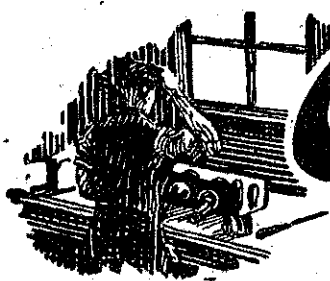
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Questions and Answers



C.F. (Ohura): I can receive 2YA on 70 on my dial when the normal wave comes in at 17. 7ZL comes in at 30.

A.: This is a rather puzzling phenomenon and is probably due to your set oscillating. You are really receiving a harmonic of your own receiver, which is being modulated by 2YA's frequency.

2. Could you give me some of the stations on the very long waves?

A.: Leningrad, Russia, 1000 m., 20 k.w.; Oslo, Norway, 1071 m., 75 k.w.; Moscow, Russia, 1304 m., 165 k.w.; Daventry, 1554 m., 35 k.w.; Zeeseon, Germany, 1635 m., 35 k.w.; Lahti, Finland, 1796 m., 54 k.w.

THANKFUL (Te Aroha): What kind of circuit is my set?

A.: We have not encountered such a one before, but presume that it is of the neutrodyne type and we do not know who the New Zealand agents are.

2. Could I add a pentode valve?

A.: Yes. You merely place the valve in the last socket and connect the auxiliary terminal to the highest "B" voltage obtainable.

R.D.H. (S. Dunedin): I can only get a .00015 differential condenser. What change will I have to make in the coils?

A.: Put from 15 to 20 extra reaction turns on. There will be no need to make any other alteration in the set.

2. What is the ratio of the transformer?—3:1 or 5:1.

WAGG (Te Kinga): I have made the Daniells Charger and it is showing 10 volts for 10 cells. How can I increase the voltage?

A.: Provided the charger works satisfactorily we would not worry about the voltage being lower than it should be. This may be due to the load being placed by it. Furthermore, it may be due to defective cells, which, however, we consider unlikely. Test each cell separately to eliminate any duds. You can increase the voltage by using more cells.

K.H.D. (Mount Eden): Can I procure valves other than those used in my three-valve set that will do the job as efficiently as those now in use?

A.: We very much doubt if you will be able to do this. These valves are not generally used here, and the ordinary valve will not do. Try Whitcombe and Tombs, Wellington.

2. Can I replace any one without having to renew them all?—Yes.

TRANSMITTER (Kerepehi): I wish to build a really powerful broadcast receiver using a.c. valves. Can I build the "Outspan"?

A.: An excellent one is described in the "Radio Guide." It is called the A.C. Radiogram Five, but if you wanted one still more powerful you could add another stage of s.g. radio, constructing it exactly as described for an existing s.g. stage.

S.O. (Whangarei): I believe the correct number of turns on a primary coil to match my s.g. valve should be 77. Is this correct?

A.: No; the effectiveness of a large number of primary turns falls off rapidly after about 30. For your valve you should be using about 40 turns.

Next Week's Construction Feature

"A WAVE TRAP FOR LONG AND SHORT WAVES"

Future Articles:

"THE RANGER TWO" "THE KESTREL THREE"

These will be good; watch for them.

2. Can a pushpull output impedance be used satisfactorily with an ordinary cone speaker?—Yes.

H.C.W. (Khandallah): Can you recommend a good super. het. s.w. circuit of the battery type?

A.: We do not know of any commercial receivers of this description. You could, however, have one of the local firms make one for you.

QUILP (Te Aroha): What causes the music to be muffled and rattly? I use a battery set with a "B" eliminator and a horn speaker.

A.: This sounds like an inadequacy of grid bias or it may be caused by your not using an appropriate power valve. Furthermore, your speaker, which is out of date, may be at fault.

L.C.A. (Aramoho): Should I be able to receive American and Japanese stations on my set?

A.: The Japs are not coming well at the present time and the American stations are difficult to receive except in certain localities. If you can bring the Australians in at good strength your set is doing all that it should.

2. Is the valve combination satisfactory?

A.: Yes, but when renewing your valves get them all of the same make and be sure they are first grade.

3. How is the earth system?
A.: It appears to be quite satisfactory. It is better if the distribution point is nearer the centre of the earth pipes for then the leads to each can be equalised.

WIRE (Dunedin): I wish to construct a power pack for the super. het. s.w. adaptor using a transformed core of 1 1/2 in. x 1 1/2 in. What number of turns must I wind on?

A.: Primary 1125 of 34 gauge, secondary 1080 of the same gauge wire. Filament 9 turns of 18 gauge.

P. (Carterton): Can I, using an insulated wire, shift my set to another room and plug it into a separate electric light socket, but using the same aerial and earth?

A.: Yes, efficiency will be only slightly decreased because of the long aerial and earth lead, but you will get quite satisfactory results.

Note.—The set to which you refer is an excellent one and you may be assured of getting good results by using it.

INQUISITIVE (Motueka): A report on the set to which you refer appeared about twelve months ago. We will probably have more to say about it in the near future. The valve to which you refer has not yet been to the laboratory so we cannot tell you anything about their life, which, from what you state, appears to be less than normal.

2. My "B" batteries are only a fortnight old and the "A" battery is well charged, yet if the set is left for about 24 hours it will go splendid for about 10 minutes and then become quite dead. If turned on within another half an hour or so it will be quite normal.

A.: This seems to be a broken down condenser, or resin joint. Tug all your joints and test all condensers.

G.H.J. (Mangaweta): Will the circuit which I enclose be satisfactory for broadcast reception if I alter the coils and condensers?

A.: Yes, but if you want a powerful set, why not build the Outspan Five, which we consider to be better than the one the circuit of which you enclose.

2. Will I be able to eliminate the potentiometer return or the grid?

A.: You may be able to. Potentiometer grid returns ensure smooth regeneration.

3. Will one rheostat be sufficient to break down the "A" supply from six volts to four?

A.: Yes, if you use 30 ohms.

4. Do you think "A—" instead of "A+" should be earthed?

A.: No, your set is designed for an "A+" return.

SHUNTER (Mercer): I do not understand what coil goes into the valve socket on the right of the s.g. valve. On looking through back numbers I find

CORRESPONDENTS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington. Limit three questions, unless letter is accompanied by 1/- fee.

Name of set

Number of valves

Name

Address

.....

.....

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

- (1) Be specific and brief, tabulating, if possible.
- (2) Write legibly, and on one side of the paper.
- (3) We do not design circuits, but accept suggestions for feature articles.

Solving trouble, as different from advice, is difficult by correspondence and while letters are given every consideration, answers are not necessarily correct—they are only our opinion based on the matter supplied, which may be quite inadequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

AN AMAZING INVENTION!

The Radio "A" Battery is a constant source of difficulty, especially to those who cannot conveniently get accumulators charged.

The new AIR CELL, invented by the Columbia Battery Firm, will operate a 4-valve set, equipped with the new 230 or similar 2-volt valves, from 18 months to 2 years without renewal or recharging.

Just think what this means! One "A" Battery lasting longer than two sets of "B" batteries!

Price of the AIR CELL is £3/18/-.

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that only one coil has been specified and must be slipped over a five pin base.

A.: With the Differential Four there is no need to use a coil with a 5 pin base for the radio stage, or for that matter, the detector stage either. You will need to construct a coil with the secondary and primary only for the first stage. The coil will require three connections. We have designed the Differential Four to allow anyone who contemplates making it as a whole to build up this coil with three terminals. With the .0005 condenser tuning the radio stage you need 90 turns on the secondary and 35 turns on the primary. The bottom of the pri-

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 "Radio News Handbook, 1930," 2/9.
 "Radio: A Study in First Principles," by Burns, 11/-.
 "Radio Operating Questions and Answers," by Nilson and Hornung, 14/-.
 "Radio Amateur Handbook" (Handy's) latest edition, 5/3.
 "Radio Amateur Call Book," latest quarterly, 5/3.
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 "Radio Engineering" (a monthly issue), 21/- per annum.
 "Projection Engineering" (monthly) 21/- per annum.
 "Radio Citizen's Call Book," latest quarterly, March, 1931, 2/9.
 "N.Z. Radio Guide and Call Book, 1931," 2/10.
 "1031 N.Z. Radio Handbook," 2/10 posted.
 6-Valve Neutrodyne Blue Prints and instructions with one transformer and 2 resistance coupled audio stages, 1/8.
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mary and the bottom of the secondary will be brought out to "P," the top of the secondary to "G" and the top of the primary to "F." With a .00035 condenser in the second stage you need 105 turns for the secondary and 40 turns for the reaction. The ends will come out as described for the one valve version.

2. I have a quantity of 32 d.s.c. wire on hand. How many turns must be wound on a 2in. former to cover the broadcast band if I use a .0005 tuning condenser?—55.

N.Z.D.X. (Auckland): How can I use the three valve r.c. coupled set with the frame aerial?

A.: It will be unsuitable. You should use sets with regeneration. A suitable hook-up was described some time ago for the "Rotorua Portable."

2. Is a single wire counterpoise as efficient under a double aerial as a double wire counterpoise?—Yes.

3. Must a separate wire be taken from each wire of the Pierce earth system to the set?

A.: It is better to do so, although you could couple the wires together and take a single lead to the speaker.

QUESTIONMARK (Wellington): Why is regeneration unstable with the enclosed circuit?

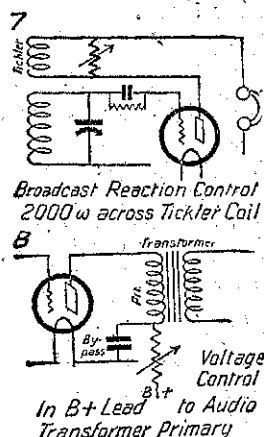


Diagram of resistance regeneration control.

A.: The circuit appears quite satisfactory. It may possibly be explained from the layout. However, try a potentiometer across the "A" supply and take the grid return to the variable tap.

2. Is resistance controlled regeneration better than ordinary condenser or differential control?

A.: Resistance controlled regeneration for shortwave is one of the best methods. We reproduce a diagram showing the method of applying this system.

QUERY (Waikato): Can you give me the legend for Figure 3 in the 1931 "Guide"?

L, L1.—1st Det. Coils.
 L2, L3, L4.—Oscillator Coils.
 RFC.—Radio Frequency Choke.
 T.—Filament Transformer.
 R.—5,000 ohm Variable Resistance.
 R1.—1,500 ohm Resistance.
 R2.—60 ohm Resistance.
 C.—1 mfd. By-pass Condenser.
 C1, C2.—.00014 mfd. Tuning Condensers.
 C3.—.0005 mfd. Condenser.
 C4.—.0005 mfd. Semi-variable condenser.
 C5.—.00005 to .0001 mfd. condenser.

2. Would a shield similar to a single sheet partition in s.g. receivers be suitable for separating the detector and oscillator stages of the adapter?

A.: They are probably a little light, and it will be necessary to shield the stage entirely.

3. Does "C1" need to be vernier controlled?

A.: It is not essential so long as control is finally geared.

NORTHENDER (Dunedin): What number of turns must I wind on my dynamic speaker chassis in order to make a high voltage speaker to pass 70 m. amps?

A.: You will require about 34lb. of 34 gauge wire. You will wind on approximately 19,000 turns. The resistance will be approximately 2000 ohms and will drop your voltage 120.

RADIO FAN (Otagiri): Where can I obtain particulars of the Daniell cells charger?

A.: The "Radio Record" dated November 7, 1930.

2. Would a Beverage aerial pointing N.E. be successful if it had to pass over a hedge 15 feet high?

A.: Yes, it would be quite satisfactory. It may be better, however, to take it north-west, from which direction the Australians would come in.

3. Is the underground aerial as described in the "Radio Record" some time ago successful?

A.: We do not know anything about it. It was published merely as a suggestion from a correspondent.

4. Can I use the parts of an old five-valve battery set to make a short-wave adapter?

A.: Your condensers are too large, otherwise most of the components can be used.

5. My earth is only a 3ft. pipe in dry, sandy ground. I intend to install a multi-pipe earth and then connect these to a longer one in a hollow of heavier ground. Will this be better?—Yes.

6. Would B605 improve reception or reduce the volume too much?

A.: It would give you improved tone, but would slightly drop the volume.

7. Would a 130-volt battery improve the set?—Yes. You would need 9 volts bias or 15 volts with a B605.

Our correspondent adds: "I have been saving up these questions to save postage—(Scotch, eh?) Yes, but you have forgotten our bob—too Scotch, eh?"

BEGINNER (Auckland): I have made the knife edge rejector from the "Radio Guide," but have not had any success two miles from IYA. What value fixed condenser should I have used?

A.: .0005 would be far better, than .001, though you should not have a great deal of difficulty in cutting out IYA. This works perfectly right under the shadow of 2YA.

Improved "A" Battery

Developed in America

A RECENT development of paramount importance to listeners in areas not supplied with electricity has been the perfecting of a new type of

"A" (or filament supply) battery having a phenomenally long life.

Along with it has also been developed a new series of valves, of the 230—1—2 type, designed for operation with this battery. Both were evolved with the object of making it possible for set manufacturers to market a new and improved type of battery receiver which would bring to unwired homes a quality of reception hitherto possible only with a.c. receivers, but which would not require a storage battery and would be free from the weaknesses and limitations which characterised the battery set.

The Air Cell "A" Battery is a high capacity, constant voltage, air depolarised primary battery which, when used with one .15 amp. and five .06 amp. valves, gives under normal conditions an operating life of 1000 hours. Owing to the unusually constant voltage, rheostats are dispensed with.

A more complete description of this new cell will appear next week.

Automatic Tuning

A DEVICE recently marketed in America for attachment to a certain type of radio set is so arranged that a listener may glance through the programmes in the newspaper, make settings on the tuner-control panel, and sit back in his easy chair while the set automatically changes from one station to another, according to the prearranged schedule. It provides a variation of nine stations, and permits changes every fifteen minutes, or less often, for as long as the set is operating.

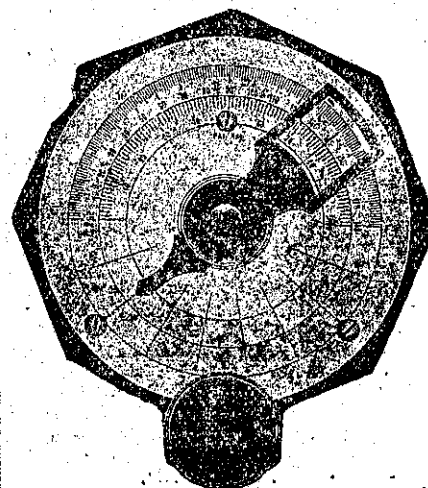
Thousands upon Thousands of Men have Risen to Better Jobs and Bigger Salaries as a Result of I.C.S. Instruction.

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Wellington

Advisory Committees Meet

Radio Exhibition Plans

THE first meeting of the new 1YA Musical and Dramatic Committee was held on Friday, April 10. There were present: Mr. A. B. Chappell (in chair—Dickens Fellowship), Mr. L. E. Lambert (Bohemian Orchestra), Mr. C. B. Plummer (Auckland Choral Society), Mr. E. Blair (W.E.A.), Mr. F. M. Price (Aeolian Orchestra), Mr. V. Trask (Athenian Club), Miss G. Bertram (N.Z. League of Penwomen), Miss J. Parker (Auckland Piano Students' Association), Mr. O. Jensen (Society of Musicians), Mr. W. H. Graham (Grafton Shakespearean Dramatic Club), Mr. H. C. Trim (Programme Organiser at 1YA) and Mr. L. C. Barnes (Station Director at 1YA).

Mr. A. B. Chappell was unanimously re-elected chairman for the ensuing year. New members to the committee were introduced and welcomed.

The chairman reported having, at the request of the Broadcasting Company, purchased two book prizes for the winners of the spelling bee. He had selected two dictionaries.

On the question of programmes, the station manager referred to numerous attractions arranged for. On May 5 a three-act comedy "And So to Bed" would be broadcast. On the night of the municipal elections (May 6) the Rev. Jasper Calder will be taking charge of the programme, which will be filled-in with election results. On May 13, the 1YA Broadcasting Choir and the Orchestral Octet will be giving a night of old-time songs, etc., entitled "Dreams of Long Ago." From May 20 to 23 inclusive, there will be a Radio Exhibition in the concert chamber. Special programmes will be put on during that time on the stage, which will be fitted up as a model studio. The international programmes, featured at 2YA every Wednesday, were to be run at 1YA, and would start in May.

The committee again discussed the copyright question and the restrictions in regard to plays. The question of broadcasting controversial debates was also referred to.

3YA Musical and Dramatic Committee.

MR. SYDNEY WILLIAMSON, representing the Musicians' Society, of Christchurch, was elected chairman of

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the 3YA Musical and Dramatic Committee for the ensuing year. The meeting was held on April 8, and there were present: Mr. S. Williamson (Musicians' Society), Dr. F. A'Court (Harmonic Society), Mr. W. H. Dixon (Christchurch Royal Musical Society), Mr. R. J. Loughnan (Male Voice

Broadcast arrangements for Anzac Day were discussed and approved. Proposals regarding the children's song service on Sunday evenings were discussed for the coming year.

1YA, Church Service Committee.

At a meeting of the 1YA Church Service Committee, held on Tuesday, April 14, there were present:—Ensign Thorne, Salvation Army; Rev. Geo. Helgway, Congregational

Church; Rev. W. Walker, Methodist Church; Rev. W. D. Morrison-Sutherland, Presbyterian Church; Mr. Donaldson, Church of Christ; and Mr. L. C. Barnes.

An apology for absence was received from the Rev. Geo. Coates, Anglican Church.

Mr. Barnes was re-elected chairman. The chairman reported on arrangements made for broadcast services at Easter and on Anzac Day.

The chairman reported having arranged to broadcast the Interdenominational Youth Rally on May 3, and the centenary service of the St. John Ambulance Association on the afternoon of June 28.

The Salvation Army was allotted November 29, in place of January 31, for a special broadcast.

**HEAR THE
LYRIC
IN
Quartets, Trios and Solos
ON
Thursday, April 30
@QUARTET
AT 2YA**

Choir), Mr. T. W. Dent (Orchestral Society), Mr. C. S. Booth, Mr. J. MacKenzie, Mr. K. Atkinson.

A suggestion that lecture-recitals on music be given was discussed and approved. The station manager outlined attractions already scheduled on the programmes.

3YA Children's Session Advisory Committee.

A MEETING of the 3YA Children's Advisory Committee was held on Monday, April 13, Mr. D. E. Parton, representing the Y.M.C.A., presiding. Also present were: Mrs. W. H. Meddings (Y.W.C.A.), Miss Scotter (Boy Scouts), Mrs. R. J. McLaren (National Council of Women), Mr. W. A. Rumbold (Headmasters' Association), Mrs. J. Schenkel (Mothers' Union), Mr. E. J. Ward ("Uncle John"), Mr. D. Dickson (Junior Scottish Society), Mr. Thomson (Presbyterian Sunday Schools), Mr. Metson (Methodist Sunday Schools), Mr. C. Booth ("Chuckle"), Miss M. Hall ("Aunt Pat").

Mr. D. E. Parton, who has been chairman for two years, was re-elected to the position. Various aspects of the work of the children's sessions were discussed and suggestions made.

3YA Church Service Committee.

At a meeting of the 3YA Church Service Committee, held on Tuesday, April 14, Dean Julius presiding, there were present: Rev. A. N. Scotter (Methodist), Rev. L. A. North (Oxford Terrace Baptist), Mr. K. Atkinson (head office), Mr. J. MacKenzie, and Mr. C. S. Booth.



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Locating Noise in Receivers

INTERNAL noise in a receiving set is a difficult problem to the average listener. Usually he can locate ordinary defects in a receiver such as grounded circuits, burnt out by-pass condensers and defective resistances. But it takes an expert to locate and overcome the elusive internal noises that are often encountered.

The purpose of this article is to help the listener locate and overcome these difficult problems.

Radio receivers are very sensitive devices and once noise gets into the receiver it is amplified and passed on to the speaker in the same way speech and music are passed on. Some of these noises originate outside the receiver and some originate inside. All noises cannot be eliminated or reduced, but a great many can. The causes of noises arising in the receiver are so numerous that it would be futile to attempt to describe each one separately. These noises may be due to poor design, poor construction, or defective parts. Fortunately, there are certain noises which can be classified into a few major groups.

Mechanical and Electrical Noises.

UNDER these two broad general classifications of noise in a receiver we have first a noise which reaches the ear by way of the loudspeaker, which is the amplified impulse through the regular amplifying system. Second, there are noises which reach the ear directly without being transmitted electrically through the receiver. These latter noises are frequently as troublesome a source of disturbance as the former. As typical examples of the first class we have intermittent opening and closing of contacts in a circuit. This may be in

Probably one of the most frequently recurring questions asked by correspondents to the "Questions and Answers" page deals with noise in receiving sets. Below is published an article which deals comprehensively with the causes of many phases of noise and outlines a cure for them. Read through the article carefully, then cut it out and keep it somewhere handy to consult when the set becomes noisy.—Tec. Ed.

the form of a defective connection or a defective condition of one or more of the parts used in the receiver.

As examples of the mechanical noises, we have noise due to vibration of the laminations in a power transformer or rattles in a cabinet door caused by vibration. Some mechanical noises are heard even though the speaker is disconnected or a resistance network substituted for the speaker. A simple check can be made to determine whether the disturbing noise comes from the speaker or not. Substitute a 4000 to 8000-ohm resistance for the speaker. While the resistance may not match the speaker output exactly it will place enough load on the apparatus under test to show whether or not the noises are of a mechanical nature. If the noise is still present it does not come from the speaker and must be traced in the set. This test, of course, is not applicable where the noise, although not coming through the speaker, is caused by speaker vibration affecting some part of the receiver, for example, rattling cabinet doors due to excessive output from the speaker. Here the amateur must use his judgment in applying the tests.

Noises may further be classified according to the nature of the noise as follows:—

Scratching noises, clicks, crashes, rattles, and grating noises, generally due to poor construction or defective parts.

Whistling, generally due to regeneration, poor valves, and oscillation.

Ringling noises, gradually increasing in intensity. These are called microphonic noises—sometimes due to poor

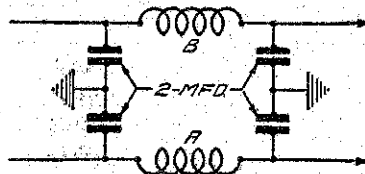


Fig. 1. This portable filter is suggested by the author to filter out line noises and should prove valuable to the service man. It consists of 150 turns enamelled or d.c.s. wound in sections on a 2in. former.

design—defective parts—defective valves, or too much volume.

Hum—generally due to poor construction—defective parts, faulty design, or poor valves.

Determine Origin.

IN investigating a noisy receiver, the first thing to do is to determine whether the noise comes from outside or inside the receiver. In the case of a battery set this can generally be definitely determined by disconnecting the aerial from the set. If the noise disappears it shows that it comes from the outside and that the set is O.K. If the noise still persists, however, the indications are that it originates in the set and it becomes a matter of diagnosing the trouble in the manner outlined in this article.

In the case of electric sets this test is not conclusive. If disconnecting the aerial causes the noise to stop, its source is generally external to the receiver. If noise is still present, it may still come in from the outside through the power line and get into the receiver by way of the power pack.

A line filter of simple design can be quickly and easily connected to the line of the ordinary a.c. set to filter out line noises. Figure 1 shows an arrangement which has been used successfully for this purpose.

If the noise is appreciably reduced after connecting the filter between line and receiver, it indicates that the noise originates outside the set and comes in on the line. If the noise is still present it will be reasonable to assume that its source is in the receiver and it can be eliminated.

Irregular Noises.

UNDER this heading come all sorts of crackles, scratchings, gratings, hissing and frying noises. The first three types are most frequently due to poor contacts. These arise from various causes. The most important are poor soldering and poor contact between valve prongs and socket spring contacts.

Poor soldering may result in a loose and therefore intermittent contact which is readily detected and observed by moving the lead to see if it is loose. The presence of a large amount of resin around a soldered joint is always a sure indication of a poor joint. The continuity tester to be described later will help greatly in locating high resistance contacts. The presence of a green substance at a joint is a definite sign of corrosion and indicates a likely source of noise. The only thing to do in a case of this sort is to re-solder the joints properly. A poorly soldered joint is a source of noise in any circuit, power pack, audio or radio, since it causes irregular variations of current.

In battery sets such irregular noises arise due to poor contact at the battery terminals. To avoid corrosion in storage battery terminals, it is best to use vaseline on the terminals. Weak batteries are also frequent sources of sputtering and crackling noises. The storage battery should be kept in condition by keeping it filled with distilled water and not allowing the voltage to fall below 1.8 volts. Frequently, it is a single cell in a battery that is the source of trouble, shown by a drop in voltage of the battery when it is operating under load. This is especially true of the storage battery. A hydrometer test may show correct gravity but a voltage test will show up a defective cell even if it has correct gravity if the voltage test is made while the battery is under load.

Valve and Valve Contacts.

SPECIAL attention should be paid to these because they are often a source of noise. A gassy valve in-

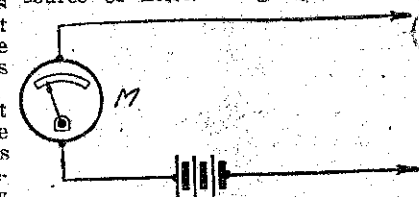


Fig. 2. A simple continuity tester is illustrated in this drawing. It consists of a voltmeter in series with a 4.5 volt C battery, and a set of test leads.

icated by a blue haze in the valve when working, causes irregular changes in plate current, thereby producing noise. The best remedy for this is to use a new valve even though the old valve may show correct operating characteristics. However, the abnormal condition causing the blue haze in the old one has more than likely ruined it.

Loose elements in valves will cause noise. Tapping the valve with your

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finger will sometimes show up a loose element. A slight ringing noise may be produced on tapping the valves, but this is normal. If tapping a particular valve results in crackling or sputtering, examine the socket contacts and examine the prongs.

Minor Defects.

DEFECTIVE socket springs are another source of noise. Socket spring contacts are made of phosphor, bronze or nickel silver. Such contacts are designed so that they exert pressure against the valve prongs. These springs may make good contact at the start and then later on develop poor contact for various reasons. Heat from a soldering iron may cause the spring to lose its "temper" and continual pushing and pulling the valve out of its socket may result in pushing the socket spring so far away that it does not make contact with valve prongs. Or the contact may be intermittent and we have another source of noise. Socket contacts and valve prongs should be cleaned if corrosion has formed or if they are dirty. Sand paper prongs and scrape socket prongs with a small pen-knife. Bend the socket prong with a pair of small nose pliers so that it will make good contact with the valve prong.

Volume Control.

If a scratching noise is heard on any station as the volume control is rotated throughout its range, the noise is due to the volume control and may be in the form of a defective resistance winding or poor contact between the rotating arm and the resistance winding. There may be an oxidised contact. Poor mechanical contact may be made by the contact arm being bent away from the winding. It can be bent with a small pair of pliers so that it makes firm contact. A dirty winding or an oxidised winding should be cleaned. First use sandpaper lightly and then apply cigarette-lighter fluid to the winding by means of a small toothbrush.

Defective Insulation.

SPUTTERING, hissing and frying noises are frequently caused by poor insulation. If a breakdown occurs between two points, noise in the receiver results. Poor insulation in a power transformer may cause flash-overs and sparks. A frequent offender is the bakelite terminal strip which generally carries all the metal terminals.

The presence of soldering flux and acid results in leakage between terminals and consequent noise. The terminal strip should be thoroughly cleaned and dried. If there is leakage due to the breakdown of the insulating material, parts of the strip have most likely been carbonised or charred. This may be scraped away with a knife. Dirt between posts at high potentials causes the same trouble and should be removed in a similar manner. Power transformers, choke coils, and filter condensers are the worst offenders in this respect since they are in the high voltage circuits. The rectifier valve socket should also be carefully examined for signs of leakage.

Failure of wire insulation may be caused mechanically. For example, if a high voltage wire is caught under a metal clamp or another wire which is tightened by a screw, the insulation may be broken though to such an ex-

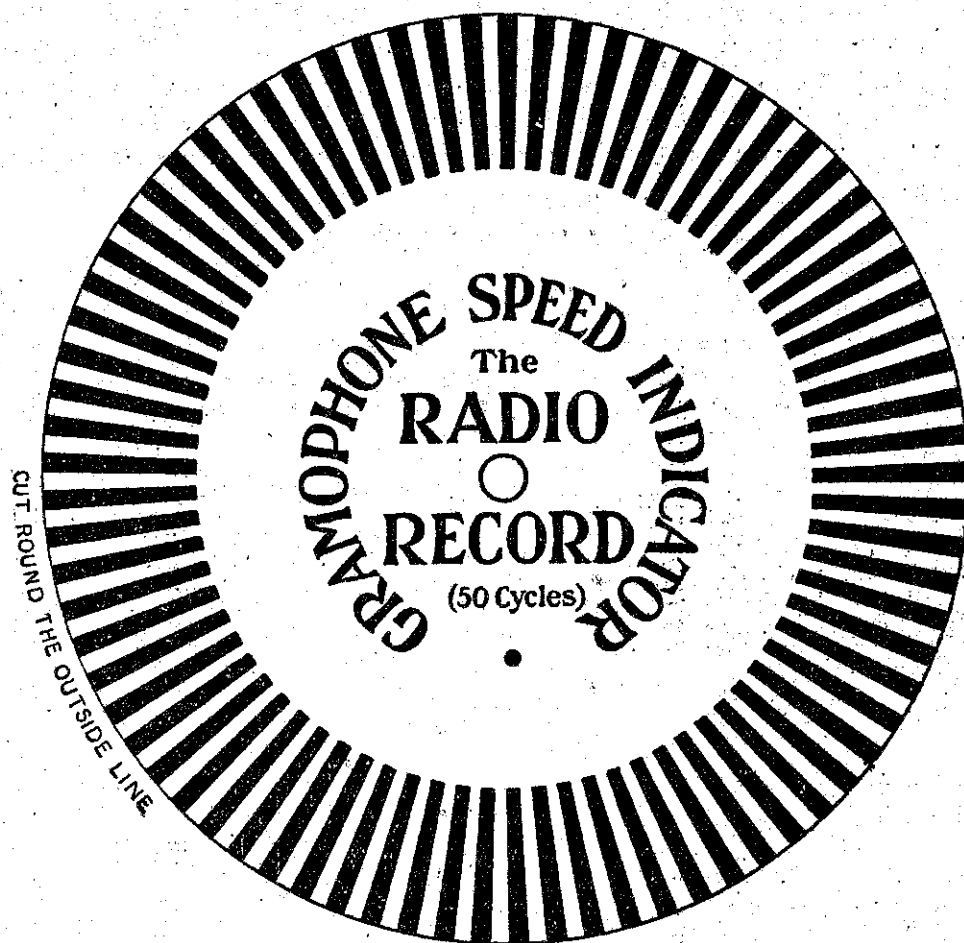
tent that there will be mechanical strain and the wire may ground intermittently. Examination of the wiring will show up these causes of noise trouble.

Variable condensers are often a source of noise. The plates may touch as the rotor is rotated and produce a clicking noise. Fine particles of dust between condenser plates will also cause noise and it is often very hard definitely to trace noises to the variable condensers. One should always clean the condenser plates of noisy receivers carefully. This is accomplished by drawing ordinary smoking pipe cleaners between separate plates of both rotor and stator plates.

Noise Due to Feed-Back.

Much has been written in regard to feed-back oscillations. We do not intend to go into this subject too deeply here as most constructors are familiar with the general procedure to be followed in correcting for undesirable regeneration.

When a set oscillates at radio frequencies, the characteristic squeal or whistle is heard. The pitch of this whistle, going up and down in scale as the variable condenser is rotated from one end of the dial to the other. In general, if we are investigating a neodyne set this means that the receiver must be neutralised. This same condition may also be caused by an unbalanced condition of the main tuning condensers in tuned t.r.f. receivers.



STROBOSCOPIC GRAMPHONE SPEED INDICATOR.

In response to requests we are reprinting this speed indicator from the 1930 Guide. Cut out the disc and mount it on cardboard. Place it on the gramophone turntable and set the motor revolving. When viewed under electric light the bars should appear stationary. Adjust the speed regulator till this is so.

Here is an easy method of neutralising. Obtain some drinking straws, which you can obtain at most sweet shops or chemists. Place a portion of one of the straws on one of the valve socket in which it operates. It is the usual practice to begin at the valve preceding the detector and work back toward the aerial stage. A broadcast or modulated oscillator signal at filament prongs then insert it in the (Continued on page 29.)

SILVER-MARSHALL RADIO M EXTRAORDINARY

These complete console receivers are now available. The receivers employ the most modern features in radio design, incorporating:—

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SELECTOR, DYNAMIC SPEAKER,
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FUTURE PROGRAMMES

SUNDAY

From Auckland

THE Divine Service will be relayed from the Baptist Tabernacle, the preacher being the Rev. Joseph Kemp, and the organist and choirmaster, Mr. Arthur E. Wilson.

Another fine programme has been arranged for the evening's after-church entertainment. The vocalists will be Miss Patricia McLeod (lyric soprano), who has included in her items, "With Verdure Clad"; Mr. A. B. Thompson (one of Auckland's outstanding artistic singers); and Mr. Ralph Eskrigge, who recently gave, with great success, a recital from this station. The Moore Sisters will be heard in several numbers, both instrumental and vocal.

Wellington Notes

THE evening service in St. Thomas's Anglican Church will be relayed. The preacher will be the Rev. C. V. Rooke, and the organist and choirmaster, Mr. R. A. Gatheridge.

At 8.15 p.m., approximately, a recital by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew, will be relayed from the Grand Opera House.

Christchurch Notes

THE Rev. W. Bower Black, LL.B., will be the preacher at St. Paul's Presbyterian Church, when the service is to be broadcast. During the after-church concert, Moszkowski's "Duet for two violins" will be played by Miss Irene Morris and Mrs. A. H. Bills.

4YA Notes

THE service in Trinity Methodist Church will be broadcast this evening. The preacher will be the Rev. H. E. Bellhouse, and the choirmaster, Mr. J. Simpson.

A relay of 3YA's studio concert will follow.

MONDAY

From Wellington

THREE magnificent operatic numbers, with orchestral accompaniment, will be presented by Signor Cesaroni this evening—"Romance" (from "Il Trovatore"), the "Romance" (from "The Masked Ball"), and "Figaro's Song" (from "The Marriage of Figaro"). Cesaroni will also sing, with male chorus, "The Chorus of Dervishes" (from "The Ruins of Athens," by Beethoven). This, with Mr. Gordon Short's pianoforte solo, "Marcia Alla Turca," which follows, has not previously been heard "over the air" in New Zealand.

The company will also sing the "March" from "Tannhauser" and "Solemn Night" by Beethoven. A humorous duet from Mozart's "Don Juan" will be sung by Signor Cesaroni and Mr. G. Gray. The Orchestra's numbers will include Mendelssohn's delightful overture, "Fingal's Cave."

3YA Notes

AT 3YA, Messrs. E. E. Wiltshire and F. C. Fairclough will continue their series of dialogues on "The Story of the Garden."

The New Brighton Band, under Conductor J. A. Nuttall, will be the instrumentalists for 3YA's programme. Marches, waltzes, foxtrots and a selection, "Empire Band," will be played. The vocal programme will be provided by well-known 3YA artists.

From 4YA

AN exceptionally fine concert to be given in the Dunedin Town



NAARE HOOPER,

well-known in Christchurch dramatic circles. She will shortly produce the "Cottage Scene" from "The Lady of Lyons," by Lord Lytton.

—Steffano Webb, photo.

Hall by the Royal Dunedin Male Choir, under Dr. V. E. Galway, will be broadcast.

Part-songs and choruses will be a feature of the evening's entertainment. These numbers will include "Oft in the Stilly Night," "Hymn to Music," "Hohenlinden," "Volga Boat Song," the negro spiritual "Swing Low, Sweet Chariot," and a number of sea chanties.

TUESDAY

Auckland Features

THE orchestra of the Auckland Orphans' Club, which last winter broadcast some very enjoyable programmes, will give the first of a series of monthly concerts.

Notes from 2YA

MRS. T. W. LEWIS will give another of her afternoon talks on "Fabrics and Fashions."

FEATURETTES

Operatic Gems

2YA, Monday

Royal Male Choir

4YA, Monday

Orpheus Club

1YA, Tuesday

Tannhauser

3YA, Wednesday.

Excerpts from Operas

3YA, Thursday

Marie Kura Girls' Choir

2YA, Tuesday

The concert from 2YA studio will be of the popular type. The Marie-kura Girls' Choir of sixteen voices, all of whom are capable soloists, will be heard for the first time on the air. They will sing choruses, quartets, duets and solos.

Mr. Reg. Blow, hitherto not heard from 2YA, comes with an outstanding reputation as a baritone, and his broadcast should prove entertaining.

4YA Items

THE second of "The Metropolis Series" of talks will be broadcast by Mr. Lloyd Ross, M.A., LL.B., under the auspices of the W.E.A. The subject will be "The Charm of London."

The band of the Otago Regiment (under Lieut. Llew O. Asten) and 4YA artists will provide the programme. The Radiettes will provide entertainment in song and dance.

Silent day at 3YA.

WEDNESDAY

Auckland Jottings

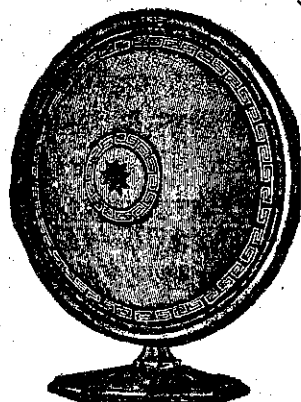
MR. H. DRIVER will broadcast a Book Review. The vocalists this evening include Miss Gwladys Edwardes, who is giving the second of her series of recitals at this studio; Miss Winifred Johnson (contralto) and Mr. Leslie Belcher (tenor), who is appearing before the microphone after a long absence. The Orchestral Octet, under the direction of Mr. Harold Baxter, has steadily gained in popularity with listeners, and once more a splendid programme of music has been arranged by them. Their items include "The Myrtle of Damascus," the suite "Itallana," and a violin solo "Liebeslied," with orchestral accompaniment.

2YA Topics

THE final instalment of the present series of international programmes will be presented. The lecturette will be given by Dr. Guy H. Scholefield, O.B.E.

3YA's Programme

A PUBLIC performance of the concert version of "Tannhauser" by the Royal Christchurch Musical Society will be relayed.



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Dunedin Notes

THE afternoon talk by the Home Science Extension Department of Otago University will be on "Good Habits for Children." The Knox Church Choir will provide the concert. This is an excellent vocal combination which sings under the direction of Mr. C. Roy Spackman. The chorus work will include "Hear My Prayer," two selections from "Maritana," "Song of the Volga Boatmen," and "The Long Day Closes." In addition, many of the talented members of the choir will be heard in solo items.

THURSDAY

Helping Each Other

THE afternoon talk at 1YA, 2YA and 3YA will be on "How Listeners and the Home Science Extension Service can help each other."

Auckland Items

ANOTHER of the series of talks under the auspices of the New Zealand Manufacturers' Association, this time on "Clothing Suitings," will be broadcast.

The Orpheus Musical Club Orchestra, which is composed mainly of members of a city business firm, will provide a programme. This club possesses a very fine orchestra, the members being very keen and enthusiastic players. For this evening's programme they have chosen among their numbers the overture to "Orpheus in der Unterwelt," a selection from "The Belle of New York," a cornet solo, "Arbucklenian," with orchestral accompaniment, and a piccolo and clarinet duet, "The Two Bull-finches."

2YA Notes

A STUDIO concert by the Royal Naval Volunteer Reserve Band under Mr. Harry Baker, with a supporting vocal programme by 2YA artists, will be on the air.

The band has arranged a fine programme, which will include all the music that was to be played at the

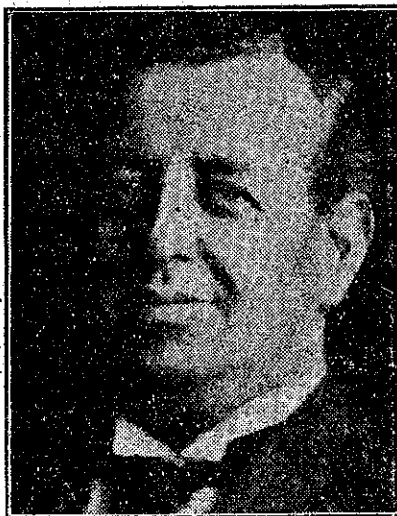
Wellington Band Contest. The majority of the numbers have not hitherto been heard from 2YA. The vocalists for the evening will be the popular Lyric Quartet, who will be heard in quartettes, trios and solos. The latter will comprise "It's a Beautiful Day," "The Maiden's Blush," "To Daisies," and "On the Road to Mandalay."

From Christchurch

AT 7.30 a talk on "Some features of the Dairying Industry in Canterbury" will be given by Mr. F. Clayton, of the Dairying Division, Department of Agriculture.

The Grand Opera Quartet will feature excerpts from two popular operas, "Carmen" and "Maritana."

Among other popular numbers to be sung will be "Home, Sweet Home," "A Dream," "Summer Rain," and "Remembrance." The evening's programme will also be notable as marking the second appearance of Professor Zimmerman, violinist, whose items will be played to orchestral accompaniment. A popular orchestral programme will be provided by the Studio Octet, under Mr. Harold Beck.



MR. KARL ATKINSON

whose gramophone lecture-recitals are well known to 1YA listeners, and who is now on the administrative office staff of the Broadcasting Company at Christchurch, in charge of the gramophone records department. He will give a recital from 3YA on Friday, May 1, his subject being "The Lure of the Waltz."

—S. P. Andrew, photo.

FRIDAY

Notes from Auckland

MISTER REE, who dispensed Radio Magic to the enjoyment of listeners some months ago, will again entertain listeners with a second series of Radio Magic, commencing this evening. The New Clarion Quartet, consisting of Misses Lilian Woods and Beryl Smith, Messrs. Lambert Harvey and Duncan Black, will be heard in several solos, duets and quartettes, including a medley of old-time songs arranged by Mr. Duncan Black. The Orchestral Octet, under Mr. Harold Baxter, will play, among other numbers, "Hungarian Dance No. 2," "Meldie Arabe," "The Village Dance" and "The Pagoda of Flowers."

Features from 2YA

A SPECIAL feature on the programme will be a recital by Mr. Clement May of excerpts from C. J. Dennis's "The Sentimental Bloke."

Mr. Denis Sheard (the Australian tenor), whose singing was so much appreciated on previous occasions, will again delight listeners in four popular songs with orchestral accompaniment—"Eileen Allannah," "Where the River Shannon Flows," "When My Ships Come Sailing Home" and "When Irish Eyes Are Smiling." Mr. Geo. Neel, baritone, will sing "Brian of Glenaar," "The Little Old Garden" and "Birth of Morn." Mr. Allan Shand will be heard in novelty piano solos. The Orchestra, under Signor A. P. Truda, will supply the incidental music.

3YA Selections

MR. KARL ATKINSON, whose gramophone lecture-recitals from 1YA have been very popular, will make his debut from 3YA to-night. His theme for this evening will be "The Lure of the Waltz." Also contributing to the programme will be the Melody Makers (with saxophone and piano), and the Studio Trio, presenting bright music. Introduced into the programme will be the Cottage Scene from "The Lady of Lyons," written by Lord Lytton. It will be produced by Miss Naare Hooper, who will be assisted by Miss Daisy Armstrong and Mr. H. L. Shaw.

Dunedin Topics

A POPULAR programme will be provided by the Salon Orchestra, the numbers comprising the overture "A May Day," "A Dervish Chorus," a selection from "Rio Rita," "Plymouth Hoe," "Minuet Pompadour" and "America." The vocalists will be popular 4YA broadcasters.

SATURDAY

Concert from 1YA

THERE will be a relay from the Town Hall of the weekly concert to be given by the Municipal Band, under the direction of Mr. George Buckley

2YA Items

AT 7.40, under the auspices of the W.E.A., there will be an interesting dialogue entitled "Two Australians Discuss the state of their Country," by Mr. J. R. Elliot and Dr. L. A. Henning, lecturers of the Victoria University College.

From the Wellington Town Hall will be relayed a concert to be given by the Wellington Symphony Orchestra, under Mr. Leon de Mauny. A programme par excellence will include "March Hongroise" (Berlioz), "Symphony No. 3 in F" (Brahms), "Concerto for Violoncello in A Minor" (Saint Saens), incidental music to "Othello" (Taylor) and "Capriccio Espagnol" (Rimsky-Korsakov). Miss Hilda Chndley (contralto) will be heard in two solos, "The Soldier's Wife" and "Spring Waters," both by Rachmaninoff.

From Christchurch

THE miscellaneous programme to be relayed to 4YA will be a bright and varied one. Popular songs, piano improvisations, banjolin solos and popular airs played on the mouth organ, and humorous numbers, will be on the air.



MARY COOLEY, the talented Wellington dramatist, whose interpretation of "Joan" in "Joan of Arc" from 2YA was indeed outstanding.

Our Mailbag

I HAVE just renewed my license for the fourth time, and would like to express my appreciation of the work of the R.B.C. In particular I enjoy the international night from 2YA; the adventures of Hywide and Handsome and the Lockharts are getting more interesting each week, while the musical side of the programme is really wonderful. The 30/- is well spent when one considers the three hundred and sixty-five entertainments received.—J. A. Nicolson (Central Otago).

FOR a long time past I have had a grievance against the broadcasting authorities, and have waited to see complaints in your paper, and as no one else takes the matter up, I must here state what the grievances (more than one) are.

Both 2YA and 3YA have their fortnightly talk on "Books," at the same approximate hour; one station is 10 minutes only earlier than the other. This has been the case to my knowledge since last autumn. Why? The talks are widely different, and if they occurred on separate evenings could both be heard.

Then some months ago 2YA was giving a radio service talk at the same time as the 3YA deeply interesting fortnightly talk. Here again, WHY? There are other nights in the fortnight. My other grievance is: Cannot somebody tell the announcer who sometimes deputises for Mr. Drummond, that one does not say ninety nine ninety nine when speaking of 99.99 and other decimals; and also ask him not to drop his voice at commas, and after the word "said" when reading. I have even heard him whispering to bystanders (either underlings or overlords), while at the microphone, and it sounds deplorable! —P.D.L.H. (Gisborne.)



"MISTER REE."

"Mister Ree" and his radio magic from 1YA were a feature of last year's broadcasts. He is now making a welcome reappearance before the microphone.

—S. P. Andrew, photo.

Full Programmes for Next

[Copyright.—These programmes are copyright, but individual daily programmes may be published on day of performance.]

Sunday, April 26

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, APRIL 26.

- 3.0 : Selected recordings.
 3.15 : Literary selection.
 3.30 : Further selected recordings.
 6.0 : Children's Song Service, conducted by "Uncle Bert."
 6.55 : Relay—Divine Service from the Baptist Tabernacle. Preacher: Rev. Joseph Kemp. Organist and Choirmaster: Mr. Arthur E. Wilson.
 8.30 (approx.): New Symphony Orchestra, "Children's Overture."
 Baritone—Mr. A. B. Thompson, (a) "A Banjo Song" (Homer); (b) "Uncle Rome" (Homer); (c) "Requiem" (Homer); (d) "Gloriana" (Mallinson).
 Instrumental—The Moore Sisters, Trio, "Chant Sans Paroles" (Tschalkowsky); violin solo—"Meditation" (from "Thais") (Massenet); trios, "Bouree" (Bach); "Nocturnette" (Hope).
 Evening weather forecast and announcements.
 Cello—Hans Bottermund, "Adagio" from "Concerto in D Major."
 Piano—Mr. Cyril Towsey, "Sonata Pathetique" (Beethoven).
 Lyric soprano—Miss Patricia McLeod, (a) "With Verdure Clad" (from "The Creation") (Haydn); (b) "Se Tu M'Ami" (De Fesch); (c) "Tu Fai La Superbetta" (Air with variations) (De Fesch).
 Vocal and Instrumental—The Moore Sisters, Trio—"Andante From Norwegian Rhapsody No. 3" (Svendsen); Mezzo-contralto, "Thou Art Repose" (Schubert); Cello solo—"Spirito Gentile" (from "La Favorita") (Donizetti); Trio, "To The Spring" (Grieg).
 Tenor—Mr. Ralph H. Eskridge, (a) "Thank God For a Garden" (Del Riego); (b) "Macushla" (MacMurrrough); (c) "Invictus" (Huhn); (d) "I Did Not Know" (Trotiere).
 State Opera Orchestra, Berlin, "The Magic Flute" (Mozart).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, APRIL 26.

- 3.0 to 4.30 : Selected gramophone recordings.
 6.0 : Children's Song Service, conducted by "Uncle George," assisted by the Children's Choir from St. Andrew's Presbyterian Church.
 8.0 : Relay of Evening Service from St. Thomas's Anglican Church. Preacher: Rev. C. V. Rooke. Organist and Choirmaster: Mr. W. A. Gathridge.
 8.15 (approx.): Relay of Band Recital by the Port Nicholson Silver Band, from the Grand Opera House (Conductor, Mr. J. J. Drew).

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, APRIL 26.

- 3.0 : Gramophone recital.
 5.30 : Children's Song Service by children from Presbyterian Sunday Schools.
 6.15 : Chimes from studio.
 6.30 : Relay of evening service from St. Paul's Presbyterian Church. Preacher, Rev. W. Bower Black. Organist, Mr. Norman Williams. Choir Conductor: Mr. H. Blakeley.
 7.45 (approx.): Musical recordings from studio.
 8.15 (approx.): Court Symphony Orchestra, "The Windmill Man."
 8.23 : Soprano—Miss Cicely Audibert, (a) "A Spring Morning" (Lane Wilson); (b) "Irish—I Really Can't Say" (Alba Rizzi).
 8.31 : Instrumental—Studio Octet (Conductor Harold Beck), (a) "Mazurka" (Saint Saens); (b) "Fingal's Cave" Overture.
 8.44 : Baritone—Mr. Fred C. Penfold, (a) "Requiem" (Homer); (b) "Dawn" (Curran).
 8.49 : Instrumental—Studio Octet, (a) "Turkish March" (Beethoven); (b) "Allegretto" from "1st Symphony" (Beethoven); (c) "In Autumn."
 8.57 : Piano—Michael Zadora, (a) "Prelude in C Major" (Prokofieff); (b) "La Passione" (Lamare).
 9.3 : Weather forecast and station notices.
 9.5 : Male choir—Meinekescher Mannerchor, (a) "Zee Strassbury Auf Der Langen Bruck" (trdL); (b) "Weite Des Gesanges" (Mozart).
 9.11 : Two violins—Miss Irene Morris and Mrs. A. H. Bills, "Duet For Two Violins" (Moszkowski).
 9.14 : Contralto—Mrs. S. M. Williamson, (a) "God's Garden" (Lambert); (b) "O Glad Awakening" (Cuthbert Harris).
 9.19 : Band—Polydor Military Band with Male Quartet, "Silent Night."
 9.22 : Soprano—Miss Cicely Audibert, (a) "Coppelia" (Delibes); (b) "Spanish Gold" (Howard Fisher).
 9.41 : Cello—Maurice Marechal, "Elegie" (Gabriel Faure).
 9.48 : Contralto—Mrs. S. M. Williamson, "Like to the Damask Rose" (Elgar).
 9.52 : Instrumental—Studio Octet, (a) "Jig" (Gustav Holst); (b) "The Dargason" (Gustav Holst).
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, APRIL 26.

- 3.0 : Selected recordings.
 5.30 : Children's Song Service, conducted by "Big Brother Bill."
 6.15 : Instrumental recordings.
 6.30 : Relay of Evening Church Service from Trinity Methodist Church, Stuart Street, Dunedin. Preacher: Rev. H. E. Bellhouse. Choir master: Mr. James Simpson.
 7.45 : Selected recordings.
 8.15 : Relay of concert programme from Station 3YA, Christchurch.
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, APRIL 26.

- 6.0 : Children's service.
 8.15 : Studio concert.

Monday, April 27

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, APRIL 27.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, APRIL 27.

- 3.0 : Chimes. Selected gramophone recordings.
 3.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session, conducted by "Uncle Jeff."
 6.0 : Dinner music session.
 Albert W. Ketelbey's Concert Orchestra, "Cockney Suite" (Ketelbey):
 (1) A State Procession (Buckingham Palace); (2) The Cockney Lover (Lambeth Walk); (3) At the Palais de Dance (Anywhere); (4) Elegy (Thoughts on Passing the Cenotaph); (5) Bank Holiday ('Appy 'Amstead).
 Band of H.M. Grenadier Guards, "Radio—Quick March" (Pecking).
 Jack Payne and the B.B.C. Dance Orchestra, "Say it with Songs" Selection (de Sylva).
 J. H. Squire's Celeste Octet, "Collette" Waltz (Fraser-Simson).
 Albert W. Ketelbey's Concert Orchestra, "Jungle Drums" Patrol Organ—Emil Valazco, "Estrellita."
 Debroy Somers Band, "Hungarian Medley" (arr. Somers).
 J. H. Squire's Celeste Octet, "Memories of Devon" (Evans).
 Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawaiian Waters" (Ketelbey).
 Organ—Emil Belazco, "La Golondrina."
 Band of H.M. Grenadier Guards, "Fighting Strength" (Jordan).
 7.0 : News session, market reports and sports results.
 7.40 : Lecture—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes. Overture—Grand Symphony Orchestra, "Zampa" (Herold).
 8.9 : Bass—Signor Lucien Cesaroni with Orchestral Accompaniment, "Romance" (from "Il Trovatore"; Verdi).
 Soprano—Mrs. M. Ardrey, "Morning" (Speaks).
 8.17 : Violin—Ibolyka Zilner, (a) "Antique Dance" (Dussek-Burmester); (b) "Waltz No. 2" (Weber-Burmester).
 8.23 : Bass—Signor Lucien Cesaroni, with orchestral accompaniment, "Romance" (from "The Masked Ball"; Verdi).
 8.27 : Selection—2YA Orchestra (Conductor, Signor A. P. Truda), "Genevieve de Brabant" (Offenbach); Nocturne, "Esperance."
 8.41 : Chorus—The Company, "March from Tannhauser" (Wagner).
 Bass—Signor Lucien Cesaroni, "Harbour Night Song" (Sanderson).
 Soprano—Miss Ailsa Dillon, "The Poet's Life" (Elgar).
 8.53 : Band—National Military Band, "Ballet Egyptien" (Luigini).
 9.1 : Weather report and station notices.
 9.3 : Selection—2YA Orchestra, "Mignon" (Thomas); Dance, "Toreador and Andalous" (Rubenstein).
 9.18 : Chorus—The Company, "Solemn Night" (Beethoven).
 Cello—Maurice Marechal, "Elegie" (Faure).
 Two numbers from "The Ruins of Athens" (Beethoven).
 Signor Lucien Cesaroni and Male Chorus, "Chorus of Dervishes." Followed by pianoforte—Mr. Gordon Short, (a) "Marcia Allo Turca" (Mozart); (b) "Scotch Dances" (Beethoven—arr. d'Albert).
 9.41 : Contralto—Mrs. K. McAllum, "The Silver Ring" (Chaminade).
 Duet—Signor Lucien Cesaroni and Mr. G. Gray, Humorous Duet from "Don Juan" (Mozart).
 Bass—Signor Lucien Cesaroni, "Figaro's Song" (from "The Marriage of Figaro"; Mozart).
 9.50 : Suite—2YA Orchestra, (a) "Crown of India" (Elgar); Descriptive, "Les Deux Pierrots Amoureux" (Drigo).

Week-all Stations-to May 3

[Copyright.—These programmes are copyright, but individual daily programmes may be published on day of performance.]

10.0 : Dance programme.

Foxtrots—Leo Reisman and His Orchestra, "Puttin' on the Ritz."
 Jack Hylton and His Orchestra, "Punch and Judy Show."
 Gus Arnheim and His Orchestra, "Dancing to Save Your
 Sole" (Gilbert).

Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).

10.12: Waltz—Ted Florito and His Orchestra, "Molly" (Goulding).

Foxtrots—The Rhythmic Eight, "Fairy on the Clock" (Myers).

Jack Hylton and His Orchestra, "The Kerb Step" (Young).

10.21: Vocal duet—Esther Coleman and Foster Richardson, "The Voyagers."

10.24: Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "I Love
 You So Much" (Kaimar).

Coon-Sanders Orchestra, "Moanin' for You" (Goulding).

Victor Arden, Phil Ohman and Their Orchestra, "Dancing
 the Devil Away" (Harbach).

10.33: Waltz—Arcadians Dance Orchestra, "Melody Divine" (Ruby).

Foxtrots—Bernie Cummins and His, Hotel New Yorker Orchestra,
 "Minnie, the Mermaid" (de Silva).

Arcadians Dance Orchestra, "Evening Shadows" (Polla).

Ted Weems and His Orchestra, "Mysterious Mose" (Doyle).

10.45: Vocal duet—Esther Coleman and Foster Richardson, "Mountain Lovers" (Squire).

10.48: Foxtrots—The Rhythmic Eight, "Sweethearts' Holiday" (Kahal).

Nat Shilkret and His Orchestra, "Singing a Vagabond Song."

Jack Hylton and His Orchestra, "On Her Doorstep Last
 Night" (Hargreaves).

Gus Arnheim and His Orchestra, "All I Want is Just One."

11.0 : God save the King.

3YA, CHRISTCHURCH (990 KILOCYCLES)—MONDAY, APRIL 27.

3.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's hour, "Cousin Margot" and "The Mystery Man."

6.0 : Dinner music session:

Berlin Philharmonic Orchestra, "Torch Dance, B Flat Major."

Ilja Livschakoff and His Orchestra, "Aubade" (Livschakoff).

Paul Godwin Orchestra, "Evening Chimes" (Marzian).

Vienna Schrammel Quartet, "Some Day" (from "Marietta"—Strauss).

Efm Schachmeister's Dance Orchestra, "Casanova, I Love You," Tango

Ilja Livschakoff and His Orchestra, "Little Serenata" (Alfred Grun-
 feld); "Who Has Filled Our Heart With Love?" (Lehar).

Paul Godwin's Orchestra, "The Mask-Seller" (Albert Wolff).

Vienna Schrammel Quartet, "Spin, Spin" (Lochmann).

Symphony Orchestra, "Il Guarany" Introduction (Gomes).

Paul Godwin's Orchestra, "Song of the Desert" (Delibes); "Tonerna."

Efm Schachmeister's Dance Orchestra, "At the Fireside."

Paul Godwin's Jazz Symphonians, "Butterfly, Sweet Little Lady."

Ilja Livschakoff and His Orchestra, "All My Heart Belongs to You."

7.0 : News session.

7.30: Dialogue—Messrs. E. E. Wiltshire and F. C. Fairclough, "The Story
 of the Garden" (continued).

8.0 : Chimes. Band programme by the New Brighton Municipal Band (Con-
 ductor J. A. Nuttall) and assisting 3YA artists.

March—Band, "Our Battalion" (Ryshaworth); waltz, "The Same As
 We Used to Do" (Campbell).

8.12: Contralto—Miss Margaret Richardson, (a) "Oh for a Burst of Song"
 (Allitsen), (b) "Summer Afternoon" (Coates).

8.18: Zither—Ernst Rommel, (a) "Ringling of the Bells," (b) "Spring in
 March" (Neal), (c) "Episode" (Shiffel).

8.24: Tenor—Mr. E. R. Pitman, (a) "Sweet Early Violets" (Sherrington),
 (b) "A Chip of the Old Block" (Squire).

8.30: Saxophone—Rene Dumont, "Saxophobia" (Wiedoeft).

8.33: Humour—Mr. H. Instone, "The Obstructive Hat."

8.39: Foxtrot—Band, "Little White Lies" (Donaldson); one-step, "There's
 a Good Time Coming" (Butler).

8.47: Soprano—Mrs. J. A. Edwards, (a) "Wishing" (Maley), (b) "A Day
 Will Come" (G. B. Nevin).

8.52: Selection—Band, "Empire-Land" (Douglas).

9.4 : Weather forecast and station notices.

9.6 : Male choir—Ural Cossacks, (a) "Die Huld des Friedens" (Fatejeff),
 (b) "Dir Singen Wir" (Lwowski).

9.14: Contralto—Miss Margaret Richardson, (a) "Come Close to Me"
 (Gerald-Carne), (b) "Scottish, "Hame" (Walford Davies).

9.19: Accordeon—Rene Leroux and His Musette Orchestra, (a) "During the
 Dance" (Olivier-Lenoir), (b) "They Don't Have It" (Crayssac).

9.25: Tenor—Mr. E. R. Pitman, (a) "In Town" (Coates), (b) "The Garden
 of Afterwards" (Clever).

9.31: Foxtrots—Band, (a) "Over the Garden Wall" (Nicholls), (b) "Say a
 Little Prayer for Me" (Nicholls).

9.39: Soprano—Mrs. J. A. Edwards, (a) "Out Beyond the Window Pane"
 (Turner Maley), (b) "Fairy Tales" (Wilson).

9.44: Saxophone—Feith and Kleinath, "Souvenir" (Zargevsky).

9.50: Humour—Mr. H. Instone, "Me and Father" (arr. Instone).

9.54: Male choir—Singing Teachers' Society, Neukoln, "Brothers, Your
 Hands" (Mozart).

9.57: March—Band, "Old Chums" (Webb).

10.2 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, APRIL 27.

3.0 : Selected recordings.

5.0 : Children's hour, conducted by "Big Brother Bill"

6.0 : Dinner music session:

Paul Godwin's Orchestra, "Marietta Fantasia" (Strauss).

Zonophone Salon Orchestra, "Evensong" (Easthope Martin).

New Symphony Orchestra, "Minuet" (Boccherini).

National Military Band, "The Flying Dutchman" Overture (Wagner).

De Groot and Piccadilly Orchestra, "Waldteufel Memories" (arr. Finck)

Marek Weber's Orchestra, "I Pagliacci" (Leoncavallo).

Zonophone Salon Orchestra, "Eleanor" (Deppen).

New Symphony Orchestra, "Nell Gwynn Dance No. 3" (German);

"Le Old Ballet Music" (Massenet): (1) Castillane, (2) Aubade,
 (3) Andalouse, (4) Arragonaise, (5) Madrilene, (6) Navarraise.

7.0 : News session.

8.0 : Chimes. Relay of concert by the Royal Dunedin Male Choir from
 Dunedin Town Hall, under conductorship of Dr. V. E. Galway.

Pianist, Mr. Chas. A. Martin, Mus. Bac.

Part-song—The Choir, "Hymn to Music" (Buck).

Tenor—Mr. Wm. Mills, "In the Dawn" (Elgar).

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AUCKLAND

CHRISTCHURCH

WELLINGTON.

- Part-song (with humming accompaniment and baritone solo), "Oft in the Stilly Night" (Branscombe).
 'Cello—Miss V. Moffatt, "Concerto in G Minor" (Handel): First movement, Grave; fourth movement, Allegro con Brio.
 Soprano—Miss F. Elmes, "Cry of Rachel" (Salter).
 Part-song—The Choir, "Hohenlinden" (Pitt).
 9.0 : Weather report and station notices.
 Part-song—The Choir, "Volga Boat Song" (traditional).
 Bass—Mr. F. C. Cooper, "Horses of the Dawn" (Brett).
 'Cello—Miss V. Moffatt, "Hamabdi" (Hebrew melody) (Bantock).
 Negro Spiritual—Choir, "Swing Low, Sweet Chariot" (Reddick).
 Soprano—Miss F. Elmes, Aria from "Carmen" (Bizet).
 Shanties—The Choir, (a) "Billy Boy," (b) "Blow, Ye Winds of Morning," (c) "Roving." Respective shantymen, Messrs. G. S. Thompson, T. Bachop, and A. G. Fleming.
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, APRIL 27.

- 6.30: Children's session.
 7.30: News, markets, and information.
 8.0 : Studio concert.

Tuesday, April 28

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, APRIL 28.

- 3.0 : Selected recordings.
 3.15: Talk—Mrs. Leslie Crane, "Beauty of Mind and Body in relation to Diet."
 5.0 : Children's session, conducted by "Uncle Dave."
 6.0 : Dinner music session:
 Marek Weber's Orchestra, "Cavalleria Rusticana" Selection.
 Vienna Philharmonic Orchestra, "Hungarian Dance No. 3" (Brahms).
 Trio—Fritz and Hugo Kreisler and Michael Rauchaussen, "March Miniature Viennois" (Kreisler).
 Berlin Philharmonic Orchestra, "Tannhauser" March (Wagner).
 De Groot and His Orchestra, "I Love You" (Grieg).
 Berlin Philharmonic Orchestra, "Hungarian March—The Damnation of Faust" (Berlioz).
 Trio—Fritz and Hugo Kreisler and Michael Rauchaussen, "Syncopation" (Kreisler).
 Berlin State Orchestra, "Oberon" Overture (Weber).
 Vienna Philharmonic Orchestra, "Hungarian Dance No. 1" (Brahms).
 Band of H.M. Coldstream Guards, "Suite Francaise" (Foulds).
 De Groot and His Orchestra, "Romance" (Rubinstein).
 Marek Weber and His Orchestra, "Lehariana" (Geiger).
 7.0 : News and market reports.
 7.40: Talk—Mr. Rod Talbot, "Motoring."
 8.0 : Chimes. Presentation of programme by the Orchestra of the Auckland Orphans Club, under the direction of Mr. Harold Baxter. March—The Orchestra, "The Middy" (Alford); overture, "Jolly Robbers."
 8.12: Baritone—Orphan Len Barnes, "Madamina" (from "Don Giovanni").
 8.17: Selection—The Orchestra, "The Geisha" (Jones); piccolo, Orphan Victor Cater, "The Comet" (Brewer).
 8.22: Elocution—Orphan Cedric Zahara, "The Mine-Sweeper" (Kipling).
 8.36: Fantasia—The Orchestra, "Darkey's Dreamland" (Bidgood); selection, "Henry VIII. Dances" (German).
 8.52: Baritone—Orphan Len Barnes, "O Thou Loveliest" (from "Il Maestrodì Musica"—Pergolesi).
 8.55: Waltz—The Orchestra, "Weaner Mad'n" (Zeihrer).
 9.2 : Evening weather forecast and announcements.
 9.4 : Suite—The Orchestra, "Americana" (Thurban).
 9.16: Humour—Orphan Cedric Zahara, "Reginald" (Anonymous).
 9.20: Ballet—Orchestra, "Egyptian" (Luigini).
 9.32: Programme of dance music:
 Foxtrots—Hal Kemp and His Orchestra, "Medley of Southern College Songs, Part 1."
 Anglo-Persians, "Madrid" (Mattullath).
 Hal Kemp and His Orchestra, "Medley of Southern College Songs, Part 2."
 Waltz—Carter's Orchestra, "Wednesday Night Waltz" (Williams).
 9.44: Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Lonely." Ben Bernie and His Orchestra, "I Still Belong to You." Lloyd Huntley and His Isle o' Blues Orchestra, "Gee, but I'd Like to Make You Happy" (Shay).
 9.53: Vocal—Chester Gaylord, "What's the Use?" (Jones).
 9.58: Foxtrots—Phil Spitalny's Music, "Maybe It's Love" (Mitchell). Anglo-Persians, "Siboney" (Morse).
 Tom Clines and His Music, "Why Have You Forgotten Waikiki?" (Kahn).
 Phil Spitalny's Music, "Beyond the Blue Horizon" (Robin).
 10.8 : Vocal duet—Cotton and Morpheus, "Never Swat a Fly" (De Sylva).
 10.11: Foxtrots—Six Jumping Jacks, "You're Simply Delish" (Freed). Jacques Renard and His Orchestra, "Readin', Ritin', Rhythm" (Hartman).
 Six Jumping Jacks, "It's a Great Life" (Robin).
 10.20: Waltzes—Bob Haring and His Orchestra, "One Love" (Koehler). Castlewood Marimba Band, "Song of the Islands" (King).

- 10.26: Foxtrots—Jacques Renard and His Orchestra, "If I Knew You Better." Tom Gerin and His Orchestra, "What a Fool I've Been." Bob Haring and His Orchestra, "Baby's Birthday Party." Castlewood Marimba Band, "Drifting and Dreaming."
 10.38: Vocal—Chester Gaylord, "I'll Be Blue Just Thinking of You."
 10.41: Foxtrots—Tom Clines and His Music, "Passing Time With Me" (Hill). Meyer Davis's Hotel Astor Orchestra, "It Seems to be Spring" (Marion).
 Tom Clines and His Music, "What's the Use of Living Without You?" (McCarthy).
 Waltz—Carter's Orchestra, "The Waltz of the Hills" (Fields).
 10.53: Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Wond'ring." Ben Bernie and His Orchestra, "You Are the Melody." Tom Gerin and His Orchestra, "After All, You're All I'm After" (Newman).
 11.2 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, APRIL 28.

- 2.0 : Chimes—Special broadcast for schools by officers of the Education Department.
 3.0 : Selected gramophone recordings.
 3.15: Lecturette—Mrs. T. W. Lewis, "Fabrics and Fashions."
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by "Uncle Toby" and "Jumbo."
 6.0 : Dinner music session.
 Edison Bell Symphony Orchestra, Paris, "Ballet Egyptien" (Luigini).
 Marcu's Roumanian Orchestra, "It is Written on Your Lips."
 Edison Bell Symphony Orchestra, Paris, "Manon" (Massenet).
 The Scala Trio, "Après Un Reve" (Faure).
 Edison Bell Symphony Orchestra, Paris, "Carmen" Selection (Bizet).
 Band of H.M. Scots Guard, "The Grasshoppers' Dance" (Bucalossi).
 Edison Bell Symphony Orchestra, Paris, "Light Cavalry" Overture.
 Band of H.M. Life Guards, "Cavalleria Rusticana" Selection.
 The Scala Trio, "Elegie" (Massenet).
 Marcu's Roumanian Orchestra, "Two Red Roses, a Gentle Kiss."
 Royal Opera Orchestra, "Naila Waltz" (Delibes-Doppler).
 7.0 : News session, market reports and sports results.
 7.40: Lecturette by a Representative of the Agricultural Department, "For the Man on the Land."
 8.0 : Chimes.
 Overture—Salon Orchestra (Conductor Mr. M. T. Dixon) "Woodland Pictures" (Fletcher).
 8.15: Choral—Mareikura Girls' Choir, (a) "Viking Song" (Coleridge-Taylor); duet, "Nocturne" (Denza); choral—"Shepherds Dance."
 8.25: Banjo—Mr. Stan Williamson, (a) "Take Your Pick" (Mandell); (b) "Marie" (Berlin).
 8.31: Baritone—Mr. Reg. Blow, with orchestral accompaniment, (a) "A Castilian Lament" (Del Riego); (b) "Vale" (Russell).
 8.37: Humour—Mr. Len Ashton (a) "Gorgonzola" (Sarony); (b) "A Couple o' Ducks" (Weston and Lee).
 8.45: Selection—Salon Orchestra, "Arlette" (Feldman); incidental music, "A Kiss for Cinderella" (Bucalossi).
 9.0 : Weather report and station notices.
 9.2 : Polydor Cavalry Band, (a) "Foot Deffle March" (Konemann); (b) "March Past Mounted" (Dahne).
 9.8 : Choral—Mareikura Girls' Choir, (a) "To a Wild Rose" (MacDowell); (b) "Ye Spotted Snakes" (Wheeler).
 9.15: Accordeon—Bastren and His Bal Musefte Orchestra, (a) "Coquette"; (b) "The Mill" (Halet).
 9.21: Baritone—Mr. Reg. Blow, with orchestral accompaniment, (a) "Soul of Mine" (Barnes); (b) "A Banjo Song" (Homer).
 9.27: Banjo—Mr. Stan Williamson, (a) "When Dreams Come True" (Berlin); (b) "Fragments" (arrgd. Williamson).
 9.33: Humour—Mr. Len Ashton, "Oo-Ah-Ah" (MSS.).
 9.37: Grinning Schrammel trio, "High Up in the Forest" (Kaulich).
 9.40: Chorus—Light Opera Company, "King of Jazz."
 9.44: Violin solo with orchestra, "Second Czardas" (Monti); Salon Orchestra Serenade, "Midsummer Night's Serenade" (Albeniz); "Dance Novelties."
 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, APRIL 28.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, APRIL 28.

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by "Big Brother Bill" and "Wendy."
 6.0 : Dinner music session.
 Royal Italian Band, "Marcia Reale" (Gabetti).
 Court Symphony Orchestra, "In Venice" (Sellars).
 Organ—Stanley MacDonald, "Was it a Dream?" (Coslow).
 Royal Italian Band, "Garibaldi's Hymn" (Olivieri).
 Columbia Symphony Orchestra, "Idillo" (Lack).
 Ketelbey's Concert Orchestra, "Sanctuary of the Heart" (Ketelbey).
 'Cello—W. H. Squire, "Melody in F" (Popper).
 New Queen's Hall Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (a) "Un Sonnet d'Amour," (b) "La Tarantelle."

W. H. Squire's Celeste Octet, "Mignon": (1) Introduction and Romance, (2) Polonaise (Thomas).

Cello—W. H. Squire, "Silver Threads Among the Gold" (Danks).

Columbia Symphony Orchestra, "Spring Song" (Mendelssohn).

H.M. Grenadier Guards, "Turkish Patrol" (Michaelis).

Organ—Stanley MacDonald, "Nicolette" (Batten).

Jacque Jacobs Ensemble, "Weiner Blut" (Strauss).

H.M. Grenadier Guards Band, "Smithy in the Woods" (Michaelis).

7.0 : News session.

7.40: Talk—Mr. Lloyd Ross, M.A., LL.B., under the auspices of W.E.A., "The Metropolis Series, No. 2—The Charm of London."

8.0 : Chimes. Studio programme presented by Band of Otago Regiment, under the direction of Lieut. Llew. O. Asten, assisted by 4YA artists. March—Band, "The Black Horse" (Hume); Idyll, "Blumengefuehler" (Von Blon).

8.11: Vocal quartet—Misses Mary Pratt, Dorothy M. Sligo and Messrs. E. W. Robbins, W. Burch, (a) "Weep No More" (Founded on Prelude in C Sharp Minor) (Rachmaninoff); (b) "On the Banks of Allan Water" (Horn).

8.18: Novelty—Winkler Trio, "Bavarian Jokes" (Winkler).

8.24: Song, patter and dance—The Radiettes, (a) "Why?" (Swanstrom); (b) "Anytime's the Time to Fall in Love" (King).

8.34: Selection—Band, "Martial Moments" (Winter).

8.44: Contralto—Miss Mary Pratt, "When I Am Laid in Earth" (Purcell). Selection—Vocal Quartet, "At Eventide" (from "Cavatina") (Raff).

8.50: Valse de Concert—The Band, "Gold and Silver" (Lehar).

9.0 : Weather report and station notices.

9.2 : Paul Godwin's Trio, "Legende d'Amour" (Becce).

9.6 : Bass—Mr. W. Burch, (a) "The Drum Major" (Newton); (b) "Rose of My Heart" (Lohr).

9.12: Overture—Band, "Tancredi" (Rossini).

9.19: Song, patter and dance—The Radiettes, "Button Up Your Overcoat."

9.24: Xylophone—Franz Kruger, "The Spanish Beggar Girl" (Orth).

9.30: The Vocal Quartet, "As Torrents in Summer" (from the Cantata, "King Olaf" (Bigar).

9.33: Soprano—Miss Dorothy M. Sligo, (a) "Song of Sunshine" (Goring Thomas); (b) "Cuckoo Madrigal" (Wood).

9.39: Russian dance—Band, "Gopak" (Moussorgsky).

9.43: Duet—Miss Mary Pratt and Mr. E. W. Robbins, "Calm, Silent Night."

Tenor—Mr. E. W. Robbins, "Now You Are Mine" (Geehl).

The Vocal Quartet, "Goodnight, Goodnight, Beloved" (Pinsuti).

9.54: Selections—Band, (a) "Funeral March of the Bumble Bee" (Marsden); (b) "The Roundabout" (Ord Hume).

10.4 : God save the King.

Wednesday, April 29

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, APRIL 29.

3.0 : Selected recordings.

3.15: Literary selection.

5.0 : Children's session, conducted by "Uncle Reg."

6.0 : Dinner music session.

The Classic Symphony Orchestra, "Raymond Overture" (Thomas).

Band of the Garde Republicaine, "The Two Pigeons" (Messager); (1)

Entrance of Tziganes; (2) Scene and March of the Two Pigeons."

Herman Finck's Orchestra, "Schubertiana" (arr. Finck).

Musical Art Quartet, "To a Wild Rose" (McDowell).

The Rhythmic Troubadours, "Song of the West" Selection.

London Theatre Orchestra, "Maid of the Mountains" Selection.

Rhythmic Troubadours, "Puttin' on the Ritz" Selection.

Rio Novelty Orchestra, "Spaventa" Tango (Pares and Van Parys).

Herman Finck's Orchestra, "Schubertiana" (arr. Finck).

Musical Art Quartet, "Mighty Lak' a Rose" (Nevin).

Rio Novelty Orchestra, "Mientras Lloro el Tango."

7.0 : News and market reports.

7.40: Talk—Mr. H. H. Driver, "Book Review."

8.0 : Chimes. March—Orchestral Octet, under the direction of Mr. Harold Baxter, "The Ulans" (Ellenberg); Ballet, (a) "March," (b) "Danse Chinoise" (Tchaikowsky).

8.12: Contralto—Miss Winifred Johnson, (a) "A Farewell" (Liddle); (b) "Love's Coronation" (Aylward); (c) "Sweet and Low" (Sullivan).

8.22: Suite—Orchestral Octet, "The Myrtle of Damascus" (Woodforde-Finden); (a) "The Myrtles," (b) "After Drought," (c) "At Nightfall," (d) "I Did Not Know," (e) "L'Envol."

8.37: Tenor—Mr. Leslie Belcher, (a) "My Pretty Jane" (Bishop); (b) "Fairings" (Martin); (c) "Alice, Where Art Thou" (Ascher).

8.47: Mr. A. B. Chappell, M.A., "Topical Talk."

9.2 : Evening weather forecast and announcements.

9.4 : The Orchestral Octet, "Hungarian Dance No. 4" (Brahms); Suite, "Italiana" (Thurhan); (a) "In Sunny Marino," (b) "Venetian Love Song," (c) "The Chimes of St. Peter."

9.16: Soprano—Miss Gwladys Edwardes, (a) "In the Red April Dawn" (Willeby); (b) "After the Grim Daylight" (Willeby); (c) "At Eve I Heard a Flute" (Strickland); (d) "Over the Mountains."

9.27: Violin and orchestra—Mr. Carl Whitmore with the Orchestral Octet, "Liebesleid" (Kreisler).

Waltz—The Orchestral Octet, "La Belle Au Bois Dormant."

9.34: Gramophone lecture-recital—A Commentator, "Latest Recordings."

10.4 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, APRIL 29.

3.0 : Chimes. Selected gramophone recordings.

3.30 and 4.30: Sporting results to hand.

5.0 : Children's session, conducted by "Aunt Daisy."

6.0 : Dinner music session.

Grand Symphony Orchestra, "Suite Orientale" (Francis Popy); (a) "March," (b) "On the Shore of the Ganges."

Edith Lorand's Orchestra, "Toreador and Andalouse" (Rubenstein).

International Concert Orchestra, "Luxembourg Waltz" (Lehar).

Dajos Bela Orchestra, "Woodland Peace" (Favilla).

Berlin State Opera House Orchestra, "The Barber of Seville" Overture.

Edith Lorand Orchestra, "Minuet" (Bocherini).

Grand Symphony Orchestra, "Suite Orientale," Part 4, "The Patrol" (Francis Popy); "Lustpiel Overture" (Kela Bela).

Dajos Bela Orchestra, "The Court Ball" (Josef Lanner).

Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitome); Suite Orientale," Part 3, "The Dancers" (Francis Popy).

Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).

Grand Symphony Orchestra, "Chinese Street Serenade."

7.0 : News session, market reports and sports results.

8.0 : Chimes. Specially recorded overseas programme.

Dr. Eugene Ormandy and His Salon Orchestra.

The International Singers.

The Ambassadors of Melodyland.

Abroad with the Lockharts.

Weather report.

International talk—Mr. E. J. Howard, M.P., "South Africa as Unit of the Empire—Her Gold Production."

Hywide and Handsome.

Nat Brusiloff and His Lido Venice Orchestra.

God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, APRIL 29.

3.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's hour.

6.0 : Dinner music session.

J. H. Squire's Celeste Octet, "Operatica" (arr. Squire).

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Band—The Bombardiers, "Hungarian Dance No. 5" (Brahms).
Orchestre Symphonique de Paris, "L'Arlesienne Suite" Adagietto.
Regal Orchestra, "Pagliacci" Selection (Leoncavallo).
J. H. Squire's Celeste Octet, "Song of the Waterfall" (Squire).
Orchestre Symphonique de Paris, "L'Arlesienne Suite" Entr'acte, le Carillon (Bizet).

London Theatre Orchestra, "A Country Girl" Selection (Monckton).
Band—The Bombardiers, "Hungarian Dance No. 6" (Brahms).
Orchestre Symphonique de Paris, "L'Arlesienne Suite" Intermezzo.
Regal Cinema Orchestra, "Show of Shows" Selection.
J. H. Squire's Celeste Octet, (a) "Scent of the Jasmine" (Squire);
(b) "Two Eyes of Grey" (McGeoch).
Orchestre Symphonique de Paris, "L'Arlesienne Suite" Entr'acte, la Cuisine de Castelet (Bizet).

7.0 : News session.

7.30: Addington Stock Market Reports.

8.0 : Chimes. Relay from Civic Theatre—Presentation of Concert Version of Wagner's Grand Opera, "Tannhauser," by Royal Christchurch Musical Society, Incorporated, with Full Chorus and Orchestra. Musical Director, Mr. W. H. Dixon, L.R.A.M., A.R.C.M. Soloists: Elizabeth, Mrs. C. Tait; Venus, Mrs. C. Tait; Hermann, Mr. T. D. Williams; Tannhauser, Mr. R. J. Laurensen; Walthar, Mr. S. Andrews; Biterolf, Mr. J. T. Wilson; Schreiber, Mr. H. Blakeley; Reinmar, Mr. R. S. H. Buchanan.

10.0 (approx.): God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, APRIL 29.

8.0 : Selected recordings.

8.15: Talk—"Good Food Habits for Children," arranged by the Home Science Extension Service of Otago University.

9.0 : Children's hour, conducted by "Big Brother Bill."

9.0 : Dinner music session:

Milan Symphony Orchestra, "Mignon" Overture (Thomas).

H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).

Jean Lensen and His Orchestra, "Millions d'Arlequin" (Drigo).

Columbia Symphony Orchestra, "Al Fresco" (Herbert).

Symphony Orchestra, "Hungarian March" (Berlioz).

Jean Lensen and His Orchestra, "Si Mes Vers Avalent des Alies."

Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."

J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein, arr. Crooke).

H. G. Amers and the Eastbourne Municipal Orchestra, "Silhouettes" (Arensky), (a) "Introduction," (b) "La Coquette."

Bernardo Gallico and His Orchestra, "The Clock is Playing" (Blaauw).

H. G. Amers and the Eastbourne Municipal Band, "Dancing Doll" ("Poupée Valsante"—Poldini); "Silhouettes—The Dreamer."

Columbia Symphony Orchestra, "Badinage" (Herbert).

Zurich Tonhalle Orchestra, "Il Seraglio" Overture (Mozart).

Symphony Orchestra, "Coppelia Ballet—Entr'acte and Valse" (Delibes).

7.0 : News session.

7.15: Talk—Mr. Arthur A. Hume, "The Latest Development in Grass Farming Efficiency."

8.0 : Chimes. Studio Presentation by Knox Church Choir under directorship of Mr. C. Roy Spackman and accompanied by Miss Mona MacLeay.

Overture—Bournemouth Municipal Orchestra, "Praeludium" (Jarnefelt).

8.4 : Chorus—The Choir, "O Gladsome Light" (Sullivan).

Soprano—Miss Hope Hodges, (a) "The Auld Scotch Songs" (Leeson), (b) "The Auld Hoose" (arr. Moffatt).

8.14: Violin—Mr. Norrie Larkins, "Song of India" (Rimsky-Korsakov).

8.18: Baritone—Mr. E. B. C. Murray, "Cobbler's Song" from "Chu Chin Chow" (Norton).

8.21: Humorous recital—Miss Audrey Watson, "At the Seaside" (Anon.).

8.25: Cello—Pablo Casals, "Goyescas" (Granados).

8.29: Cantata—The Choir and Miss Effie Williams, "Hear My Prayer."

8.39: Soprano—Mrs. J. Garfield Anderson, "An Open Secret."

8.42: Part-song—The Choir, "Angels That Around Us Hover" (from "Maritana"—Wallace).

8.45: Piano—Miss Noeline Marshall, L.T.C.L., "Toccata" (Saint-Saens).

8.49: Mezzo-soprano—Mrs. J. A. Moore, with violin obligato, "Farewell to Summer" (Johnson).

8.53: Part-songs—The Choir, (a) "Waterlilies" (Cowen), (b) "Gipsy Chorus" from "Maritana" (Wallace).

9.0 : Weather report and station notices.

9.2 : New York Symphony Orchestra, "Entrance of the Little Fauns."

9.6 : Part-song—The Choir, "Sleep, Gentle Lady" (Bishop).

9.9 : Humorous recital—Miss Audrey Watson, "If Life Were a Play" (Anon.).

9.13: Two violins—Messrs. C. Roy Spackman and Norrie Larkins, "Neapolitan" (Lawson).

9.17: Baritone—Mr. G. Stuart Thomson, (a) "On the Road to Mandalay" (Cobb), (b) "The Vicar's Song" (Sullivan).

9.23: Glee—The Choir, "Song of the Volga Boatmen" (traditional).

9.26: Cello—Beatrice Harrison, "Melody" (Dawes).

9.29: Soprano—Miss Aileen Kileston, (a) "Almond Blossoms" (Arundale), (b) "Butterfly Wings" (Phillips).

9.33: Part-song—The Choir, "The Long Day Closes" (Sullivan).

9.36: Dance music session:

Foxtrots—Isham Jones's Orchestra, "Trees" (Kilmer).

Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "The Wedding of the Birds" (Tobias).

Tom Gerun and His Orchestra, "You're Lucky to Me" (Razaf); "My Love for You" (Kahn).

9.48: Waltz—Joe Green and His Orchestra, "Song of the Big Trail"

Foxtrots—Tom Gerun and His Orchestra, "Rollin' Down the River."

Jacques Renard and His Orchestra, "Three Little Words."

9.57: Vocal—Charles King, "Here Comes the Sun" (Freed).

10.0 : Foxtrots—Isham Jones's Orchestra, "Stardust" (Carmichael);

Ozzie Nelson and His Orchestra, "Who's Calling You Sweetheart To-night?" (O'Flynn).

Nick Lucas and His Crooning Troubadours, "I Miss a Little Miss" (Seymour).

Ozzie Nelson and His Orchestra, "And Then Your Lips Met Mine" (Nelson).

10.12: Waltzes—Regent Club Orchestra, "You Will Remember Vienna."

Castlewood Marimba Band, "Drifting on to Avalon."

10.18: Foxtrots—Colonial Club Orchestra, "On a Little Balcony in Spain."

Jacques Renard and His Orchestra, "I Bring a Love Song."

Nick Lucas and His Crooning Troubadours, "You're Driving Me Crazy" (Donaldson).

10.27: Vocal—Chester Gaylord, "Confessin'" (Neiburg).

10.30: Foxtrots—Tom Gerun and His Orchestra, "Cheerful Little Earful."

Abe Lyman and His California Orchestra, "Never Swat a Fly" (De Sylva).

Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Say 'Oul' Cherie" (Robinson).

Colonial Club Orchestra, "Sing Song Girl" (McCarthy).

10.42: Vocal—Charles King, "Leave a Little Smile" (Dublin).

10.45: Foxtrots—Tom Gerun and His Orchestra, "Memories of You" (Razaf).
Abe Lyman and His California Orchestra, "Old-Fashioned Girl" (De Sylva).

Loring "Red" Nichols and His Orchestra, "Embraceable You" (Gershwin).

10.54: Waltzes—Castlewood Marimba Band, "Ukulele Moon" (Davis).

Joe Green and His Orchestra, "I'm Alone Because I Love You" (Young).

11.0 : Foxtrots—Tom Gerun and His Orchestra, "My Sweetheart Serenade."

Jacques Renard and His Orchestra, "A Girl Friend of a Boy Friend of Mine" (Kahn).

11.6 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, APRIL 29.

6.30: Children's session.

7.30: News, markets, and information.

8.0 : Studio concert.

Thursday, April 30

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, APRIL 30.

3.0 : Selected recordings.

3.15: Talk—"How Listeners and the Home Service Extension Department can help each other."

5.0 : Children's session, conducted by "Peter Pan."

6.0 : Dinner music session:

Royal Opera Orchestra, "Praeludium" (Jarnefeldt).

Waltz—Royal Opera Orchestra, "Eugin Onegin" (Tschalkowsky).

Balalaika Orchestra, "Shining Moon" (Russian folk-song).

Vienna Philharmonic Orchestra, "Morning, Noon, and Night in Vienna."

Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert): (1) Spanish, (2) Chinese, (3) Cuban, (4) Oriental.

Philadelphia Symphony Orchestra, "Tales from the Vienna Woods."

Berlin State Opera Orchestra, "German Dances" (Mozart).

Royal Opera Orchestra, "Berceuse" (Jarnefeldt).

San Francisco Symphony Orchestra, (a) "Serenade" (Volkmann), (b)

"Flight of the Bumble Bee" (Rimsky-Korsakov).

Chicago Symphony Orchestra, (a) "Valse Triste" (Sibellus), (b)

"Funeral March of a Marionette" (Gounod).

San Francisco Symphony Orchestra, "Marche Militaire" (Schubert).

7.0 : News and market reports.

7.40: Talk—Mr. M. Stewart, under the auspices of the New Zealand Manufacturers' Association, "The Superphosphate Industry."

8.0 : Chimes. Presentation of studio programme by the Orpheus Musical Club. March—The Orpheus Musical Club Orchestra, "Le Pere de la Victoire" (Ganne). Overture, "Orpheus in der Unterwelt."

8.14: Contralto—Mrs. L. E. Lambert, (a) "Softly Awakes My Heart" (Saint-Saens), (b) "A Summer Night" (Goring Thomas).

8.22: Novelty—Grinning Schrammel Trio, (a) "Swiss Children" (Chlumski), (b) "At the Worthier Lake" (Koschat).

8.30: Humour—Miss Rhona Speed, "Yes, Papa" (Hahn).

8.34: Cornet with orchestra—Mr. Reg. Davies, "Arbucklenian" (Hartmann).

8.40: Soprano—Miss Gwenda Weir, from Song Cycle of Fairy Fantasies, "Moon Magic" (Arundale): (a) "Up in the Sky," (b) "My Fairy Godmother," (c) "Almond Blossoms."

8.47: Selection—Orpheus Club Orchestra, "The Belle of New York" (Kerker).

8.57: Vocal—Mrs. L. E. Lambert and Mr. Frank Sutherland, "Break, Diviner Light" (Allitsen).

9.1 : Evening weather forecast and announcements.

9.3 : Male choir—Singing Teachers' Society, Newkolln, "Melody of Night in the Woods" (Schubert).

- 9.11: Characteristic piece—The Orpheus Musical Club Orchestra, "Parade of the Wooden Soldiers" (Jessel).
 9.17: Soprano—Miss Gwenda Weir, "Nightfall at Sea" (Montague Phillips).
 9.21: Piccolo and clarinet—Messrs. W. Henderson and P. W. Eastoe, "The Two Bullfinches" (Kling).
 9.27: Male quartet—Abel's Quartet, (a) "Kannst du Mir Verzeihn," (b) "Das Lied das von Wunder Bar" (Katscher).
 9.33: Humour—Miss Rhona Speed, "The Butcher of the Future" (Thomas).
 9.39: Saxophone—Rene Dumont with band, "Nola" (Arndt).
 9.42: Baritone and orchestra—Mr. Frank Sutherland, (a) "A Border Ballad" (Cowen), (b) "The Wheeltapper's Song" (Charles).
 9.50: Violin—Florizel von Reuter, (a) "La Campanella" (Paganini-Reuter), (b) "Jota Navarra" (Sarasate).
 9.58: March—The Orpheus Musical Club Orchestra, "Old Comrades" (Teike).
 10.2: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, APRIL 30.

- 3.0: Chimes. Selected gramophone recordings.
 3.15: Lecturette—Miss I. F. Meadows, "How Listeners and the Home Service Extension Department can help each other." Talk arranged by the Home Science Extension Department of Otago University.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by "Uncle George" and "Big Brother Jack."
 6.0: Dinner music session:
 Metropolitan Symphony Orchestra, "Lilac Time" Selection.
 Russian Imperial Trio, "Because" (D'Hardelot).
 Bidgood's Dance Band, "Popular Musical Comedy Waltz Medley."
 Salon Orchestra, "Italian Nights" (Roberts).
 Symphony Orchestra, "Morris Dance" from "Henry VIII." (German).
 Orchestra with organ, "Demande et Reponse" (Coleridge Taylor).
 Symphony Orchestra, "Shepherd's Dance" from "Henry VIII."
 Orchestra with organ, "Portia" Intermezzo from "The Merchant of Venice" (Rosse).
 Harry Jacobs and His Palais Orchestra, "The Earl and the Girl" Selection (Caryll).
 Salon Orchestra, "The Enchanted Lake" (Tschalkowsky).
 Russian Imperial Trio, "Liebeslied" (Kreisler).
 Stoll Theatre Orchestra, "The Grasshoppers' Dance" (Bucalossi).
 Stoll Picture Theatre Organ, "Sizilietta" (Von Blon).
 Band of H.M. Life Guards, "Ruy Blas" Overture (Mendelssohn).
 Stoll Theatre Orchestra, "The Phantom Brigade" (Myddleton).
 Bidgood's Dance Band, "Popular Classical Waltz Medley."
 7.0: News session, market reports and sports results.
 8.0: Chimes. Studio concert by the Band of the Wellington Division, Royal Naval Volunteer Reserve (Conductor, Mr. Harry Baker) and 2YA artists. March—Band, "The Flying Squad" (Ord Hume). Selection, "Hamlet" (Thomas).
 8.20: Baritone—Mr. Will Goudie, "It's a Beautiful Day" (Bennett).
 Vocal—The Lyric Quartet, "Jenk's Vegetable Compound" (Traey).
 8.26: March—Band, "National Emblem" (Bagley).
 8.34: Contralto—Miss Evelyn Robinson, (a) "O Lovely Night" (Ronald), (b) "Rose in the Bud" (Foster).
 8.40: Selection—Band, "La Favorita" (Donizetti).
 8.53: Vocal—The Lyric Quartet, "Boot and Saddle" (Bantock).
 Tenor—Mr. W. Roy Hill, (a) "The Maiden's Blush," (b) "To Daisies" (from "To Julia"—Quilter).
 9.0: Weather report and station announcements.
 9.2: March—Band, "The Evertonian" (Greenwood).
 9.9: Contralto—Miss Evelyn Robinson, (a) "Love's Old Sweet Song" (Molloy), (b) "No, Sir" (Wakefield).
 9.12: Selection—Band, "Mendelssohn's Works" (Rimmer).
 9.27: Vocal trio—The Lyrics, "Maiden Fair, O Deign to Tell" (Haydn).
 9.30: Ilja Livschakoff Orchestra, (a) "Curly" Intermezzo (Powell), (b) "In the Bar of the Gnomes" (Rosen).
 9.36: Bass—Mr. W. Binet Brown, "On the Road to Mandalay" (Speaks).
 9.40: Waltz—Band, "Queen of Jewels" (Browne).
 9.48: Vocal—The Lyric Quartet, "Moving Along" (Zamecnik).
 9.52: March—Band, "Brigade of Guards" (Hawkins).
 10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, APRIL 30.

- 3.0: Gramophone recital.
 3.15: Lecturette—"How Listeners and the Home Science Extension Service Can Help Each Other." Arranged by the Home Science Extension Service, Otago University.
 4.25: Sports results.
 5.0: Children's hour, conducted by "Uncle Frank and Ladybird."
 6.0: Dinner music session.
 International Novelty Orchestra, "Emperor" (Strauss).
 Organ—Sydney Gustard, "Poupee Valsante" (Poldini).
 International Novelty Orchestra, "Gold and Silver" (Franz Lehar).
 Paul Godwin's Orchestra, "The Modest Suzanne" (Gilbert).
 The Palladium Orchestra, "The Grasshoppers' Dance" (Bucalossi).
 Band of H.M. Coldstream Guards, "Morning, Noon and Night."
 The Rhythmic Eight, "Neapolitan Nights" (Zamecnik).
 The Palladium Orchestra, "La Siesta."
 Zonophone Salon Orchestra, "Love's Garden of Roses."
 Organ—Sydney Gustard, "Un Peu D'Amour" (Silesu).

- Zonophone Salon Orchestra, "Mighty Lak a Rose" (Nevin).
 Marek Weber and His Orchestra, "Faust" Selection.
 Band of H.M. Coldstream Guards, "Pique Dame" Overture.

- 7.0: News session.
 7.30: Talk—Mr. F. Clayton (Dairying Division, Department of Agriculture) "Some Features of the Dairying Industry in Canterbury."
 8.0: Chimes.
 March—Military Band, "The Guards' Patrol" (Williams).
 8.4: Vocal Excerpts from "Carmen."
 Contralto—Miss Alice Vinsen, Aria "Ayanera" (from "Carmen").
 Soprano and Tenor—Grand Opera Duo, "Speak To Me of My Mother."
 Instrumental—Studio Octet (Conductor Harold Beck), (a) "Hero's March" (Mendelssohn); (b) "Don Giovanni" Overture (Mozart).
 8.20: Vocal Excerpts from "Carmen" (Continued).
 Bass—Mr. J. Filer, "Toreador's Song" (from "Carmen") (Bizet).
 Tenor—Mr. Ernest Rogers, Aria (Don Jose), "The Flower" (Bizet).
 Soprano—Madame Gower Burns, "Yes, This is the Haunt" (Bizet).
 8.32: Violin with orchestra—Professor R. C. Zimmerman and Studio Octet, (a) "Poem" (Fibich); (b) "Serenade" (Ambrosio).
 8.39: Vocal—Grand Opera Quartet, "Remembrance" (Mendelssohn).
 Bass—Mr. J. Filer, "If Doughty Deeds" (Sullivan).
 8.45: Instrumental—Studio Octet, (a) "Cuban Dance" (Cervantes); (b) "Minuet" from "The Oxford Symphony" (Haydn); (c) "Gavotte."
 8.56: Contralto—Miss Alice Vinsen, "Summer Rain" (Willeby).
 Tenor—Mr. Ernest Rogers, "A Dream" (Bartlett).
 9.3: Weather forecast and station notices.
 9.5: Violin with orchestra—Professor R. C. Zimmerman, Concerto (Mendelssohn), (a) "Andante"; (b) "Allegretto Non-Troppo"; (c) "Allegro Molto Vivace."
 9.17: Soprano and Baritone—Grand Opera Duo, "Maritana and Don Jose" (Wallace), "Of Fairy Wand" (from "Maritana").
 Vocal—Grand Opera Quartet, "Home Sweet Home" (Bishop).
 9.24: Instrumental—Studio Octet, "Suite—Music Pictures" (Foulds).
 9.36: Dance music.
 Foxtrots—Tom Gerun and His Orchestra, "What Good Am I Without You" (Ager).
 Ben Bernie and His Orchestra, "He's Not Worth Your Tears" (Dixon).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "It Must Be True" (Arnheim).
 Ben Bernie and His Orchestra, "The Wind in the Willows."
 9.48: Waltz—Regent Club Orchestra, "It Is Destiny" (Grey).
 Foxtrots—Hal Kemp and His Orchestra, "Them There Eyes."
 Harry Reser and The Six Jumping Jacks, "The Wedding in the Ark" (Wallace).
 9.57: Vocal—North and South, "Barrackly Bert the Soldier" (Clifford).
 10.0: Foxtrots—Ben Bernie and His Orchestra, "Can't You See I'm Lonely."
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "The Little Things in Life" (Berlin).
 Hal Kemp and His Orchestra, "Hurt" (Plantadosi).
 10.9: Tangos—Juan Llossas Orchestra, "Tavern Tango" (Mario Sarrocchi).
 "On Far Away Highroads" (Filiberto).
 10.15: Vocal—Chester Gaylord, "You're Lucky To Me" (Razaf).
 10.18: Foxtrots—Tom Gerun and His Orchestra, "Nine Little Miles From Ten Tennessee" (Sherman).
 Isham Jones' Orchestra, "Lonesome Lover" (Bryan).
 Emil Coleman and His Orchestra, "Overnight" (Rose).
 10.27: Waltzes—Bob Haring and His Orchestra, "Chimes of Spring" (Gilbert).
 Joe Green and His Orchestra, "My Missouri Home" (Little).
 10.33: Foxtrots—Ben Bernie and His Orchestra, "Just a Gigolo" (Casucci).
 "Everything But Love" (Kahn).
 Ben Bernie and His Orchestra, "The River and Me."
 10.42: Vocal—North and South, "Sittin' on a Five Barred Gate."
 10.45: Foxtrots—Emil Coleman and His Orchestra, "I Love Love" (O'Keefe).
 Abe Lyman and His California Orchestra, "Us and Company" (Nelson).
 Tangos—Juan Llossas Orchestra, "Majanah" (Llossas); "Carnations."
 10.57: Foxtrots—Tom Gerun and His Orchestra, "Come a Little Closer."
 Abe Lyman and His California Orchestra, "As Long as We're Together" (Bard).
 Tom Gerun and His Orchestra, "You're The One I Care For" (Link).
 11.6: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, APRIL 30.

SILENT DAY.

Friday, May 1

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, MAY 1.

- 3.0: Selected recordings.
 3.15: Literary selection.
 5.0: Children's session, conducted by "Nod" and "Aunt Jean."
 6.0: Dinner music session.
 Berlin State Opera House Orchestra, "Cosi Fan Tutte" Overture.
 Edm Schachmeister's Dance Orchestra, "Second Waltz Medley."

- Symphony Orchestra, "Frasquita" Medley (Lehar).
 Paul Godwin's Orchestra, "First Love" (Michiels).
 Symphony Orchestra, "The Last Waltz" Medley (Oscar Straus).
 Paul Godwin's Orchestra, "Cinderella's Bridal Procession" (Dickel).
 Symphony Orchestra, "Eva" Medley (Lehar); "The Forester's Daughter" Medley (Jarno).
 Paul Godwin's Orchestra, "Lake of Como" (Galos); "Throbbing Heart."
7.0 : News and market reports.
8.0 : Chimes. Overture—Paul Godwin's Orchestra, "Eugén Onegin."
8.9 : Bass—Mr. Duncan Black, "Out on the Deep" (Lohr).
 Vocal—Miss Lillian Woods and Mr. Duncan Black, "Nocturne."
 Soprano—Miss Lillian Woods, (a) "Gather Ye Rosebuds" (Sanderson);
 (b) "I Know a Lovely Garden" (d'Hardelot).
8.19 : March—Orchestral Octet, under the direction of Mr. Harold Baxter, "Washington Greys" (Grafula); Orchestral, "Hungarian Dance, No. 2" (Brahms); Waltz, "Alluring Glances" (Rofle).
8.28 : Entertainer—Mister Ree, "Radio Magic."
8.43 : Guitar—Segis Luvann, (a) "Moonbeam Dreams," (b) "Lysistrata."
8.49 : Contralto—Miss Beryl Smith, "Sacrament" (MacDermid).
 Vocal—The New Clarion Quartet, "Crossing the Bar" (Parks).
8.55 : Morceaux—Orchestral Octet, (a) "Melodie Arabe" (Glazounov); (b) "The Village Dance" (Burleigh).
9.2 : Evening weather forecast and announcements.
9.4 : Cello—Edmund Kurtz, (a) "Prelude in D Minor" (Werkmeister); (b) "Valse Caprice" (Werkmeister).
9.12 : Vocal—The New Clarion Quartet, "Medley of Old-time Songs."
9.16 : Suite—Orchestral Octet, "The Pagoda of Flowers" (Woodforde-Finden); (a) Introduction, (b) Midst the Petals, (c) The Star Flower Tree, (d) Blue Lotus Dance, (e) The Return of Oomala.
9.31 : Tenor—Mr. Lambert Harvey, "My Dearest Heart" (Sullivan).
 Vocal—Miss Beryl Smith and Mr. Duncan Black, "My Thoughts are Swallows" (Lambert).
9.37 : Suite—Orchestral Octet, (a) "Pastorale," (b) "Intermezzo" (Bizet).
9.43 : Humour—Amos and Andy, "Is Everyone in Your Family Dumb?"
9.49 : Vocal—The New Clarion Quartet, (a) "I Miss Her" (Parks); (b) "Tired" (Parks).
9.53 : Selection—Orchestral Octet, "H.M.S. Pinafore" (Sullivan).
10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, MAY 1.

- 3.0** : Chimes. Selected gramophone recordings.
3.30 and **4.30** : Sporting results to hand.
5.0 : Children's session, conducted by "Uncle Jim" and the "Story Book Lady."
6.0 : Dinner music session.
 Dajos Bela Orchestra, "Gypsy Love" (Lehar).
 Edith Lorand Orchestra, "La Boheme" (Puccini).
 New Light Symphony Orchestra, "The Waltzing Doll" (Poldini).
 Dajos Bela Orchestra, "Mon Reve" (Waldteufel).
 Organ duet—Mr. and Mrs. Jesse Crawford, "The Moonlight Reminds Me of You" (Kahn).
 Dajos Bela Orchestra, "I Love You" (Waldteufel).
 National Symphony Orchestra, "The Barber of Seville" (Rossini).
 Dajos Bela Orchestra, "You and You" (Strauss).
 Mandoline Concert Society, "Echoes of the Volga" (Ritter).
 New Light Symphony Orchestra, "At Dawning" (Cadman).
 Band of H.M. Coldstream Guards, "Les Cloches de Corneville" Selection.
 Dajos Bela Orchestra, "Vienna Bon Bons" (Strauss).
7.0 : News session, market reports and sports results.
8.0 : Chimes. Overture—2YA Orchestra (Conductor, A. P. Truda), "Neil Gwynn" (German).
8.15 : Baritone—Mr. George Neel, (a) "Brian of Glenaar" (Graham); (b) "The Little Old Garden" (Huirtt).
8.21 : Novelty piano—Mr. Allan Shand, (a) "Body and Soul" (arr. Mayerl); (b) "Sunny Side of the Street" (McHugh).
8.26 : Tenor—Mr. Denis Sheard, with orchestral accompaniment, (a) "Eileen Allannah" (Thomas); (b) "Where the River Shannon Flows."
8.34 : Elocution—Mr. Clement May, Excerpts from "The Sentimental Bloke" (Dennis); (a) "The Spring Song," (b) "The Intro," (c) "The Stouch o' Day," (d) "Doreen."
8.48 : Selection—2YA Orchestra, "Bohemian Girl" (Balfe).
9.0 : Weather report and station notices.
9.2 : Baritone—Mr. George Neel, (a) "Birth of Morn" (Leoni); (b) "Trees."
9.6 : Novelty piano—Mr. Allan Shand, (a) "What's the Use?" (Wendling); (b) "Moonbeams Dance" (Gibbons).
9.12 : Tenor—Mr. Denis Sheard, with orchestral accompaniment, (a) "When My Ships Come Sailing Home" (Dorel); (b) "When Irish Eyes are Smiling" (Ball).
9.18 : Foxtrot—2YA Orchestra, "Here in My Arms" (Rodgers); Fantasia, "Faust Frivolities" (arr. Black).
9.30 : Dance programme.
 Foxtrots—Ben Bernie and His Orchestra, "To Whom It May Concern."
 Ozzie Nelson and His Orchestra, "Fall in Love with Me."
 Ben Bernie and His Orchestra, "Crying Myself to Sleep."
9.39 : Waltz—Pavilion Lescat Orchestra, "Listening to the Violin."
 Foxtrots—Jacques Renard and His Orchestra, "Under the Spell of Your Kiss" (Jasmyn).
 Bud Blue and His Orchestra, "Someone Sang a Sweeter Song to Mary" (Shand).
9.48 : Vocal—Chester Gaylord, "Would You Like to Take a Walk?" (Dixon).

- 9.51** : Foxtrots—Loring "Red" Nichols and His Orchestra, "Blue Again."
 Jacques Renard and His Orchestra, "We're Friends Again."
 Bud Blue and His Orchestra, "I'll be Blue Just Thinking of You" (Wendling).
10.0 : Tangos—Juan Llossas Orchestra, "One Look Into Your Eyes" (Gynla).
 Marimba Original Excelsior de Guatemala, "Padre Nuestro."
 Waltz—Regent Club Orchestra, "For You" (Dublin).
10.9 : Vocal—Chester Gaylord, "It Must Be True" (Arnheim).
10.12 : Foxtrots—Ozzie Nelson and His Orchestra, "Truly" (Hirsch).
 Jacques Renard and His Orchestra, "He's My Secret Passion" (Valentine).
 Waltzes—Nick Lucas and His Crooning Troubadours, "Say 'Hello' to the Folks Back Home" (Davis).
 Regent Club Orchestra, "Don't Forget Me in Your Dreams."
10.24 : Two-steps—Juan Llossas Orchestra, "My Spain" (Marquina).
 Marimba Original Excelsior de Guatemala, "Joselillo."
 Juan Llossas Orchestra, "Andalusian National Character."
10.33 : Vocal—Chester Gaylord, "Cheerful Little Earful" (Gershwin).
10.36 : Foxtrots—Nick Lucas and His Crooning Troubadours, "Lady, Play Your Mandolin" (Caesar).
 Loring "Red" Nichols and His Orchestra, "When Kentucky Bids the World 'Good Morning'" (Leslie).
 Jacques Renard and His Orchestra, "Little Spanish Dancer."
10.45 : Tangos—Juan Llossas Orchestra, "Pretty Gigolo" (Casucci).
 Marimba Original Excelsior de Guatemala, "Fumando Espero" (Villadomat).
10.51 : Foxtrots—Emil Coleman and His Orchestra, "I'm Getting Myself Ready for You" (Cole Porter).
 Pavilion Lescat Orchestra, "The Dancing Tailor."
 Stellar Dance Band, "Strolling Thro' the Tulips" (O'Hagan).
11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, MAY 1.

- 3.0** : Afternoon session.
4.25 : Sports results.
5.0 : Children's hour, conducted by "Chuckie."
6.9 : Dinner music session.
 Royal Opera Orchestra, "Carmen" Entr'Acte Act 4 and Ballet No. 1.
 Piccadilly Orchestra, "Chanson De Matin" (Elgar).
 National Symphony Orchestra, "Light Cavalry" Overture (Suppe).
 Royal Opera Orchestra, "Carmen" Ballet No. 2 (Bizet).
 Piccadilly Orchestra, "Souvenir Di Capri" (Becca).
 Philadelphia Symphony Orchestra, "Invitation to the Waltz" (Weber).
 New Symphony Orchestra, "Pastoral Dance" (from "Neil Gwynn").
 London Symphony Orchestra, "Chanson De Nuit" (Elgar).
 Berlin State Opera Orchestra, "The Beautiful Galathea" Overture.
 New Symphony Orchestra, "Country Dance" (from "Neil Gwynn").
 Berlin Philharmonic Orchestra, "Beatrice and Benedict" (Berlioz).
7.0 : News session.
8.0 : Chimes.
 Overture—Marek Weber and His Orchestra, "The Beggar Student."
8.8 : Bass—Mr. R. S. H. Buchanan, (a) "By the Light of the Moon" (Loughborough), (b) "Drummer Boy" (Eden).
8.14 : Saxophone and piano improvised accompaniments—The Melody Makers, "Serenata" (Toselli).
8.17 : Play Extract—"The Cottage Scene" from "The Lady of Lyons" (Lord Lytton). Characters: Widow Melnotte: Miss Daisy Armstrong. Pauline Deschappelles (The Lady of Lyons); Miss Naare Hooper. Claude Melnotte (a gardener's son); Mr. H. L. Shaw.
8.37 : Instrumental—Studio Trio, (a) "Petit Bolero" (Ravina); (b) "Simple Aveu" (Thome); (c) "Spanish Dance No. 4" (Moszkowski).
8.47 : Contralto—Mrs. Nelson Kerr, (a) "The Carpet" (Sanderson); (b) "The Splendour Falls" (Walthew); (c) "Don't Hurry."
8.53 : Piano—Miss Aileen Warren, (a) "Arabesque" (Chaminade); (b) "Lulla-Lo" (Barron).
9.0 : Weather forecast and station notices.
9.3 : Bass—Mr. R. S. H. Buchanan, "The Watchman" (Squire).
9.7 : Saxophone and piano medley—The Melody Makers, "King of Jazz" Medley (arrgd. Goodland).
9.17 : Contralto—Mrs. Nelson Kerr, (a) "Slumber Dear Maid" (Handel); (b) "Elegie" (with cello obligato by Mr. Harold Beck).
9.22 : Instrumental—Studio Trio, (a) "Marche Militaire" (Schubert); (b) "Tarantelle" (Trouselle).
9.30 : Mr. Karl Atkinson will present a gramophone lecture-recital, entitled: "The Lure of the Waltz."
10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, MAY 1.

- 3.0** : Selected recordings.
5.0 : Children's hour, conducted by "Aunt Sheila."
6.9 : Dinner music session.
 New Light Symphony Orchestra, "Merry Wives of Windsor."
 Marek Weber's Orchestra, "Moonlight on the Alster" (Fetras).
 Cedric Sharpe Sextet, "Chanson Napolitaine" (D'Ambrosio).
 New Light Symphony Orchestra, "Hearts and Flowers" (Tobani).
 Marek Weber's Orchestra, "Wine, Women and Song" (Weber).
 Reginald Foort, "By the Blue Hawaiian Waters" (Kettelbey).
 Cedric Sharpe Sextet, "O Lovely Night" (Ronald).
 New Light Symphony Orchestra, "The Glow Worm Idyl" (Lange).

Victor Salon Orchestra, "Indian Love Call" (from "Rose Marie") (Friml); "The World is Waiting for the Sunrise" (Lockhart).
De Groot and His Orchestra, "When Summer is Gone" (Harrison-Wilbite); "The Merry Widow" (Lehar).
Organ solos—Reginald Foort, (a) "Leave Me Alone"; (b) "Songs My Mother Taught Me" (Dvorak).
Vienna Schrammel Quartet, "Roguish Eyes" (Uschmann).

- 7.0 : News session.
7.40 : Talk—Mr. R. W. Coupland, "Tourist Resorts."
8.0 : Chimes. Overture—Classic Symphony Orchestra, "Pagliacci" Selection (Leoncavallo, arrgd. Godfrey).
8.9 : Duet—Mr. J. Montague and Miss Vallis, "Home to Our Mountains." Mezzo-soprano—Miss Vallis, "Three Fishers" (Hullah).
8.18 : Overture—Salon Orchestra, "A May Day" (Wood); Interlude, "A Derivish Chorus" (Sebek).
8.31 : Tenor—Mr. J. Montague, "Mother Machree" (Ball).
8.35 : Harmonica Selection—Mr. E. Murphy, "Popular Marches" (Anon.).
8.40 : Selection—Salon Orchestra, "Rio Rita" (Tierney).
8.51 : Mezzo-contralto—Miss M. Kenward, (a) "Fisher Lad" (Day); (b) "Hine, E Hine" (Te Rangī Pāi).
8.57 : Accordion—Medard Ferrero, (a) "Torrent" (Capitani); (b) "A Rare Bird" (Demarie).
9.3 : Weather report and station notices.
9.5 : Descriptive Novelty—Francis Russell and Stuart Hibberd, "The Death of Nelson" (Braham, arrg. Batten).
9.14 : Tenor—Mr. J. Montague, "My Pretty Jane" (Bishop). Duet—Miss Vallis and Mr. J. Montague, "In the Garden of My Heart." Mezzo-soprano—Miss Vallis, "My Curly-Headed Baby" (Clutsam).
9.23 : Selection—Salon Orchestra, (a) "Plymouth Hoe" (Ansell); (b) "Minuet Pompadour" (Wachs).
9.36 : Scots Humour—Mr. B. Brown, (a) "The Lass o' Killiecrankie"; (b) "Ta, Ta, Ma Bonnie Magic Darling"; (c) "The Boss o' the Hoose" (Lauder).
9.46 : Harmonica—Mr. E. Murphy, "Popular Melodies" (Anon.).
9.56 : Mezzo-contralto—Miss M. Kenward, "Home, Little Maori Home."
9.59 : Selection—Salon Orchestra, "America" (Winterbottom).
10.9 : God save the King.

Saturday, May 2

IYA, AUCKLAND (900 KILOCYCLES)—SATURDAY, MAY 2.

- 3.0 : Selected recordings.
3.15 : Literary selection.
5.0 : Children's session, conducted by "Ciuderella."
6.0 : Dinner music session.
The London Orchestra, "Valse Memories" (arrgd. Somers).
Organ—Jesse Crawford, "La Borrachita" (Fernandez Esperon).
Symphony Orchestra, "L'Amour Sorcier" (De Falla).
Piccadilly Orchestra, "The Waltz Dream" (Strauss).
Marimba Band, "Morales Lopez" (Bolanos).
Royal Opera Orchestra, "Prelude 'The Huntress'" from "Sylvia Ballet" (Delibes).
Band of H.M. Coldstream Guards, "The Geisha" (Jones).
Marek Weber and His Orchestra, "Menuet No. 1" (Paderewski).
Organ—Jesse Crawford, "I Loved You Then As I Love You Now."
Salon Orchestra, "Aloha Sunset Land" (Kawelo).
Symphony Orchestra, "La Vida Breve" (De Falla).
Marek Weber's Orchestra, "Coeur Brise" (Gillet).
Salon Orchestra, "Chanson Boheme" (Boldi).
Marimba Band, "Aguas Dormidas" (Bolanos).
The Light Opera Orchestra, "The Mikado" Overture (Sullivan).
10 : News and market reports.
8.0 : Chimes. Relay of Municipal Band Concert from the Auckland Town Hall, under the conductorship of Mr. George Buckley.
10.0 : Programme of dance music from the studio.
Foxtrots—Marimba Original Excelsior de Guatemala, "El Anganado." Ben Berlin Dance Orchestra, "There's Only a Room For One Love." Paul Godwin Dance Orchestra, "I'm Longing For Something."
10.9 : Waltz—Ilja Livschakoff Dance Orchestra, "Mother Needn't Know." Foxtrots—Ben Berlin Dance Orchestra, "If I's and Ands Were Pots and Pans" (Stolz).
Ilja Livschakoff and His Dance Orchestra, "The Brave Little Tailor" (May).
10.18 : Vocal—Clem Williams, "Old Fashioned Girl" (De Sylva).
10.21 : Tangos—Ilja Livschakoff and His Dance Orchestra, "Your Lips Were Mine in My Dreams" (Marbot).
Ben Berlin Dance Orchestra, "What's the Time?" (May).
Paul Godwin Dance Orchestra, "Pinky, My Best Friend Is You" (Ortuso).
10.30 : Waltz—Paul Godwin Dance Orchestra, "That's You" (Molto). Foxtrots—"Mother Goose Parade" (Breau).
Ilja Livschakoff Dance Orchestra, "I Would I Could Be Your Lover" (Dostal).
10.39 : Vocal—Clem Williams and Des Tooley, "You Are The Melody."
10.42 : Tangos—Ilja Livschakoff and His Dance Orchestra, "My Heart Is At Your Feet" (Schmidt).
Paul Godwin Dance Orchestra, "Don't Leave Me" (Hollander); "Parting" (Blech).
10.51 : Foxtrots—Ilja Livschakoff Dance Orchestra, "Don't Fear the First Kiss" (Stolz).

Paul Godwin Dance Orchestra, "Dancing Puppets" (Rust).
Marimba Original Excelsior de Guatemala, "Aguilas Mexicanas" (Jose Escobar).

11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, MAY 2.

- 3.0 : Chimes. Selected gramophone recordings.
3.30 and 4.30 : Sporting results to hand.
5.0 : Children's session, conducted by "Aunt Molly."
6.0 : Dinner music session.
Scala Concert Orchestra, "The Merry Widow Waltz" (Lehar).
Edith Lorand Orchestra, "Norma" Fantasia (Bellini).
Piccadilly Salon Orchestra, "Serenade Espagnole" (Glazounov).
Polydor String Orchestra, "Offenbachiana" (Conradi-Daebnitz).
The Scala Trio, "Moment Musical" (Schubert).
Scala Concert Orchestra, "A Waltz Dream" (Strauss).
Symphony Orchestra, "La Tosca" Selection (Puccini).
Piccadilly Salon Orchestra, "Les Millions d'Arlequin" (Drigo).
Edison Bell Symphony Orchestra, "Gold and Silver" (Lehar).
Jack Padbury's Cosmo Club Six, "Enchantment" Tango.
Band of H.M. Life Guards, "The Arcadians" (Monckton).
The Scala Trio, "Le Cygne" (Saint-Saens).
The Six Nite Lights, "Love's Old Sweet Song" (Molloy).
7.0 : News session, market reports and sports results.
7.40 : Lecture—Mr. J. R. Elliott, B.A., and Dr. I. A. Henning, Lecturers Victoria University College—A W.E.A. Lecture, "Two Australians Discuss the State of Their Country."
8.0 : Chimes. Relay of the Wellington Symphony Orchestra Concert from the Town Hall, Wellington.
The Orchestra, (a) "Marche Hongroise" (Berlioz); (b) "Symphony No. 3 in F" (Brahms).
Mr. Claude Tanner, "Concerto for Violoncello in A Minor."
9.0 : (approx.) : Weather report and station announcements.
Chorus—Columbia Light Opera Company, "Hermann Lohr" Vocal Gems (Lohr).
The Orchestra, "Incidental Music to Othello" (Coleridge-Taylor).
Contralto—Miss Hilda Chudley, (a) "The Soldier's Wife," (b) "Spring Waters" (Rachmaninoff).
The Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov).
10.0 : (approx.) : Dance programme.
Foxtrots—Paul Godwin Dance Orchestra, "Dance of the Raindrops." Ilja Livschakoff Dance Orchestra, "The Song of My Wife." Paul Godwin's Jazz Symphonians, "You are the Sweetest Girl in the World" (Heymann-Liebmann).
10.9 : Waltz—Ilja Livschakoff and His Dance Orchestra, "Beautiful Lady in the Moon" (Wiga-Robinson).
Foxtrots—Ben Berlin Dance Orchestra, "Kiss Me and then Forget." Paul Godwin Dance Orchestra, "Hokus Pokus" (German).
10.18 : Vocal—Sidney Burchall, "Bye and Bye" (Richard Rodgers).
10.21 : Tangos—Ilja Livschakoff Dance Orchestra, "A Little Love Longing." Jose M. Lucchesi and His South American Orchestra, "Pesares" (Lucchesi).
Juan Llossas Original Argentine Tango Band, "Warum Charmante Frau" (Bauer).
10.30 : Waltz—Paul Godwin's Jazz Symphonians, "Love Waltz" (Heymann). Foxtrots—Ilja Livschakoff Dance Orchestra, "Perfidious Luck" (Mackeben); "I am Fondly Attached to You" (May); "Would You Give Me the Happiness of One Sweet Hour?"
10.42 : Vocal—Sidney Burchall, "Here in My Arms" (Richard Rodgers).
10.45 : Tangos—Ben Berlin Dance Orchestra, "I Love You" (Schmidt). Ilja Livschakoff Dance Orchestra, "Come Down, Rosie." Juan Llossas Original Argentine Tango Band, "Astoria."
10.54 : Foxtrots—Ilja Livschakoff and His Dance Orchestra, "There's Nothing Like Love" (Guttman); "Troika Drive in the Moon shine" (arr. Benedict).
11.0 : Sporting summary.
11.10 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, MAY 2.

- 3.0 : Gramophone recital.
4.25 : Sports results.
5.0 : Children's hour.
6.0 : Dinner music session.
March—National Military Band, "National Emblem" (Bagley).
Cello—W. H. Squire, "The Broken Melody" (Van Biene).
Albert Sandler's Orchestra, "I Kiss Your Hand, Madame" (Erwin).
Organ—G. T. Pattman, "Cherie" Waltz (Valentine).
New Mayfair Orchestra, "Follow Through" (De Sylva).
Court Symphony Orchestra, "The Gondoliers" (Sullivan).
Paul Whiteman's Orchestra, "Gipsy" (Gilbert).
Albert Sandler's Orchestra, "Chalita" (Schertzing).
Padilla's Marimba Serenaders, "Paree" (Padilla).
Piano—Gil Dech, "Sometimes I'm Happy" (Youmans).
Royal Serbian Tambouritzza Orchestra, "Serbian Melody." Ketelbey's Orchestra, "Bells Across the Meadow" (Ketelbey).
Rio Marimba Serenaders, "Dolores" Waltz (Waldfenfel).
Organ—G. T. Pattman, "Worryin'" Waltz (Fairman).
March—National Military Band, "Stars and Stripes" (Souza).
7.0 : News session.

- 7.30: Sports results.
 8.0: Chimes. Overture—International Novelty Orchestra, "Carmen aylvia."
 8.5: Baritone—Mr. Leslie Stewart, (a) "Sing Along" (Penn), (b) "Little Mother" (Rapee).
 8.11: Improvisations on piano—Miss Edna Jarden, on the following melodies: "I'm Following You" (Dreyer and Macdonald); "When It's Spring-time in the Rockies" (Laner).
 8.17: Accordion solo—Medard Ferrero, "Monte Cristo" (Gabutti).
 8.24: Soprano—Mrs. C. E. McDowall, "All Alone" (Berlin).
 8.28: Mouth-organ—Mr. J. Woodham, (a) "Waiting for the Robert E. Lee," (b) "On the Mississippi" (arr. Woodham).
 8.33: Contralto—Miss Kathleen Bond, (a) "The Hills of Donegal" (Sanderson), (b) "Ma Curly-Headed Babby" (Clutsam).
 8.39: Humour—Mr. Harold Shaw, "Snorkins" (MS.).
 8.44: Cornet—Mr. R. Ohlson, "Come Back to Erin" (Hock).
 8.49: Tenor—Mr. David McGill, (a) "The Carnival" (Molloy), (b) "I Heard you Singing" (Coates).
 8.55: Male choir—Ural Cossacks, "Legend of Twelve Robbers" (traditional).
 8.58: Banjo—Mr. Arthur Hodgson, "La Serenata" (Braga).
 9.3: Weather and station notices.
 9.5: Paul Godwin Orchestra, "A Concert in the Forest" (Ellenberg).
 9.8: Baritone—Mr. Leslie Stewart, "Just a Cottage Small" (Harley).
 9.12: Piano improvisations—Miss Edna Jarden, on the following popular melodies: (a) "Should I?" (Brown), (b) "Souvenirs" (Nicholls).
 9.18: Soprano—Mrs. C. E. McDowall, (a) "With My Guitar and You" (Snyder), (b) "You're Always in My Arms" (Tierney) (from "Rio Rita").
 9.26: Mouth-organ—Mr. J. Woodham, (a) "Lay My Head Beneath a Rose," (b) "Where the River Shannon Flows" (MS.).
 9.31: Contralto—Miss Kathleen Bond, "The Glory of the Sea" (Sanderson).
 9.34: Balalaika Orchestra, Gorskaja, "The Red Sarafan" (traditional).
 9.37: Humour—Mr. Harold Shaw, "Guy de Vere Plays Football" (MS.).
 9.42: Cornet—Mr. H. Ohlson, "The Dream of Love" (Hock).
 9.47: Tenor—Mr. David McGill, (a) "Obstination" (De Fontenailles), (b) "The Heart of a Rose" (Nicholls).
 9.53: Banjo—Mr. Arthur Hodgson, (a) "That Old-Fashioned Mother of Mine" (Nicholls), (b) "Silver Threads Among the Gold" (Danks).
 9.58: Paul Godwin Orchestra, "The Nighthale and the Frog" (Ellenberg).
 10.1: Dance music.
 Foxtrots—Ilja Livschakoff Dance Orchestra, "And Swiftly the Days Pass By" (arr. Benedict); "The Gipsy Princess" (Kalman); "Munich Kiddy" (Stolz).
 10.9: Waltz—Ilja Livschakoff Dance Orchestra, "My Love Song Must Be a Waltz" (Stolz).
 Foxtrots—Paul Godwin Dance Orchestra, "Say That You Love Me." Ilja Livschakoff Dance Orchestra, "The Whole World is Sky-Blue" (Stolz).
 10.18: Vocal (Spanish)—Juan Llossas with His South American Orchestra, "La Cigarra" (Parades).
 10.21: Tangos—Ilja Livschakoff Dance Orchestra, "Don't Leave Me!" (arr. Benedict); "To-night I've Dreamt of You" (Kalman); "You Are My Morning and Night Prayer" (Krauss).
 10.30: Waltz—Paul Godwin Dance Orchestra, "Under the Roofs of Paris." Foxtrots—Paul Godwin Dance Orchestra, "Fair Little Daisy." Ilja Livschakoff Dance Orchestra, "Love and Wine Never Alone" (Krauss); "The Barrel Organ."
 10.42: Vocal (Spanish)—Juan Llossas, with His South American Orchestra, "Sonarese Abandonado" (Pares-Tarfe).
 10.45: Tangos—Ilja Livschakoff Dance Orchestra, "A Love-Letter" (arr. Michaeloff); "Just a Bit of Love" (Rosen); "And Once You Too Will Deceive Me" (Stolz).
 10.54: Foxtrots—Ilja Livschakoff Dance Orchestra, "You Are My Greta Garbo" (Stolz).
 Paul Godwin Dance Orchestra, "Mariner's Song" (Uher).
 11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, MAY 2.

- 3.0: Chimes. Selected recordings.
 5.0: Children's hour, conducted by "Aunt Anita."
 6.0: Dinner music session:
 Paul Godwin's Orchestra, "Through Weber's Enchanted Woods" (Ernst Urbach); "Mignon" Entr'acte Gavotte (Thomas); "Firefly's Idyl" (Lincke); "Dance of the Dervishes" (Bendix); "Third Waltz Medley" (Robrecht).
 Members of the State Opera Orchestra, Berlin, "Don Pasquale." Paul Godwin's Orchestra, "Suite Algerienne" (Saint-Saens).
 Symphony Orchestra, "Homage March" (Grieg).
 Vienna Schrammel Quartet, "Firefly's Appointment" (Ludwig Siede).
 Polydor Brass Band Orchestra, "Il Trovatore" (Verdi).
 Great Symphony Orchestra, "Paying a Visit to Millocker" (Morena).
 7.0: News session.
 8.0: Relay of vaudeville programme from Station 3YA, Christchurch.
 10.0: Dance music session:
 Foxtrots—Marimba Original Excelsior de Guatemala, "Hula Tropical." Ilja Livschakoff Dance Orchestra, "I Am So Happy." Paul Godwin Dance Orchestra, "Just Such a Girl."
 10.9: Waltz—Paul Godwin Dance Orchestra, "Pardon, Madame."
 10.12: Foxtrots—Marimba Original Excelsior de Guatemala, "Llorando." Paul Godwin Orchestra, "Victoria and Her Hussar" (Abraham); "The Broken Record" (Howak).

- 10.21: Vocal—Don and Ken, "Sunny Days" (Jason-Burton).
 10.24: Tangos—Ilja Livschakoff Dance Orchestra, "O Miss Daisy" (Llossas). Paul Godwin Dance Orchestra, "Poor Little Mannequin." Ilja Livschakoff Dance Orchestra, "Queen of Dreams."
 10.33: Waltzes—Paul Godwin Dance Orchestra, "Under the Roofs of Paris" (Moretti); "Good-night!" (Abraham).
 10.39: Vocal—Don and Ken, "Roamin' Thru' the Roses" (O'Flynn).
 10.42: Foxtrots—Ben Berlin and His Orchestra, "Fairly on the Clock." Paul Godwin Dance Orchestra, "Mickey Mouse" (Carlton). Ben Berlin and His Orchestra, "Clown Dolly" (Rust).
 10.51: Tangos—Ilja Livschakoff Dance Orchestra, "Don't You Want a Friend, Little Madam?" (Meisel). Paul Godwin Dance Orchestra, "Thus Spoke the Knowing Marabu" (Egen); "A Sweetheart as Sweet as You Are."
 11.0: God save the King.

Sunday, May 3

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MAY 3.

- 3.0: Relay of Interdenominational Youth Rally from the Auckland Town Hall. Speaker: His Excellency the Governor-General, Lord Bledisloe.
 6.0: Children's Song Service, conducted by "Uncle Bert."
 6.55: Relay of Divine Service from St. Matthew's Church. Preacher, Canon C. H. Grant Cowan. Organist and Choirmaster, Mr. J. H. Philippott.
 8.30 (approx.): Berlin State Opera Orchestra, "Christmas Concerto No. 8" (Arcangelo-Corelli); (1) Vivace, Grave, Allegro; (2) Adagio, Allegro, Adagio; (3) Vivace, Allegro; (4) Pastorale, Largo.
 Baritone—Mr. Morris T. Schroder, (a) "The Unknown Land" (Craske); (b) "The Perfect Prayer" (Day).
 Instrumental—Misses Margot St. L. Toner, Jean Allen and Marjorie Tiarks, "Trio Op. 11" (Beethoven).
 Evening weather forecast and announcements.
 State Opera Orchestra, Berlin, "Lohengrin Introduction Act 3."
 Soprano—Miss Gwladys Edwardes, (a) "You Lay so Still in the Sunshine" (Coleridge-Taylor); (b) "Thou Hast Bewitched Me, Beloved" (Coleridge-Taylor).
 Cello—Miss Marjorie Tiarks, "Romance" (Matys).
 Instrumental—Misses Margot St. L. Toner, Jean Allen and Marjorie Tiarks, "Andante" (Hurlstone).
 Baritone—Mr. Morris T. Schroder, (a) "Arise, O Sun" (Day); (b) "Vale" (Kennedy Russell).
 Piano—Ignace Hillsberg, (a) "Cravonienne Fantastique" (Paderewski); (b) "Aufschwung" (Schumann).
 Instrumental—Misses Margot St. L. Toner, Jean Allen and Marjorie Tiarks, "Trio" (Schumann).
 Soprano—Miss Gwladys Edwardes, (a) "The Rainbow Child" (Coleridge-Taylor); (b) "Thou Art Risen, My Beloved."
 Madrid Symphony Orchestra, "Noche de Arabia" (Arbos).
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MAY 3.

- 3.0 to 4.30: Afternoon session of selected gramophone recordings.
 6.0: Children's Song Service, conducted by "Uncle George," assisted by the Children's Choir from Upper Hutt Methodist Church, Upper Hutt.
 7.0: Relay of Evening Service from St. Gerard's Redemptorist Church, Hawker Street, Wellington.
 8.15 (approx.): Relay of Band Recital by the Royal Naval Volunteer Reserve Band from De Luxe Theatre (Conductor, Mr. Harry Baker).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MAY 3.

- 3.0: Gramophone recital.
 5.30: Children's song service.
 6.15: Chimes from studio.
 6.30: Relay of Evening Service from Durham Street Methodist Church. Preacher, Rev. Percy Knight. Organist, Mrs. McEachern.
 7.45: Musical recordings from studio.
 8.15 (approx.): Relay of 4YA, Dunedin, programme.
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, MAY 3.

- 6.0: Children's service.
 8.15: Studio concert.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
 THE MASTER VALVE

Australian Programmes

Times Corrected for N.Z.

Thursday, April 23.

STATION 2FC.—9.30 p.m.: Shakespeare anniversary programme. 11.47 p.m.: Dance music from the Hotel Australia.

2BL.—9.30 p.m. and 11.3 p.m.: "The Mellow Fellows," vocalists. 9.37 p.m. and 10.27 p.m.: Madama Evelyn Greig and Hilda Grace, pianists. 9.51 p.m. and 11.20 p.m.: "Cash and Carrie," entertainers. 9.59 p.m. and 10.50 p.m.: Josef Kaartinen, saxophonist. 10.13 p.m. and 11.13 p.m.: Harrison White, banjoist.

3LO.—9.15 p.m.: St. George's Day programme. 10 p.m.: Dance items interspersed with vaudeville numbers.

3AR.—9.45 p.m.: Programme of studio reproductions.

Friday, April 24.

STATION 2FC.—9.30 p.m. and 10.4 p.m.: "The Savoyans." 9.37 and 10.30 p.m.: Jack Lumsdaine, the "Radio Rascal." 9.47 p.m.: Clive Amadio, saxophonist. 9.54 p.m. and 10.37 p.m.: Fred Bluett, comedian. 10.45 p.m.: Relay from 3LO, Melbourne.

2BL.—9.30 p.m.: Concert programme arranged by the Musical Association of New South Wales. 10.30 p.m.: The A.B.C. Players present "Wolfe Goes West."

3LO.—9.30 p.m.: Relay of an Anzac concert in aid of the Lord Mayor's fund and the returned soldiers' unemployment fund.

3AR.—9.50 p.m.: Community singing, transmitted from the Central Hall, Geelong.

Saturday, April 25.

STATION 2FC.—9.30 p.m.: Concert programme from the Sydney Town Hall.

2BL.—9.30 p.m.: "Old Soldiers Never Die," a "Diggers" night. Every artist appearing on the programme is a returned soldier.

3LO.—9.30 p.m.: Relay of concert programme from 2FC, Sydney.

3AR.—9.30 p.m.: "From Tent to Peninsula," a series of episodes in the military careers of three Australians. 10.45 p.m.: "The Landing from a Naval Point of View." 11 p.m.: Syd Exton and his Digger accomplices present a "Bivvy" concert.

Sunday, April 26.

STATION 3LO.—9.30 p.m.: Concert by the Victorian Professional Orchestra. 10.30 p.m.: Interlude. "Stories of the Great Hymns," with illustrations by the "Sundowners' Quartet."

3AR.—10 p.m.: Programme arranged by Professor Bernard Heinze.

Monday, April 26.

STATION 3LO.—9.30 p.m.: Old-time musical items and choruses.

3AR.—10.17 p.m. and 11.16 p.m.: Alfred Docking, in novelty piano numbers. 10.24 p.m. and 11.10 p.m.: The Master Four Quartet. 10.40 p.m. and 11.30 p.m.: "Millie and Tillie" will entertain.

Tuesday, April 28.

STATION 3LO.—9.30 p.m.: An old-time music hall. 10.15 p.m.: "The Mutiny of the Bounty." 10.45 p.m.: A.B.C. Wireless Military Band.

Wednesday, April 29.

STATION 3LO.—9.30 p.m.: Relay from 2FC, Sydney, of a night of musical comedy, featuring "The Rebel Maid."

3AR.—10 p.m. and 10.30 p.m.: J. Clarke Scott, tenor. 10.12 p.m.: Jack and Jill, "Propriety Unlimited." 10.45 p.m.: Transmission from the Auditorium of the first Melbourne performance of Bach's "Christmas Oratorio," presented by the Victorian Postal Institute Choir and the Melbourne Symphony Orchestra.

Tannhauser

(Continued from page 1.)

came for Tannhauser, he created a ghastly surprise. Instead of acclaiming the Princess, he declared himself the slave of Venus. All mortal love was feeble and cold, he cried; only such as knew the rapture of celestial embraces should dare to speak of love.

Horrified and indignant, the knights drew their swords and rushed upon the recreant, who would have been hewn to pieces had not the Princess intervened. Perhaps Tannhauser's outburst may have been but a sudden impulse of madness, for he now consented to join a band of pilgrims, and set forth to expiate his sin at Rome.

During his absence, the Court of Thuringia passed mournful months awaiting the day when the pilgrims should return. Then at last, before the Blessed Virgin's shrine, we see the Princess craving forgiveness for her beloved, while faithful, unselfish Wolfram knelt at a modest distance imploring Heaven to grant a happy meeting to the pair. Suddenly, holy melodies were heard in the distance, and the returning pilgrims flowed down the mountain-path, but, alas! Tannhauser was missing in their train.

Stricken with grief, the royal maiden determined to forsake the world and dedicate herself to the Virgin's service. And at eventide, Wolfram, singing on the mountain-side, beheld a crouching figure, the unhappy Tannhauser, who told him all the rigours of his pilgrimage:

*When I beheld a heavy burthened pilgrim,
It seemed to me his load was all too light,*

*And if he sought a pathway o'er the meadow,
I trod, unshod, amid the rock and thorns*

When in the hospice he sought rest and shelter,

On ice and snow it was that I sought mine.

He also told, as in the old Germanic legend, how the Pope had declared absolution no less impossible than for his Crucifix to put forth leaves. But here the opera departs from the legend, for, when the Crucifix sprouted, the Pope's emissaries found Tannhauser here with Wolfram, just as he was about to answer the call of the Goddess and return to Venusberg.

And now, as a tragic climax, the unhappy man beheld the approach of Elizabeth's funeral, slowly descending the mountain-path amid mourning knights and weeping maidens. But their sorrow was turned into joy when they learned that Tannhauser had been absolved. The procession paused, and the erring knight sank in death beside the coffin of his spiritual bride, filled with holy raptures in his assurance of eternity with her in Paradise.

Locating Receiver Noises

(Continued from page 17.)

about 1800 kilocycles is tuned in on the receiver. Due to the valve's filament being unlighted, it will not amplify and you can adjust the neutralising capacity for that stage. A correct adjustment will be made when minimum signal is heard in the loudspeaker or when a minimum deflection is obtained on an output meter.

The balancing condensers are adjusted in the same manner. An insulated screwdriver or hexagon wrench is used in balancing these condensers depending on the type of receiver in question. If the oscillation is in the radio frequency stages, the following may be the cause:

I. Absence of a good earth on a receiver or imperfect earthing which in most cases increases the tendency to regeneration and oscillation. This applies to the main ground connection and other various parts of the circuit which are supposed to be earthed.

II. Too much gain or amplification will also cause excessive regeneration or oscillation, even though the set is neutralised. The better the shielding in a set, the more amplification we can get out of it and still have the set stable. But there is a definite limit to this amplification. Now if there are any conditions which tend to increase this amplification, feed back and oscillations will occur with resultant noise. One of the causes of this is excessive plate voltage, and in case of screen grid valves—excessive screen grid voltage.

III. One important object of shielding is to prevent coupling from one coil to another. Manufactured receivers are supposed to have satisfactory shielding. Trouble frequently arises

when the shields are not securely in place. Shields may not be properly earthed. The shielding should, therefore, be examined to make sure it makes perfect contact.

IV. Open by-pass condensers. Plate by-pass condensers are employed for the purpose of eliminating the coupling which is always present in the plate supply. If by-pass condensers of any sort become defective or short circuited, they are likely to cause noise.

By-pass condensers are connected across grid bias resistances. If these by-pass condensers are open, oscillation will result. Condensers suspected of producing noise should be thoroughly checked with a d.c. potential of from 200 to 500 volts. Connect the condenser across any d.c. potential lying between the above values and then short circuit its terminals. If not defective, a spark will be produced. This applies only to by-pass condensers having a capacity sources of noise:

A.F. Regeneration Noises.

UNDER this we will consider motor-boating as well as other possible sources of noise.

The following noises are frequently encountered in audio frequency systems:—

1. Coupling between speaker leads and detector grid circuits. If the speaker, a.c. line or plate leads are near any part of the detector grid circuit, they may cause squealing. The remedy is obvious. Keep all leads as far away from the detector grid circuit as possible.

2. An open plate circuit in the detector will cause a howling noise. Tracing back over the plate circuit will of course establish the fault.

3. Open grid circuits will cause squealing noises. Open grid circuits may be caused by open secondaries of audio transformers, open grid bias bat-

RADIO DIRECTORY

What to Buy and Where

CITIES

ACE and HAMMARLUND SETS, Johns, Ltd.
WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BURGESS RADIO BATTERIES, All Radio Dealers.

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,
Courtenay Place, Wellington.

MULLARD VALVES All Radio Dealers.

N.Z. DISTRIBUTORS PILOT
PARTS AND RECEIVERS,
INCLUDING PILOT SUPER-WASP and
GILFILLAN ELECTRIC RECEIVERS
Harrington's, N.Z., Ltd.,
40-42 Willis St., Wellington.
142 Queen St., Auckland.

RADIOLA RECEIVERS and Farmers' Trading Co., Ltd.,
Expert Radiola Service. Hobson Street, Auckland.

STEINITE RADIO G. G. Macquarrie, Ltd.,
120 Willis St., Wellington.

COUNTRY TOWNS

PHILIPS VALVES AND
APPARATUS All Good Radio Dealers.

teries, open grid bias resistors, or open grid return connections. This condition is generally indicated by an absence of grid bias on the radio frequency valves.

4. If the trouble is due to motor-boating, it manifests itself by a steady "put put" sound resembling a motor-boat in action. This is due to a low oscillatory feedback in the eliminator or power pack circuit. To eliminate this, connect large by-pass condensers across each of the voltage dividers to ground. By-pass condensers of about two microfarad capacity can be connected between the plate circuit and filament circuit to reduce motor-boating.

Noises Due to Valve Howling.

MICROPHONIC valves often cause a ringing sound in the loudspeaker gradually increasing in intensity, which is generally caused by the vibration of the valve elements in the detector or audio frequency stages. This vibration causes the plate current to change very rapidly, and the change in plate current is transmitted through the set resulting in the ringing sound. It is usually sound waves coming from the speaker that set the valve into vibration.

Special heavy weights can sometimes be placed on microphonic valves to prevent them from vibrating. An application of several turns of friction tape around the top of a valve will sometimes reduce a microphonic condition.

In most cases it is best to rearrange the valves until you find one that is not microphonic. In the modern receiver, microphonics are rarely encountered, and are nearly always due to a defective valve.

Further Notes on Mechanical Noises.

1. Spluttering, snapping noises—these noises are caused by electric sparks due to the breakdown of insulation in some part of the circuit. They can be heard even with the loudspeaker disconnected and are invariably due to defective insulation either on wires or the terminal strip. Where this occurs, separating the wires or cleaning terminal strips is the only remedy. A visual inspection while the set is operating will reveal where the breakdown occurs.

2. If there are any loose parts in the receiver such as loose screws and nuts, these parts may be set into vibration when the loudspeaker is in operation. Noises thus developed are clicking, rattling, metallic noises. The remedy,

of course, is to tighten up these parts. 3. If the power transformer vibrates or hums excessively, tighten the clamps which hold the transformer core. If the windings are loose, wedge them by means of bakelite or dry wood spacers.

Speaker Noises.

THESE noises are mechanical in origin and consist of rattles, clicks and scratches. In most cases the defect can be established by visual inspection. The two main types of speakers in use are the magnetic and dynamic. Most troubles will be found to be in dynamics, as more dynamics than magnets are in use.

In the case of a magnetic speaker, we generally have more moving parts, such as springs, driving pins, and more soldered connections. There are always two or three soldered connections on a magnetic speaker and they are likely to develop noise. Connections should be examined carefully and the cone



HAROLD SHAW,

a well-known Christchurch elocutionist, who will delight many listeners with his humorous items on May 2.

—Stefano Webb, photo.

and driving pin moved back and forth to see that the driving pin does not slip through the solder.

The most common trouble in dynamic speakers is caused by the voice coil dragging against pole piece. This produces scratching and distorted sounds, and is easily recognised. Some dynamic speakers have an adjusting screw attached to the centre of the electromagnet, which in turn is mechanically connected to the voice coil of the speaker by means of a bakelite strip which is called the spider. By adjusting the screw that is attached to the pole piece, the position of the voice coil can be varied in relation to the pole piece. This screw should be adjusted until the voice coil does not touch the pole piece at any point. A thin piece of paper inserted between pole piece and voice coil can be used to gauge the distance between the two.

Sometimes dust and foreign particles get between the pole piece and the voice coil, and these in turn cause certain noises. One effective way of removing these is to use a blower from an ordinary vacuum cleaner. Before using the blower, however, turn it on

to be sure that no dirt is in the pipe. Then allow the full force of air to blow between the voice coil and pole piece, moving the diaphragm up and down at the same time with your hand. This generally removes all dust from this point.

Examine the cone both at the voice coil and outer edge. If it is torn or uncemented, use ambroid cement, which can be obtained from several radio dealers. If the leather strip or chamois skin is hard in spots, rub it with your fingers on each side until it becomes soft and pliable.

Tracing Noise.

THE best instrument which can be employed as an indicator of noise is a good speaker or pair of headphones, because in the last analysis, what you hear is what counts. It is of the utmost importance, however, that the speaker or phones be in good mechanical condition.

The most frequent sources of noise are varying resistors, intermittent contacts or shorts. An ohmmeter and continuity tester are frequently of great assistance in detecting these. Intermittent contacts can be quickly established by using the continuity tester shown schematically in Fig 2. This consists of a voltmeter connected in series with a 4½-volt C battery. When the two test leads are connected across the terminals of the resistor or the apparatus under test it will read less than 4½ volts.

If the meter needle flickers between values it indicates a varying resistance and that part of the circuit should be most carefully checked.

In checking the condition of resistors do not bear down on the resistance, but pull up with your test leads. This will serve to strain the connection, and if an intermittent contact is being made it will show up when making this test.

Stage by Stage Elimination.

IF it is determined that the noise is internal it is necessary to locate the particular circuit which is causing the trouble, namely, where it is in the audio or radio frequency system, the detector or power pack, and in which particular stage the trouble arises. The best method to follow here is the stage by stage elimination process. In this method one stage is added at a time and observation made when the noise comes in. All valves should be kept in operation. This method of test assumes that the aerial and earth system is in perfect mechanical condition and that it is not itself a source of noise.

Assume now that the noise is internal. Therefore, disconnect the aerial and earth. The noise should still be present. Then, short circuit the grid or grids of the output valves. This immediately disconnects all valves ahead of the output valve or valves. If noise is still present, it means that the source of trouble is in the output stage or in the voltage supply or the speaker, and these should be examined carefully.

If noise is not present, the output stage and voltage supply for these valves is O.K. Now add the first audio frequency stage by disconnecting the short on the grid of the output valves. Short circuit the grid of the first r.f. valve. If noise comes in now it is in the first audio frequency stage or voltage supply to this stage. These circuits should be critically examined. If noise is still absent, both these stages and their associated voltage supplies are O.K. Next remove

the short circuit from the first audio frequency stage and short circuit the detector grid. Proceed this way until the source of trouble is definitely located in a particular circuit. Knowing the circuit in which the trouble is present, it is a simple matter to make corrections. When each radio frequency stage is checked and the grid of each radio frequency stage is shorted, rotate the variable condenser to see whether this introduces noise. Frequently the variable condenser plates may short at some point and cause noise. This test should be made with each radio frequency stage shorted so as to determine which particular variable condenser is causing the trouble, if any.

Visual Inspection.

KEEN visual inspection is one of the simplest and most effective means available for use in locating ordinary sources of noise. In this method instruments other than the listener's eyes are needed, but he must exercise his powers of observation. A visual examination of the wiring of the set will show connections which are loose or unsoldered, soldered joints which are corroded or resinous, insulation which is punctured or mechanically injured, valve socket prongs which are bent and make imperfect contact and so on. The possible sources of trouble causing noise which can be detected by the observant eye are many. One of the first steps to be taken therefore is to examine critically the wiring and construction to see what defects can be found.

A.C. or D.C. Resistance?

THE phenomenon known as skin effect, or the peculiar property of alternating current especially at high frequencies to travel only through the outer portion and not through the core of a conductor, is generally ignored in figuring resistance values for radio purposes.

Thus the radio worker is frequently puzzled by the fact that a given solid resistor, rated at a given resistance, actually has considerably higher resistance value in actual use. He may hasten to blame the resistance manufacturer, whereas he has only a well-known electrical phenomenon to blame. A solid conductor offers considerably greater resistance to high-frequency current than to direct current, due to the skin effect.

It is for the above-mentioned reason that the metallised resistance is finding more and more applications in radio work. Such a resistance, having a metallic coating deposited on a glass filament, presents a virtually uniform resistance to either a.c. or d.c. energy. Since there is no core to such a resistance unit, the a.c. or d.c. energy flows through practically the same thin film or skin. Therefore, the resistance value is the same in either case, and there is no chance for error as when using solid resistance units.

The 1931 "Radio Guide" is now available.

180 pages brim full of useful and interesting information.

Price 2/6. All Booksellers and Dealers. Box 1032, Wellington.

(See advertisement on back cover.)

Let Us Supply Your Parts for the SELLENS SHORTWAVE SET

Aluminium Panel and Sub. Panel, 24 x 9, each 5/-. Variable Condenser, .0001, 6/6; .00025, 7/6. Ormond Vernier Dials, 6/-; 30 ohm, Rheo., 3/-; Jacks, 1/6. .006 T.C.C. Condensers, 2/-; .0001, 1/6. 1 mfd., 3/2. Telson Audio Transformers, 12/6. 10 meg. Grid Leak, 1/6. H.F. Igram Chokes, 3/-. U.X. Valve Sockets, 1/6. Valve Pins and Sockets, 1/3 doz. 3lb. 18 d.c.c. Wire, 11d. Ample 30 d.s.c. for the job, 6d. Seven-wire Battery Cable, 7d. a foot; Nine-wire, 9d. a foot. Valves A409, A415, 13/6.

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(Country Accessories Supply)

11 VICTOR STREET, SEATOUN,
WELLINGTON.

Log for Week Ending April 18

STATIC has been very severe on the "higher" short waves, that is, above 40 metres. Below this it was less severe, improving, in most cases, as the frequency increased.

THIS list does not include duplex telephone stations (of which quite a number are heard), but only short-wave broadcast stations.

RV15, Siberia, 70.1 metres.—Good volume each evening. Static very bad towards end of week.

1ZR, Auckland, 68.8 metres (about).—This is not a short-wave transmitter, but was received on Sunday evening on their fourth harmonic at R9. The owners of 1ZR report that signals are received better in some districts on harmonics than on their proper wavelength.

HVJ, Vatican City, 50.26 metres.—From 6.30 a.m. each morning except Monday, at R9. Static bad last day or two.

W0XF, Chicago, 49.83 metres: Saturday, R7 at 4 p.m. Static very bad.

Russia, 49.2 metres (about): Monday, Wednesday, Thursday and Saturday mornings, best about 6 a.m., when they have been up to R9. Also Saturday afternoon, 4 p.m., at R8, talks by a man and woman.

W3XAL, Boundbrook, 49.18 metres: On Sunday an interesting relay was transmitted from a hotel in New York, where there was a gathering of circus owners and entertainers. Lion tamers, a dwarf, a fat lady and a number of others appeared before the microphone. Severe static spoilt reception.

W2XE, New York, 49.02 metres: Sunday, 5 p.m., an organ recital was heard at R8-9.

FS1CB, Saigon, Indo-China, 49 metres: Friday and Saturday from 11 p.m. at R8. Static was very bad.

W8XX, Pittsburgh, 48.86 metres: Sunday and Saturday, good volume spoilt by static.

Moscow, 45.4 metres (about): Monday, Tuesday, Wednesday and Friday. The first day was the best, being excellent at R9 at 6.15 a.m., with talks and music. Reception on the other mornings was spoilt by static.

Radio Maroc, Rabat, Morocco, 32.26 metres: Opened at 7.30 a.m. on Monday. Reception was excellent at R9 till 8 a.m., when I had to leave them. The quality, volume and freedom of static made reception like a local station.

VK3ME, Melbourne, 31.55 metres: Wednesday at 10.15 p.m. R9 with one stage of audio.

OXY, Denmark, 31.51 metres: Only heard on Friday morning at 6.30 a.m., talk at R3.

W2XAF, Schenectady, 31.48 metres: Sunday they were weaker than usual and gushy. Reception on Saturday was better, being R9 at 3.30 p.m. with their "Kodak Week-end Hour" and later with their R.K.O. feature.

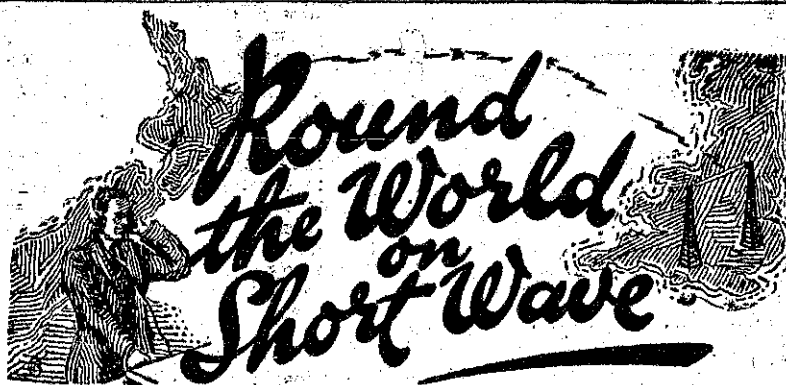
W1XAZ, Springfield, 31.35 metres: Very good on Sunday and Saturday afternoons. 4 p.m. being the maximum volume at R9, but quite good before and after this time. Saturday night started at 12 p.m. R8.

PCJ, Eindhoven, Holland, 31.28 metres: Saturday afternoon only this week. R9 from 2 p.m. till nearly 6 p.m., except for an interval after 3.30 p.m. to allow the announcer, Mr. E. Startz, and staff time off for breakfast. (This is pure speculation on my part. The station is on the air from midnight till 5.30 a.m. Dutch time, so they observe a short spell.)

G5SW, Chelmsford, 25.53 metres: Each morning except Sunday and Monday from 6.30 a.m. at R8-9. Readability has been better the last few mornings, but still marred by rapid fade.

12RO, Rome, 25.4 metres: Excellent every morning. Thursday at 6.30 a.m. they were R9 with one stage of audio.

W8XX, Pittsburgh, 25.25 metres: Sunday and Saturday till about 2.30 p.m.



THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs of general interest.

up to R8. They change over about this time from 25.25 metres to 48.86 metres.

Short-wave News

NRH, Heredia, Costa Rica.

AN interesting letter has just been received from Senor Cespedes, the owner-operator of this well-known 7½-watt station. It reads: "You have a good item for your paper now. The chain letter has just arrived back to me from Spain. It travelled 68,485 miles in 8½ months, during which the luck to NRH has been the reports from all the world continents. Filipines and Rhodesia, Africa, have just come in. I still have the 7½ watts for NRH. I wonder if you heard the special midnight programme on the last 28th of March, which I put up for New Zealand? Enclosed a page illustration from NRH book; it contains the proofs for the WAC certificate. The book has now 160 pages printed already, but pre-subscriptions are coming slow. Wonder when it will be ready? Wishing you best wishes, from Costa Rica, as you did to me in your motto in the chain letter, I am, yours very truly, Amendo Cespedes, Marin." The full call sign is TI-4-NRH. A programme is broadcast daily on 30.5 metres from 2.30 p.m. to 3.30 p.m. N.Z. time. Reports on reception are invited by Senor Cespedes, who sends a handsome Certificate of Verification which is as unique as the station.

The Vatican's Station's Transmission Times.

THE experimental transmissions from the Vatican station are to be continued, for the present, daily from 2 a.m.

to 3 a.m., on 19.84 metres, and from 3.10 a.m. to 3.30 a.m. on 50.26 metres (N.Z. time). It is probable that shortly the station will have a regular transmission schedule, but at the moment it is only testing. In addition to the above schedule, HVJ often transmits on 50.26 metres from about 6.30 a.m.

THE Vatican station is planning a series of special lectures, which will be broadcast in several languages, including English.

When the Pope opened the station a few weeks ago the B.B.C. carried out a successful relay, but it was found that better results were obtained by picking up the transmission from W2XAD on 19.5 metres than receiving direct from the Vatican station.

"Radio-Maroc," Rabat, Morocco.

THIS station comes in well here on Monday morning on 32.26 metres between 6.30 a.m. and 8.30 a.m. The station can be identified by the call "Ici Radio-Maroc station de l'Office Cherifien," and by the interval signal, a stroke on a gong. The station closes down with the "Marseillaise."

HEB, Tegucigalpa, Honduras.

THIS station broadcasts a special programme each Sunday from 4 p.m. to 4.30 p.m. (N.Z. time). Their power has recently been increased. Reports with comments on quality and consistency of reception are invited. The wavelength used is 48.62 metres.

VK3ME, Melbourne.

IT was announced when closing down on Saturday after the usual test transmission, that 3ME would be testing again on Wednesday, from 9.30 p.m. to 11 p.m. (N.Z. time). This is to be in addition to the Saturday test.

Special Broadcasts by W2XAF.

EVERY Sunday afternoon, New Zealand time, special broadcasts are made by W2XAF, Schenectady, on 31.48 metres, for the benefit of the members of the Syracuse University Andean Expedition, exploring in the Andes Mountains.

N.Z. Short-wave Club
From the Secretary's Pen

SATURDAY saw me carrying a huge parcel to the post office. It contained parcels of QSL cards, badges, membership certificates, and letters. There are still the remains of the rush to be posted, but, if within a reasonable time, members who have been neglected do not receive their mail, just remind me.

Because of the new postal regulations the postage on 100 QSL cards works out at 8d. Please add this to your order.

Owing to the necessity of securing a suitable place for the next lecture, the date and particulars cannot be given until next week. The subject will be "How to tune a short-wave set," and will cover all the ground. This will be suitable for either the successful short-waver or the novice, as much will be learnt. The lecture is being prepared by Mr. G. R. McCarthy (NZ25W), of Mack's Radio Co., and promises to be one of the most interesting lectures on short waves we have had in Wellington. In addition there will be a demonstration.

Will any listener who has heard the slow Morse transmissions of ZL2BA, ZL2BI, and Johnson's Wireless School please send in a report direct or to me, as we need them for tabulation. Those who have not yet joined up with the club are also invited to write in so that we can have a comprehensive report.

First aid is now being rendered by members. If a beginner wants to know a little more about tuning, or is in trouble, a member calls on him.

Headquarters have had the misfortune to lose the services of NZ12W, Mr. L. Saunders, who has gone to Auckland. 12W has been very useful and has done good work for the club. We wish him luck up north, and hope he will rope in a few new members. Auckland listeners desiring information will find him opposite Pasadena Buildings, Great North Road, Point Chevalier, where he will act for a time as official representative.

Recognising the work involved in typing carbon copies for answering inquiries, NZ10W offers to head with £1 a list to purchase a mimeograph for club circulars, etc. Needless to say, I did not turn the offer down. Correspondence must be addressed A. B. McDonagh, Secretary, N.Z. Short-Wave Club, 274 Cuba Street.

That Wave
of Disappointment!

Have you ever purchased an expensive article and a few days afterwards come across something which would have suited you infinitely better and at a much lower cost?

It's disappointing, isn't it?

But in wireless matters you don't need to have that sad experience if you place yourself in the hands of Mr. Mack, of Mack's Radio Service. Mack is a recognised Short-wave expert—one whose whole existence in life is bound up in short-wave reception. For many years past he has searched for the perfect receiving set. Dozens of imported sets were tried out, adapters and converters were tested, but all were found wanting.

New Zealand as a country has its own peculiar conditions even as localities have, and to meet these extreme conditions there was only one thing for Mack to do—design the set himself.

It took four years of concentrated effort to bring to perfection the short-wave set called the "Add-a-phone." To-day the "Add-a-phone" is the highly-prized equipment of New Zealand's leaders in the short-wave world. (Names will be given upon request).

When one purchases a Model B Add-a-phone at £16/10/- from Mack, he gets also a service quite unobtainable from anyone else. He gets the assistance of the actual designer and builder of the set. He has a source of specialized knowledge to draw upon at all times. He becomes immediately one of a select company of top-notchers because of his world loggings made possible only through the perfection of his instrument.

No—there is no disappointment with an Add-a-phone.

MACK'S RADIO SERVICE

77 Kent Terrace, Wellington.

MANY of us retain belief that, back of the ebb and flow of the world's ways which often appear to allow public service to pass unregarded, there is ultimate appreciation of able and unselfish work for the community. This belief received encouraging confirmation in the gratifying tribute paid by representatives of women's societies, and a large number of personal and professional friends, who assembled last week to do honour to Miss Amy Kane, on the occasion of her retiring from journalism, an avocation she has followed with success and integrity that have earned respect and encomiums from all classes of citizens. Graceful and obviously sincere expression of admiration and regard for the guest of honour was voiced by representative women, including Mrs. Troup and Lady Luke; while Mrs. Chatfield, in a witty speech, gracefully phrased and attractively spoken, added her tribute, as a fellow-journalist, to the chorus of appreciation.

Miss Kane is keenly interested in all movements to encourage physical and spiritual well-being in the women of our Dominion, and all branches of the social cosmos were represented in the comradely crowd assembled to do honour to her as a leading feminist, and wish her good luck in a wider sphere of usefulness where her proved qualities of fair judgment, capable administration and warm-hearted generosity will have fuller scope. Miss Kane's short speech of thanks and retrospect were instinct with sincerity, and the whole gathering a unique, happy and democratic one, "the Colonel's lady and Judy O'Grady" being in pleasant and friendly juxtaposition.

The Bench, the Bar, Literature, Music and Philanthropy were represented, and there was a commingling of visitors from other parts of New Zealand, notably a well-known Dunedin litteratrice, whose scholarly lectures on Dante and Browning have so delighted audiences in the city of the south.

Congratulations are extended to Miss Kane on receiving so great a personal tribute, and the prediction is made that, as the door closes on past successful endeavour, another avenue will open which will lead to influential and honourable achievement in future years.

FASHION is a sort of blackmail levied on us all by civilisation, says an exchange. You give in to it enough to be left in peace, and not to have every other woman's eyes



making comments on your demode appearance. Some go further than others and like to be in the vanguard; but it takes a lot of courage to wear short skirts when all the other females of one's own generation are wearing long ones. To go out differently clad from others usually indicates either a deliberate attempt to be outre, or else a genuine indifference to the world's opinion.

MRS VIRGINIA WOOLF, essayist and novelist, is a trump card in the feminist camp; therefore mediocre men, of whom there are a fair proportion on this planet, are apt to sneer at her achievement. Happily, in the long run, futile and bemused belittlement matters little or nothing; and to the intelligentsia, male and female alike, the subtle and coruscating talent of Mrs. Woolf is a delight. Sensitive awareness of values and the innumerable nuances of human conduct, coupled with unimpeachable literary style, are vividly present in

her latest essay, "On Being Ill," in which are presented, with beauty and wit, curious new angles and half-lights of consciousness induced by the languors and dolours of illness. This small volume, issued in a limited edition, will appeal to collectors, especially those who take delight in the fact, to be reckoned with in imminent future, that woman as artist, in spite of criticism, past, present and to come, is forging ahead, ultimately to reach a place in the sun which is created by unbiased and discriminating judgment.

EIGHTEEN was at one time accepted in England as the correct age for the presentation of a debutante, and it is still looked upon as the ideal by a large number of women in the social world. The tendency at present is to present girls earlier than was done in their mothers' day, but there is no doubt that the idea of the 17-year-old debutante meets with much criticism. However, youth is in demand to-day,

and political and charitable activities begin to make demands on girls of 17 or 18 years old, so that many parents feel that, modern life being so crammed with diverse interests, they have no right to hold their girls back too long.

DO you know that Persian shawls are in demand as a result of the Persian Art Exhibition, and are being made up into smart afternoon ensembles? That potatoes bake more quickly and easily if soaked for a few minutes in hot water before being placed in the oven? That crackling is more likely to be crisp and brittle if it is rubbed with lemon juice before the pork is cooked? That "liquid silk," contained in what looks like a tiny gelatine egg, is the latest utility for the handbag; the small egg being about two-thirds full of a liquid substance for repairing ladders in silk stockings, it being necessary only to puncture the top to free the liquid? That there is an orange cream now obtainable that leaves that faintest tint of natural pink on lips and cheeks which fashion decrees? That at a competition recently a prize was given for the most successful label to a fashionable ensemble, suggestions being "Golden Arrow," "Persuasion," "Temptation," "Nuit d'Ete, and an up-to-the-minute "Midget Golf"?

WE learn from an English paper that Miss Maude Royden is resuming her duties as a woman preacher about this time. Her name is known throughout the world—thanks to her recent tour of America and New Zealand—as the builder of one of the most vigorous social and religious organisations in existence. A sister of Sir Thomas Royden, the shipowner, she inherits the family faculty for concise, blunt speech. So blunt indeed (the writer comments) is this remarkable woman that she ruffled the feathers of the American Press by declaring that she was not a non-smoker and was not teetotal. "The Smoking, Drinking Evangelist," they called her, yet those who know Miss Royden will agree with the verdict of the reliable newspapers abroad that truly indeed she is on the side of the angels and a Christian in the most real sense of the word.

THE freak fashions which have been seen at the Queen's Club in connection with the squash rackets championship have given rise to speculation whether shorts and trousers for women will be formally recognised and accepted at Wimbledon during the coming summer. There is no doubt that the big outfitters are stocking and selling more and more shorts for lawn tennis wear. Their growing popularity, however, seems to be restricted in the main to the private court, and you hear nothing of any innovations of this kind in connection with the tournaments taking place all along the Riviera. There is no doubt that for sheer comfort the stockingless vogue commends itself to the sport enthusiast. But it is not a pretty fashion by any means, and sheer feminine vanity always asserts itself in a matter of this kind. Even men speedily abandoned shorts for wear on the tennis courts. They are all right in a racing skirt or on the football field, but look "all wrong" on the centre court at Wimbledon.

Our Cookery Corner

Potato Cakes.

PLACE on a floured baking board ½ lb. well mashed potatoes (if they are still warm after a meal the cakes will mix all the easier), add ½ lb. sifted flour, 2oz. butter, a pinch of salt and pepper, and half teaspoonful baking powder. Knead all well together until you have a pliable paste. Divide into two, roll out into rounds nearly ½ in. thick, and divide each into six or eight scones shapes. Leave on the floured board in a cool larder until required—the longer they stand the lighter the cakes are. Well heat a greased flat cake tin in a hot oven, put in the scones, and when one side is browned (8 or 10 minutes), turn them over and brown the other side. Split open with the back of a knife, butter liberally, and serve very hot.

Cream of Artichokes.

ARTICHOKES, not a very favourite vegetable, are quite good in this form: Boil ½ lb. of them in milk and water and rub them through a sieve. Make a custard of ½ pint of the liquid and the yolks of two eggs. Beat stiffly the white of one egg and stir into the custard when it has cooled a little. Mix with the artichoke puree, salt and pepper, and steam in a basin for one hour. Turn out very carefully and surround with a curry sauce or one of tomato.

Margaretta Souffle.

COOK 4 lb. of golden swedes, drain and rub through wire sieve to make 1 pint pulp. Season with salt and pepper, and add a good tablespoon of butter or margarine and the slightly beaten yolks of 2 new-laid eggs. Add the whites of eggs whipped very stiff, and pour mixture into souffle mould. Cook in moderate oven about 40 minutes. This is delicious served as a separate course

with thin brown bread and butter, or as an accompaniment to any cold meats.

Caramel Rhubarb Pudding.

BUNDLE of rhubarb, ½ lb. beef suet, 2oz. breadcrumbs, sugar and flour 2oz. each, 2oz. of brown soft sugar, and a tablespoonful of butter or margarine. Take the brown sugar and butter, beat together till soft, then line basin with mixture. Make usual suet crust and add breadcrumbs before wetting, which makes it lighter and easier to digest. Line basin with this also; cut fruit and put inside with sugar, cover with paste. Bake for 1½ hours in moderate oven, turn out, and the pudding will be coated with caramel mixture. Serve with sauce.

Savoury Egg Fluff.

FOR this you want stale bread, four eggs, a little dripping, a pint of white sauce, 4oz. of grated cheese, salt and pepper.

Cut the crust off some stale bread, cut the bread into fingers and fry a golden brown in the dripping. Arrange them lattice-wise on a hot dish. Pour the fluff over and serve.

To make the fluff: Make a pint of thick white sauce, stir into it the cheese and well-beaten yolks of the eggs, beat a minute or two and season well.

Stir over very gentle heat for three minutes, but do not let it boil. Then stir in very gently the whites to a stiff froth and use as directed.

A Simple Entree.

SKIN sheep's kidneys, cut them almost in halves, and put them in individual casseroles that have been generously buttered, put a scrap of butter and sprinkle salt and pepper on each and cook under a grill, turning them once. Surround with tomato puree and serve very hot.

CARRY THEM WITH YOU
Pulmonas
INVALUABLE PASTILLES
for
COUGHS
COLDS
'FLU

... With ... BOOK and VERSE

By "John O'Dreams"

Our Fortnightly Book Review

AN ANTHOLOGY OF WAR POEMS

Compiled by Frederick Brereton

ON the eve of the sacred anniversary of Anzac, when long thoughts go back in pride and sorrow to beloved and gallant dead, it is fitting to read, mark and study an Anthology of War Poems, recently compiled by Frederick Brereton, with a wise and illuminating introduction by Edmund Blunden, himself a poet and litterateur of note.

A large number of the poems presented were written in the trenches and in the war zone, and many of the authors literally "sang their song and died," thus leaving behind them imperishable testimony to the horror, stark cruelty and soaring heroism which were accompaniments of the Golgotha into which they were hurled. These vivid, virile verses of those who, being dead, yet speak, are an overwhelming indictment of the barbarism, inhumanity and awfulness of war between nations; and if for that reason alone should be widely read and pondered over. The majority of the men whose work is chosen were soldiers, "straight of limb, true of eye, steady and aglow"; although a few older writers are included, among them the veteran Thomas Hardy, Ford Madox Hueffer, and John Galsworthy, the latter being represented by a very beautiful poem which is new to me.

Much of the work of Siegfried Sassoon is in this discriminating collection; terrible impressions of those horrors of sight and sound that etched themselves into consciousness of his sensitive poet-mind. In the words of the introduction: "Siegfried Sassoon contrived to draw a sword for a greater ideal than the colours of a regiment, by recording what war does to youth and laughter in poignant epithet and striking verb, in various rhythm and dramatic narration."

Also, there are the well-known and most moving "Into Battle" by Julian Grenfell and "Before Action" by W. N. Hodgson, two of those to whom fame was bestowed after death. There are five poems by the brilliant Wilfred Owen, who survived those catastrophic years until the war was almost over. One of the greatest of that great galaxy, he was convinced by Mr. Sassoon's example that poetry could do much to bring us back to normal, and found in "the pity of war, the pity war distilled" his inspiration and spiritual despair. "He perpetuated the general

wilderness," says Mr. Blunden, "the charged atmosphere, the hardly sane constancy of the soldier, the pity which he desired above all to interpret."

Wilfred Wilson Gibson's beautiful "Lament" is included, and will bear re-quoting:—

We who are left, how shall we look again

Happily on the sun or feel the rain
Without remembering how they who went

Ungrudgingly and spent
Their lives for us loved, too, the sun and rain?

A bird among the rain-wet lilacs sings—
But we, how shall we turn to little things
And listen to the birds and winds and streams

Made holy by their dreams,
Nor feel the heart-break in the heart of things?

There is so much that is poignant and brilliant and notable in the anthology that, if one begins to quote what is outstanding, this review would run to inordinate length. Suffice to say that, apart from the historic significance of the poems, there is evidence of great talent, in some cases amounting to genius. A touch of humour is apparent in "Il est Cocu-Le Chef de Gare":—

When I am tired of Gertrude Stein
She said she said that she said she. . . .
When the expressionistic line
Has palled, and Sitwells weary me. . . .

Two of the poems of C. H. Sorley are wonderful examples of the genius of this young soldier, who, had he lived, instead of died for England, would have won lasting fame for himself and shed lustre upon our literature.

We look back into dim retrospect and sigh to realise how far the world still is from that haven of peace and beauty these young men hoped to encompass by nobility of self-immolation. In conclusion I quote the last lines of

ANOTHER arresting story of a single evening is "An Angel in the Room," by Mr. Gerald Hopkins. At a small dinner party there are three guests—Mr. Lothbury, home from the East; a reticent Major, and the blonde Mrs. Daggenham. Superficially a party that is ordinary enough, but subtle drama has been present, albeit unknown at least to one of the few guests. A domestic problem is presented and solved in entirely charming fashion, and Mr. Hopkins has shown admirable skill and imagination in his subtle setting forth of his motif.

TO many the name of Mary Baker Eddy has spelt inspiration and a new lease of the life spiritual, while others have not hesitated to dub the establisher of "The Christian Science Monitor" a clever charlatan, much controversy raging for and against the self-elected missionary and the enormous influence she wielded over her following. Another biography of this intrepid lady has now been published by Fleta Campbell Springer, who sets out to give impartial life-story of the Founder of the First Church of Christ. According to Miss Springer's testimony, Mrs. Eddy was a remarkable personality, quite above logic or consistency, and capable of bluffing a large section of the community into accepting her as a prophetess. A delicate woman in her earlier years, and mundane enough to contract three matrimonial alliances, Mrs. Eddy's life would appear to have been somewhat difficult until fate brought into her ken Dr. Phineas Quimby, a faith-healer, and a person of importance in his day. Him she accepted at his own valuation, and through his influence discovered health of body and spirit, and the kernel of that creed which later she expounded to her listening coterie with such triumphant success. Mrs. Eddy's interpretation of the message of the Prince of Christianity has become one of the religious forces of the world, and whatever individual opinion may be, there is no doubt that for thousands it has solved the paradox of orthodox religion.

Mr. Galsworthy's "Bells of Peace," which seem peculiarly applicable:—

Ring out the Past, and let not Hate
berave
Our dreaming dead of all they died to win!

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As in former years, every phase of radio has been exhaustively and simply discussed and tables and charts brought up-to-date, whilst the stations calls section now covers twenty-three pages, so those who purchase the latest work are sure to find that they once more have obtained a wonderful book of reference and instruction.

CHAPTERS OF INTEREST

Chapter 1.—Radio in New Zealand.
Chapter 2.—A brief account of the technique of broadcasting. Linking up with recording for gramophones and talkies. Selectivity and the Robinson Radiostat. Sets: How they work. All types, from crystals to super-heterodyne.

Chapter 3.—Gramophones section. Notes on popular gramophone topics, pick-ups, etc.

Chapter 4.—Construction, including tips and jottings, and how to make all types of sets with complete circuits.

Chapter 5.—Transformer construction.
Chapter 6.—Short-wave reception and transmission. Complete circuits for different types of short-wave sets and adaptors.

Chapter 7.—Trouble tracking method fully described.

Chapter 8.—Call Book. Every station that can be heard in New Zealand is listed, giving full details as to call sign-frequency, etc.

Chapter 9.—Reference section.

Chapter 10.—Glossary of wireless terms.

For Amateur Constructors

Many new ideas are shown in this year's circuits, all of which have been tried and proven in the laboratory before inclusion in the Guide.

Constructors may build with our guidance any set up to five valves, no matter whether it be A.C. or battery, combination or shortwave, should they desire to do so.

Perhaps the most popular shortwave circuit will prove to be the screen-grid A.C. receiver using four valves; the test model in our laboratory has brought in England, Holland and America with full loud-speaker strength, and the other circuits described are equally as good as this one in fulfilling the purpose for which they were designed.

The "Call Book" Section

The most comprehensive CALL BOOK ever published in the Southern Hemisphere will be included in the 1931 Guide. All the New Zealand and Australian stations listed will have complete particulars of call-sign, address, power, wave-length frequency, and hours of operation.

For the purposes of overseas compilation we have had numerous official correspondents in many parts of the world forwarding full details of the stations in their particular countries.

Sufficient is it to say that over 400 American stations are listed, giving all details, with the exception of hours of operation. Stations in such countries as Canada, Mexico, Cuba, Japan, and China have also been similarly dealt with.

The most important shortwave transmitters in all countries are given, with their hours of operation in New Zealand time.

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