

PUBLISHED WEEKLY

THE RADIO RECORD

AND

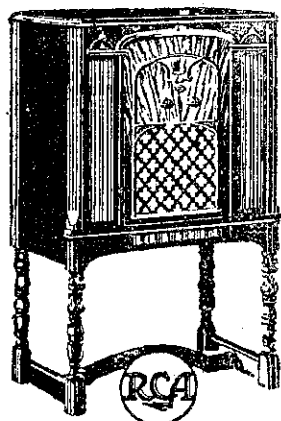
HOME JOURNAL

Vol. IV., No. 36.

WELLINGTON, FRIDAY, MARCH 20, 1931.

Price, 3d.

You will agree with Marconi **RADIOLA 80** is certainly "a great advance"



Radiola 80, Super-Heterodyne

Nine tuned circuits; dynamic speaker; no A.C. hum; magnified illuminated tuning dial accurately calibrated in kilocycles; improved volume control; local distance switch; push-pull amplification.

Ask your Radiola dealer for free demonstration. See, hear Radiola 80 to-day. You will be completely captured by its gorgeous tone and its exquisite walnut veneer cabinet.

NOW you can enjoy a new radio instrument, so highly developed . . . so far advanced that it has won praise from Marconi himself . . . the genius who invented radio . . . the outstanding leader in radio science for 36 years!

Never before have you heard a radio quite like the new Radiola Super-Heterodyne 80 . . . such thrilling tone . . . such alert performance. Startling realism, exceptional freedom from over-lapping, interference, noise and distortion. No wonder this sensational instrument is the fastest seller in Radiola history.

Amalgamated  **Wireless**
(Asia) Ltd.

P.O. BOX 830, WELLINGTON.



SIR!
Your Copy of "Radio Sir!"

— awaits you at every principal radior dealer in your State.

Between the covers of "Radio Sir" are crammed seventy-two pages of radio information, most of it new and hitherto unpublished.

The construction of an Auto Receiver and how to fit it to your car; the PCJ-5, 1931 wonder short-waver; the Economy Twin, a low-priced A.C. Receiver; a 400 volt Amplifier; a simple converter so you may listen in to the short waves on your broadcast set; long unusually interesting and easily understood articles on valves, audio frequency coupling, power supply apparatus, condensers, pick-ups, speakers, etc., etc, are really but a few of the features which make it imperative that you spend 6d.

You **MUST** have a copy if you are interested in radio in any form. Today—NOW—is a good time to buy "Radio Sir."

If you are unable to obtain a copy of "Radio Sir" from your dealer please post to Philips Lamps (N.Z.) Ltd., at any of the addresses at the foot of this advertisement.

Please mail me immediately a copy of "Radio Sir" for which I attach 8d. in stamps.

NAME

ADDRESS

YOUR DEALER CAN SUPPLY YOU WITH A COPY OF "RADIO SIR" OR

W66R

Advt. of Philips Lamps (N.Z.) Limited, P.O. Box 1672, Wellington.

Auckland Office: Paykel's Building, Anzac Ave. Christchurch Office: 226 Tuam Street.

The Story of a Life that Remains an Inspiration

BEETHOVEN

JUST over a century has passed since the death of this fighter, stormer, and wonder-worker who forged his dreams and disappointments into immortal music. Posterity approaches his work only with bowed head. But it may follow his life with open eyes; Beethoven, the inspired, the conqueror.

One may be too curious about the life work of a great artist, he may be too critical. But there is a case for informing ourselves about Beethoven's personality. The poet can convey in words all we need to know about his opinions. The musician does not tell us how he viewed life; what he expresses is at most the emotion which he felt, as he pondered and struggled.

Yet Beethoven had strong opinions. It was a daring thing for a composer writing within reach of the Austrian police to dedicate a symphony to Napoleon. Not only did Beethoven write the *Eroica* in honour of the First Consul; he tore up his dedication when his hero proclaimed himself Emperor. His opinions, then, had some bearing on his music; a political enthusiasm stimulated the first of his works which deserves to be called not merely beautiful but great.

There is another reason which drives lovers of Beethoven's music to study his life. Few artists grow so visibly as we survey their work in the order of its composition. The development of his technique is not a sufficient explanation, certainly in that respect he never ceased to invent.

HE is constantly winning freedom within the traditional forms and rules, which at last he bursts and breaks, modulating from one key to another with increasing subtlety and audacity, and discovering fresh colours in his orchestral instruments. So much, in some measure, one may say of every original artist. But in Beethoven's case one feels that the man is growing as noticeably as the composer.

If he had died in 1804, his early work would have ranked him in quality, though not in quantity, with Haydn and Mozart. The world had heard few symphonies as lovely and interesting as his First and Second. Yet when he came to his Third (the *Eroica*) we feel that something has happened to this composer. By taking thought he has added many cubits to his stature. For the first time we call him not only a great artist but a great man. The early works were beautiful patterns of sound, but this symphony reflects the experience of a man who by suffering and struggle had won his right to hope and believe.

Ludwig von Beethoven was born in 1770 at Bonn, amid the beauties of the Rhine Valley. His grandfather, a Fleming, was a chorister in the service of the Archbishop-Elector, an enlightened patron of music, and rose to be conductor of his concerts. His father, who sang in the same choir, had a narrower mind and a harsher character, and his drunken habits brought the family to squalid poverty.

To his mother, of whom we know too little, Beethoven was deeply attached, but she died before he was eighteen. The father, who wished to exploit Ludwig as an infant-prodigy, neglected

A Broadcast from 4YA



"I have never yet seen an artist more energetic, more spirited."

—Goethe.

temporaries describe him as an ugly, but sturdy little man, with a shock of insurgent black hair. His manners were awkward, his accent provincial. To awkward manners, a provincial accent, and slovenly dress, he added a prickly and defiant independence. Mozart had worn a livery, and dined in the servants' hall of his patron.

No man ever dared to treat Beethoven as less than an equal. Throughout life he was a democrat, formed by the French Revolution. A bust of the regicide, Brutus, stood on his bureau.

When his brother, John, a war-profiteer, described himself on his visiting card as "land-owner," Beethoven retaliated by scribbling under his own name "brain-owner." On a visit to Goethe he horrified that courtier of genius by remaining covered and erect when they met the Imperial Family on the road. To the Archduke Karl, the commander of the European coalition against France, he wrote a dignified letter exhorting him to lead a movement for peace.

His religious opinions were as unorthodox as his politics. No one who listens to the sublime choruses of the Ninth Symphony, or to the Convalescent's Hymn of Thanksgiving in the A Minor Quartet (Op. 131) can doubt that he was, emotionally, a deeply religious man. But his faith was pantheistic, and on one occasion the police even thought of prosecuting him for blasphemy based on some rash words spoken in a cafe.

At thirty, this young man had achieved success. Good judges considered him the first pianist of the day, and his compositions were spreading his fame as far as London. To our ears, these early works seem to place him in the school of Haydn and Mozart, but his contemporaries, even at times the (Continued on page 2)

his general education, kept him hard at work at fiddle and piano, and published his childish compositions with falsified dates.

His growth, when one compares him with Mozart, was slow; yet at seventeen, on a brief visit to Vienna, he won high praise from that brilliant genius. He was well grounded in Bach, played the organ as well as the piano, and gained valuable experience as viola-player in the Elector's orchestra.

WHILE still in his teens he was obliged to take over from his drunken father the responsibility for the household. Encouraged by Haydn, during a visit to Bonn, he sought his fortune, in 1792, in the imperial city of Vienna, at this time the musical capital of Europe. Here he took lessons in composition from Haydn, but the self-willed, though hard-working pupil was too tactless to retain a teacher's regard. As a pianist, however, he made his way rapidly, chiefly by his gift of improvisation. At his concerts someone would suggest a theme, and on this, abandoning himself to a fury of creation, he would pour forth variations which astonished his hearers as much by their prodigal invention as by the sure architecture of their form.

But he was not at this time a popular figure in musical society. His con-

Beethoven

(Continued from page 1.)

great Haydn himself, thought them daring. Haydn, after all, belonged to the age of Sterne and Goldsmith; Beethoven to that of Byron and Goethe.

But this successful man was deeply unhappy. At the age of 26 the first symptoms of deafness appeared. It is probable that the disease began in infancy, and it may have been congenital. Inexorably, though gradually, the curse crept upon him, and neither physicians nor quacks could relieve it. Partly from pride, partly from concern for his professional reputation, he concealed it even from his friends, and though he suffered agony from loneliness, he shunned society, until the world came to think him a misanthrope and a beggar. Yet his was an affectionate and sociable nature, capable of gaiety as boisterous as his scherzos. Tones he could always hear better than words.

He played in public for the last time in 1814, but in his later years his attempts to conduct brought humiliating disaster, and on the rare occasions when he played for friends, his fingers in the quieter passages would run over the keys and give no audible sound. The world could now reach him only by writing in the notebook which he always carried.

At his last concert, in 1825, the great audience, listening for the first time to the Ninth Symphony, abandoned itself to a tempest of applause. His friends had to turn him round to see the clapping.

This curse, the most terrible which could visit a musician, was through thirty years the central fact of his life. The man reached greatness by defying it. In 1802, after a summer spent in vain in the rural quiet of Heiligenstadt, his hopes of a cure faded. In his will he described the despair and isolation of these years.

Cut off from friendship and love, only his music remained, and for how long would he be able to create inaudible beauty? He even meditated suicide. Gradually his will asserted itself; he would fight; he would live to create. He ceases about this time to be ashamed of his affliction, and returns to society and finds that his work has gained. It is this victory which explains the sudden growth of power of which one is aware in the Eroica.

It was dedicated to Napoleon, but does it not sing the new ideal of heroism? The death which the Funeral March celebrates is not that literal death of the body which the registrar records. It is rather the spiritual tomb which a hero must escape. As one listens to the gay Scherzo and the triumphant Finale which follows it, instinctively one's inner voice repeats: "And the third day He rose again."

From this year onward, this theme inspires all Beethoven's greater work. Occasionally one hears a note of resignation, but much more often of triumph. No man has written music of such abandoned gaiety. But there is the force of a titanic will in these terrific hymns to joy. They are not, like Mozart's, the outpourings of a child of nature. One is the witness of inner struggles in most of his loveliest creations; in the Fifth Symphony, and even in the Seventh, in the Violin Concerto, and even in the "Emperor" Con-

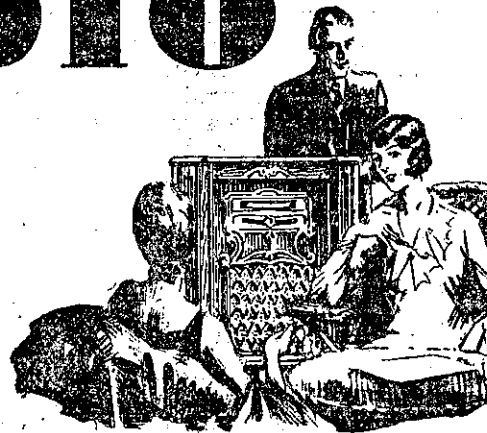
(Concluded on page 29.)

"His Master's Voice"

enjoys new leadership



With "His Master's Voice" Micro-synchronous Radio you get greater value, more versatile performance than you ever thought possible. Smooth, luminous tone which nothing less than an "His Master's Voice" set can give . . . NATURAL tone, without mechanical harshness . . . radiant tone, without metallic glitter. You get sharp and precise definitions of stations. You get TONE CONTROL, by which you modulate the bass and treble to suit the acoustics of the room. And you get "His Master's Voice" cabinets . . . that please the eye and match the furnishings of any room . . . cabinets of inimitable design to permit free and undistorted reproduction. Your guarantee of this quality of construction and performance is the oldest and greatest name in the science of sound.



"His Master's Voice"

Micro-Synchronous

RADIO Model

Your dealer is anxious to demonstrate the advancements of this model and let you judge its accomplishments yourself. Also hear the "His Master's Voice" Radio-Gramophone Combination with the marvelous Home Recording device.

His Master's Voice (N.Z.) Ltd., Wellington

The 1931 SENSATION IN RADIO

The St. Matthew PASSION MUSIC

Explained

by

Robert Parker, C.M.G.

Next Sunday evening, Passion Sunday, music-lovers will be afforded the opportunity of

hearing a selection from the St. Matthew Passion music, broadcast by 2YA on relay from St. Paul's Pro-Cathedral. Mr. Robert Parker, C.M.G., will be the organist and choirmaster; Miss Ava Symons and Mrs. Furner Steers will play the violin and piano parts respectively, and the soloists will be Mrs. Alexander, Mrs. Wilfred Andrews, Mr. Chas. Williams and Mr. Binet Brown.

FROM early days in the history of the Roman Church it had been customary to recite, on Palm Sunday and Good Friday, the story of the sufferings and death of Christ as recorded in the Gospel narratives.

The recitation was chanted on the plainsong melodies that are known as Gregorian tones, and a certain amount of characterisation was effected by allotting the words of the Evangelist, and those of Christ, with the subordinate characters of Judas, Peter, etc., to different voices; the utterances of the multitude being sung by a choir. In the Reformed Church the practice was continued, and expanded by Martin Luther by the addition of choruses in four-part harmony, the work being printed with the German text in 1573.

During the next 150 years, as the art of music gradually developed, various settings of the Passion story were composed by Schutz, Keiser and other prominent musicians of the period, including one by Handel in 1717; but the culminating achievement for all time was made by John Sebastian Bach in his settings of the Biblical narrative contained in the gospels of St. John and St. Matthew. The latter is by far the more important of the two works; indeed the composer has, in the St. Matthew Passion, reached the highest point in purely religious music that can possibly be conceived.

It was composed in the early period of Bach's long residence in Leipzig, and it was first performed there, in the Church of St. Thomas, on Good Friday, 1729. After this initial performance the work seems to have been laid aside and completely forgotten until exactly 100 years later, when it was revived and publicly performed in Berlin under the direction of the youthful Mendelssohn, with remarkable success, in 1829. Its fame, owing to this auspicious revival, soon spread throughout Germany, but it was not till 1854 that it reached England, where for many years it received but scant recognition and, at long intervals, but few performances.

During the last 20 or 30 years the appreciation of Bach, as the most outstanding force of music, has grown with extraordinary rapidity, and as a result, the St. Matthew Passion is now heard in countless churches and cathedrals, especially during Lenten season. To name only one notable example, the annual performance in St. Paul's Cathedral is attended by an enormous congregation of devout listeners, many hundreds of these having waited for hours to gain admittance, and many more being unable to find even standing room in London's great

Mother Church.

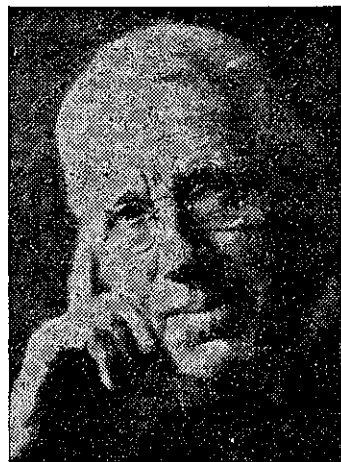
To understand it fully, one must know something of the church in which it had its birth—the church of Luther's simple Protestantism, of innocent, child-like faith, of devout sincerity. To Bach himself, as to the worshippers in the Thomaskirche two centuries ago, the Passion of our Saviour was a real thing which touched their own lives intimately. Jesus Christ, the Son of God, was to them so truly the Son of Man, that they could speak of Him, and speak to Him, with all the simple confidence of a little child.

THE quiet, tender chorus at the end of the work, in which the voices sing "Mein Jesu, gute Nacht" (My Jesus, fare thee well—literally "Good-Night") has all the heartfelt loving sorrow of a human leave-taking. It is an attitude of worship which the world can never see again, but Bach's music, enduring in its splendid beauty like some great cathedral, can show us more truly than anything else, what it was.

The form for such church music which has come down to Bach from earlier hands, had grown into a strange hybrid of many styles—secular as well as sacred—a medley of operatic and ecclesiastical tradition. Bach had perforce to cast his ideas in the mould which his age accepted; he did it with such splendid effect that the form seems exactly right, simple, like his own devout spirit, and noble in a way which no one has ever since achieved.

The story is set before us in a series of dramatic episodes, almost pictorial in their vivid directness. At salient points, the narrative is interrupted, and a meditation on the scene which has just been recounted is set before us, sometimes in an aria by one solo voice, sometimes by a simple chorale or by a chorus. The choirs—there are three choirs, two of the usual voices, men's and women's together, and one of boys' voices—are used in a twofold way, to express these contemplations of the worshippers' spirit, and to take part in the actual unfolding of the drama. In this latter way the voices are used with telling, often almost overwhelming, effect.

THERE are in all some 24 scenes, of which roughly one-half are rounded off by arias and half by choruses. The actual telling of the story is in the hands of a narrator—called the Evangelist—a tenor soloist, in a series of recitatives with orchestral and organ accompaniment. The utterances of our Lord Himself, though also recitatives, are more nearly in arioso form, with a more flowing, melodious line, and are meant to be (Concluded on page 31.)



Mr. Robert Parker, C.M.G.

The New Zealand Radio Record —AND— Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

Published Weekly. Price 3d. Subscription Post Free in advance, 12s. 6d. per annum; booked, 15s.

Literary communications should be addressed: "The Editor"; business communications to "The Manager"; technical communications to "The Technical Editor."

Advertisers are asked to note that alterations of advertisements should be in hand Friday of each week for insertion in the succeeding issue, printed Tuesday, bearing Friday's date. No responsibility is accepted for blocks remaining unclaimed three months after each insertion.

RADIO PUBLISHING COMPANY OF NEW ZEALAND, LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, MARCH 20, 1931.

PARLIAMENT AND RADIO.

ON Wednesday of last week listeners were accorded, for the first time in New Zealand history, the privilege of hearing over the air the Governor-General's Speech on the occasion of the opening of Parliament, within an hour of its being delivered to the assembled legislators. While on this occasion the speech was merely read to listeners from the studio—this being made possible by the courtesy of the Prime Minister, the Hon. G. W. Forbes—the time will doubtless come when the microphone itself will be permitted at the opening of Parliament, and listeners be enabled to follow the voice of the Governor-General for the time being as he delivers his inaugural message to Parliament. That practice has not yet been introduced in the British House of Commons, and that precedent probably governs the New Zealand situation. However, a start has been made in improving the intimacy of contact between Parliament and the people, and doubtless the microphone will come in the future into greater possibilities of service.

THE proposal has sometimes been made that the more important debates of Parliament should be broadcast. This suggestion has some little merit, but we are inclined to think the demerits outweigh the advantages. To many people it would be interesting to follow the course of a Parliamentary debate, but that degree of interest is not, we think, sufficiently widespread to make the service popular either as an entertainment or as a method of instruction. A few years ago one of the Austrian Parliaments decided to permit its debates to be broadcast. Legislators, knowing that they were "on the air" and that, among others, their constituents would be listening, set themselves to make a good impression. Some could not restrain their verbosity. They proceeded to talk, and showed signs of running to inordinate length. This continued till some of their constituents got on the telephone and passed the blunt suggestion back to the House and the member concerned that he was "talking too much." The promptitude with which members sat down after this expression of view from their constituents was amusing, and led to an abrupt termination of the practice of broadcasting debates. The time factor and the lack of

universal appeal, therefore, we think weigh against any proposal of Parliament itself being broadcast in so far as its debates are concerned. The picturesque ceremony of an Opening might possibly be achieved in the future, but scarcely more.

THERE is, however, one phase in which radio might, we think, be allowed to serve Parliament and the people. Listeners, particularly in such strenuous economic times as are now prevailing, do desire to be fully informed of the views of the principal political parties. Further, it is important that they should be so informed, and if possible achieve at first hand an impression of the calibre and views of the parties soliciting their suffrages. To achieve this end, the suggestion has been made that the leaders of each political party should be given the opportunity of attending at 2YA and delivering a direct exposition on constructive lines of their policies. These statements of their policy should, as far as possible, be non-controversial in so far as direct criticism of other policies is concerned. They should in the main be confined to a direct statement of the constructive courses of action which constitute the main planks of the party concerned. The British Broadcasting Corporation has permitted action along these lines. Radio in Britain has been made the medium on a number of occasions for direct explanations to the British electors of party policies. Further, the British Chancellor of the Exchequer has used radio for a concise explanation of the main points of his Budget. In the past New Zealand has been careful to preserve the air from controversial politics. We think, however, that in the national interest the time has come when a considered experiment might be made of allowing the principals of each party to address the electors over the air.

Sympathy from Japan Workers' Educational Association Talks

Arranged for 1YA

EVIDENTLY inspired by a "fellow feeling," the following, as a genuine expression of sympathy with radio listeners affected by the Hawke's Bay earthquake, would be difficult to excel. It comes from a well-known correspondent in Japan, Mr. M. Nakamura, and

A SERIES of twelve fortnightly talks on "Questions of the Day" will be broadcast from 1YA, beginning Tuesday, March 24, at 7.40 p.m. The speaker will be Mr. N. M. Richmond, B.A., Director of the W.E.A. in Auckland.

The talks will be in two series of six each, and listeners who are interested will be supplied with fairly full notes at a small charge. The talk on March 24 will be introductory, and those which follow will deal with the topics of democracy, unemployment, civilisation in America, art in everyday life, rationalisation of industry, thus completing the first series.

Listeners who find the first talk interesting should write to the Auckland office of the W.E.A., Old Grammar School, Symonds Street, for information about the series as a whole. At last year, facilities will be provided for the formation of discussion groups among listeners on the basis of the notes that will be issued.

The first talk will take a wide sweep, mentioning briefly some of the problems of to-day in the fields of economics, politics, art, and civilisation generally, and will inquire into the reasons why progress appears to be so slow. It will suggest that many of our social habits and institutions have not changed sufficiently in response to our changed environment, and that many vital instincts which used to find expression in these institutions are now in danger of suppression.

Notice to Readers

No Increase in Subscription Rates

READERS will have noticed the drastic increase in postal rates recently imposed. The doubling of rates and the addition of a weight limit on newspapers imposes a very heavy extra burden upon all journals that have been using the postal services.

In the case of the "Radio Record," however, we have gone closely into the position, and are pleased to be able to advise our regular subscribers who receive the paper by mail, that it is NOT our purpose to increase our subscription rate. This will remain at 12/6 per annum, post free, for prepayment. The increased costs that we have to meet will be met by drastic internal economies and readjustments.

is addressed to Mr. A. R. Harris, General Manager of the Broadcasting Company:—

"Our Press reported that there has been a severe shock of earthquake in your land. I write in haste to ask if your Radio Stations are all well. I sympathise with you and your listeners, sincerely, in the quake district, on the sad events."

WHY?

Kingsford Smith uses Burgess Batteries. Commander Byrd uses Burgess. More Burgess Batteries are sold in New Zealand than any other make. Why?

BURGESS RADIO BATTERIES

HAVE you renewed your subscription to the—

"Radio Record and Home Journal?"
12/6 in Advance; 15/- Booked.
Box 1032, Wellington.

Broadcast Innovation

B Station Relays 2YA

FOR the first time in the history of broadcasting in the Dominion, an "A" station was relayed by a "B" station when, on March 11, 2ZF, Palmerston North, relayed the programme of overseas recordings from 2YA, Wellington.

This innovation was the result of a decision of the Broadcasting Company made about a month ago when it was realised that relays of this description would give additional service to listeners-in. Owing to the Napier earthquake a line was not available until last Wednesday, but in the future it is hoped that the relay will be a weekly fixture.

The reception in the Manawatu, according to reports, was clear, with ample volume.

Radio in the Jungle

Keeping In Touch With Civilisation

THE directional antenna at station KDKA, Pittsburg, used for communication with Byrd at the South Pole, has now been arranged to point to South America, and messages will shortly be broadcast to members of the Matto Grosso Expedition in the heart of the South American jungle.

The explorers intend to keep in short-wave touch with the outer world when they are as far as 2500 miles up the Paraguay River. Special messages from relatives and friends will be transmitted on short waves from KDKA every Saturday night, and also relayed on the normal broadcast wavelength.

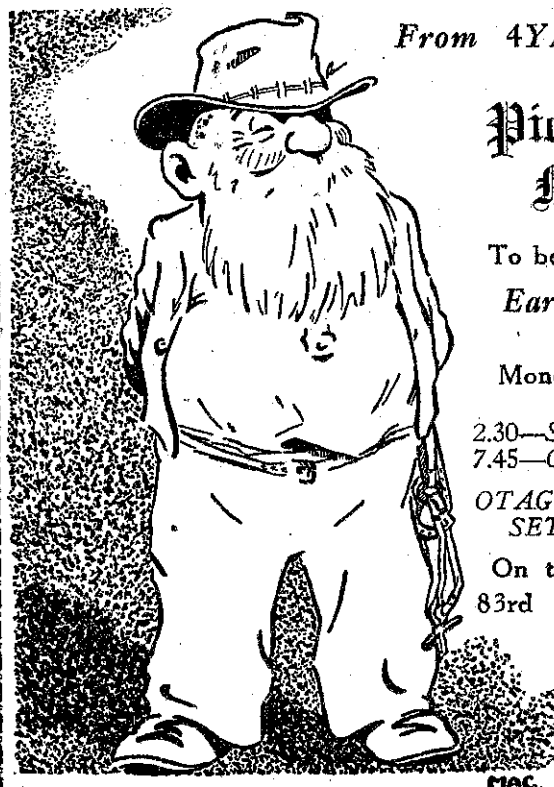
Story of 'Quake Heard by Radio in U.S.A.

THE following paragraph, published by the "New York Times" within twenty-four hours of the recent terrible earthquake, provides a forcible illustration of the distance annihilating qualities of radio:

"Perry W. Esten, radio amateur, said to-day he had received a message that 100 persons had been killed at Napier, New Zealand, by an earthquake.

"Esten, operator of short-wave station W8BOX, said the message was received from short-wave station ZL3OM, in New Zealand, under perfect reception conditions. He talked with the New Zealand station from 1.30 until 2 this morning, signing off when the New Zealand operator said he wished to get in touch with nearby stations to summon aid.

"The earthquake rocked many towns along the entire North Island district, Esten was informed, causing most serious damage at Napier. Here 59 oil tanks on the water front were set ablaze, the flames spreading inland and sweeping over the city. Doctors and nurses, said the radio message, were being rushed to the scene by water."



From 4YA, Dunedin

Pioneers' Night

To be Relayed from
Early Settlers' Hall,
Monday, March 23

2.30—Speeches & Music.
7.45—Concert arrgd. by

OTAGO EARLY
SETTLERS' ASSN.

On the occasion of
83rd Anniversary of

Otago
Province

Interference Problem at Denniston

Listeners Form Radio Society

A LARGE meeting of radio enthusiasts was held at the Denniston Hall on Thursday evening, March 5.

The chairman explained that the meeting had been convened at the request of licensed owners of sets and dealers. For some considerable time reception had been poor, due almost entirely to local interference, in the form of howling, and to the effect of battery chargers being used during broadcasting hours. The purpose of this meeting was to devise ways and means of relieving the position, to request the authorities that some regulations be framed to give local radio inspectors authority to examine sets when there was suspicion that they were the cause of interference.

Were a society set up it would receive more recognition through its members than an individual responsible to the department. Some correspondence was read, showing there was no regulation to enable the local postmaster to deal with any offender. It was explained that there were 57 licensed radio set owners at Denniston and Burnett's Face, who were paying an annual fee of 30/-, and that in the majority of cases the sets owned by these ran into from £40 to £90, and that of late it was common for all to forgo the use of their sets through local interference.

The Broadcasting Company was powerless to assist, as were the Postal authorities, owing to there being no legislation to assist them.

Mr. W. Hanstock moved that a Radio Society be set up, this being seconded by Mr. W. Henderson and carried unanimously. The following were elected to the official positions:—Chairman, Mr. J. Brownlie; secretary, Mr. W. Hanstock; committee, Messrs. J. Adam, S. Morrow, G. Curry, H. Smith, V. Hanstock and Whitehouse, with the chairman and secretary as ex-officio members.

Mr. Hugh Smith suggested that there were several present who were thoroughly qualified to examine sets and by their findings be of considerable assistance to owners of sets who were not conversant with the technical side of radio, and he felt sure the latter would welcome advice and services. In many instances it would be found that those who were offending were doing so quite unconsciously. The meeting decided to appoint Messrs. H. Smith and V. Hanstock, who will, in company with the postmaster, call on all set owners on the Hill.

It was decided that the secretary communicate with the Postmaster-General, through Mr. H. E. Holland, M.P., and the Radio Broadcasting Company of New Zealand Limited, requesting that legislation be enacted to deal with local interference of all de-

scriptions which handicaps radio reception.

An effort is to be made for the establishing of one or more transmitting stations on the Hill. The wisdom of this latter idea was shown in the Hawke's Bay district during the disastrous earthquake recently, when it proved the only means of communication with the outside districts after the failure of the ordinary means of telegraphic communication. The society is very much indebted to Mr. Curry, the local postmaster, for his attendance and information and willingness to assist in every possible manner as local radio inspector.

In connection with the above the committee appointed at once set to work. In the first ten sets inspected one was found to be causing a great deal of interference. It was also found that two battery chargers were being used and the owners were requested to confine their use to outside broadcasting hours. A method of preventing interference from the vibratory type of battery chargers was also suggested. The committee is inspecting all the sets in the district.

Special French Radio Tax

A Listener's Difficulty

IN addition to the usual radio license fee, every set owner in France must make a declaration at the nearest post office and make a payment of sixpence. An English contemporary thus describes a French listener's experiences while endeavouring to pay this imposition.

"The girl who attended to him informed him that he was the first person to ask for a declaration form during the two years that she had been at the post office. After making a thorough but unsuccessful search, she consulted her senior colleagues, whose efforts were also fruitless. The would-be taxpayer was then requested to call again in a few days' time, when the form would be available. This, he remarked, he intended to do, and declared his determination to pay the tax, even if he had to visit every one of the 128 post offices in Paris."

It appears that there are instances where listeners have paid this tax, but these are very few in number, and no cases are known of any listener getting into trouble for not paying.

Czecho-Slovakian Radio

THERE are now 293,000 listeners in Czechoslovakia, and it is expected that the 300,000 mark will be reached shortly. To mark the event, the Czech broadcasting authorities will make a presentation to the 300,000th listener.

YOUR BAGGAGE
INSURED against loss
or damage from any cause

The premium is moderate
the cover is **WORLDWIDE**
Offices in all principal towns
and cities throughout New Zealand

**NORTH BRITISH & MERCANTILE
INSURANCE CO. LTD.**

A MEETING of the IYA Musical and Dramatic Committee was held at the Auckland studios of the Radio Broadcasting Company of New Zealand Ltd., France Street, on March 6 at 8 p.m.

There were present: Mr. A. B. Chapell (in the chair), Dickens Fellowship; Mr. C. B. Plummer, Auckland Choral Society; Mr. F. M. Price, Aeolian Orchestra; Mr. J. F. Montague, Auckland Comedy Players; Miss G. Bertram, New Zealand League of Penwomen; Mr. L. C. Barnes and Mr. H. C. Trim.

A letter was received from Mr. Karl Atkinson tendering his resignation of membership of the committee, and a motion was carried expressing regret at Mr. Atkinson's resignation and expressing appreciation of his many fine services to the station and committee; also, he was congratulated on his appointment with the Broadcasting Company.

It is announced that a series of concerts will be given every month by the Auckland Society of Musicians, the Savage Club Orchestra and the Orphans' Club Orchestra.

A deputation consisting of Mr. W. A. Cocker and Mr. N. M. Richmond, of the Workers' Educational Association, attended the meeting and put forward a scheme for adult education over the air. Considerable discussion took place, and the deputation was asked to bring down a definite basis, on which the committee could work for presentation to the company.

Very many interesting suggestions were made regarding programmes at the station, particularly with reference to a series of lecture-recitals on "Modern Music."

The next meeting of the committee will be held on April 10, 1931.

2YA Children's Sessions Advisory Committee.

PASTOR W. G. CARPENTER ("Uncle George") was chairman at a meeting of the 2YA Children's Sessions Committee held on Tuesday, March 10, when there were present:—

Miss Thornton (Teachers' Training College), Miss Wilson (Wellington Free Kindergarten), Mr. W. E. Howe (Sunday Schools' Union), Mr. Mabin (Boy Scouts), Mr. R. Walpole ("Uncle Toby"), Mrs. Basham (organiser Wednesday children's session), Mr. G. W. Morgan (Radio Children), Mrs. D. Evans (children's session organiser), and Mr. J. Ball.

Apologies for absence were received from Mrs. L. Sommerville and Mr. L. Greenberg, Mr. Melville and Mr. W. A. Andrews. Mr. A. R. Harris wrote expressing his appreciation of the services rendered by the members of the committee during the year.

Pastor Carpenter reported that he had completed all arrangements for the special Anzac Day session. Re-

Advisory Committees Meet

References to Quake Services

ports were received from Miss Wilson and Mr. Andrews, official visitors to the studio during the children's sessions. Reports from the organisers were also received and discussed.

Referring to the earthquake, Miss Thornton said she desired to place on record her appreciation of the service rendered by 2YA. "I happened to be in Palmerston North," she said, "and was interested in organising a play centre for refugee children. I dropped a note to Mr. Ball telling him that we should very much like a rocking-horse and some toys. The response was wonderful. We received four beautiful rocking-horses and quite a lot of toys. We were in what might be called a little kindergarten shelter at the time. It was a wet day. There was a group of mothers sewing and a number of little children all more or less depressed and too nervous to 'make friends' and play. Then an ambulance arrived, its back door was opened, and out came a magnificent rocking-horse and some parcels of toys. It was an enthralling moment, and from then on the children played together happily."

In closing the meeting, which was the last to be held by the present committee, the chairman remarked: "Before we part I should like to express my appreciation of your co-operation during the year just ended. We have reached many decisions, and numerous important changes have been made. It has been a year of progress so far as the children's section is concerned. Our deliberations have been marked by a spirit of harmony and a desire to achieve good results. I trust that next year we shall all be associated in another year of excellent work."

3YA Musical and Dramatic Committee.

A MEETING of the 3YA Musical and Dramatic Committee was held on Wednesday, March 4. There were present:—Mr. T. W. Dent (chairman, representing the Orchestral Society), Mr. W. H. Dixon (Royal Christchurch Musical Society), Mr. S. Williamson (Musicians' Society), Mr. Geo. Manning (W.E.A.), Mrs. K. Hartshorn (Repertory Theatre Society), Mr. J. Mackenzie, Mr. C. S. Booth (head office). Apologies for absence were received from Dr. A'Court and Mr. R. J. Loughnan.

In reference to the Alfred Hill programme the station manager explained that owing to the difficulty experienced in procuring the music, no date had yet been fixed for the concert.

Reporting on the concert programmes, the station manager referred to the open-air entertainments which had been given during the summer and which could conclude with Summer Time on Sunday, March 15. These concerts had been very successful. A great deal of interest had been taken in a dance programme in St. Alban's Park, two to three hundred people dancing on the green at a time.

The question of regularly broadcasting W.E.A. talks was brought up and discussed. A resolution was

Special Broadcasts of Otago Anniversary.

The 83rd anniversary of the founding of Otago is being celebrated on Sunday, March 22, and Monday, March 23. On the evening of Sunday, a service is to be held in First Church, which will be attended by the Mayor and City Councilors, members of public bodies along with early settlers and descendants. On Monday special functions will be held in the Early Settlers' Hall, both afternoon and evening. All the proceedings will be broadcast by 4YA.

passed: "That the company consider the advisability of broadcasting debates on subjects of immediate public interest." Congratulatory references were made to recent rebroadcasts and to the service rendered by the station during the earthquake crisis.

3YA Children's Sessions Committee.

A MEETING of the 3YA Children's Session Advisory Committee was held on Monday, March 2, when there were present:—Mr. W. A. Rumbold (Headmasters' Association), Mr. A. J. McEldowney (Y.M.C.A.), Mr. E. J. Ward ("Uncle John"), Mr. D. Dickson (Junior Scottish Society), Mr. J. Mackenzie (Station Director), Mr. C. S. Booth ("Chuckie"), Mrs. J. Schenkel (Mothers' Union), Mrs. R. Tomlinson (Society for the Protection of Women and Children), Mrs. R. J. McLaren (National Council of Women), Mrs. D. James (Welsh Society), Mrs. W. H. Meddings (Y.W.C.A.), Mrs. B. M. McEachen ("Cousin Beatrice") and Miss M. Hall (secretary). In the absence of Mr. D. E. Parton, Mr. Rumbold was voted to the chair.

The principal subject for discussion was the recent Radio Picnic, which was declared by all to have been an unqualified success. Mrs. Meddings reported on her visit to the studio during the children's sessions. Mrs. James, Mr. McEldowney and Mr. Rumbold were appointed visitors for the month. Discussing the children's song services on Sunday evenings, it was decided to ask representatives of

the various denominations to confer with the committee.

4YA Musical and Dramatic Committee.

UNDER the chairmanship of Mr. H. P. Desmoulin (representing the Dunedin Choral Society), the 4YA Musical and Dramatic Committee met on Friday, March 6, there being present:—

Mr. P. S. Anderson (Returned Soldiers' Choir), Mr. H. Himburg (Dunedin Philharmonic Society), Mr. J. Crossley Clitheroe (Teachers' Training College Choir), Mr. L. Ross (Workers' Educational Association), Mr. J. Butler (Royal Dunedin Male Choir), Mr. A. Cook (Dunedin Burns Club), and Mr. A. F. O'Donoghue.

Apologies for absence were received from Mr. Osborne and Mr. Max Scherek.

Congratulatory reference was made to the standard of the announcing on the occasion of the Sanders Cup broadcasts, and it was stated that the announcer was Mr. Horace Camp, of Port Chalmers.

As the meeting was the last to be held by the committee as at present constituted (a new committee being appointed yearly), Mr. A. R. Harris, general manager of the Broadcasting Company, wrote expressing the appreciation of the Broadcasting Company at the work done by the committee.

The latter passed a resolution expressing "Appreciation for the opportunity of serving on this committee, and for the assistance and help that has been given us by the station directors. We record our appreciation of what has been done for us."

In regard to the New Zealand programme, the programme organiser reported that the matter was well in hand, but that some more items were required.

The station manager reported on the work of the past month and of broadcasts proposed. A number of special sporting broadcasts had taken place, and every effort was being made to cover all such events. In regard to musical entertainment, every possible endeavour to marshal all available talent was being made.

Following on a discussion consequent on a suggestion by Mr. Clitheroe that something of an educational nature in respect to music should be introduced into the children's sessions, a resolution was passed "That the Children's Advisory Committee be recommended to invite Mr. Clitheroe to their next meeting, so that he might explain his ideas with regard to musical chats for children."

A further resolution recommending that Mr. Clitheroe give a talk on music to the adult radio audience was also carried.

PORTABLE RADIO SETS

for

Holidays and Camping

5-Valve Sets, complete £16/12/6

Transportable Models £21/5/-

Unspillable Accumulators, B Batteries, etc.

A. E. STRANGE

Telephone 36-774

404 WORCESTER ST., CHRISTCHURCH.

Did YOU see our
List of

RADIO

BARGAINS

in last week's Record?

Sale Still Continues

Don't miss these remarkable Savings!
Post Your Order To-day!

RADIO SUPPLY STORE

HIGH STREET, AUCKLAND.

The Prince of Wales Opens Exhibition

Successfully Rebroadcast by All Stations.

IN the early hours of Sunday morning all the YA stations went on the air to rebroadcast the Prince of Wales' speech and formalities in connection with the opening of the Industrial Exhibition in the Argentine. Fortunately conditions were exceptionally good, and the relay was one of the best of its kind that has ever been put over. The Prince of Wales, who spoke first in English and then in Spanish, was heard perfectly. There was a slight gushiness, but only in a few cases did this prevent any of his words being received. The opening selection, "God Save the King," and the concluding, "God Bless the Prince of Wales," came through as though played in the studio.

The whole performance reflects great credit on all those who were connected with it. It was relayed through America and England on extensive hook-ups and was one of the biggest relays ever carried out.

Laboratory Jottings

The Reesonator

WE have received from L. B. Scott, Ltd., Christchurch, a Reesonator, and during the last few weeks had an opportunity of trying this on several sets.

The Reesonator is a compact device which is fitted usually in series with the aerial and the aerial binding post of the set. The apparatus is small and well finished.

Due to the single dial control it is not always possible to have fullest efficiency from all four stages such as one finds in a normal a.c. receiver. The Reesonator tunes the first stage and adjusts it to any length of aerial. We shall not here enter into the internal construction of the device, but rather state the results obtained with it. In this respect our tests were conclusive, for when the set and the Reesonator were both balanced up the measured signal was greater than without the device. This improvement was apparent to varying degrees over all frequencies. It sharpened selectivity, but not to the extent by which it improved sensitivity. Adjustments have to be made on every station tuned in.

The Reesonator is theoretically sound, and in practice the theoretical conclusions are justified. It is, of course, of no use with multiple dial receivers, nor upon certain receivers which incorporate a balancing condenser in the aerial circuit. The New Zealand agents supply a list of the sets for which it is recommended, but it can be used to advantage with certain other sets.

KNOW the time all over the world with a

DX Clock.
9d. Each.

Children's Sessions

AT 2YA.

Monday, March 23: Another delightful programme from the pupils of the Kilbirnie Convent to-night. Uncle Jeff will be here with riddles for them to guess.

Tuesday: Miss May Walters is bringing a band of cousins to entertain us to-night. Betty is going to tell us "How Daddy made the Jam," and there will be a "Russian Dance" on the piano. Uncle Toby and Jumbo will act as the Fairy Birthday Post-men.

Wednesday: The second of the Meeting Pool Stories to-night, so be sure to listen-in. The "Cheerful Chirpers" will sing "Chin Chin Chinaman" and another song called "Peg Away." Birthday greetings, jokes and stories as usual.

Thursday: Big Brother Jack and Uncle George will be the guests of honour at two little plays which are being performed before the microphone by the pupils of Mr. Clement May. They are adapted from "Little Lord Fauntleroy" and "Through the Looking Glass."

Friday: Here come the Rongotai College Boys, with their leader, Uncle Noel, who conducts their chorus work. Story Book Man and Uncle Jim will be present.

Saturday: A Fairy Sprite from the Magic Kitchen is arriving this evening in a Magic Balloon, to take Aunt Molly and Uncle Jasper to Flandribery Heights. When twelve o'clock strikes the kitchen utensils will all come to life and entertain their guests.

Sunday: St. Matthew's Anglican Church Children's Choir, under Miss Whitcombe, will help with the song service, which Uncle George will conduct.

AT 3YA.

Monday, March 23: A bevy of little pupils from Mrs. Williams's Studio are here to make a merry noise for you! Cousin Margot, and The Mystery Man trying to keep them all in order.

Wednesday: "Uncle John" has the Young Wales League helping him this evening, so you may expect something good in the way of songs and part-songs.

Thursday: Here is Uncle Frank in charge to-night, and with Cousin Beatrice and her little singers will keep you interested till 6 o'clock chimes, and then "Good-night" all around.

Friday: To-night we have the Young Internationals—and do ye ken who they are? Why, the young Scottish folk. And then Chuckle and Peterkin will have some fun together, and if you listen you may join in, too.

Saturday: "Mother Hubbard" is looking after the Cupboard this evening, and it isn't bare at all, for there will be many little singers to make it gay and jolly. Will you listen-in to-night?

Sunday: The Children's Song Service this evening will be conducted by The Presbyterian Sunday School.

Earthquake Fund

WE have received a further donation of £1 to the "Radio Record" effort for the earthquake fund from R. Northwood. This has been handed to the Mayor of Wellington's Fund, making the total received from the special concert effort of radio performers £63 12s. 6d.

Our Mailbag

Quarterly License Payments.

THE time is drawing near for the renewal of radio licenses and in this connection I would like to make an inquiry. I desire very much to continue listening, for I think radio is an excellent antidote to the despondency that seems to be in the air these days. However, in common with many other people in these times, I have not too much money to spare, and would like to know if the Postal authorities would consider a quarterly payment of the license fee. This I can manage, but I am afraid 30/- in a lump sum is beyond my present limited resources.—"Croesus" (Auckland). [We would advise you to state your case to the postal authorities.—Ed.]

2YA's Seasonal Fading.

IN last week's issue a correspondent inquires if 2YA has been fading. It has been, badly, and the distortion was painful to listen to. This has been happening for the last two or three weeks, and is getting worse.—"Fixit" (Linwood).

[Every year about this time we receive numerous complaints concerning fading and distortion from 2YA. This is definitely due, not to any defect in transmission, but to seasonal effects. You have perhaps noticed that reception is worst just at dusk. At this time of the day in succeeding belts of approximately every 100 miles distant from 2YA, the sky waves reflected from the Heaviside layer arrive out of phase with the ground waves. This is due to the discrepancy in the length of the two paths traversed. In the daytime, however, your signals are derived mainly from the ground wave, and at night, from the sky above, hence the distortion is slight and scarcely noticeable. At the transition period, between daylight and dark, however, the signal strength is derived from both waves equally, and fading and distortion is at its worst. Twilight at this time of the year is protracted, and hence the effect is much more noticeable.]

Of Topical Interest

THERE is still far too much electrical interference on wavelengths shorter than about 300 metres, in the Mount Victoria area of Wellington. One particular bugbear listeners in that area are complaining about is a regular pulsating noise as though it emanated from some electrical motor. One experienced electrician suggests it comes from an electrical pumping plant.

THE question has been asked "Switch" whether the racing bodies in Australia permit a running description of the races to be relayed by the broadcast stations. The interrogator adds that certain New Zealand dailies have published news to the effect that the racing clubs in Australia bar broadcasting. Nothing could be further from the truth. Running descriptions of the races at all the principal meetings are put on the air by the broadcast stations. Mr. Eric Welch describes the running at all the Melbourne meetings.

THERE are now twenty-two trains on the State Railways in France that are equipped with wireless, enabling travellers to listen to concerts broadcast from French or foreign stations or from a gramophone on the train itself.

Connecting a Pick-up

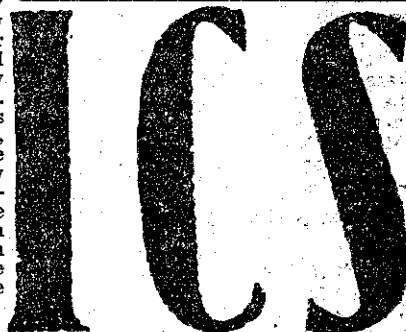
A Correspondent's Difficulty

EIGHTY-TWO (Christchurch): I wish to connect a pick-up to my commercially-made set which uses a 227 detector, resistance coupled to the first audio and power detector.

A.: When power detection is used you cannot connect the pick-up to the detector valve as in leak detection. It must be coupled to the first audio by connecting one lead in the grid circuit and the other to earth. If the pick-up is connected to a 3:1 transformer results will be greatly improved.

(We note your ultimatum at the bottom of the letter. We refer correspondents to dealers only when we consider that any explanation we might give would be inadequate to meet the particular case. In cases like this to suggest that correspondents interfere with their sets is really asking for trouble. It is not necessary to tell us not to refer you to a dealer.)

THREE hours after a San Francisco newspaper was printed, persons in Schenectady, 2500 miles distant, were reading a facsimile of the front page, which had been flashed across the country by wireless and reproduced in full size. The pictures were all well produced, and every word of the typescript was readable.



CHRYSLER is one of many world-famous Engineers who are I.C.S. STUDENTS.

EDISON says: "May the world soon come to know the value of an I.C.S. TRAINED MAN."

The I.C.S. Illustration Method makes home study practical.

**International
Correspondence Schools**
(NEW ZEALAND) LIMITED

"Wakefield Chambers,"

1822 Wakefield St., Wellington.

Sir,—Please send me free prospectus giving full particulars of all branches of the profession or occupation before which I have marked X (if your subject is not on this list, write it here).

—Architect,	—General Bookkeeper,
—Mech. Draughtsman,	—Station Bookkeeper,
—Structural Eng'g,	—Salesman (any branch)
—Concrete Contractor,	—Show Card Writer,
—Building Contractor,	—Advertiser (any branch)
—Carpenter,	—Com. Illustrator,
—Plan Drawer,	—Jeweller (any branch)
—Ship Engineer,	—General Education,
—Ship Operator,	—Language (G'phone)
—Motor Engineer,	—Special Examinations
—Motor Mechanic,	—Accountant (Inst. Ex.)
—Electrical Engineer,	—Matriculation,
—Elec. Mech. Exams,	—Intermediate,
—Mechanical Engin'g,	—Dental Prelim.
—Mines Electrician,	—Public Service,
—Aeroplane Engin'g,	—Special Women's Dept.
—Aeroplane Rigger,	—Dyeing,
—Textile Expert,	—Millinery,
—Plumber,	—Shorthand-Typing,
—Mathematician,	—Bus. Correspondence

(There are over 4,200,000 I.C.S. Students, over 26,000 of these being in New Zealand).
ENQUIRIES COST NOTHING—POST NOW

Name.....
Age.....Occupation.....
Address.....

"SWITCH" has a good word to say for the new Gisborne B class station, which has been coming in loudly and clearly during the past week or so. The modulation is excellent and volume surprising, considering that the station is 250 miles from Wellington, and separated from it by several ranges.

THE French announcer at one of the Saigon (Indo-China) shortwave broadcast stations is extremely polite. The other night, or rather, early in the morning, "Switch" was listening to a Saigon station when the announcer remarked at the conclusion of his "turn," "Au revoir, ma'mselles; au revoir, mesdames; au revoir, m'sieurs." He then beat a gong, and relinquished the microphone in favour of an Indo-Chinese announcer, whose French had a distinct Oriental accent. Native music was then put on the air.

WITH regard to this station, the French announcer stated in perfectly clear English, before going off duty, that the time was then "seventeen minutes to nine o'clock." "Switch" glanced at his watch, and was astonished to find that it was then about 25 minutes to 2 in the morning, New Zealand time. This short-wave listening is certainly intriguing, and to one engaged in listening to music in far-off lands, time seems to have wings. The Saigon station put on many delightful gramophone records of French instrumental and vocal music.

THE Indo-Chinese music broadcast by the station mentioned above is typically Oriental. The orchestra appears to comprise a Chinese fiddle, flute and guitar. There is one decided drawback, and that is the fact that the musicians do not appear to know when

to stop. The various selections seem interminable, and after ten minutes' performance of one item one becomes bored with their monotony. The tempo of the native music is generally presto, but with a marked rhythm.

THE foregoing reference to reception across land, with its implication that radio waves do not carry so well over land as over water, brings to mind a statement by an American journal to the following effect: It has been proven that when a number of listeners in the same area are tuned in to the same station, reception volume is increased in the case of each listener. Tests were made with reception from a certain station at a point over water and at various points on land. It was found that where receiving aerials were more numerous, reception was loudest.

A FEW of our New Zealand "hams" observe very late sittings, and long after midnight lately "Switch" has

heard them talking on 'phone, between gramophone items. One Wellington amateur transmitter is most persistent in his desire to perfect his short-wave transmission of gramophone records, and he is loyally assisted by a country colleague who checks up the former's transmission. It is not unusual for these two to be on the air long after 1 a.m. "Switch's" tribute to the excellence of the said ham's gramophone transmission is tendered with all due humility.

FORTNIGHT ago last Sunday "Switch" was listening to a Wellington amateur talking on 'phone to a Hastings "ham," when the former ejaculated that there was an earth-

Reception Table for Australian Stations

FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2BL, Sydney	10
2NC, Newcastle	10
4QG, Brisbane	8
3LO, Melbourne	9
3AR, Melbourne	8½
7LA, Launceston	6
3DB, Melbourne	7
2GB, Sydney	7
2UE, Sydney	5½
3UZ, Melbourne	6
7ZL, Hobart	5
5CL, Adelaide	3½
6WF, Perth	2
2KY, Sydney	1½

The above figures are the points assessed, with 10 as the maximum.

quake in progress. "Switch" had not felt the 'quake, but he looked up and saw the electric globe swinging.

THE vagaries of the ether have accounted for an unusual amount of fading on the part of 2FC, Sydney, lately. 2FC for a long while had been above reproach in that respect, but recently it has suffered much fading and consequent distortion. These conditions may account for the recent complaint from Southland that 2YA, Wellington, had developed unusual fading.

LISTENERS who seek their entertainment from across the Tasman could not fail to have noticed the marked improvement in reception dur-

ing the past week. The Australian stations have been coming through with an all-round increase in volume. Perhaps the most improved stations have been 3AR, 8UZ, and 8DB, Melbourne, and 2NC, Newcastle. All Australian stations, however, have increased in volume. For instance, 7ZL, Hobart, the other night relayed a theatrical play, and one could hear every word from the stage.

IN the metropolitan and suburban area of Sydney there is roughly one radio set to every two households. The country people in New South Wales, however, have not responded in anything like the same proportion as the city folk. It has been pointed out, on the other hand, that city residents, owing to their proximity to the main broadcast stations, are able to use inexpensive receivers such as crystal and one and two-valve sets.

A DESCRIPTION of the civic reception by the Lord Mayor of Sydney to Lord and Lady Baden-Powell will be broadcast from the Sydney Cricket Ground by 2FC Sydney, at 11.30 a.m. on Wednesday, March 18. This will be equivalent to 1 p.m., New Zealand time. Some New Zealand listeners who are favourably located will be able to hear the broadcast.

AN old-time nigger minstrel show, complete with two corner men and an interlocutor, will be broadcast by 2FC, Sydney, on Thursday evening, March 19. The minstrels will be directed by Wal Rockley, an "old-timer" who has been producing these shows for a number of years, and has taken part in practically every minstrel show in America. He commenced his career with Billy Emerson, the world-famed minstrel of many years ago, and was associated in Australia with Frank Clark's "Silk Stocking Minstrels." The company will include Ward Lear, a burnt-cork comedian who has toured the New Zealand vaudeville circuit several times; Walter George, also well-known in New Zealand. Will Raynor, Sheldon Green, and George Martin.

A BAND which was given an enthusiastic reception in New Zealand some years ago, the Newcastle Steelworks Band, conducted by Mr. H. E. Kerry, will contribute several numbers from 2NC, Newcastle, on Saturday night, March 21. It will be remembered that this band toured England and was successful in winning the £2000 trophy in the Manchester Bell Vibe Champion Brass Band Contest.

ONE of the most attractive programmes yet heard from Australia by the writer was picked up from 3AR, Melbourne, last week. A number of items was given by the Prahran Band, which some time ago achieved fame by winning the championship of Australia. This combination has lost none of its brilliancy, and it was a pleasurable experience to listen to its programme. The transmission from 3AR Melbourne was rich in tonal qualities.

COMMUNITY singing in Hobart has been heard lately from 7ZL. The singing, however, cannot compare with the standard of the more practised efforts of the good people who attend the Ashfield Town Hall, Sydney, on Monday nights. The conductor at Hobart cannot compare with that prince of jesters, Mr. Charles Lawrence, who officiates at the Sydney community singing.

Cut out Battery Costs with a LISSEN H.T. ELIMINATOR

A Lissen H.T. Eliminator provides your radio with a steady flow of "B" current, giving maximum voltage at all times. Eliminates the need of "B" batteries with their attendant troubles and expense.

There's a model for either D.C. or A.C. mains.

A.C. Type A.....£4/5/-

A.C. Type B (with voltage controls) £5/10/-

Both for operation on 230 volts A.C.

D.C. Type A.....£2/2/-

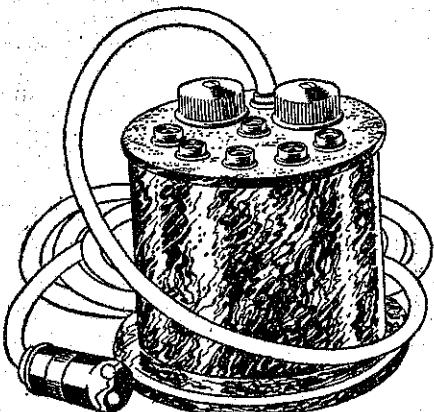
D.C. Type B (with voltage controls) £3

For operation from 230 volts D.C. Suitable for sets using up to 4 valves. See your nearest radio dealer to-day and ask him for full particulars; or write to the—

N.Z. Distributors:

ABEL, SMEETON, LTD.,
27-29 Customs Street East,
AUCKLAND.

Model D.C., Type B.



MR. COLIN TRIM, programme organiser at 1YA, will be away on annual holiday from March 16 to 30, Mr. Len Barnes taking over his duties in his absence.

THE position of radio listeners in areas served only by direct current was discussed at the last meeting of the Auckland Electric Power Board. It was stated that a number of complaints had been received from set-owners in the Epsom district, who stated that they were unable to operate their sets without employing a converter, which cost about thirty pounds. A member of the board asked whether it would be advisable to reduce the cost of power to such consumers or whether an extension of the alternating current area would be made in the near future. The general manager said that the cost of extending the alternating current area was too great, but that as soon as the number of consumers in this district warranted the change it would be made. In the meantime listeners supplied with direct current only must use converters.

THE "B" class station, 12H Hamilton, resumed regular broadcasting on March 9, after having been closed down for a few weeks. The Waikato station puts out good programmes, and is much appreciated by listeners in the neighbourhood.

THE Salvation Army will have one of their services broadcast for the first time in Auckland on Sunday, March 22. Hitherto the Salvationists in Auckland, unlike other religious

bodies, have held aloof from the microphone, but now that they have decided to have a service broadcast they will quite possibly make it a fairly regular practice.

ARRANGEMENTS have been made for the Orphans' Club Orchestra, under Mr. Harold Baxter, to give a series of concerts from 1YA during the next few months. This orchestra has about 45 members and has previously been heard by listeners on a number of occasions. Another series of concerts is to be given by the Savage Club Orchestra, under Mr. Archie Don, about thirty-five members taking part.

AUCKLAND listeners and musical circles will miss Mr. Karl Atkinson, who this week left for Christchurch to take up a position with the Radio Broadcasting Company. Mr. Atkinson has been closely associated with the Auckland station for some years, and since August, 1928, has been giving regular gramophone lecture recitals which have been greatly appreciated by listeners. He also represented the Auckland Piano Students' Association on the 1YA Musical and

Dramatic Advisory Committee. At 3YA Mr. Atkinson will supervise the arranging of gramophone programmes, and he should prove a decided acquisition to the southern station.

THE time for the renewal of receiving licenses is now approaching, and it seems probable to "Call Up" that many listeners in Auckland will find it no easy task to pay the necessary thirty shillings this year. It is not that they do not want to listen, far from it, but owing to so many being unemployed or having reduced wages, spare cash is harder to find this year than it was last. There seems to be a very general wish among a large section of listeners that the license fee could be payable in instalments.

THE first relay from outside Auckland for some time will be given by 1YA on March 25, when a concert to be given by the Whangarei Municipal Silver Band will be relayed from Whangarei. This band was relayed from its home town about eighteen months ago, the relay on that occasion proving most successful.

MISS PALMER, more popularly known as "Cinderella," who is the Children's Session Organiser at 1YA, is away on her annual holiday at present, and in her absence Miss Dorothea Ryan is carrying on.

ON the evening of March 31 the 1YA Broadcasting Choir will be heard in what promises to be a remarkably fine programme. They will sing choruses from "The Messiah" and will also give Gounod's "Messe Solennelle." Perhaps the most interesting part of the programme will be the presentation by choir members of a special radio adaptation of Longfellow's play "Evangeline."

THE Civic Winter Garden Orchestra will make their first appearance from 1YA on April 6. This is a fine combination of players with a great reputation, and it is to be hoped that they become regular broadcast artists.

A FORTUNATE acquisition to the ranks of local radio artists is Mr. Ralph Eskrig, who has sung several times from 1YA lately. His songs on Tuesday last were remarkably good.

FROM all accounts the radio trade in Auckland are finding business fairly satisfactory at present. In spite of depression many new sets are still being purchased, and by people who seem to favour the good and more expensive sets. Compared with the same season in other years there seems to be little wrong with the radio trade, and dealers, locally at any rate, have little to complain about.

BE SURE TO HEAR THIS SILVER - MARSHALL COMBINATION SET

It is an interpretation of Beauty and Quality of Radio Construction. Both Phonograph and Radio, but with greater and more versatile performance! Tone that will amaze you, greater selectivity that will delight you—reproduction of broadcast and recorded music that you have never thought possible.

Arrange a Demonstration To-day, and judge this marvellous instrument for yourself.

SILVER-MARSHALL RADIO SETS and RADIO PARTS

Short-wave Sets, Chassis
and Parts

THOS. BALLINGER &
CO., LTD.,

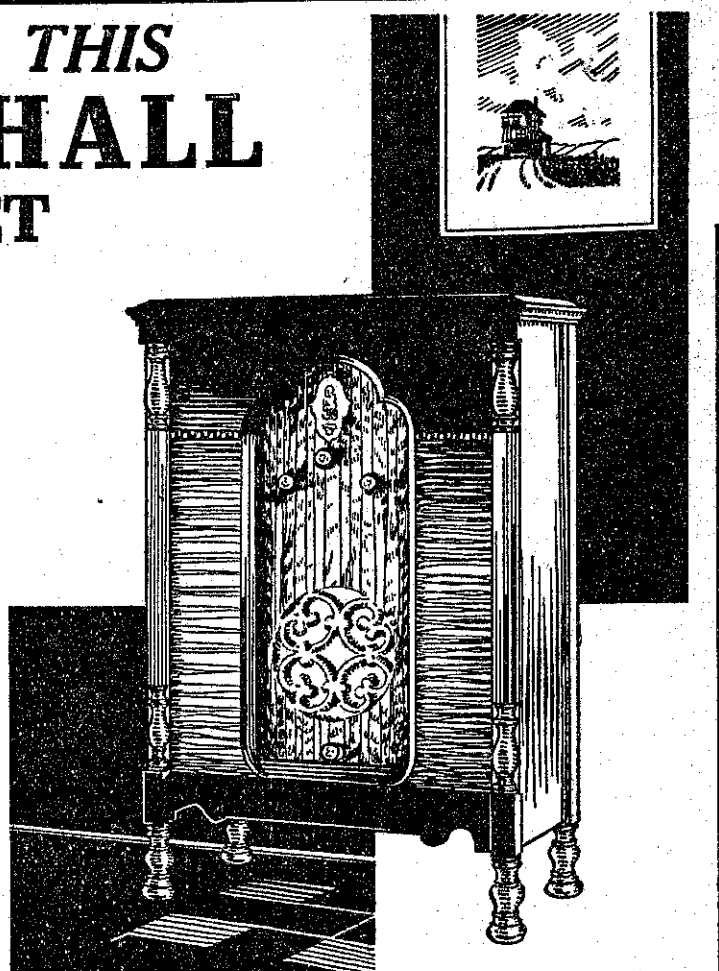
VICTORIA STREET,
WELLINGTON.

Complete S.M. Receivers
and Cabinets

FACTORY IMPORTS,
LTD.,

96 TORY STREET,
WELLINGTON.

N.Z.
Distributors:



Addresses and Addresses

Wanted

A. I.B. (Dunedin): W6DWV, H. O. Platt, 419 N. Santa Fe Ave., Hemet, Calif. Others not listed.

A. E.B. (Auckland): Would like the address of the European station on 277 metres (1083 k.c.).

WOULD N.C.G. (Oamaru) please forward us his address?

Identification Wanted

STATION heard between 2.45 and 3 a.m. on March 8. The announcer was describing a horse race, evidently the last of the meeting. The winning jockeys and horses were announced. A studio item was then given, and then the dividends announced for the last two races. Static prevented my hearing the call. Several more musical items were then presented, including the "Shepherd's Serenade," "God Save the King" was played, and the call again given, after which it was announced that the station was closing down until 7.30 p.m. the next evening. Dial reading, 73, two degrees above 2FO Sydney. Volume good, but static persistent.—"Novice" (Hamilton).

STATION on 4QG's frequency playing fox-trot, "Walking Down the Street." Signed off at 8 p.m. Correct address of WJDX is Lamar Life Insurance Co., Jackson, Mississippi.—"Bung" (Waikato).

WHILE listening to 2NC, Newcastle, on Sunday, March 8, I noticed a strong heterodyne whistle, so waited until they closed down, and then found another station on the same frequency. Music could be heard faintly.—"Query" (—).

STATION heard from 2 to 3 a.m. March 8, just below 3AR, Melbourne. Fading was bad, but although I could not get the call sign I heard music, and an announcement that the station was now going over to the racecourse. Then he gave a detailed description of some racehorses and mentioned the names "Phantom" and "Monte Bleu." He then

mentioned a disturbance at the starting post, and he subsequently discovered this to be due to the horses breaking away.—"L.H." (Invercargill).

ON Monday, March 9, about 12 p.m., a strong carrier with generator hum heard a few degrees above ZLW. No speech or music, but a noise every few seconds like a sawmill. Is this a frequency test, and what station would it be? Does 2ME or 3ME broadcast on relay on Monday evenings a number of items (vocal with pianoforte accompaniment), and choruses by girls' voices? At

the conclusion the operator calls "Hallo, Sydney," and then closes down.—"L.F.C." (Christchurch).

STATION heard on the morning of February 15 on approximately 1050 k.c. (286 metres) playing recordings. (Not 2ZO, P.N.) Another on 1140 k.c. (263 metres), also on recordings, and announcing during items. Time, 1.40 p.m. Also a Jap on 590 k.c. (508 metres), heard every night from 9.30 p.m. on. Could get no call. Reception from 2ZO, P.N., was R7.—"C.G.C." (Christchurch).

ON March 7 I picked up a station in Central America giving the call CM-LO, Santiago, Cuba. Is there such a station? [Our latest Call Book does not contain this call.—"Ed.]"

News and Views of the D.X. CLUB

Stations Identified

IN the issue dated Jan. 9 "Switch" mentioned a station on 484 metres (620 k.c.). Some thought that this was KZRM, Manila, but a recent verification I received proves it to be KGW, which operates on 483.6 metres (620 k.c.), with a power of 1 k.w. It is owned by "The Morning Oregonian." Operating hours are from 6.45 a.m. to 11 p.m., excepting Sundays, when they start at 8.30 a.m. Their sponsored programmes are by big

Concerning the DX Competition

Subsequent to a correspondent's suggestion, we have decided to divide New Zealand into seven districts, namely: Auckland, Taranaki, Hawke's Bay, Wellington, Nelson and Westland, Marlborough and North Canterbury, South Canterbury and Otago, and to present the winner in each district, apart from the winner of the DX Cup, a certificate acknowledging his success in his particular district.

advertisers such as Studebaker, General Motors, Palmolive, etc. They feature Cecil and Sally, and Amos 'n' Andy. They have a permanent staff of over 50 musicians and eight vocalists, and they also handle part of the N.B.C.'s relays from New York and San Francisco.—"Cromdale" (Otago).

"RED BIRD" (Wellington) and "Radio Boy" (Oamaru): Re inquiry on Feb. 20. You heard 2ZR, Hastings, through 2ZP, Wairoa. These two stations were on a two-way conversation.—"B.W." (Stratford).

J. P.C. (P.N.): Recent verification from J. JOAK states that they have a twin station operating on 490 metres (612 k.c.). "Ocol" (H.B.): You heard KGMB. They broadcast programmes by Japanese artists. A.M.H. (Tirau): KFWB, Hollywood, California, 316 metres (930 k.c.). "Oscar" (Marton): KPO, San Francisco, 441 metres (680 k.c.), and KFI, Los Angeles, 468 metres (640 k.c.). "Civic" (Cambridge): There is no New York station on 1320 k.c. You probably heard KGER, Los Angeles, on 1360 k.c. (220 metres). "S.G.V.4" (Otago): KYW, Chicago, Illinois, on 293.9 metres (1020 k.c.). I have heard him several times lately. I notice several times in "Questions and Answers" that listeners are told that an aerial of 150ft. is too long, yet it took 300ft. to win the DX Cup.—"M.B.S." (P.N.).

[A 300ft. aerial is hopelessly unselective, and would be useless for listeners in the neighbourhood of powerful stations. Again, long aerials are often responsible for noisy reception.—"Ed.]"

"DORIS" (Dunedin): Probably KFOX on 240 metres (1250 k.c.). "S.G.V.4" (Otago): 3BA, Ballarat, and 3GL, Geelong, both operate near that frequency.—"Amazon" (P.N.).

"UNCLE SAM" (Hastings): Probably KGMB. They usually outline the following day's programme before closing.—"W.L.P." (Pahiatua).

"OCOL" (Hawke's Bay): KGMB, who had a Japanese concert party there. I heard this broadcast and the announcer afterwards explained, "Foreign" (Wellington): Have you identified your foreign station yet? I can still hear two Mexican stations with call sounding like

XAAR and XEE. The former is probably XER, for my official list of Mexican stations does not give any four-letter calls.—"C.V.B." (N. Auckland).

"CANDIDUS" (Timaru): Station 2 degrees above 5CL Adelaide was WLW, not WVRA. I heard the same items and remarks about a new type of oil burner.—"Kowhai" (St. Martins).

A. M.H. (Tirau): Your clock must have been 13 minutes fast for 12.2 a.m. P.S.T. is 8.2 p.m. N.Z. Summer Time. Warner Bros. station, KFWB, Hollywood, operates on 950 k.c. (316 metres). "Oscar" (Marton): KPO, San Francisco, operates on 680 k.c. (441 metres), and KFI, Los Angeles, on 640 k.c. (468 metres). "Scion" (Timaru): Station on 950 k.c. (315 metres) is probably KFWB, Hollywood.—"Seven Kicker" (Okoroire Springs).

"BIG BILL" (Timaru): KGO, Oakland always closes down at 12 or thereabouts after giving the weather report. "Don't Forget Me in Your Dreams" is one of their closing items. Station one deg. above is KTM, Los Angeles. The announcer has a very deep voice and you evidently heard him when he was replying to letters re lost articles, missing people, etc. Your frequencies are wrong, however. KGO is on 790 k.c. (380 m.) KTM on 780 (384 m.). "Mark" (Dunedin): Your station sounds more like WLW, Cincinnati. About that time he would fade out with increasing daylight. 6WF, Perth, should be coming in strongly at that time instead of fading out. "N.Z." (Masterton): KMBC, Kansas City, power 1 k.w. "E.W.D." (Invercargill): Station between 7ZL and 3AR may be XOW, Nanking. This is where I receive them. Your frequencies are wrong, however. 3AR is on 480 m. (625 k.c.), XOW on 496 m. (605 k.c.), and 7ZL on 516 (580 k.c.). "Seven Kicker" (Okoroire Springs): KBI, Tacoma, Washington. "D.L.C." (Hamilton): WBAF, Fort Worth, Texas. Power 100 k.w., frequency 800 k.c. (375 m.).—"J.P.C." (P.N.).

These last four mornings I have had France very clearly on the speaker. I have a friend with me who understands French and he translated quite enough to enable me to try for verification.—"A.G." (Inglewood).

DX Topics

Logging Australian B's.

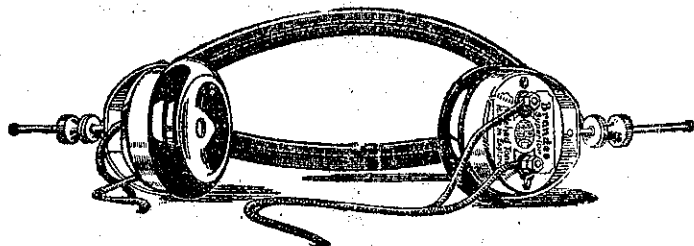
J. P.C. (P.N.): I have noticed lately that 4BC, Brisbane, have changed their frequency and now come in practically on 2UW. I agree that Australian "B's" should be included in the competition. There are only about six of them which are easy to log. I am using an eight-valve receiver, but find great difficulty in picking up the smaller-powered of these. I picked up a new Japanese station on approximately 635kc. (470m.), but I am not wasting any time with them, for they are very difficult to sort out. Despite serious power interference during the last week or so I have managed to pick up KRLD, KWKH, and WEAF. D.McL. (Wellington): Re KZRM. I think credit was due to J.P.C. (P.N.), who reported identification of this station in the issue dated January 30.—"B.W." (Stratford).

Identifying Japs.

ON February 15, KRLD, Dallas, Texas, was heard at R9 here. He stated that he was testing on 1040kc. (288m.). On February 1 I logged WENR, Chicago, at R7. He announces: "This is station WENR, the Voice of Service, in Chicago." J.C.S. (Beckenham), please note. D.T.H. (Timaru) is to be congratulated on his success in hearing the call signs of 32 Australians in one hour. Re not receiving replies from some stations. I have sent detailed reports to a number of Australian amateurs, who were testing, but have not heard from them yet.

Brandes

The Name to know in Radio



Made in England
Price 15/-

OBTAINABLE FROM ALL RADIO DEALERS or
INTERNATIONAL RADIO Co. Ltd., Ford Bldgs., Wellington

In identifying Japs., the only satisfactory way is to describe the items, e.g., tenor solo, orchestral selection, stringed instruments, etc.—"Amazon" (P.N.).

European Reception.

A.E.B. (Tangiteroha) does not appear to be satisfied with my verification from Europe. Concerning the English names, etc., my experience is just the opposite to his. It is the lack of English that makes them so hard to log, not their strength. There is another strong station coming in nearly on Bratislava's wavelength. It was not there in October when I heard Bratislava, which I did nearly every morning, providing interference or static was not too bad. These two stations were coming in at excellent strength on February 26, and played music from 4.30 a.m., when I tuned in, until 4.45, when the announcer spoke in broken English. The only word that was clear, however, was "records." Following that, a lady spoke until 5 a.m., when I had to leave. Her speech was foreign, with "ski" at the end of many of her words, so I presume this was a Russian station. I have heard similar language from stations on 1010kc. (297m.), 780kc. (384m.), and 840kc. (357m.). These stations may be heard at fair strength most mornings now.—W.L.P. (Pahiatua).

Canadian 50-Watters.

I HAVE recently received verifications from OKMO, Vancouver, 50 watts, and CJOR, Vancouver, 50 watts. The latter stated that my report was the first authentic one to arrive from New Zealand. "Kauspanka" (H.B.): I trust that you are well, for we have not heard from you since the earthquake. In a recent letter from Denver, they stated that they received our report on the same day.—C.V.B. (N. Auckland).

Verification from N.Z.B.'s.

I NOTICE in this week's copy of the "Record" the address and transmitting hours of 4ZP, Invercargill. I hope anyone writing to them for confirmation of the station has better luck than I did. About four months ago I picked up 4ZP at about 7.45 p.m. (it was still daylight) and sent them a report of their transmission, together with items heard for a period of over an hour. Realising that this station has no revenue-producing means, I enclosed 3d. in stamps to pay the postage, etc., of a reply. I am still living in hopes of hearing from them. I might add that 4ZP is the first station that has ignored my letters. I see the "Radio Guide and Call Book" will be out in a week or two now. Will it contain a list of the "B" class stations with their addresses, etc.?—"Oteawa" (Otorohanga).

Listening to Europe.

OVER the last fortnight U.S.A. stations have been coming in fairly clearly, and one or two new loggings have resulted. WBT was heard on the evening of March 1 playing gramophone items and transmitting a test programme. On Feb. 27 WJZ, New York, was picked up on a recorded programme, while on Feb. 25 WBAF was at good loudspeaker strength. At 5 a.m. on the morning of March 4 I heard VUB, Bombay, India, closing down with the National Anthem. At 4.45 a.m. I tuned in to KGU, Honolulu, on their early morning exercises. A man was counting to the tune of several waltzes, which were played as accompaniments.

There is a German station which I see listed in the latest English call book as being Stuttgart, on 360 metres, which has been coming in here at good loudspeaker strength at about 5.30 a.m. during the past few mornings. There have been no musical items broadcast, however, so there has been no chance of writing for verification. The station on 279 metres (1080 k.c.) which A.E.B. (Tangiteroha) contends has not been correctly identified is without a doubt that of Bratislava, Czechoslovakia. They announce in Czech, Slovene, French, German, Magyar and occasionally in Eng-

DX-ing With the "Differential One."

I recently constructed the "Differential One," and over the last few weeks have had excellent results. Short-wave amateurs on 'phone and key have been received from Australia and all parts of New Zealand. Also broadcast from SZC, 2ME, Radio Rome, Saigon, G5SW, W8XAL, W3XAL, JIAA, etc. Also numerous stations on duplex, foreign and otherwise.

I have discovered a useful way of winding s.w. coils on valve bases for the "Differential One." A slit is cut in the base from top to bottom with a hacksaw. The top is then bound with string to partially close the opening. The turns are wound on from the bottom and the ends passed through the cut to the pins, securing with celluloid cement. The top binding is then removed, and the spring in the bakelite keeps the turns rigid.—L.F.C. (Christchurch).

lish, according to the late publication of the English "Wireless Magazine." The call at all times is "Hallo! Hallo! Bratislava." I have been regularly receiving him and wrote for verification on February 27. A French station on 385 metres (780 k.c.) which is listed as Radio Toulouse, France, is also very good at 5.45 a.m. each morning, but no musical items have been received. This is the only trouble with these European stations. It is evidently their news sessions which we hear, as talking is all that is to be heard from the majority of them.—D.T.H. (Timaru).

Recent Loggings.

IN my notes in last week's "Record" station KDIN should read KOIN, and KDGJ should be KGDY. Last week the American stations have been coming in with good volume in Timaru. I have added the following to my log this last week: KGB, KFSD, WBT, KMPC, KROW, WSUI, WMAQ, WFIW, KMTR, KVOO.

We Timaru DX-ers envy listeners in the country who are not troubled with power noises and different interferences.

Between 7 and 8 p.m. we have great difficulty in logging stations because of these noises. Still, I suppose other towns have the same to put up with, and it is time the Government stepped in and gave listeners some return for the part of the license fee which they retain.—D.N.A. (Timaru).

Two Records Established.

FROM advice received, amateur station G2NM, operated by Mr. Gerald Marcuse (England), transmits on 20.95 metres from 6.30 p.m. till 8 p.m. G.M.T. on Sundays, 6.30 a.m. till 8 a.m. Monday. Mr. Roy Clarke, operator of ZL2AW, Lyall Bay, Wellington, made contact (by 'phone) with an American amateur, W6OLP, operated by Mr. L. Fry, Empire, California, at midnight on Feb. 11. ZL2AW was using a power of 82 watts in the aerial, and got strength R5. QSA4 and W6OLP were using approximately 200 watts input. This is, I believe, the first time 'phone has been transmitted to America on 80 metres by a New Zealand amateur. And still another record. ZL2BE, Hastings, operated by Mr. J. C. Mills (who did great work

at the time of the earthquake) made contact on Mar. 1 with an English amateur, G6RR, operated by Mr. R. A. Bartlett, of Bristol, Somersetshire. Contact was made through OW on 80-metre band at 7 p.m. New Zealand time. This is the first time a New Zealand amateur has worked Great Britain on 80 metres. The next record we will see established will be a New Zealand amateur putting 'phone across to Great Britain on 80 metres.

At 6 a.m. every morning last week two duplex stations were heard working, one on 84.5 metres, the other on 88.1 metres. Both stations were speaking in a foreign language. Strength about R6 and very clear. An American duplex station has been heard testing a music and word test on 53 metres most evenings lately between 7 p.m. and 8 p.m.—A. P. Morrison (Wellington).

DX-ing With a Three-valver.

SINCE the awarding of the DX Cup some correspondents have expressed doubts as to the ability of the small set to "foot" it with the seven and eight-valver. The large set certainly has an advantage on U.S.A. stations, as they are able to bring them in earlier in the day. I thus am able to log a lot of stations in the Eastern States, which close down before they attain sufficient strength to be picked up by the small set. Otherwise the small set can hold its own with the best of them, as my own experience goes to prove. Using three valves only, with a pair of head-phones I have logged a total of one hundred and fifty-one stations, and expect to get many more yet.—Geo. R. Munro (Clevedon South).

Two New Americans.

I HAVE recently identified the two American stations I was inquiring after in last week's notes (one on 745 k.c., the other on 950 k.c.). At 7.7 p.m. on March 4 I was listening to musical items on 745 k.c. (402 metres), when I heard dance music and a call WBAL,

KNOWLEDGE Versus GUESSWORK

Is your Accumulator fully charged? What is the actual voltage from your H.T. supply? How about the Grid Bias? What current do the Valves take and what should they take for correct working?

Question after question that can only be answered by a Radio Meter. Problem after problem that can be settled by FERRANTI Radiometers, the meter with the greatest accuracy, economy and long life reliability.

METER SUPERIORITY

FERRANTI

RADIO METERS

N.Z. Agents:—

ARTHUR D. RILEY & CO., LTD.
WELLINGTON, AUCKLAND.

Baltimore, followed immediately after by WJZ, New York. Again at 7.30 I heard the same thing. WJZ's announcer then gave a talk on generators, batteries and oscillators, after which he remarked: "We will continue with this test programme of Victor Orthophonic Recordings." At 7.40 p.m. I became suspicious of a third station on this frequency and at 7.45 my suspicions were verified when I heard the call KVI, Tacoma. The 1930 "Guide" gives the frequency of WBAL as 1060 k.c. (283 metres) and of KVI as 920 k.c. (326 metres), so both stations must have changed their frequency. I tuned in to the other stranger on 950 k.c. (316 metres) at 8.58 p.m. on March 5 and was just in time to hear the call KJR, Seattle. My first week's use of a Beverage aerial has resulted in my logging ten new Americans. Among them, KGJF, Los Angeles (100 watts) was at good strength. I also picked up the

Tulsa, Oklahoma, station on 1115 k.c. (269 metres), but a New Zealand station came on the air and blotted them out before I could get call. N.B.: Frequencies mentioned above are dial readings and are approximately 15 k.c. below the stations' frequency.—"Seven Kicker" (Okoroire Springs).

[According to the latest Call Book, WJZ and KVI operate on 760 k.c. (394.5 metres) and WBAL on 1060 k.c. (282.8 metres). Of course, the latter may have been testing on a different frequency. Would you please quote correct frequencies instead of dial readings.—Ed.]

Frequencies of European Broadcasters.

CONGRATULATIONS to Mr. Peters on his reception of a European station. For the last month I have been up early to listen for them. At this time of the day the air is fairly clear from interferences as regards city reception and most mornings between 4

a.m. and 6.30 a.m. as many as five stations can be heard. The station at Bratislava, with a power of 14 k.w. (received by Mr. Peters), and one on 257 metres (1164 k.c.), which I am sure is a Swedish station operating with a power of 15 k.w., are the strongest. The London National station, operating on 261.3 metres (1145 k.c.), using a power of 68 k.w., is often broadcasting the same programme as 5SW. There would be little doubt of securing a verification from there. In a letter received re-

Radio In Uruguay

SOME indication of the popularity of radio in most Latin-American States can be gauged from the following facts just to hand: Radio imports into Uruguay during the first nine months of the year revealed an increase of 300 per cent. over the whole

Some European Stations For Early Morning DX-ers

Location	Power	Metres	K.c.
Vienna (Rosenhugel, Austria)	20 k.w.	517	580
Midland Regional Station, Gt. Britain	38 k.w.	479	626
Katowice (Poland)	16 k.w.	408	735
Bucharest (Rumania)	16 k.w.	394	762
Algiers (N. Africa)	13 k.w.	363	825
Muhlacker (Germany)	75 k.w.	360	832
Barcelona (Radio Barcelona, E.J.Z., Spain)	18 k.w.	349	860
Strasbourg-Brunath (France)	15 k.w.	345	870
Bordeaux (Lafayette (P.T.T.), France)	35 k.w.	304	986
Finland	15 k.w.	291	1030
Barcelona (RAJ.13), Spain	10 k.w.	268	1120



**Buy
NOW...**

and always be glad you did

Winter's coming along. Make sure that it's going to be a jolly Winter in YOUR home. Buy a radio—buy it now—and buy quality.

The new Atwater Kent with the Golden Voice is an investment, as safe and sound as a bond. Ask any of the more than three million satisfied owners. Ask any radio dealer; he will tell you that there wouldn't be any need of radio service if all radios were Atwater Kent.

Your money does its utmost in buying

PRICES FROM
£55 [MODEL 10L]

ATWATER KENT
RADIO with the GOLDEN VOICE

Your nearest Atwater Kent dealer will gladly demonstrate or write to distributors.

N.Z. DISTRIBUTORS: C. & A. ODLIN & CO. LTD., WELLINGTON 87

cently from an English amateur he remarks that most of the European stations transmit from noon till midnight, and they are usually identified by their interval signals, which are characteristic of each station. Several stations use two or three particular notes on the piano, while Budapest (Hungary, 23 k.w.) uses a musical box and announces "Radio Budapest." Toulouse, France, 283 metres (784 k.c.), 10 k.w., uses a gong and announces "Radio Toulouse." Turin, Italy, 273.3 metres (1100 k.c.), 8.5 k.w., has a canary chirping in the intervals. He announces "Radio Turin." Rome, Italy, on 75 k.w., announces "Radio Roma." The accompanying list of European stations may be helpful to early morning DX-ers.

There are many more high-powered stations, but if one can verify half a dozen it would be quite a record. Static is not so troublesome as might be expected, but each transmission is characterised by long fades. I have noticed at times that a station will be coming in at good strength, and then the music will fade right out and the carrier wave cannot be found, but it will slowly come back again to the same strength. The best time to listen for them in Wellington is between 5 a.m. and 6 a.m.—A. P. Morrison (Wellington).

HAVE you renewed your subscription to the—

"Radio Record and Home Journal."
BOX 1032, WELLINGTON.

A. J. PARK & SON

Patent Attorneys

Routh's Buildings,

Featherston Street,

WELLINGTON

Wired Wireless Declined

AFTER serious consideration the German Post Office has declined to sanction the distribution of broadcast programmes to telephone subscribers by means of the "wired wireless" system.

"NOW GUARANTEED VALVES."

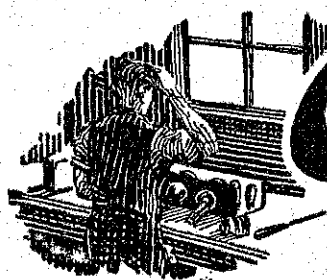
Condor Valves, 4-volt D.C. detector and first audio taking .1 amp. UX base. Were 12/6. Now 6/6, post free. Condor Power Valves, taking .15 amp. 7/6, post free. A.C. Valves 245 power tubes, 13/6 each. 224 Screen-Grid, 19/6 each. 227 Detectors, 14/6 each. 226 First Audio, 10/- each. 201a D.C. Valves, 6/3 each. All new and tested before you buy, and my personal guarantee is three months. Bond's C Batteries (the big cells), 44-volts. Were 3/6. Now 2/3 each.

15/- orders post free.

Send for any Radio Parts you need or Money-back Guarantee.

BOB HORROBIN
FLASHLIGHT CORNER,
2 COURTENAY PLACE,
WELLINGTON.

Quick Repairs. 'Phone 22-357.



Questions and Answers



"BOB" (Otago): Would a water pipe 12ft. away from my set make a good earth? If not, what would? A.: It depends how soon the water pipe itself goes to earth. If it does so almost immediately it would be quite efficient, otherwise why not try the Pierce earth system?

S. (Westport): When I switch on my set there is a sound in my loud-speaker which resembles a clock chiming. This fades out after about one minute. A.: This is probably due to the spring mounting of your detector valve, which vibrates when a slight jar, such as that occasioned when the set is switched on, is communicated to it. There is nothing wrong.

J. A. (Christchurch): I have a five-valve American set, but find there is no provision for grid bias. Where do I connect this? The g.b. terminal on the transformer is connected to "A". A.: Break this connection and take it to "C—," connecting "C—" to "A—."

2. What alterations are necessary to use a power valve taking 135 volts "B" in the last stage? At present I am using 90 volts on both audios. A.: Do not wire your audio stages separately as 135 volts is quite suitable for both. See, however, that you apply the correct grid bias to each stage.

"EXPERIMENTAL" (Oamaru): I have a variable condenser with 15 plates. What is its capacity and how many turns do I need on a valve base coil to match it. I wish to make the "Night Hawk Two." A.: .00025 mfd. See the coil table published in a recent issue.

JOSEPH (Dunedin): I intend to construct the 1-valve shortwave receiver and would like to know if I could use a power valve? A.: No, this would not be suitable. You require a valve of the A415 type.

2. Would an aerial 40 feet high at the far end, 20 feet high at the lead-in end and 60 feet long be suitable for short-wave reception?—Yes, but it would be better higher.

3. How should I construct the coil? A.: You give no details whatever of the type of former you desire to use. See the "Radio Guide" for instructions on coil formation.

M. A. CRAVEN (Wellington): Would an L210 valve deliver as much volume as an H210 when used in the Differential One? A.: No, the latter is more suitable.

KAYGEE (Wellington): Are the shortwave adapters I have seen advertised really efficient, and which one would be the best for my set? Is any technical knowledge necessary to fit one of these? A.: The only commercial shortwave adapter we have tested is the "Addi-phone," made by Mack's Radio, Kent Terrace, Wellington. It gives excellent results on shortwave, and technical knowledge is not necessary to operate it.

2. Can it be operated from the e.l. mains? A.: Not satisfactorily. It is more usual to have batteries supplying the current to the two valves used by the adapter.

OSCAR (Marton Junction): I have two 171 valves of different makes in push-pull. When I turn the volume on fully a blue haze spreads over the interior of one of them. Is the valve defective? A.: It seems that the valve is defective, though without saying how the volume is controlled we cannot offer much explanation. If it is controlled by varying any of the constants of the valve in question it can be interpreted in terms of electron emission and the gas in the valve. Quite probably it has not been thoroughly exhausted, but so long as it works there is nothing to worry about. Possibly the life may be shorter than another valve.

2. Why can I hear music when the speaker has been disconnected? A.: That is due to one of the laminations in the transformer being loose. The signal in the winding of the transformer pulsates backwards and forwards as it does in the speaker winding, but whereas in the latter a diaphragm or armature is moved, in the former the loose lamination responds.

TYPO (Blenheim): Is my valve combination economical for both filament and plate voltages?—Yes. 2. My set will not oscillate on the 27 to 53 metres coil. A.: This is probably a dead spot. Try the effect of a midget variable condenser in series with the aerial.

TERMINAL (Dunedin): I have built the detector of R. the W. Two, but I cannot get it to oscillate except when using the largest tuning coil. A.: Apart from increasing the grid leak to 10 meg., trying another valve and increasing the battery voltage to 67½ we can suggest little, as R. the W. Two has given perfect satisfaction to hundreds of constructors. We do not think it necessary to add more turns to the tickler.

2. How many turns should be on a coil designed to bring in the 80 metres band? A.: Using a .00015 condenser with a coil 3in. in diameter, the number of turns should be 20.

RAY DIO (Manawatu): Approximately what would be the range of a coil of 2½ turns of 22 enamelled wire on a UX valve base? A.: Probably 15/25 metres.

2. What would be the approximate range of a coil with 3½ turns? A.: About 20 to 35 metres.

SIMPLE (Petone): I have constructed the Daniells Cell "A" battery, but cannot get results. A.: You should connect the set up to the charger and take a reading when it is on load. A set using such little "A" current as yours does, the battery should work quite well. We found it would deliver between a ½ and ¾ amp. without difficulty, and your set requires only ½ amp. Are you sure you connected it round the right way—that is, the copper to the positive terminal? And we presume you connected your "B—" to "A—" as is usual with "A" batteries?

D. H. A. (Dunedin): I have a three-valve commercial receiver, but my reception on distant stations is not as good as it was a short time ago. Can you explain? A.: If your batteries are quite in order it would seem that your aerial and earth require attention. The earth particularly becomes corroded and the lead wire makes a very poor contact. Examine your aerial insulators and be quite sure there is not a short circuit across them. It pays to let the aerial down occasionally and examine it.

2. On looking over the set I find the reaction control has two fixed terminals and one moving. Should the extra terminal be connected anywhere? A.: No. It is on the same plate as the other fixed condenser. Two are provided merely for convenience.

3. The set breaks into oscillation when the volume control is turned down. Can this be avoided? A.: If by the volume control you mean the filament rheostat it is impossible to control the oscillation unless you use the detector voltage. Each valve has an optimum filament temperature at which it works best. This may be even a volt less than the rated filament voltage, consequently your set will oscillate easier when the filament is at this temperature.

4. Will a pentode valve work more successfully than on ordinary valve that is only 90 volts? A.: Yes, a pentode can be quite effective on 90 volts, but for general purposes we are inclined to favour the high-gain power valve.

5. Will a heavy aluminium screen be more substantial than the one provided? A.: Yes, but it is not worth changing over.

6. What speaker would you advise for sensitivity tone? A.: A well-known make of light cone. 7. I have some sal ammoniac. Can I use this for my accumulator? A.: Most certainly not; if you put it anywhere near your accumulator it would ruin them.

R. D. (Pukekohe):—I have constructed a Daniel charger, but it is quite dead. I poured the acid solution into the porous pot, and put in a handful of bluestone. A.: That is where you made the mistake. The bluestone does not go into the sulphuric acid, but with rain water and is used upon the outside of the porous pot with the copper. Only the sulphuric acid solution and the zinc are inside the porous pots.

M. A. X. (Waikato):—How is the circuit appearing on page 143 of the 1929-30 "Radio Listeners' Guide" neutralised? A.: By the R7, which act as grid suppressors. Do not, however, contemplate building this receiver, as it is quite out of date.

2. I have a battery set which is very much the same. There is a fixed condenser between the detector plate and A—. Should this be connected between the plate and A—, which is earthed. A.: Not necessarily. The function of the by-pass condenser is to convey audio current to earth, and the high-frequency resistance of the "A" battery can be ignored. As far as these currents are concerned, it is a dead short to earth.

3. Is the circuit I enclose correct, and could it be neutralised? A.: It is correct as far as it goes, but it is fairly old-fashioned. Reflex circuits are quite out of date, and you would be better to use a modern three-valve receiver. It could be neutralised by the split primary method illustrated elsewhere or by a grid suppressor of 500 ohms.

4. What is the best type of crystal for reflex work? A.: A carborundum would prove the best in the long run.

5. Is the advice regarding rejuvenating valves in the "Listeners' Guide" correct? CORRESPONDENTS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Questions arriving without it are likely to go astray or be delayed.

Name of set

Number of Valves

Name

Address

.....

Non 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.

NO UNEMPLOYMENT IN THIS CAREER!

There's remunerative employment waiting for qualified wireless men on shore and ship. Johnson's Wireless School takes you up to 1st or 2nd Certificate Examination Standard by easy progressive stages.

Day and night classes for Professional Certificates. Correspondence classes for Professional Certificates. Amateurs and others. Write for Particulars to Department A.

JOHNSON'S WIRELESS SCHOOL

St. George's Buildings, 3-10 Brandon Street, Wellington.



A: Yes, it is certainly correct, but it applies to the American valves—201A's, 199's, 171's, 210's and 200A's. The procedure, however, is not widely practised.

6. Will it harm valves that have a normal emission?—Yes.

7. Is there any method of finding the ratio of a transformer?

A: It can be done easily enough with instruments, but not with any degree of accuracy by an amateur.

KOWHAI (Christchurch): I cannot get the wave-trap described by "A.A.H." to work. How can the condenser make any difference when it is only connected with the 10 turns of 18 d.c.e. wire?

A: Unfortunately we told you in that article to connect them up to the wrong winding. It was a mistake that was corrected a week or so ago, and by making those alterations you should be able to get the set to work. The fact that you are using a .0005 condenser should not affect the results.

MYSTIFIED (N.P.): I am building the differential series for a short-wave set only. Are two .00016 tuning condensers satisfactory to work with the short-wave coils described in the "Record"?

A: It would be better to use a .0001, though you could use a .00016 with very little alteration in the tuning. The coils for this sized condenser were described a few days ago. Add a little to the tickler windings.

N.Z.'S OWN RADIO BOOKSHOP,

The TE ARO BOOK DEPOT, Wellington.

(Read this advt. weekly as new stocks arrive every overseas mail, which prevents us issuing a stationary catalogue.) We have the largest stocks of radio literature south of the line. We cater for engineers, wireless colleges, amateurs, broadcasters and beginners. Your money returned if books sent are unsuitable and sent back promptly in good condition.

LOOK AT THIS LIST:—

- "Modern Sets, 1931," 1/8.
- 2, 3, 4-Valve Battery and A.C. Sets, L-W Ampfr. and Special S-W Set, designed N.Z. conditions, by A. K. Box.
- "Radio Sir," 72 pages—Don't miss this. 7d. posted. Great value.
- "Practical Radio Construction and Repairing," by Moyer and Westrel, 15/6.
- "Radio Times" (English weekly), 4d. per copy.
- "Radio Retailing" (U.S.A.) monthly, 1/9 per copy.
- "Radio Manual," by Sterling and Kruse, 26/.
- "Practical Testing Systems," by Rider, 6/3.
- "Worked Examples of Electrical Technology," by Peasgood and Boyland, 18/.
- "Radio Physics Course," by Ghirardi, 14/.
- "Radio News Handbook, 1930," 2/9.
- "How to Electrify Your Set," by Osgood (U.S.A.), 1/9.
- "Radio: A Study in First Principles," by Burns, 11/.
- "Mathematics of Radio," by Rider, 10/6.
- "Radio Operating Questions and Answers," by Nilson and Hornung, 14/.
- "Radio Amateur Handbook" (Handy's) latest edition, 5/3.
- "Radio Amateur Call Book" quarterly, 5/3.
- "Theory of Radio Communication," by Pilgate, 13/.
- "Principles of Radio Communication," by Morecroft, 41/6.
- "Elements of Radio Communication," by Morecroft, 19/.
- "Direction Finding," by Keen, 27/.
- "Seeing by Wireless" (Television), by Ralph Stranger, 1/6.
- "Collins's Wireless Diary, 1931," 4/.
- "Thermionic Vacuum Tubes," by Van der Bijl, 26/.
- "Radio Receiving Tubes," by Moyer and Westrel, 14/.
- "How Radio Receivers Work," by Roberts, 8/.
- "Radio Design," 1/- per copy.
- "Radio Engineering" (a monthly issue), 21/- per annum.
- "Projection Engineering" (monthly) 21/- per annum.
- "Wireless, the Modern Magic Carpet," by Ralph Stranger, 4/9 (favourably reviewed by Editor "Radio Record").
- "Radio Citizen's Call Book," quarterly, latest, January, 1931, 2/9.
- "1931 Radio Listener's Guide," 2/10 posted.
- "1931 N.Z. Radio Handbook," 2/10 posted.

TE ARO BOOK DEPOT,

64 Courtenay Place, Wellington.

2. Which is the better size for differential reaction, .00013 or .0002?—The latter.

3. Should the two h.f. chokes specified be a special short-wave type?

A: No, only the one following the detector.

4. Would an aerial of 90 feet be suitable for this set?—Yes.

5. Should I leave out the plug and socket arrangement?—Yes.

6. Do you know of anything else important I should do?

A: No, you seem to have lighted upon the special points that enter into the construction of a short-wave set.

TRANSMITTER (Kerepeeti): Could you give me the circuit of a good short-wave receiver employing pentode and screen grid valves?

A: The all-wave Kestrel three will be published shortly, and this will make up into a good short-wave receiver.

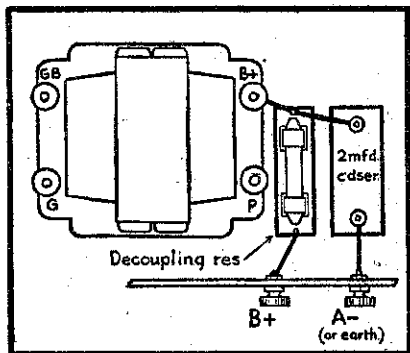
2. Where could I obtain a book on transmitting?

A: "Handy's Handbook" is a standard work which can be obtained at least from the Te Aro Book Depot, Wellington.

3. How can I work out the number of spaces required in a condenser to give it any given capacity?

A: That is not easy to do, but you will find the full information in "Handy's Handbook."

H.F.R. (Auckland).—I am using a three-valve set which oscillates smoothly, but I cannot control the audio oscillation, although the set may be a



long way from oscillation I get a continual squeak in the speaker.

A: Try reversing the primary connections to one of the transformers. If this is not effectual, use the anti-motor boat-ing device illustrated herewith.

BUNG (Waikato): Could I use audio amplification for my three-valve commercial set?

A: No, your set is probably a detector and two audio, in which case it is not easy to add another stage. If, however, it has one high frequency stage, an external audio stage can be added.

2. How many turns of 24 d.s.c. wire on a 3in. former are equal to 80 turns of 26 gauge wire on the same size former?—73.

3. Is a log of 50 broadcast stations good for my set, which uses an earth consisting of four pipes each driven 8ft. into the earth? The system is watered by a leaky car radiator.

A: Your log is quite a presentable one, and your earth system good. You are certainly getting all to be expected.

4. Would using a number of earth wires as illustrated in the diagram of the Pierce earth system put the oscillations out of phase if the wires were not of the same length?—No.

J.G. Dunedin: What size of wire would I use in making a rheostat of 30 ohms when wound on an ebonite tube 2 1/2 in. in diameter and 3-8 in. long?

A: You could use 26 gauge Eureka wire, which has a resistance of about 1 1/2 ohms a yard, so you will require about 17 yards, or 85 turns. To get it into the 3-8 space you could not use sufficiently heavy wire.

2. How many plates of the size enclosed are necessary to obtain the .00035 aerial condensers?

A: 12 fixed and 13 moving.

3. Could you name a compound to immerse fixed condensers in after they are made so as to prevent moisture from interfering with capacity?

A: An ordinary wax is quite satisfactory.

4. Would the insulating compound, such as transformer wax, or other compounds used in transformers, be satisfactory?

A: Generally speaking, yes.

5. Which is the best for condenser plates, brass or aluminium?

A: There is very little difference, though the more expensive condensers use brass.

"MAC" (Johnsonville): My B.D. is very efficient. Would it be worth while changing it to the "Outspan Five"?

A: The "Outspan Five" is certainly the more sensitive set, though if your B.D. is giving you good results it is hardly worth changing.

2. How many moving plates would I have to remove to make my S.L.F. .0005, thirty-three plate condenser, into a .00035?—Seven.

3. Would this condenser be just as efficient as a straight-out .00035?

A: Every bit as efficient.

G.C. (Greymouth): I have built the "Differential Three," but have very little success. I have to add another 40 turns on the reaction coil before the set will oscillate, and now the s.g. valve makes very little difference.

A: Is the r.f. choke fully efficient, and check very carefully the connections to the first coil? Trace out the internal wiring of the coil, but be quite sure that you have brought out each wire to the correct pin. It is not infrequent that the number of turns on the reaction coil has to be increased. Very much depends upon the valve and upon the capacity of the reaction condenser.

"ABEND." (Wellington): How many turns of 30 d.s.c. wire must I wind on a valve base coil to tune between 200 and 600 metres to the .00035 condenser?

A: 140 turns.

2. Would the above coils placed in 3in. diameter aluminium shields be too close to the metal?—No.

4. What Philips A.C. valve is most suitable for the anode bend detector?

A: E415 or E409.

5. Is the circuit I enclose satisfactory?

A: It is not the best, as the audio and radio valves should be biased. Furthermore, the intricate tuning arrangement would probably give trouble. Your best plan would be to try the "Radiogram Five," described in the 1931 "Guide."

6. Would a .5 mfd. condenser do to bypass E415 cathode to earth?

A: In your diagram you have shown it connected directly to earth. If you mean to place it across the pick-up, then it is not needed. The pick-up would work quite satisfactorily in the cathode.

7. How should I proceed to balance the circuits using the three .00035 condensers ganged?

A: By trial and error. First of all work your three condensers together until the signal is at its maximum strength, then loosen the shaft and balance each circuit separately. If the condensers require any adjustments separately the coils must be altered. The condenser that is in farthest, controls the coil which has the least number of turns, and turns must be removed from the other coils until all three condensers are in line.

P.M. (Ponsonby): Would the s.g. valve overload the detector valve on the local?

A: Yes; especially if you are close to the local station. The best plan is to incorporate the system shown in the "Outspan Five" of connecting the aerial through a .0001 blocking condenser to the plate of the screen grid valve. For local work you can connect the aerial on here and turn out the s.g. valve.

2. Using a four volt s.g. valve, would I need to place a 15 ohms resistance in the negative lead if a six volt accumulator is employed?

A: Yes.

3. If a rheostat is also in that position, what must I do?

A: Do not take any chances. Connect the resistors in series with the rheostat.

4. Using the set mostly for shortwave, is it better to place a midget condenser of one fixed and one moving plate across the detector coil to make easier tuning?

A: No, tuning will not be difficult if the fixed condenser is employed as is described. For shortwave work, however, it will be preferable to employ a separate rheostat for the detector valve.

5. Which will be connected to "B—", "A+" or "A—"?

A: It does not matter which; preferably "A—".

6. I am not too sure about the coils. A: They will be described next week.

"GRID" (Dunedin): Reception has been continuously marred by a roar on all but the local station. I notice that when the cover was taken from the s.g. valve the noise diminished. Has static been bad generally recently?

A: It sounds as though one of the grid resistances in your set has broken down, and the set is now oscillating. We would advise you to have it seen to by a local radio technician. Your valve combination is a mixture. For your set we advise the use of either of the first two makes of valves enumerated in your letter.

2. The aerial is 50ft. long and 30ft. high, using iron poles. The earth passes about a foot below where the lead-in enters the house, and is connected to a waterpipe. Would this arrangement have a detrimental effect upon reception?—No.

3. Would the Pierce earth system be of any use here? If so, how far apart should the pipes be placed, and of what use is the car radiator?

A: In our opinion the Pierce earth system to be of definite value, must be installed with the pipes 6ft. apart. The leaky car radiator is provided to keep the ground moist.

4. What is the best lightning insulator for the lead-in?

A: Your question is not quite clear. We speak of lightning arresters, and insulators, which have nothing to do with lightning. A good lightning arrester should be installed outside, and because of this must be moisture proof.

5. How can the wavelength of a station be determined from the dial setting?

TENDERS

RADIO INSTALLATION

TENDERS for the above, endorsed "New Plymouth Hospital Radio Installation," will be received by the undersigned up till 12 noon on Wednesday, April 8, 1931.

Plans and specifications will be supplied upon payment of £2/2/-, which will be refunded upon receipt of a bona-fide tender.

The lowest or any tender not necessarily accepted.

W. H. QUICKFALL,

Hon. Secretary, N.P. Hospital Radio Committee.

P.O. Box 2, New Plymouth.

A.: Either by constructing a graph, which is a more or less cumbersome business, or by approximation. By the latter method the settings of several stations are noted, and if a new and unknown station is logged the wavelength can be worked out from the station's setting in comparison with nearby stations. Thus, if you tune in a station half-way between 2BL on 350 metres, and 4QG in 395 metres, you can be certain that wavelength is about 372 metres.

6. What can I do to improve the distance-getting ability of my set, which is not as good as it should be?

A.: Rectify the fault referred to in question 1.

7. Can I do anything to reduce the static noise?

A.: Ordinary static you can do nothing to reduce, but we suspect in your case noise is arising because of the trouble previously referred to.

BEGINNER (Port Chalmers).—I am using a three-valve battery set 13 miles from Dunedin. My aerial is 20ft. high, and total length of 100ft. Would a higher aerial improve distant reception?

A.: Yes, increase the height to 40ft. if possible.

2. Would a shorter aerial sharpen the tuning of 2YA and yet not affect distant reception?

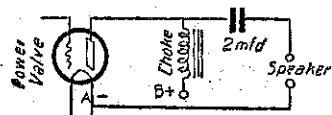
A.: No. Distant reception would be weakened. Why not incorporate a wavetrap?

G. L. (Auckland).—What is a good output filter circuit incorporating a transformer if necessary?

A.: A low-frequency; choke the speaker terminal with a 2-mfd. in one of the speaker leads. Otherwise use a special output transformer.

2. Could the B.D. Four be made more efficient?

A.: Yes, the "Outspan Five," using two stages of s.g., is much more sensitive.



Output Filter Connections

3. Can the coil of the wavetrap described by "A.A.H." be wound on a low-loss former?—Yes.

4. Could you tell me of a good grid bias voltage control for my set, and how is it connected?

A.: The taps on an ordinary grid bias battery give fine enough adjustment. C+ is connected to A—, and C— to GB on the transformer.

5. Is it an improvement to use a condenser in series with the earth?—No.

6. What ratio transformer should I use?—A.: 3½-1.

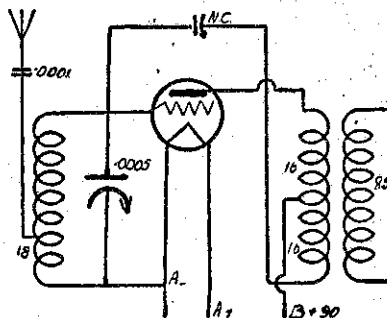
7. I have been advised to use a variable condenser in the aerial. What capacity should this be, and can a wavetrap be used with it as well?

A.: About .0003mfd. A formodenser is much cheaper, and answers the purpose quite well. It can be used in a wavetrap such as that to be described in the 1931 "Radio Guide," which will be published on March 25.

8. Should I use bright or dull emitter valves? Of what type should they be?

A.: Bright emitters have gone out some years ago. Use an r.f. det. i.f. and power, type valve.

9. Are soldered joints more efficient if bound with insulation tape?



Split primary neutralization.

A.: No, not at all, but if exposed to the atmosphere corrosion is prevented.

10. Should I use single strand or flex Glazette for wiring?—Single.

11. How is the primary and secondary wound on a spider-web former?

A.: By winding primary and secondary continuous and then cutting the wire to separate them.

12. What type of neutraliser is best used in a B.D. circuit?

A.: Split primary, but then it is not the B.D.

13. What resistance should the rheostats for the B.D. Four have?

A.: It depends, of course, on the voltage and amperage of your filament supply, and on the voltage and the drain of the valves used. 30 ohms. is quite a usual value.

J. H. (Wellington).—Has an a.c. 10-valve set, and cannot bring in America.

A.: This is probably due to your locality.

2. Do you recommend any other valves for this set?

A.: A set of R.C.A. valves should give you better results.

J. M. H. (Dunedin).—I have a 2-valve B.D. and a gramophone amplifier.

Can I put the output from the set through the latter?

A.: If your two-valver is an r.f. det.—yes. If not, you are liable to get motor-boating.

2. Should the two be connected, as shown in the accompanying diagram?—Yes.

3. At present I am not using the r.f.c. Will this be necessary when using the amplifier?—Yes.

4. Can I incorporate differential reaction in this circuit? If so, is the diagram correct?—Yes.

5. I'm not sure whether the lay-out of my set is correct or not. Where can I secure an efficient lay-out?

A.: See the lay-out for the diff. 3, but omit the a.f. stage.

W. A. P. (Halcombe).—Has a 7-valve a.c. commercial set using an aerial 76ft. long and 35ft. high, with a galvanised iron pipe driven 5ft. in the ground for an earth. He receives several American very faintly, and desires to know how he can improve volume.

A.: Is your earth lead short, and the ground surrounding the pipe damp? Your aerial may be shielded and not properly insulated. If you have had your valves over a year get them tested.

J. B. (Auckland).—Why do I get better results from a 45-volt battery block after 2½ years' use than from an eliminator?

A.: This is probably due to the lack of by-passing in your set. Try a .0005 condenser from "B—" to earth. Exactly what do you mean by better results? Is the signal strength from the eliminator less than from the batteries or is it less silent?

2. My set is 2½ years old, but gives good results. Could I expect better results from a modern three-valve set such as you describe in the "Record"?

A.: When people are getting results we are loath to advise them to change to another circuit. In our opinion the "Differential Three" has been the best set of its size yet described, but if you are a little unfortunate and could not get it to go properly you would be disappointed because you had changed. This we do not want you to be.

3. Can you tell me where to get a diagram of a booster suitable for my set?

A.: We do not advise the use of boosters of any description. They are decidedly a very unsatisfactory and poor compromise. Far the better plan would be to build another stage to your set such as we have described.

"N. Z." (Penrose).—I have a five-valve neutrodyne, which sets up a scratchy noise when tuned to a station. I have to tune it out slightly to get decent music. What causes this?

A.: It sounds as though the grid bias is not adequate, or the set may be going into oscillation. Furthermore, your valves may be deteriorating, or your batteries may be low.

2. How many turns would I need on the coils to match condensers with 15 plates?

A.: Use a tenth more than those specified for the .00033 condensers mentioned in the "Record."

3. What is the capacity of the Lissen differential condensers?

A.: They probably manufacture several .0002 is about the average.

4. Have you any back numbers of the "R.R." dated December 20?

A.: A few.

"DINK" (Helensville).—Could you supply me with a circuit for a two-valve short-wave set?

A.: Your best plan would be to make a battery adapter for your present set. One has been described in the "1930 Guide," and it should cost no more than £5 complete.

"SPEAKER" (Whangarei).—Would you explain the full meaning of kilocycles attached to stations?

A.: An explanation has been made very fully in the "Radio Guide." Every station transmits an electro-magnetic wave which goes out on a definite number of times in a second. The number of times the peak of this wave leaves the transmitting station is known as the frequency. Thus from 2YA there are 720 waves every second. If now, the distance (Concluded on page 31.)

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.

MAJESTIC RADIO RECEIVERS Kirkcaldie & Stains,
Wellington Agents, Lambton Quay.

MULLARD VALVES All Radio Dealers.

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

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

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

COUNTRY TOWNS

PHILIPS VALVES AND APPARATUS All Good Radio Dealers.

'The Outspan Five'

HOW TO ENSURE ITS SUCCESS.

Fit it with the New Type ORMOND Dials. Black or Silver Finished. Small or Large Size. Hairline adjustment. Easily Read.

BRITISH AND RELIABLE

Large, 6/-

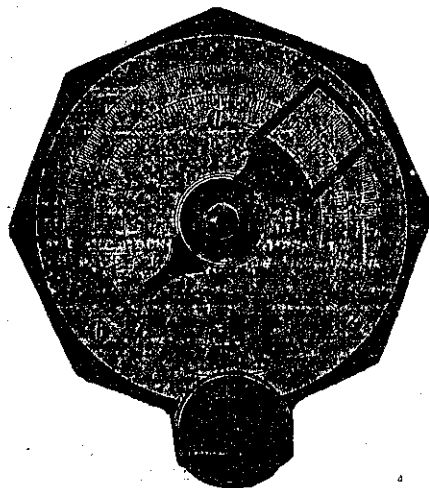
Small, 4/6

SPECIAL NOTICE: We have actual photographs of the original "Outspan"—a set of 4 helpful and clear views.

All for 4/-

F. J. W. Fear & Co.

63 Willis St., Phone 41-446,
WELLINGTON



The Operation of the Pentode



LAST week the conclusion of Mr. Dawson's interesting article was rather badly mixed up, and "we have found it necessary to repeat the article in order that its full significance may not be lost by the mishap.

The pentode has yet another considerable advantage over normal power valves in that to produce the same volume as a three electrode power valve the pentode requires only a fraction of the a.c. grid voltage that would be required for the triode.

If the pentode is fully loaded it gives a larger output of better quality with smaller input signal voltage, and of course a smaller negative grid biasing voltage is required.

Eliminating One Audio Stage.

AS a result of the pentode advantages discussed above, it is possible and practicable to eliminate the normal first stage of a.f. amplification with its valve and coupling transformer.

In addition to the reduction of expense thus involved there is a definite gain in quality, as even the finest components are not 100 per cent. efficient, and every additional stage of a.f. amplification must add something to the overall distortion.

The amplification possible with the pentode is of special appeal to the home set builder on account of the savings shown above. The set may also be smaller and more compact, and requires less power for operation.

As less preceding amplification is required, this gain can often be used to advantage to increase the selectivity of the set by making the radio-frequency stage couplings looser without reducing the signal strength too much.

Have you realised that the valves of your Electric Set require protection from the voltage fluctuations of the electric supply?

You can prolong the life of your valves at the cost of less than one valve by obtaining an

"AMPERITE"

Automatic Voltage Regulator.

A type for every set—Please give the make and model of your receiver.

Dealers and Service Men will be interested to know that the

SUPREME SET and VALVE TESTERS

Also

SPRAGUE 8mfd. ELECTROLYTIC CONDENSERS

Are obtainable at

THOS. BALLINGER & Co.
LIMITED

58-62 VICTORIA ST., WELLINGTON.

"Where the Quality Goods are Sold."

Valve

A Remarkably Sensitive Output Valve

By W. M. Dawson,

A.M.I.R.E., M.I.W.T.

By virtue of the good high note amplification, the selectivity of the set may be much greater, than with a triode power valve, without seriously impairing the quality of the reproduction.

Pentode Can be Used in Every Set.

THE only external distinguishing feature of the pentode is an extra connection for the screen grid.

The pentode can thus be readily adapted to existing sets by simply making an extra connection from the power pack (or B battery).

Many enthusiasts are now using the pentode with excellent results. In some cases, however, users have been unable to achieve success, and whenever these cases have been investigated the writer has invariably found that the operating conditions have been quite unsuited to the valve, considering the associated equipment, and

it would seem that the pentode is still a very much misunderstood valve with the average radio enthusiast.

No valve can work to best advantage under adverse conditions, and the pentode is as docile and easy to handle

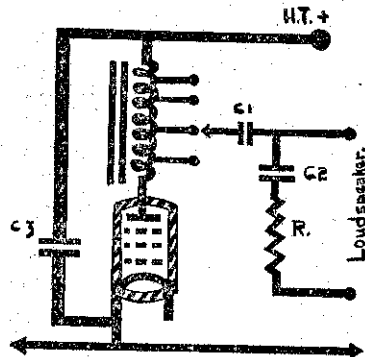


Fig 1.—Output filter circuit for magnetic speaker. C1, 4 mfd.; C3 4 mfd.; C2, .01 mfd.; R, 5000-10,000 ohms.

Fig. 2.—The elements of the filter circuit mentioned in the article. In this simplified circuit the plate current flows round the speaker windings. Condenser approx. .01 mfd. Resistance approx. 5000-10,000 ohms.

as a triode once its little peculiarities are understood.

No apology is therefore required for going to practical considerations in some detail. This, in conjunction with the release of new data, will, it is hoped, enable readers to use this remarkable valve intelligently and effectively.

Plate Impedance.

THE matter of pentode plate impedance is a common stumbling-block with experimenters, who frequently have visions of attempting to "match" the valve impedance to the speaker by using a high ratio step-down transformer. It has been shown above that an essential fundamental of the pentode circuit is the very considerable valve impedance compared with that of the speaker. What is unknown to most people, however, is that recent research reveals a very definite optimum load impedance for a given pentode valve, and this optimum value does not hold good for other types.

The correct load impedances for the following well-known types are:—

C243	4500 ohms
D243 and E443	8000 "
B443	6250 "
C443	9000 "
R443 N & F443	10000 "
C643	9500 "

With a triode valve, a considerable amount of mismatching of the load impedance is possible before audible distortion takes place, though the undistorted output of the valve is reduced.

In the case of the pentode, the correct load impedance is more important, and when deviated from, produces that shrill reproduction, with high note emphasis that many people wrongly consider to be a definite characteristic of pentode reproduction.

The pentode can and will give quality at least equal to the triode—reproduction with well-defined bass frequencies and excellent balance.

The Moving-Coil Speaker.

LET us consider first the case of the moving-coil type of loudspeaker, where the impedance of the voice coil is supposed to remain constant at all frequencies in the musical range. In practice we must qualify this by saying comparatively constant, because the impedance does, of course, rise at higher frequencies.

Through a constant impedance load we must pass a uniform current, if we are to obtain uniform power expenditure, and as this "constant current" principle is the main feature of the pentode, it follows that the pentode power-valve, plus moving-coil speaker, very closely approaches the ideal in respect to absence of frequency discrimination.

We qualified, and said, "very closely approaches the ideal," not because of any shortcomings of the pentode, but because even the moving-coil speaker is not perfect in that its mechanical and electrical resonances introduce distortion of their own, and a fidelity curve of the acoustic output plotted against wattage input will soon disillusion any who fancy that the modern speaker closely approaches perfection.

Fortunately, the human ear is very tolerant of imperfections in reproduction—particularly in the matter of relative sound intensities.

A loudspeaker is not necessarily of high excellence because it is a moving-coil type, but a good moving-coil speaker represents the highest attainment in this field at the present moment, and as explained above, it is peculiarly suited to work out of a penthode power-valve.

Match the Moving-Coil to the Valve.

MOST manufacturers state the average value of the impedance of the voice coils of their moving-coil speakers, while in many cases the necessary transformer is included with the loudspeaker.

Let us take some representative figures, and work out the transformer ratio required to give the ideal impedance match.

Case 1: E448N valve with speaker impedance of 50 ohms, then:—

$$\text{Impedance Ratio} = \frac{10,000}{50} = 200 \text{ to } 1$$

The impedance of a transformer winding at a given frequency is proportional to the square of the number of turns of winding, consequently the impedance relationship between two windings of a transformer is proportional to the square of the turns ratio, e.g., a 10 to 1 turns ratio gives a 10 x 10 or 100 to 1 impedance ratio, so that the required turns ratio for our matching transformer becomes $\sqrt{200}$, approximately 14 to 1.

Case 2:—C443 with 10 ohm coil.

$$\begin{aligned} \text{Impedance Ratio} &= \frac{9000}{10} = 900 \\ \text{And turns ratio} &= \sqrt{900} = 30 \end{aligned}$$

And a 30 to 1 ratio step-down transformer is indicated.

If you have tried a penthode-dynamic combination without full success, just check up your operating conditions as above, and make the necessary correction in your transformer ratio.

Magnetic Speakers.

MAGNETIC speakers without exception have a rapidly rising impedance at the higher musical frequencies, in fact the impedance of a so-called "high impedance" magnetic speaker is commonly of the order of 2000 ohms at 256 cycles (middle C), rising somewhat slowly at first, with increasing frequency, but later increasing more rapidly until a value of around 20,000—40,000 ohms is reached at 5000 hertz. (The hertz is now the adopted unit indicating cycles per second.)

Think in terms of triode theory for a moment, and remember the glibness with which speaker impedance "matching" is spoken.

The so-called "match" is made at a comparatively low frequency, say 256 hertz, but as the impedance at 5000 hertz is many times the value at 256, it follows that for high frequencies the speaker is very much mismatched.

With triodes, this results in a drastic reduction of energy expended in the speaker at high frequencies, and the consequent lack of proper propor-

tion of these in the reproduction. Mechanical high frequency resonances cannot properly make up this loss, and the treble is unnatural.

With the penthode this increased impedance at high frequencies acts somewhat in the reverse manner, and the upper frequencies are accentuated. Further, if the listener is critical, he will notice that distortion first occurs on the higher notes.

Fortunately, this effect can be overcome without much trouble by paralleling the speaker circuit with another whose characteristics are exactly the reverse of the speaker winding.

The speaker winding increases in impedance with rising frequency because it is inductive (the impedance being proportional to $2 \times 3.1416 fL$ where f is the frequency in hertz and L the inductance in henries).

The impedance of a condenser, on the other hand, decreases with frequency increase (being proportional to $1 \div 2 \times 3.1416 fC$, where C is the capacity in farads).

A condenser shunted round the speaker windings then has a marked effect in stabilising the plate load impedance at different frequencies, and this is really the main action of a "tone-filter" used with a magnetic speaker on a penthode output. An auxiliary effect is, of course, the greater "by-passing" of the upper frequencies, but the major effect is obtained through impedance stabilisation.

Such a simple capacity filter helps considerably, and is sufficient in certain cases, but a slight elaboration of this idea is an improvement, and consists of adding a fixed resistance in series as indicated in Fig. 2.

In fact, if the speaker inductance, capacity, and resistance are known, it is comparatively simple to proportion the values of the shunt capacity and resistance so that the effective impedance of the speaker-filter network remains substantially constant over the useful part of the audio-frequency range.

The "plate-load" of the penthode thus remains constant, as in the case of the moving coil speaker.

The effective impedance of the speaker circuit at, say, middle C (256 hertz), is reduced by the effect of the shunt circuit, and it may then be desirable to use an impedance adjusting device to have the effect of raising the speaker impedance to the optimum value indicated previously.

This can readily be done with an output choke or output transformer, and is amenable to mathematical analysis precisely as shown for the moving coil case.

However, as hardly any readers have at their disposal means of measuring their effective speaker impedance or other characteristics, the output choke filter system will be adopted here as it is comparatively easy to build one with the necessary high inductance, and tapplings can be readily brought off, and the correct one determined by trial.

The circuit will then be as in Fig. 1. Alternatively the filter C2R may be shunted round the choke, in which case:

(a) The breakdown voltage across C2 will be greater.

(b) C2 requires to be smaller for the same effect.

(c) R requires to be larger for the same effect.

A suitable choke for any of the penthodes mentioned in this article could then be constructed by winding on a $\frac{1}{2}$ in. square core some 9500 turns of 36 s.w.g. enamelled wire.

The core window would require to be approximately $\frac{1}{2}$ in. x 7-8 in. in view of the desirability of layer insulation, and particularly of adequate end turn insulation from core (the voltages developed across it being several times the plate voltage). The airgap in the core would be in the vicinity of 1.32nd inch.

An alternative design, using $\frac{1}{2}$ in. material for the core limbs, would require 6300 turns of 36 s.w.g. enamelled wire, the window being approximately $\frac{1}{2}$ in. x $\frac{1}{2}$ in., and the airgap about 3-64th in.

Suitable tapping positions from the commencement of the coil (say the top or HT end) are given in the following table with the impedance ratios thus available—they will cover all ratios possibly required.

Impedance Ratio.	Turns Ratio.	Tap at
16 to 1	4 to 1	1/4
12 to 1	7 to 2	2/7
9 to 1	3 to 1	1/3
6 to 1	5 to 2	2/5
4 to 1	2 to 1	1/2
3 to 1	1.75 to 1	4/7
2 to 1	1.4 to 1	5/7
1.5 to 1	1.25 to 1	4/5

If the whole choke is common to both circuits, the ratio is of course 1 to 1. The taps must be well insulated where they are brought out.

It is interesting to note in passing that the average magnetic speaker cone material is made unduly hard to accentuate the high notes, to make up for the triode power valves deficiencies previously discussed. A softer paper can be used to advantage with the penthode valve.

Using the corrective methods outlined above, the penthode user will be delighted with the quality of reproduction obtainable on even a magnetic speaker.

Adjustment Hints.

THE negative grid bias should first be set at the value given by the valve maker for the plate voltage used. This can then be varied slightly under operating conditions until a milliammeter inserted in the B+ lead shows a minimum of "dicking."

Do not worry unduly about whether the needle flicks upwards or downwards, as this is often governed by another factor which does not seem to be at all well known.

This is the correctness of the plate load, and in general it may be stated that if with correct bias and "B" voltage a strong signal causes the needle to flick upwards, second harmonic distortion is indicated, and a higher load impedance is desirable. This is obtained by using a higher step-down ratio in the output choke or transformer.

If, on the other hand, the milliammeter needle kicks downward, the principal distortion is due to the presence of a third harmonic component, and the load impedance may with advantage be reduced (by lowering the step-down choke or transformer ratio). Careful attention to these points will prove well worth while.

Caution.

UNDER certain conditions, e.g., with very high impedance plate load, the penthode is capable of developing enormous voltages which may rise to a value many times that of the plate voltage, and this voltage can easily wreck the valve itself, or break down the choke, transformer, condenser, or speaker insulation.

As an open circuit is an infinite impedance, enormous voltages are developed if any part of the plate circuit is opened with the valve in operation.

It is therefore absolutely imperative that the speaker is not disconnected, while the penthode grid is being excited (i.e., while the amplifier is functioning.)

The above article is by no means intended to be an exhaustive treatment of the penthode, in fact many alluring possibilities, such as its use as a detector, or in other positions have not even been hinted at, but it is hoped that the notes on its handling as a last stage "power amplifier" will at least assist in drawing aside the veil, and making the penthode better understood and appreciated, as it is undoubtedly destined to be used much more freely than at present.

A Super-power Transmitter

American Experiments

BBROADCASTING power of 1200 k.w. is the goal of station KDKA, whose engineers are now conducting experiments with the new 200 k.w. valves in the expectation of transmitting shortly a series of after-midnight tests with super power. Station KDKA's experimental license from the Federal Radio Commission authorises the use of up to 400 k.w. in the series of experiments.

This will require the use of two of the giant 200 k.w. valves, each of which stands six feet high and requires the passage of five tons of cool water through its jacket every hour. The engineers are arranging the plant of KDKA so that six of the giant valves may ultimately be used, which would give the station an output of 1200 k.w.

Are your VALVES

100 per cent Efficient?

Just think a moment: when did they go into your set? A year ago! Surely time flies, and so does the valve efficiency. They need renewing.

New types? Yes, C.A.S. have them, and can advise you just what valve to put in each socket.

And they won't get broken through the post—we see to that.

REMEMBER, OUR SERVICE IS FOR COUNTRY LISTENERS.

—THE—

C.A.S.

(Country Accessories Supply)

29 VENTNOR STREET, SEATOUN, WELLINGTON.

Metrodyne

WRITE OR CALL AT ROYDS-HOWARD CO. 553 COLOMBO ST., CH. CH.

RADIO FOR TONE & DISTANCE

FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

Auckland Notes

THE church service will be relayed from the Beresford Street Congregational Church, the preacher being the Rev. Albert V. Whiting, the choir-master Mr. William Gemmell, and the organist Mr. Arthur Cherry.

An excellent studio concert will follow.

From Wellington

THE service in St. Paul's Pro-Cathedral will be relayed. The preacher will be Canon Precival James and the organist and choirmaster Mr. Robert Parker.

Two delightful tenor solos from the music-drama "The Immortal Hour," by the English composer, Rutland Boughton, will be sung by Mr. Arthur Clark, a cultured singer who was associated with the composer in the production of this work in London. Madame Emily Briggs (mezzo-soprano) will make a welcome reappearance, and will sing Gounod's "Serenade" with violin obbligato, Memberg's "Hindoo Song," and "In Summer-time in Bredon," with orchestral accompaniment. She will also take part with Mr. S. Evelyn Rodger in a duet from "Elijah."

The Salon Orchestra will contribute tuneful numbers, including the ever-popular "Cavalliera Rusticana," by Mascagni. Mr. W. Haydock will play a violin solo.

From 3YA

THE service in the East Belt Methodist Church will be broadcast. The Rev. W. H. Greenslade will be the preacher. Mr. A. M. Owen, the organist, and Mr. J. Chaplin the choir conductor. A relay from 4YA will follow.

Dunedin Features

THIS evening a special service in connection with the 83rd anniversary of Otago will be relayed from the First Church of Otago, Dunedin. At this



MISS THELMA AYRES,

A charming soprano, well known to Christchurch listeners.

—Steffano Webb, photo.

service His Worship the Mayor, City Councillors, and representatives of the Early Settlers' Association and other public bodies will be present.

MONDAY

2YA Notes

Two recitals, in which organ, violin and contralto singer will take part, will be introduced into this evening's programme. These recitals will be relayed from the Taranaki Street Methodist Church and should prove most acceptable to listeners. Mr. H. Temple White will be the organist, and Mr. Leon de Mauny the violinist, while the vocalist will be Miss Hilda Chudley. Violin and organ will play Handel's "Sonata in A major," and "Meditation" from Massenet's "Thais." Miss Chudley's three songs will be accompanied by organ and violin.

In the studio programme, prominence will be given to baritone solos by Mr. Ernest Short, who will sing "The Pauper's Grave," "The White Dove" (from "The Rogue Song"), and "Largo al Factotum" (from "The Barber of Seville"). An orchestral programme of merit will be provided by the orchestra. Godard's "Berceuse" will be played as a clarinet and trumpet duet with orchestral accompaniment.

From Christchurch

A NEW artist will be singing this evening. This will be Miss Helen McKay, A.T.C.L. (soprano), late of Southland. She will prove a very acceptable performer. Miss Leila Black (mezzo-soprano), who has not been heard on the air for some time, will also be singing.

Humorous items will be provided by Mr. J. P. Darragh. The instrumental portion of the programme will be contributed by the Woolston Band under Conductor R. J. Estall. A cornet solo, "The Caledonians," will be played by Bandsman R. Ohlsen, to band accompaniment.

From Dunedin

The proceedings in connection with the celebration of the eighty-third anniversary of the founding of Otago and Southland will be relayed from the Early Settlers' Hall. The appreciation of previous anniversary broadcasts has been unlimited, especially by those early settlers of Otago who are now scattered throughout the Dominion. On this occasion the ceremonies will commence at 2 p.m., when there will be a meeting of the old folks at the Early Settlers' Hall.

In the evening there will be a concert and social, to which some of the



MRS. PEARL OWEN.

A charming Auckland contralto singing on March 27.

—S. P. Andrew, photo

finest artists in the city will contribute. Listeners will remember with pleasure the concert provided by 4YA some time ago on the occasion of Pioneers' Night, when several of the early settlers spoke over the microphone from the studio, and some of the early musical instruments which are at present in the Settlers' Museum were played.

TUESDAY

Auckland Notes

A FURTHER afternoon talk by Mrs. Les. Crare on "Health of mind and body in relation to diet" will be given. At 7.40 p.m., Mr. N. M. Richmond will give the first of a series of W.B.A. lectures.

Mr. Barry Coney, the well-known Auckland baritone, presenting three solos by Bach, Brahms, and Mozart, will be featured on this evening's programme. Mr. A. B. Chappell will give his weekly Topical Talk, and the Studio Octet, under Mr. Harold Baxter, will provide an orchestral programme.

From 2YA

THE weekly talk for farmers will be broadcast tonight. Miss Gwladys Edwards, the Australian soprano, will sing four fine songs this evening: "Mifanwy," "Mighty Like a Rose," "Coming Home," and "Valley of Laughter." Mr. Stewart Nelson's tenor solos will include "At Dawning," "Down the Vale," and "In an Old-fashioned Town." Two songs by Romberg and two by the well-known Maori composer Erima Moewa Kahau, of Auckland, will be sung by Mr. L. Bent. The sketchers will present "The Last Post." Mr. W. Haydock will play as a violin solo "Legende," by Wieniawski, and a programme of popular music will be given by the Salon Orchestra under Mr. M. T. Dixon.

L. B. SCOTT LTD.

BOX 395, CHRISTCHURCH.

Are the Sole N.Z. Agents
for the Famous

REESONATOR

Increases Sensitivity. Sharpens Tuning.

Saves Batteries and Valves.

Equal to the addition of another valve.

SEND FOR DESCRIPTIVE PAMPHLET

(See Page 7 for "Radio Record" Laboratory Test.)

From Dunedin

ONE of 4YA's series of talks on motoring will be given by Mr. R. Malcolm, under the auspices of the Dunedin Motor Club.

As this day is the anniversary of the death of Henry Wadsworth Longfellow, the poet, a brief recital of his life and work will be presented by Mr. Angus Gorrie. Longfellow is a poet of our schooldays, and this section of the evening's entertainment will be greatly appreciated by all lovers of his works.

The St. Kilda Band is to present the instrumental section of the evening's programme, opening with Sousa's well-known march, "Stars and Stripes." Other items of interest to be provided by the band are two exceptionally fine selections, one of which is a collection of Welsh songs and the other "Country Life," comprising mostly English songs. A descriptive intermezzo, "From a Russian Village," is based on "The Volga Boatmen." Mr. George Christie, the cornet soloist of the St. Kilda Band, is to play a pretty little ballad, "Garden of Happiness," by Haydn Wood.

WEDNESDAY

Auckland Features

THERE will be a talk on "Physical Culture" by Mr. Norman Kerr at 7.40 p.m.

At 8 o'clock a concert to be given by the Whangarei Municipal Silver Band, under Mr. A. Dobson, will be relayed from Whangarei.

Wellington Notes

A PROGRAMME of recorded items from overseas programmes will be broadcast this evening.

At 3YA

A DIALOGUE for the benefit of farmers will be given at 4YA, and also broadcast by 3YA. The speakers will be Messrs. R. B. Tennant and Mr. L. W. McCaskill, and the subject, "Farmer Brown talks about rotational grazing and criticises the system."

Mr. Sydney Williamson's Male Quartet, Miss Phillis Kinniburgh (pianist), and the Working Men's Club Orchestra will provide the evening's programme. The quartet comprises: Messrs. C. R. Williamson, Sydney Williamson, J. J. Hall, and Leslie Fleming, and their numbers will include "The Three Chaffers," "Because," "The Old Folks at Home," and "The Pilgrim's Chorus" (from "Tannhauser"). The solos will comprise "The Secret," "Trade Winds," "The Lass with the Delicate Air," "Mine Enemy," "Nightfall at Sea," "Till Death," "The Clock," and "The Little Girl from Hanley Way."

Miss Kinniburgh is a pianist who has played with distinction at competitions. She is an A.T.C.L., L.T.C.L., and A.L.C.M., and is a very finished pianist. The Working Men's Club Orchestra, under the baton of Mr. A. G. Heath, is an excellent combination composed mainly of professional musicians displaced from the "talkies." A popular programme will be played. As a piccolo solo, with orchestral accompaniment, Godfrey's "Yankee Doodle" will be played by Mr. T. Amos. In "Alpine Echoes," the cornet soloists will be Messrs. Fred Fox and Fred Chapman.

From Dunedin

THE subject for the afternoon talk by the Home Science Extension De-

partment of Otago University will be on "Teaching Manners."

A special "Beethoven Evening," every item being from the works of the famous composer.

During the evening, Mr. Max Scherek, president of the Society of Professional Musicians of Otago, will give a lecture on Beethoven, and the vocal portion of the musical programme will be provided by the Harmonists' Sextette, consisting of Miss Mae Matheson (soprano), Miss Evelyn Shepard (soprano), Miss Margaret Green (contralto), Mr. H. A. Johnston (tenor), Mr. S. Falconer (baritone), and Mr. W. B. Lambert (bass), with Mrs. C. Drake as pianist.

Specially featured will be the "Ruins of Athens," a wonderful work extremely popular with choral societies and containing magnificent choruses and solos.

The instrumental portion of the programme will be provided by Mr. Max Scherek and his string sextet.

THURSDAY

THE home science talk from 1YA, 2YA and 3YA, prepared by the Home Science Extension Department of Otago University, will be on "Vegetable Preserving."

From Auckland

UNDER the auspices of the New Zealand Manufacturers' Association, Mr. Frank M. Wills will speak on "Fruit Preserving and Canning."

The Savoy Male Quartet—Messrs. Bert Skeels (alto), Frank Campbell, A. Gally, and S. Hislop—will provide the vocal portion of the musical programme. They will present some attractive numbers, solo as well as concerted. Humorous dialogues will be given by Miss Maisie Carte-Lloyd and Miss Irene Terry, while the former will also recite "An Old Maid's Mistake." A programme of popular items will be presented by the Orchestral Octet. Miss Molly Atkinson will give a lecture-recital, using gramophone records, on "Scandinavian Music."

Wellington Notes

THE speaker for the afternoon home science talk will be Miss I. F. Meadows, while at 7.40 p.m. a talk on



KATHLEEN FERRIS.

A Wellington lyric soprano whose items are a source of delight to her many listeners.

—S. P. Andrew, photo.

"Romance of the Main Trunk Line" will be broadcast by Mr. J. N. Fergie.

The Wellington Orpheus Musical Society, under the conductorship of Mr. Harrison Cook, will give a studio concert in the evening. The concerted numbers will be specially fine.

Some excerpts from operas will be included. Part songs will be "Oh, Who Will O'er the Downs," and "Sleep Gentle Lady." Male voices will sing "Down Among the Dead Men" and a number of sea chanties.

A pianoforte solo will be played by Miss Adelina McGrath, F.T.O.L., L.A.B., who will also act as accompanist. Mr. L. W. Rothwell will contribute flute solos, and Mr. Richard Maunders, L.A.B. (violinist), for whom Mr. Trevor Fisher, L.A.B., will be accompanist, will play Mozart's "Rondo" and Mendelssohn's "On Wings of Song."

Christchurch Features

AN operatic-classical evening has been arranged. Mr. J. Haydn Williams's songs will include "Walter's Prize Song," "O Loss of Sight" (from "Samson") not previously sung at 3YA, and "Come, Gentle Sleep." The bass solos will be "The Wanderer," "Star of Eve" and "Vulcan's Song." Mr. W. Hay will contribute flute solos, and a fine orchestral programme will be presented by the Studio Octet under Mr. Harold Beck.

FRIDAY

From 1YA

THE pig industry, the importance of which is not adequately recognised will be the subject of a talk by Mr. Elliot R. Davis. A recent talk on the same theme by Mr. Davis, who is an acknowledged authority on the subject, aroused a great deal of interest.

Frank Wade and his Melody Boys will be contributing to a popular programme. They will present instrumental and vocal numbers. Messrs. Eric F. B. Waters and Ray Jury are appearing as a piano and xylophone duo. Humour will be provided by the Tollys. Mr. Cyril Towsey will play a pianoforte solo, Chopin's "Waltz in E Flat."

2YA Notes

A LECTURETTE on "Tourist and Health Resorts" will be given by Mr. A. E. Wilson.

Miss Kathleen Ferris (soprano) will be heard in "Villanelle," "Indian Love Call," "Jewel Song" (from "Faust"), and "Dream Lover." Mr. Noho Toki (tenor) is also on the same programme. His items will be "Macheta," "Sweet Early Violets," "When I'm Looking at You," and "I Pitch My Lonely Caravan." Two humorous sketches will be

acted by Madame Eugenie Dennis and partner.

"Silence and Fun" will be played as a trombone solo with orchestral accompaniment. The Orchestrina, under Signor A. P. Truda, will provide a very attractive programme. Vocal refrains will be introduced into two of the numbers, while in another, "Listen to the Mocking Bird," there will be bird-like effects.

From Christchurch

SINGING to orchestral accompaniment, Mr. David McGill, the popular tenor of 3YA, will give a recital of three songs: "At Dawning," "I Hear a Thrush at Eve" (both by Cadman), and the old favourite, "Alice, Where Art Thou."

Miss Agnes Cunningham's mezzo-soprano songs will include a new and pretty Irish air, "Avourneen," also the



STAN. PRITCHARD.

A well-known 1YA baritone who will give several numbers on March 28.

—S. P. Andrew, photo.

old favourite, "The Last Rose of Summer." Mr. J. Graham Young will sing four popular numbers: "The Song of the Flea," "Roadways," "Old Barty," and "The Floral Dance." A clever pianist, Mr. Sydney Hoskins, will entertain with extemporisations, at which he is an adept. Mr. Stan Birch will play Van Biene's "Broken Melody" as a banjo solo, and he will also play a medley of popular melodies. An orchestral programme will be provided by the Studio Octet.

4YA Features

Two first-class Australian singers, who are on a brief business visit to New Zealand, have rejoined forces with two of Dunedin's leading vocalists. (Continued from page 31.)

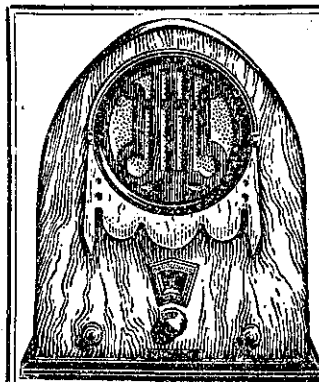
LYRATONE MARVEL MIDGET.

Precision Tuning: Clip the stations apart with ease. Reach out for the long distance without fear of interference from locals. Separate closely adjacent stations without overlap or cross talk. Super Sensitivity: Four Screen Grid—its reach is amazing. Surpasses all others.

Demand Lyratone and be Satisfied.

Wellington Agents:
F. J. W. FEAR & CO.

N.Z. Distributors:
CRAWFORD & FINLAYSON, LTD.



Full Programmes for Next

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

Sunday, March 22

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MARCH 22.

- 3.0 : Selected recordings.
 3.15: Literary selection by the Announcer.
 6.0 : Children's song service, conducted by "Uncle Bert."
 6.55: Relay of divine service from the Beresford Street Congregational Church. Preacher, The Rev. A. V. Whiting. Choirmaster, Mr. William Gemmell. Organist, Mr. Arthur Cherry.
 8.30: Selection—National Symphony Orchestra, "Orpheus in the Underworld" Soprano—Miss Reta W. MacCullay, (a) "Lullaby" (Brahms); (b) "Dewy Violets" (Scarlatti); (c) "It is Only a Tiny Garden."
 Instrumental—The Moore Sisters, Trio, "Preislied" (Wagner); "Cello, "Orientale" (Cesar Cui); Trio, "Ave Maria" (Gounod).
 Evening weather forecast and announcements.
 Piano—Mr. Cyril Towsey, "Lyric Pieces Op. 43" (Grieg); (a) "Butterflies," (b) "Lonely Wanderer," (c) "Little Birds," (d) "Poem Erotik," (e) "To the Spring."
 Selection—Royal Opera Orchestra, "1812 Overture" (Tchaikowsky).
 Bass-baritone—Mr. Albert Gibbons Taylor, (a) "The Lime Tree" (Schubert); (b) "O Salutaris Hostia" (Weiss); (c) "The Man of Sorrows" (Adams).
 Instrumental trios—The Moore Sisters, (a) "Romance" (Tchaikowsky); (b) "Menuetto" (Borresen); (c) "Waltz" (Sinding).
 Choral—Don Cossacks Choir, (a) "Evening Bells" (arr. Jaroff); (b) "Serenade" (Abt).
 Selection—Band of H.M. Grenadier Guards, "Martial Moments." God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MARCH 22.

- 3.0 to 4.30: Selected gramophone recordings.
 6.0 : Children's session, conducted by "Uncle George," assisted by the Children's Choir from the Maranui Methodist Church.
 7.0 : Relay of evening service from St. Paul's Pro-Cathedral, Mulgrave Street, Wellington. Preacher, Canon Percival James. Organist and Choirmaster, Mr. Robert Parker.
 8.15 (approx.): Studio concert. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Cavalleria Rusticana" (Mascagni).
 8.23: Mezzo-soprano—Madame Emily Briggs, with violin obligato, "Serenade"
 8.27: Cello with organ—Hans Bottermund, (a) "Evening Song" (Schumann); (b) "Thou Art Repose" (Schubert).
 8.35: Baritone—Mr. S. Evelyn Rodger, with orchestral accompaniment, (a) "The Road that Leads to You" (Geel); (b) "Uncle Rome."
 8.41: Selection—Salon Orchestra, "Liebeslied" (Paderewski); waltz, "Talisman" (Zimmermann).
 8.49: Tenor—Mr. Arthur C. Clark, with orchestral accompaniment, (a) "Song of Luring"; (b) "Faery Song" (both numbers from "The Immortal Hour" (Rutland Boughton).
 8.54: Violin—Mr. W. Haydock and Salon Orchestra, "Andante de la Symphonie Espagnole" (Lalo).
 9.2 : Weather report and station notices.
 9.4 : Band—H.M. Grenadier Guards, "Merrie England" (German).
 9.12: Vocal duet—Madame Emily Briggs and Mr. S. Evelyn Rodger, "What Have I To Do With Thee?" (from "Elijah") (Mendelssohn).
 9.17: Ballet music—Salon Orchestra, "Coppelia Ballet" (Delibes).
 9.25: Tenor—Mr. Arthur C. Clark, "Nymphs and Shepherds" (Purcell).
 9.29: Piano—Mr. Gordon Short, "Two Viennese Waltzes" (Godowsky).
 9.36: Mezzo-soprano—Madame Emily Briggs, with orchestral accompaniment, (a) "Hindoo Song" (Bemberg); (b) "In Summer Time in Bredon" (Graham-Peel).
 9.43: Choir—Tomanerchor Leipzig, (a) "Es Ist Ein Reis Entsprung" (Pratorius); (b) "Stille Nacht, Lellige Nacht" (Gruber).
 9.51: Selection—Salon Orchestra, "Maid of the Mountains" (Fraser-Simson).
 10.0 : God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, MARCH 22.

- 3.0 : Gramophone recital.
 5.30: Children's Song Service by children of the Methodist Sunday Schools.
 6.15: Chimes from studio.
 6.30: Relay of evening service from St. Mary's Anglican Church, Merivale. Preacher: Ven. Archdeacon P. B. Haggitt. Choir Conductor and Organist: Mr. Alfred Worsley.
 7.45 (approx.): Musical recordings from studio.
 8.0 (approx.): Relay of Studio programme from 4YA, Dunedin.
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MARCH 22

- 3.0 : Selected recordings.
 5.30: Children's Song Service, conducted by "Big Brother Bill."
 6.15: Instrumental recordings.
 6.30: Relay from First Church of Otago of special service in connection with the 83rd Anniversary of Otago. At this service His Worship the Mayor, City Councillors, and Representatives of the Early Settlers' Association and other public bodies will be present.
 7.45: Selected recordings.
 8.15: Overture—Salon Orchestra, under the direction of Mr. A. H. Pettitt, "Life's Laughter" (Rust); Viennese Air, "Old Vienna" (Drda); March, "Nussdorf" (Lorens).
 8.26: Tenor—Mr. Ernest Drake, (a) "Annabelle Lee" (Leslie), (b) "June Music" (Trent); (c) "The Questioner" (Schubert).
 8.36: Selection—Salon Orchestra, "Masquerade" (Byford): 1. "Diabolo Dance"; (2) "Confession"; (3) "Minuetina"; (4) "Dawn of Hope."
 8.51: Choral—Erk's Male Chorus, "The Linden Tree" (Schubert-Stange).
 8.55: Soprano—Miss Molly Vickers, (a) "The Song of Thanksgiving"; (b) "The Lord Is My Light" (Allitsen); (c) "The Prayer Perfect."
 9.4 : Weather report and station notices.
 9.6 : Humorous Interlude—Salon Orchestra, "The Cat and the Mouse" (Engelman); Valse Triste, "Ashes of Roses" (Arnold).
 9.16: Baritone—Mr. William Ruffell, (a) "Thou'rt Passing Hence" (Sullivan); (b) "Les Rameaux" (Faure); (c) "When I Survey."
 9.27: Selections—Salon Orchestra, (a) "H.M.S. Pinafore" (Sullivan); (b) "Fete De Lisette" (Byford).
 9.39: Choral—Erk's Male Choir, "The Gondolier" (Schubert).
 9.43: Contralto—Mrs. Nellie G. Shrimpton, (a) "Alleluia" (Morris); (b) "Robin Adair" (Burns); (c) "Salaam" (Lang).
 9.52: Selection—Victor Symphony Orchestra, "Dance of the Hours."
 10.0 : God save the King.

5YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, MARCH 22.

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

Monday, March 23

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, MARCH 23.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, MARCH 23.

- 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.
 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 Avaient des Ailes."
 Bernardo Gallico and His Orchestra, "The Clock is Playing" (Blaauw).
 J. H. Squire's Celeste Octet, "Valse Caprice" (Rubenstein).
 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" (Poupee Valsante) (Poldini); "Silhouettes—The Dreamer."
 Columbia Symphony Orchestra, "Badinage" (Herbert).
 Zurich Tonhalle Orchestra, "Il Sraglio" Overture (Mozart).
 Symphony Orchestra, "Coppelia Ballet—Entr'acte and Valse."
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Der Freischutz" (Weber).
 8.10: Recital by Mr. H. Temple White (organ), Mr. Leon de Mauny (violin), Miss Hilda Chudley (contralto).
 Violin and organ—"Sonata in A Major" (Handel).
 Contralto, violin and organ—"Reve Angelique" (Rubenstein).
 8.25: Selection—Orchestra, "Symphonie Militaire in G Major" (Haydn).
 8.33: Baritone—Mr. Ernest Short, with orchestral accompaniment, (a) "The Pauper's Drive" (Homer); (b) "The White Dove" (Lehar).
 8.39: Deman String Quartet, "German Dances, Minuets Nos. 3 and 5."
 8.47: Clarinet and trumpet duet with orchestral accompaniment—"Berceuse."
 8.51: Male choir—Ural Cossacks, (a) "Dir Singen Wir" (Liwowski); (b) "Die Huld des Friedens" (Fatajoff).

Week-all Stations-to Mar. 29

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

- 9.0 : Weather report and station notices.
 9.2 : Dances—Orchestra, "Two Spanish Dances" (Moszkowski).
 9.10: Recital by Mr. H. Temple White (organ), Mr. Leon de Mauny (violin), Miss Hilda Chudley (contralto).
 Violin and organ—(a) "Meditation" (from "Thais") (Massenet).
 Contralto, violin and organ—(b) "Farewell to Summer" (Noel Johnson); organ, (c) "Triumphal March" (Lemmens).
 9.25: Choir—Sieber Choir, (a) "The Mill in the Black Forest" (Ellenberg); (b) "Faust Waltz, Act 2" (Gounod).
 9.33: Air—Orchestra, "Old Vienna" (Drdla); "Minuet" (Paderewski).
 9.41: Baritone—Mr. Ernest Short, with orchestral accompaniment, "Largo Al Factotum" (from "The Barber of Seville") (Rossini).
 9.45: Cello—Gaspar Cassado, (a) "Mazurka" (Popper); (b) "Guitarre." 9.53: Serenade—Orchestra, (a) "Demain" (Blon); (b) "From Foreign Parts" (Moszkowski).
 10.3 : Dance programme.
 Foxtrots—Jack Hylton and His Orchestra, "The King's Horses." Ted Weems and His Orchestra, "My Baby Just Cares for Me." Nat Shilkret and His Orchestra, "Dixiana" (Caldwell). Ted Weems and His Orchestra, "A Girl Friend of a Boy Friend of Mine" (Kahn).
 10.15: Waltz—Nat Shilkret and His Orchestra, "Dancing with Tears in My Eyes" (Dubbin).
 Foxtrots—The High Hatters, "Anchors Aweigh" (Zimmermann). Jack Hylton and His Orchestra, "Adeline" (Nicholls). The High Hatters, "The Mug Song" (Gaskill).
 10.27: Vocal—Aileen Stanley, "Swingin' in a Hammock" (Seymour).

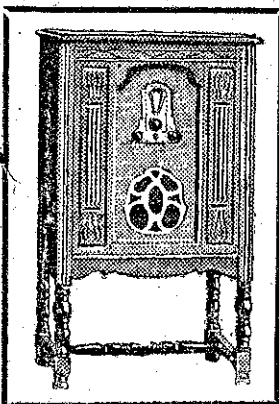
- 10.30: Foxtrots—Nat Shilkret and His Orchestra, "How Are You To-night in Hawaii" (Leslie-Warren).
 Nat Shilkret and His Orchestra, "Mr. and Mrs. Sippi." Green Brothers' Marimba Orchestra, "Lo Lo" (Feist).
 Nat Shilkret and His Orchestra, "Why Have You Forgotten Waikiki" (Kahn).
 10.42: Waltz—International Novelty Quartet, "Jolly Fellows" (Vollstedt). Foxtrots—Marimba Centro Americana, "Forget You? Never!" International Novelty Quartet, "Knocked 'Em in the Old Kent Road" (Ingle).
 10.51: Vocal—Aileen Stanley, "I Love You So Much" (Kalmar).
 10.54: Foxtrots—Ben Bernie and His Orchestra, "It's a Lonesome Old Town." Waring's Pennsylvanians, "Little White Lies" (Donaldson). Ben Bernie and His Orchestra, "Au Revoir—Pleasant Dreams" (Meskill).
 11.3 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, MARCH 23.

- 3.0 : Gramophone recital.
 4.25: Sports results.
 5.0 : Children's hour, conducted by "Cousin Margot" and "The Mystery Man."
 6.0 : Dinner music session.
 Band of H.M. Grenadier Guards, "Sir Harry Lauder Medley." J. H. Squire's Celeste Octet, "Second Movement From Symphonie Pathetique" (Tchaikowsky, arrgd. Robertson).
 Modern Dance Players, "Amoretten Tanze" (Gungl).
 Court Symphony Orchestra, "The Windmill Man." Organ—Stanley Macdonald, "The Rosary" (Nevin).
 Symphony Orchestra, "When the Lemons Bloom" (Strauss).
 Plaza Theatre Orchestra, "The Three Bears" (Contes).
 Symphony Orchestra, "Doctrinen" (Strauss).
 Continental Novelty Orchestra, "Las Lagarteranas." New York Symphony Orchestra, "Entrance of the Little Fauns." B.C. Wireless Military Band, "Le Reve Passe" (Krier and Helmer). J. H. Squire's Celeste Octet, "Scene De Ballet." Organ—Stanley Macdonald, "La Rosita" (Dupont).
 Continental Novelty Orchestra, "Los Claveles De Sevilla."
 7.0 : News session.
 8.0 : Chimes.
 Programme by Woolston Brass Band (Conductor R. J. Estall) and 3YA artists.
 March—Band, "Harlequin" (Rimmer): Overture, "Nabucodonosor." 8.12: Baritone—Mr. K. M. Fountain, (a) "The Watchman" (Squire); (b) "The Return" (Halliday).
 8.18: Two pianos—Wilhelm Gross and Walter Kauffmann, "Shimmy" (from "Baby in the Bar") (Gross).
 8.22: Soprano—Miss Helen McKay, (a) "The Cuckoo!" (Lehmann) (from "More Daisies"), (b) "Spreading the News" (Oliver).
 8.27: Duo D'Amour—Band, "Gallantry" (Ketelby).
 8.32: Humour—Mr. Jack P. Darragh, "The Tale of Little Shakum" (M.S.).
 8.37: Cello—Edmund Kurtz, "Mazurka" (Werkmeister).
 8.41: Mezzo-soprano—Miss Leila Black, (a) "Trees" (Rasbach); (b) "Lilacs" (Wright).
 8.47: Cornet solo—Bandman R. Ohlsen, "The Caledonians" (Allison).
 8.53: Tenor—Mr. W. J. Bischlager, "Lorraine" (Sanderson).
 8.57: Two pianos—William Gross and Walter Kauffmann, "Tango."
 9.1 : Weather forecast and station notices.
 9.3 : Super Cinema Orchestra, "Love's Dream After the Ball" (Czibulka).
 9.7 : Baritone—Mr. K. M. Fountain, "The Toilers" (Piccolomini).
 9.11: Humoresque—Band, "The Coster's Courtship" (McKenzie).
 9.18: Soprano—Miss Helen McKay, (a) "Good-Morning Brother Sunshine" (Lehmann), (b) "Thank You For Thanking Me" (Ceci).
 9.23: Cello—Edmund Kurtz, "Minuet in D Major" (Werkmeister).
 9.27: Humour—Mr. Jack P. Darragh, "A Triple Toast" (M.S.).
 9.32: Selection—Band, "Ballet Egyptien" (Luigini).
 9.40: Mezzo-soprano—Miss Leila Black, (a) "A Memory" (Goring Thomas), (b) "Sleepy Hollow Tune" (Kountz).
 9.44: Balalaika Orchestra Gorskaja, (a) "Romanze" (Folk song); (b) "Gipsy Romance" (trdl.).
 9.50: Tenor—Mr. W. J. Bischlager, (a) "Entreaty" (Wilson Smith); (b) "Requiem" (Homer).
 9.56: Dance intermezzo—Band, "Wedgwood Blue" (Ketelby): March, "B.B. and C.F." (Ord Hume).
 10.5 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, MARCH 23.

- 2.30: Relay from Early Settlers' Hall, Dunedin, of speeches and musical items on the occasion of the 83rd Anniversary of Otago.
 5.0 : Children's Hour, conducted by "Big Brother Bill."



MAKING LONG EVENINGS SHORTER

With the return from "Summer Time" to Standard Time you must consider in what way you will spend the dark evening hours in the near future.

Your tennis, bowls, gardening are over for the season.

Resolve NOW that you will make this a radio winter. This done, lose no time in having the latest Stewart-Warner Radio full-size console installed. Listen to those delicate shades of feeling from the most distant stations rendered faithfully by this wonderful radio. You rarely use full power, for Stewart-Warner, as thousands know, has just proved itself the long distance champion in the "Radio Record" open competition for any set of any make. Distant stations come in with all the clarity of a local.

Stewart-Warner Radio's many modern improvements give you a perfected, powerful musical instrument right in your own home—something beautiful that you can be proud of and your cheerful companion and entertainer for years to come.

Buy this Radio early.

STEWART-WARNER RADIO

Screen Grid Circuit

KNOWN THE WORLD OVER AND SOLD IN
NEW ZEALAND BY A HUNDRED DEALERS.

Radio
AUCKLAND

Hope Gibbons Ltd
CHRISTCHURCH

Division
WELLINGTON.

6.0 : Dinner music session.

New Mayfair Orchestra, "Lilac Time" (Schubert, arr. Clutsam).
 San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski),
 (b) "Aubade" (Auber).
 Creatore's Band, "Semiramide" Overture (Rossini).
 New Light Symphony Orchestra, "Spanish Serenade" (Bizet);
 "Narcissus" (Nevin).
 Trio—De Groot-Pacey-Gibilaro, "O Sole Mio" (Di Capua).
 San Francisco Symphony Orchestra, "Liebesleid" (Kreisler); "Valse
 De Concert" (Glazounov).
 New Light Symphony Orchestra, "Spring Song" (Mendelssohn).
 National Symphony Orchestra, "William Tell" Overture (Rossini).
 New Light Symphony Orchestra, "Spanish Dance No. 1."

7.0 : News session.

7.45: Chimes.

Relay from Early Settlers' Hall, Dunedin, of a concert arranged by
 the Otago Early Settlers' Association on the occasion of the 83rd
 Anniversary of Otago.

10.0 (approx.): God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, MARCH 23.

6.30: Children's session.

7.30: News, markets, and information.

8.0 : Studio concert.

Tuesday, March 24

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, MARCH 24.

3.0 : Selected recordings.

3.15: Talk—Mrs. Les Crane, "Health of Mind and Body in Relation to Diet."

3.30: Further selected recordings.

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

6.0 : Dinner music session.

Edith Lorand's Orchestra, "Johann Strauss" Fantasia (Strauss).
 Grand Symphony Orchestra, "Tales of Hoffman—Barcarolle."
 Edith Lorand's Orchestra, "The Flowers' Dream" (Translatour);
 "Faust Fantasia" (Gounod); "Wedding of the Winds" (Hall).
 Berlin State Opera Orchestra, "Italiana in Algeria" (Rossini).
 "Cello—Orabio de Castro, "Nocturne in E Flat" (Chopin).
 Grand Symphony Orchestra, "Tra Diavolo" (Auber); "Tales of Hoff-
 man Entr'acte and Minuet" (Offenbach).
 Edith Lorand's Orchestra, "Song of Autumn" (Waldteufel).

7.0 : News and market reports.

7.40: Talk—Mr. N. M. Richmond, Introductory Remarks on the Series of W.E.A. Lecturettes on "Questions of the Day."

8.0 : Chimes.

March—Orchestral Octet, under direction of Mr. Harold Baxter,
 "Shoulder to Shoulder" (Arthur); Morceaux, (a) "Melodie"
 (Frml); (b) "Menuetta All'Antico" (Karganoff).

8.10: Soprano—Miss Gwenda Weir, (a) "Rose Softly Blooming" (Spohr);
 (b) "Diaphenia" (Samuel).8.22: Orchestral Octet, (a) "Arabian Serenade" (Langey); (b) "Medita-
 tion" (Drumm); Selection, "The Firefly" (Frml).

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

8.52: Selection—Orchestral Octet, "Schubert Songs" (arr. Roberts).

9.4 : Evening weather forecast and announcements.

9.6 : Baritone—Mr. H. Barry Coney, (a) "Arouse Thee, O Zion" (Bach);
 (b) "Like a Blossoming Lilac" (Brahms); (c) "Non Pleu Andrai."9.18: Waltz—Orchestral Octet, "From the Mountain's Summit" (Faust);
 Intermezzo, "Wedgwood Blue" (Ketelbey).

9.30: Programme of dance music.

Foxtrots—Paul Tremaine and His Orchestra, "Hand Me Down My
 Walkin' Cane" (arr. Tremaine).

Paul Whiteman and His Orchestra, "Happy Feet" (Yellen).

Ray Starita and His Ambassadors Band, "Ev'ry Little
 Moment" (Newman).

Paul Whiteman and His Orchestra, "A Bench in the Park."

9.42: Waltzes—Russian Novelty Orchestra, "Greetings of Spring."
 Novelty Dance Orchestra, "Sobbing Waltz."

9.48: Vocal—James Melton, "Neapolitan Nights."

9.51: Foxtrots—Ben Selvin and His Orchestra, "The Woman in the Shoe."
 Paul Whiteman and His Orchestra, "Should I?" (Brown).
 The Rhythmic Troubadours, "On Her Doorstep Last Night."10.0 : Waltzes—Paul Whiteman and His Orchestra, "A Bundle of Old Love
 Letters" (Brown).

Moana Orchestra, "Imi Au Ia Oe" (King).

Foxtrots—The Rhythmic Troubadours, "Fairly on the Clock" (Myers).

Ben Selvin and His Orchestra, "Only Love is Real."

9.12: Vocal—Ernest Hastings, "Perverted Placards" (Bateman).

9.15: Foxtrots—Paul Specht and His Orchestra, "The Harbour of My Heart."
 Gild Dech and His Syncopators, "Let's Be Common."

Paul Specht and His Orchestra, "Keepin' Myself for You."

Ray Starita and His Ambassadors Band, "Spread a Little
 Happiness" (Grey).

9.27: Waltzes—Russian Novelty Orchestra, "The Love of a Gipsy."
 Novelty Dance Orchestra, "First Love Waltz."

9.33: Foxtrots—Ben Selvin and His Orchestra, "Song of the Islands."

Moana Orchestra, "For You a Lei" (Noble).

Gil Dech and His Syncopators, "Nobody's Using It Now."

10.42: Vocal—James Melton, "Dear Little Mother of Mine."

10.45: Foxtrots—Guy Lombardo and His Royal Canadians, "With You."

Will Osborne and His Orchestra, "I Knew We Two Were
 One" (Denniker).

Guy Lombardo and His Royal Canadians, "There's Danger
 in Your Eyes, Cherie" (Richman).

Waltzes—Moana Orchestra, "My Hawaiian Souvenir" (King).

Vic Meyer and His Band, "If I'm Dreaming" (Burke).

11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, MARCH 24.

3.0 : Chimes. Selected gramophone recordings.

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.

Grand Symphony Orchestra, "Raymond Overture" (Thomas).

Edith Lorand Orchestra, "Wine, Woman and Song" (Strauss).

Orchestra Mascotte with Edith Lorand, "Siren Magic" (Waldteufel).

Orchestra of the Opera Comique, Paris, "Scenes Pittoresques," (a)
 "Marche"; (b) "Fete Boheme" (Massenet).

Dr. Ormandy's Instrumental Trio, "Barcarolle" (Offenbach).

Edith Lorand Orchestra, "Minuet" (Boccherini).

Edith Lorand Trio, "Trio" (Goldmark).

Edith Lorand Orchestra, "Tales from the Vienna Woods" (Strauss).

The Royal Music Makers, "Ah! Sweet Mystery of Life."

Orchestra Mascotte with Edith Lorand, "I'd Like to Kiss the Ladies."

Edith Lorand Orchestra, "Toreador and Andalouse" (Rubinstein);
 "Roses of the South" (Strauss).

Dr. Ormandy's Instrumental Trio, "From the Land of the Sky-blue
 Water" (Cadman).

The Royal Music Makers, "Kiss Me Again" (Herbert).

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), "Sullivan's
 Popular Songs" (arr. Henley).

8.10: Baritone—Mr. L. Bent with Orchestral Accompaniment, (a) "Desert
 Song" (Romberg); (b) "One Alone" (Romberg).8.16: Accordeon Duo—Gellin and Borgstrom, (a) "Firefly"; (b) "Snow
 Waltz" (Nicholls).8.20: Soprano—Miss Gwladys Edwardes with Orchestral Accompaniment,
 (a) "Mifawny" (Forster); (b) "Mighty Like a Rose" (Gordon).

8.26: Morceau—Salon Orchestra, "Gavotte Mignon" (Thomas).

Violin—Mr. W. Haydock, "Legende" (Wienlawski).

8.35: Tenor—Mr. Stewart Nelson, with Orchestral Accompaniment, (a) "At
 Dawning" (Cadman); (b) "Down the Vale" (Moir).8.41: Balalaika Orchestra Gorskaja, (a) "Der Sehnsucht"; (b) "Der Letzte
 Sechser" (Trad'l).

8.49: Suite—Salon Orchestra, "Madame Butterfly" (Puccini).

9.0 : Weather report and station announcements.

9.2 : The Sketchers, "The Last Post" (Mrs. Barry Pain).

9.16: Salon Orchestra, "Cleopatra Suite" (Part 4) (Oemler).

9.24: Baritone—Mr. L. Bent, with Orchestral Accompaniment, (a) "Whis-
 per of Heaven"; (b) "Shadows of Spring" (Erma Moewa Kaihan).9.30: Descriptive ballad—Francis Russell and Stuart Hibberd, "The Death
 of Nelson" (Braham).9.38: Soprano—Miss Gwladys Edwardes, with Orchestral Accompaniment,
 (a) "Coming Home" (Willeby); (b) "Valley of Laughter."

9.44: Novelty—Stern Mouth Organ Band, "Brownies' Parade" (Noack).

9.47: Tenor—Mr. Stewart Nelson, with Orchestral Accompaniment, (a)
 "Garden of Your Heart" (Dorel); (b) "In An Old-Fashioned
 Town" (Squire).

9.53: Salon Orchestra, "Latest Dance Novelties."

10.1 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, MARCH 24.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, MARCH 24.

3.0 : Chimes. Selected recordings.

5.0 : Children's hour, conducted by "Wendy."

6.0 : Dinner music session.

March—American Legion Band, "The Conqueror" (Teike).

Selection—Savoy Orpheans, "Lido Lady" (Rodgers).

New Light Symphony Orchestra, "Rustic Wedding Symphony."

Victor Olof Sextet, "To a Water Lily" (Macdowell).

Berlin State Opera Orchestra, "The Caliph of Bagdad" (Boildieu).

New Light Symphony Orchestra, "Spanish Dance" (Moszkowski).

Organ—Reginald Foort, "Just Like a Darby and Joan" (Gilbert).

Jack Hylton's Orchestra, "The Selfish Giant" (Coates).

Victor Olof Sextet, (a) "To a Wild Rose," (b) "In Autumn."

Violin and organ—De Groot and Terence Casey, "Parted" (Tosti).

Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli).

Organ—Reginald Foort, "Love Lies" (Kellard).

March—American Legion Band, "Iowa Corn Song" (arr. Beeston).

7.0 : News session.

- 7.40: Talk—Mr. R. Malcolm, "Motoring." Under the auspices of Motor Club.
 8.0: Chimes. Studio programme by St. Kilda Band, under direction of Mr. James Dixon, assisted by 4YA artists.
 March—Band, "Stars and Stripes" (Souza).
 8.7: Contralto—Miss Constance Poole, (a) "To Music" (Schubert); (b) "The Star" (Rogers); (c) "Meadowsweet" (Brahe).
 8.16: Two pianos—William Gros and Walter Kauffmann, (a) "Water Colour Pictures," (b) "Annen Polka" (Joh. Strauss).
 8.22: Waltz—Band, "Honey Flowers" (Rimmer).
 8.29: Recital—Mr. A. Corrie, "Henry Wadsworth Longfellow."
 8.44: Zither—Karl Puhlinger, (a) "Cheer Up Polka" (Ziehrer); (b) "Swiss Babies Waltz" (Chlumsky).
 8.50: Fantasia—Band, "Country Life" (Le Duc).
 9.0: Weather report and station notices.
 9.2: Herman Finck and His Orchestra, "Old and New Potpourri of Popular Melodies" (arr. Finck).
 9.10: Baritone—Mr. Bert Rawlinson, (a) "Sound the Pibroch" (Traditional); (b) "Ho-ro-mo Nigheua Donn Choidheach" (Anon.); (c) "Lang Syne" (Knight).
 9.19: Selection—Band, "Welsh Songs" (Fost).
 Cornet—Mr. G. Christie, "Garden of Happiness" (Wood).
 9.30: Soprano—Miss Rita Holmes, (a) "My Dreamland Rose" (Phillips); (b) "Do Not Go, My Love" (Hageman); (c) "Flower of Love."
 9.39: Balalaika orchestra—Gorskaja, with Male Quartet, (a) "Stand Bin Birkenbaum" (Traditional); (b) "Volga Folk Song" (Traditional).
 9.46: Descriptive intermezzo—Band, "From a Russian Village" (Marsden).
 March—Band, "Great Little Army" (Alford).
 10.0: God save the King.

Wednesday, March 25

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, MARCH 25.

- 3.0: Selected recordings.
 3.15: Literary selection, followed by further selected recordings.
 5.0: Children's session, conducted by "Uncle Reg."
 6.0: Dinner session.
 Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde); (b) "Mignonette" (Nicholls); (c) "Eldgaffein" (Landen); (d) "The Grenadiers."
 Frank Westfield's Orchestra, "Classica" (arr. Tilsley).
 Dajos Bela Orchestra, "Dancing Demoiselle" (Fall).

The "LAST WORD" in RADIO Construction

The chassis used in any Gulbransen model is the "last word" in radio construction. Designed by world-famous radio technicians who have successfully incorporated every proven feature in the latest models. They have used such wonderful inventions as screen-grid with perfected tone control to assist in making the Gulbransen pre-eminent amongst radio receivers.

"Precision built" is the guiding force behind the turning out of the "heart" of the Gulbransen receiver, and the Combination Radio-Gramophone Model, with built-in shortwave adapter (if desired), the High Boy or Low Boy and the Minuet Model are masterpieces which are worthy of your inspection.

Your Nearest Dealer will Demonstrate any Model with Pleasure

GULBRANSEN

N.Z. DISTRIBUTORS:
H. W. CLARKE LTD.

182. Wakefield St.,

Wellington

- Raie da Costa Ensemble, "Tunny Face" (Gershwin).
 Dajos Bela Orchestra, "Polish Life" (Nedbal).
 Edith Lorand Orchestra, "The Dollar Princess" (Fall).
 Orchestra Mascotte, (a) "The Flowers' Dream" (Traducteur); (b) "Whispering of the Flowers" (Von Blon).
 Dajos Bela Orchestra, "Electric Girl" (Helmburgh-Holmes); "Casino Tanze" (Gungl).
 7.0: News and market reports.
 7.40: Talk—Mr. Norman Kerr, "Physical Culture."
 8.0: Chimes. Relay from the Whangarei Town Hall of a Concert to be Given by the Whangarei Municipal Silver Band, under the Conductorship of Mr. A. Dobson.
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, MARCH 25.

- 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.
 Symphony Orchestra, "Die Fledermaus" (Strauss).
 Paul Godwin Orchestra, "Japanese Cherry Blossom Festival" (Yoshitomo); "Egyptian March" (Strauss); "The Circus Princess."
 Ilja Lischakoff and His Orchestra, "Estrellita" (Ponce-Davis).
 Paul Godwin Orchestra, "Japanese Lantern Dance" (Yoshitomo).
 State Opera Orchestra, Berlin-Charlottenburg, "La Gazza Ladra."
 Paul Godwin Orchestra, "Spring's Awakening" (Bach).
 Ilja Lischakoff and His Orchestra, "Pas des Echarpes."
 Paul Godwin and His Orchestra, "Third Waltz Medley" (Robrecht).
 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 Melody Land.
 Abroad with the Lockharts.
 International talk—Dr. Guy H. Scholefield, O.B.E.
 Hy-Wide and Handsome.
 International dance programme.
 God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—WEDNESDAY, MAR. 25

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, conducted by "Uncle John."
 6.0: Dinner music session.
 Bohemian Orchestra, "Love and Life in Vienna."
 Organ—G. T. Pattman, "Alice, Where Art Thou?" (trdtl.).
 Bruno Walter and Berlin Philharmonic Orchestra, "Roses of the South" (Strauss).
 Band of H.M. Grenadier Guards, "Ivanhoe" Selection.
 Edith Lorand's Orchestra, "Venetian Barcarolle" (Leoncavallo).
 Bohemian Orchestra, "Destiny Waltz" (Baynes).
 Edith Lorand's Orchestra, "La Serenade" (Metra).
 Plaza Theatre Orchestra, "A La Gavotte" (Finck).
 Dajos Bela Orchestra, "Schatz Waltz" (The Gypsy Baron) (Strauss).
 J. H. Squire's Celeste Octet, "La Serenata" (Braga).
 Venetian Players String Quintet, "Romanza" (Mozart, arrgd. Sear).
 Dajos Bela Orchestra, "Moonlight on the Alster" (Fetras).
 Plaza Theatre Orchestra, "Minuet" (Finck).
 Organ—G. T. Pattman, "Cinderella Waltz" (Pattman).
 J. H. Squire's Celeste Octet, "Serenade."
 7.0: News session.
 7.15: Relay of Dialogue from 4YA Dunedin—Messrs. R. B. Tennant and L. W. McCaskill, "Farmer Brown talks about Rotational Grazing and Criticises the System."
 7.30: Addington stock market reports.
 8.0: Chimes.
 Overture—Grand Symphony Orchestra, "Fra Diavolo" (Auber).
 8.8: Male quartet—Sidney Williamson's Male Quartet, "The Three Chafers."
 Tenor—Mr. Chas. R. Williamson, "The Secret" (Scott).
 Sidney Williamson's Male Quartet, "Because" (D'Hardelot).
 8.15: March—Working Men's Club Orchestra (Conductor Mr. A. G. Heath)
 "Staunch and True" (Telke).
 8.23: Dialogue—Clapham and Dwyer, "On Photography."
 8.29: Piano—Miss Phyllis Kinniburgh, (a) "Berceuse" (Chopin), (b) "1st Wiener Tanze" (Friedman).
 8.34: Tenor—Mr. Sidney Williamson, "The Lass With the Delicate Air."
 Vocal Quartet—Sidney Williamson's Male Quartet, "The Old Folks at Home" (Foster, arrgd. Dicks).
 8.40: Piccolo solo and orchestra—Mr. T. Amos and, Orchestra, "Yankee Doodle" (Godfrey).
 Waltz—"Il Bacio" (Arditi): Serenade, "Serenata Mexicana 'Lella'"
 8.50: Bass—Mr. Leslie Fleming (a) "Mine Enemy" (Rudd); (b) "Till Death" (Mascheroni).
 Male quartet—Williamson Male Duo, "Go Pretty Rose" (Marzials).
 8.58: Xylophone and orchestra—Franz Kruger, "The Spanish Beggar Girl."
 9.4: Weather forecast and station notices.
 9.6: Mazurka Caprice—Orchestra, "Sunshine and Roses" (Dorn).
 9.12: Tenor—Mr. Chas. R. Williamson, "Nightfall at Sea" (Phillips).
 Sidney Williamson's Male Quartet, (a) "It's Oh! To Be a Wild Wind" (Elgar); (b) "Softly Dream" (Fischer).

- 9.17: Novelty—Winkler Trio, (a) "Forest Songsters" (Ziehrer); (b) "Schiebl Waltz" (Schrammel).
 9.28: Baritone—Mr. J. J. Hall, (a) "Trade Winds" (Keel); (b) "The Little Girl From Hanley Way" (Coningsby Clarke).
 9.28: Cornet—Mr. Fred Fox, Mr. Fred Chapman and Orchestra, "Alpine Echoes" (Hartfuth).
 9.36: Piano—Miss Phyllis Kinniburgh, (a) "Study in O Sharp Minor" (Chopin); (b) "Capriccio" (York Bowen).
 9.41: Tenor—Mr. Sidney Williamson, "The Clock" (Loewe).
 Sidney Williamson's Male Quartet. Introduction by Mr. J. J. Hall, "The Pilgrims' Chorus" (from "Tannhauser") (Wagner).
 9.48: Dance intermezzo—Working Men's Club Orchestra, "Laughing Eyes" (Finck); two step, "Miss Liberty" (Leroy).
 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, MARCH 25.

- 5.0: Chimes—Selected recordings.
 5.15: Talk—"Teaching Manners." Prepared by the Home Science Extension Department of Otago University.
 5.0: Children's hour, conducted by "Big Brother Bill."
 5.0: Dinner music session.
 Great Symphony Orchestra, "Countess Mariza" Medley (Kalman).
 Paul Godwin Quartet, "Octobre" (Tschalkowsky); "Serenade Des Mandolines" (Desormes).
 Paul Godwin Orchestra, "The Bird Seller" (Zeller).
 Paul Godwin Quartet, "Un Peu D'Amour" (Silesu); "Serenata D'Amalfi" (Beccia).
 Polydor Orchestra, "Aus Winkeln Und Gassen" (Hannemann).
 Paul Godwin Quartet, "Intermezzo Russ" (Franke).
 Paul Godwin Trio, "La Lettre De Manon" (Gillet).
 Ilya Livschakoff Orchestra, "The Land of Smiles" (Lehar).
 7.0: News session.
 7.15: Dialogue—Messrs R. B. Tennent and L. W. McCaskill "Farmer Brown Discusses Rotational Grazing and Criticises the System."
 8.0: Chimes.
 Overture—London Symphony Orchestra, "Coriolan" (Beethoven).
 8.9: Lecture—Mr. Max. Scherek, President of Society of Professional Musicians of Otago, "Beethoven."
 8.11: Presentation by Harmonists' Sextette of "Ruins of Athens."
 Sopranos—Misses Mae Matheson and Evelyn Shepard.
 Contralto—Miss Margaret Green.
 Tenor—Mr. H. A. Johnston.
 Baritone—Mr. Stuart Falconer.
 Bass—Mr. W. B. Lambert.
 Chorus—"Daughter of Hightrowned Jove."
 Duet—"Faultless, Yet Hated."
 Chorus—"When Thou Didst Frown."
 Piano—"Marcia Alla Turca."
 March and chorus—"Twine Ye the Garlands."
 Chorus—"Susceptible Hearts."
 Solo—"Deign, Great Apollo."
 Chorus—"Let Him Appear in Form and Feature."
 Finale—"Hail, Mighty Master, Hail."
 9.49: Piano and Strings—Mr. Max Scherek, "First Movement From G Major Concerto" (Beethoven).
 9.4: Weather report and station notices.
 9.6: Soprano—Miss Mae Matheson, "Contrition" (Beethoven).
 9.10: Tenor—Mr. H. A. Johnston, "Adelaide" (Beethoven).
 9.15: Piano and Strings—Max Scherek, "Second and Third Movement From G Major Concerto" (Beethoven).
 9.32: Dance programme.
 Foxtrots—Alfredo and His Band, "Sweetheart of All My Dreams."
 The Blue Jays, "Dance of the Paper Dolls" (Tucker).
 Alfredo and His Band, "Deep Night" (Henderson).
 The Blue Jays, "The Toy-maker's Dream" (Golden).
 9.44: Waltzes—Alfredo and His Band, "My Song of the Nile" (De Sylva); "I'll Always Be In Love With You" (Ruby).
 Foxtrots—Alfredo and His Band, "Turn on the Heat" (De Sylva); "This is Heaven" (Yellen); "If I Had a Talking Picture of You."
 Vocal—G. H. Elliott, "Muddlin' Thro'" (Howard Flynn).
 10.2: Foxtrots—Alfredo and His Band, "Little Pal" (De Sylva); "Laughing Marionette" (Collins); "Why Can't You?" (De Sylva).
 Waltz—Alfredo and His Band, "Sometimes" (Elizalde); "Let Me Dream In Your Arms Again" (Nicholls).
 10.17: Vocal—Stanley Kirkby, "My Mother's Eyes" (Baer).
 Foxtrots—Radio Rhythm Boys, "Painting the Clouds With Sunshine."
 Alfredo and His Band, "Mean To Me" (Turk).
 Radio Rhythm Boys, "Tiptoe Thro' the Tulips With Me."
 The Plaza Band, "A Precious Little Thing Called Love."
 10.32: Waltz—Alfredo and His Band, "Lady Divine" (Shilkret).
 Foxtrot—Harry Hudson's Melody Men, "Why Do I Love You?"
 Two-step—Bal Musette Orchestra, "Mayorgua" (Brunel).
 Vocal—G. H. Elliott, "Yodelling Coon" (Howard Flynn).
 10.44: Foxtrots—Alfredo and His Band, "I've Never Seen a Smile Like Yours" (Johnson); "I Think of What You Used to Think of Me" (Turk).
 Harry Hudson's Melody Men, "Oh Man River" (Kern).
 Alfredo and His Band, "I Don't Know Why I Do It, But I Do"; "Do Something" (Green).
 Dutch Dance—Bal Musette Orchestra, "Rafle" (Berniaux).
 11.2: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, MARCH 25.

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

Thursday, March 26

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, MARCH 26.

- 8.0: Selected recordings.
 8.15: Talk—"Vegetable Preserving." Arranged by the Home Science Extension Department of Otago University.
 5.0: Children's session, conducted by "Peter Pan."
 6.0: Dinner music session.
 Berlin Philharmonic Orchestra, "Torch Dance B Flat Major."
 Ilya Livschakoff and His Orchestra, "Aubade" (Livschakoff).
 Paul Godwin Orchestra, "Evening Chimes" (Marzian).
 Vienna Schrammel Quartet, "Some Day" (from "Marietta").
 Efm Schachmeister's Dance Orchestra, "Casanova, I Love You."
 Ilya Livschakoff and His Orchestra, "Little Serenata" (Alfred Grunfeld); "Who has Filled Our Heart with Love" (Lehar).
 Paul Godwin Orchestra, "The Mask Seller" (Albert Wolff).
 Vienna Schrammel Quartet, "Spin, Spin" (Lochmann).
 Symphony Orchestra, "Il Guarany" Introduction (Gomes).
 Paul Godwin Orchestra, "Song of the Desert" (Delhaes); "Tonerna."
 Efm Schachmeister's Dance Orchestra, "At the Fireside."
 Paul Godwin's Jazz Symphonians, "Butterfly, Sweet Little Lady."
 Ilya Livschakoff and His Orchestra, "All My Heart Belongs To You."
 7.0: News and market reports.
 7.40: Talk—Mr. Frank M. Hills, under the auspices of the New Zealand Manufacturers' Association, "Fruit Preserving and Canning."
 8.0: Chimes.
 March—The Orchestral Octet, under direction of Harold Baxter, "America" (Losey); "Suite of Intermezzi" (Rosse); (a) "Valse Lente"; (b) "Pas Seul"; (c) "Danse Tambourin."
 8.13: Vocal quartet—The Savoy Male Quartet, "Love, My Star" (Mascagni).
 Tenor—Mr. Frank Campbell, "Megan" (Novello).
 The Savoy Male Quartet, "Picaninny Lullaby" (Macy).
 8.22: Humorous Recitation—Miss Maisie Carte-Lloyd, "An Old Maid's Mistake" (Sayer).
 8.33: Waltz—Orchestral Octet, "Marchen" (Faust); Reverie, "Reve Angelique" (Rubenstein).
 8.43: Male Alto—Mr. Bert Skeels, (a) "Just Because The Violets" (Kennedy Russell); (b) "Dear Heart" (Mattel).
 The Savoy Male Quartet, "Little Tommy Went A-Fishing" (Macy).
 Bass—Mr. S. Hislop, "Wheeltapper's Song" (Charles).
 8.56: Selection—Orchestral Octet, "Gloriana" (Friml).
 9.1: Evening weather forecast and announcements.
 9.3: Vocal duet—Messrs. Frank Campbell and A. Gally, "Flow On, Thou Shining River" (Stevenson).
 Baritone—Mr. Arthur Gally, "The Border Ballad" (Cowan).
 9.8: Humorous dialogues—Misses Maisie Carte-Lloyd and Irene Terry, (a) "The Magistrate" (Pinerio); (b) "The Art of Making Up One's Mind" (Jerome).
 9.15: Orchestral Octet, "Minuet" (Czibulka), "Poem" (Fibich); Spanish Suite, "La Fete De Seville" (Marchetti), (a) "Sierra Morena"; (b) "Jota"; (c) "Sevillanas"; (d) "March."
 9.33: Gramophone Lecture-Recital—Miss Molly Atkinson, "Scandinavian Music."
 10.3: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, MARCH 26.

- 3.0: Chimes. Selected gramophone recordings.
 3.15: Lecturette—Miss I. F. Meadows, "Vegetable Preserving." Arranged by the Home Science Extension Department of the 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.
 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 Grasshopper's Dance" (Bucalossi).
 Band of H.M. Coldstream Guards, "Morning, Noon and Night" (Suppe).
 The Rhythmic Eight, "Neapolitan Nights" (Zamecnik).
 The Palladium Orchestra, "La Siesta" (Barcarolle).
 Zonophone Salon Orchestra, "Love's Garden of Roses" (Haydn-Wood).
 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, market reports and sports results.
 7.40: Lecturette—Mr. J. W. Fergie, "Romance of Main Trunk Railway."
 8.0: Chimes.
 Studio Concert by the Wellington Orpheus Musical Society. Musical Director: Mr. Harrison Cook. Accompanist: Miss Adelina McGrath, F.T.O.L. L.A.B.

- Overture—Berlin State Opera Orchestra, "Oberon" (Weber).
 8.9 : Chorus—The Society Choir—"Sing, Pretty Maiden, Sing" (from "Maritana") (Wallace).
 8.14: Mezzo-soprano—Miss Ngaire Coster, "The Flower Song" (from "Faust") (Gounod).
 8.18: Tenor—Mr. C. A. Wilson, "The Garden of Your Heart" (Dorel).
 8.22: Violin—Mr. Richard Maunder, L.A.B. (Accompanist, Mr. Trevor Fisher, L.A.B.), "Rondo" (Mozart-Kreisler).
 8.27: Contralto—Miss Christina Young, (a) "When the Heart is Young" (Dudley Buck); (b) "Pleading" (Elgar).
 8.34: Novelty—Winkler Trio, "Bavarian Jokes" (Winkler).
 8.38: Baritone—Mr. G. H. Gray, (a) "Stonecracker John" (Coates); (b) "When the King Goes Forth to War" (Koenemann).
 8.45: Piano—Miss Adelina McGrath, "Fantasie Impromptu in C Sharp Minor" (Chopin).
 8.50: Tenor—Mr. Harry Brusey, (a) "An Island Shelling Song" (arr. Kennedy-Fraser); (b) "Polly Willis" (Arne, arr. Lehmann).
 8.56: Septette and chorus—"With Love My Heart is Beating" (from "Tales of Hoffman") (Offenbach).
 9.1 : Weather report and station notices.
 9.3 : Band—Polydor Brass Band, "Petersburger March."
 9.7 : Soprano—Miss Mollie Fenton, (a) "Summer Afternoon" (Coates); (b) "Sad Little Bird" (Arensky).
 9.11: Male chorus—"Down Among the Dead Men" (arr. Vaughan Williams).
 9.16: Flute—Mr. L. W. Rothwell, (a) "The Dainty Dance" (Lemonne); (b) "Idyll" (Krantz).
 9.23: Chorus—The Choir, "Angelus" (from "Maritana") (Wallace).
 Mezzo-soprano—Miss Ngaire Coster, "Alas! Those Chimes" (from "Maritana") (Wallace).
 9.31: Violin—Mr. Richard Maunder, "On Wings of Song."
 9.36: Sea shanties—Mr. Harrison Cook and Male Chorus, (a) "Fire Down Below"; (b) "Shenandoah"; (c) "Whisky Johnny" (arr. Terry).
 9.44: Accordeon—Medard Ferrero, "Torrent" (Capitani).
 9.47: Part songs—The Choir, (a) "Oh, Who Will O'er the Downs" (Pearshall); (b) "Sleep, Gentle Lady" (Bishop).
 9.57: Symphony Orchestra, "La Vida Breve" (de Falla).
 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, MARCH 26.

- 3.0 : Gramophone recital.
 3.15: Lecture—"Vegetable Preserving." Arranged by the Home Science Extension Service, Otago University.
 4.25: Sports results.
 5.0 : Children's hour, conducted by "Uncle Frank" and "Cousin Beatrice."
 5.9 : Dinner music session.
 Dajos Bela Orchestra, "I Pagliacci" Selection (Leoncavallo).
 Frank Westfield's Orchestra, "The Druid's Prayer" (Davson).
 Orchestra of the Opera Comique, Paris, "Carmen Overture" (Bizet).
 Edith Lorand Orchestra, "Tales of Hoffmann—Fantasia" (Offenbach).
 Grand Symphony Orchestra, "L'Arlesienne Suite, No. 1." (a)—"Minuet"; (b)—"Adagietto" (Bizet).
 Organ—F. Rowland-Tims, "Melody" (Dawes).
 Dajos Bela Orchestra, "La Traviata" Fantasia (Verdi).
 Grand Symphony Orchestra, "L'Arlesienne Suite, No. 1." (a)—"Minuet"; (b)—"Adagietto" (Bizet).
 Organ—F. Rowland-Tims, "Melody" (Dawes).
 Dajos Bela Orchestra, "La Traviata" Fantasia (Verdi).
 Grand Symphony Orchestra, "L'Arlesienne Suite, No. 2." (a)—"Intermezzo"; (b)—"Farandole" (Bizet).
 Edith Lorand Orchestra, "Cavalleria Rusticana" Fantasia (Mascagni).
 Orchestra of the Opera Comique, Paris, "Carmen Entr'acte" (Bizet).
 Frank Westfield's Orchestra, "Neapolitan Nights."
 7.0 : News session.
 7.30: Talk—"Handling New Zealand Produce on the World's Markets." Prepared by Mr. A. C. Cameron, President of the Dunedin Chamber of Commerce.
 8.0 : Chimes.
 Overture—San Francisco Symphony Orchestra, "Caprice Viennois."
 8.4 : Tenor—Mr. J. Haydn Williams, "Walther's Prize Song" (from "The Mastersingers" (Wagner).
 Soprano—Miss Sylvia Angus, "Far Greater in His Lowly State."
 8.13: Selection—Studio Octet (under Mr. Harold Beck), "Coriolanus" Overture (Beethoven).
 8.21: Bass—Mr. Malcolm Miller, "The Wanderer" (Schubert).
 8.25: Flute—Mr. W. Hay, (a) "Recit. and Air" (Macfarren); (b) "Le Cygne."
 8.32: Mezzo-soprano—Mrs. Stephen Parr, (a) "Dedication" (Franz); (b) "The Traveller" (Godard).
 8.37: Selection—Studio Octet, (a) "Valse Caprice" (Rubinstein); (b) "Song of the Volga Boatmen" (arr. Langley); (c) "Russian Dance."
 8.47: Tenor—Mr. J. Haydn Williams, (a) Recit, "O Loss of Sight" (Handel); Air, "Total Eclipse" (from "Samson") (Handel); (b) "Come Gentle Sleep" (Sullivan).
 8.52: Instrumental—String Quartet, (a) "Moment Musical" (Schubert); (b) "Andante" (Tschalkowsky).
 9.0 : Weather forecast and station notices.
 9.2 : Selection—Studio Octet, "Lucia di Lammermoor" (Donizetti).
 9.12: Soprano—Miss Sylvia Angus, (a) "Home Thoughts" (Bantock); (b) "Rose Softly Blooming" (Spohr).
 9.17: Flute—Mr. W. Hay, "Serenade" (Leoncavallo).
 9.20: Bass—Mr. Malcolm Miller, (a) Recit and Air, "O Pure and Tender Star of Eve" (Wagner); (b) "Vulcan's Song" (Gounod).
 9.26: Instrumental—Studio Octet, "Gayot's" (Rameau).

- 9.30: Mezzo-soprano—Mrs. Stephen Parr, (a) "Parting" (Ivanov); (b) "The Sleeping Beauty" (Horodin).
 9.34: Dance music.
 Foxtrots—Tom Clines and His Music, "Miss Wonderful" (Bryan).
 Roger Wolfe Kahn and His Orchestra, "Cooking Breakfast for the One I Love" (Rose).
 Tom Clines and His Music, "Somebody Mighty Like You."
 Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "You Can't Believe My Eyes" (Bryan).
 Abe Lyman and His California Orchestra, "The Rogue Song."
 9.49: Vocal—Dick Robertson, "Singin' in the Bathtub" (Magidson).
 Foxtrots—Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "If I Can't Have You" (Bryan-Meyer).
 Isham Jones' Orchestra, "Nina Rosa" (Caesar).
 Abe Lyman and His California Orchestra, "When I'm Looking at You" (Grey).
 Waltz—Isham Jones' Orchestra, "Your Smiles, Your Tears" (Caesar).
 10.4 : Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad); "Beside an Open Fireplace" (Denniker); "Hangin' on the Garden Gate" (Kahn); "Just Can't Be Bothered With Me" (Kahn).
 10.16: Vocal—Belle Baker, "I'm Walking With the Moonbeams" (Gordon).
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "When a Woman Loves a Man" (Rose).
 Bob Haring and His Orchestra, "Do Ya' Love Me?"
 Waltz—Carter's Orchestra, "California Sunshine" (Ford); "Red River Valley" (Trad'l).
 10.31: Foxtrots—Bob Haring and His Orchestra, "Where You Are" (Dixon).
 The A. and P. Gypsies, "Gipsy Dream Rose" (Kendis).
 Colonial Club Orchestra, "Why Do You Suppose" (Hart).
 Bob Haring and His Orchestra, "Under a Texas Moon."
 10.43: Vocal—Dick Robertson, "Lady Luck" (Perkins).
 Foxtrots—Carter's Orchestra, "When the Bloom is on the Sage."
 Colonial Club Orchestra, "My Man is on the Make" (Hart).
 Waltz—Carter's Orchestra, "Old Virginia Moon" (Crawford).
 Foxtrots—Abe Lyman and His California Orchestra, "Lucky Me, Loveable You" (Yellen).
 Fred Hamm and His Orchestra, "We Love Us" (Sanders).
 Abe Lyman and His California Orchestra, "Love Ain't Nothin' But the Blues" (Goodwin).
 1 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, MARCH 26.

SILENT DAY.

Friday, March 27

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, MARCH 27.

- 3.0 : Selected recordings.
 3.15: Literary selection, and further selected recordings.
 5.0 : Children's session, conducted by "Nod" and "Aunt Jean."
 6.0 : Dinner music session.
 New Mayfair Orchestra, "Sally" Selection (Kern).
 Organ—Sandy Macpherson, "L'Heure Bleu" (Spolianski).
 New Mayfair Dance Orchestra, "Hungarian Medley" (arr. Somers).
 Paul Whiteman and His Concert Orchestra, "Midnight Reflections."
 Zonophone Salon Orchestra, "Sweet Adeline" (Armstrong).
 Paul Whiteman and His Concert Orchestra, "Soliloquy" (Bloom).
 Band of H.M. Coldstream Guards, "Florodora" Selection (Stuart).
 Organ—Sandy Macpherson, "In an Old World Garden" (Pepper).
 Zonophone Salon Orchestra, "In the Shadows" (Finck).
 Jack Hylton and His Orchestra, "Memories of Paris" (Padilla).
 New Mayfair Dance Orchestra, "Waltz Medley."
 The London Palladium Orchestra, "Nautical Moments" (arr. Winter).
 7.0 : News and market reports.
 7.40: Talk—Mr. Elliot R. Davis, "The Pig Industry."
 8.0 : Chimes. Overture—Debroys Somers Band, "Mister Cinder" Selection.
 8.9 : Mezzo-contralto—Mrs. Pearl Owen, "Starry Woods" (Phillips).
 8.13: Novelty—Frank Wade and His Melody Boys, (a) "Banjo and Mandolin Novelty" (Own Arrgt.); (b) "Dancing with Tears in My Eyes" (Burke).
 8.23: Humour—The Tollys, "A Little Nonsense" (Original).
 8.33: Male choir—The Ural Cossacks, "The Legend of Twelve Robbers."
 8.37: Xylophone and piano—Messrs. Eric F. B. Waters and Ray Jury, (a) "Aragonaise" (Massenet); (b) "Peleg's Vision" (Lozey).
 8.46: Baritone—Mr. A. Averil Orr, (a) "My Friend" (Behrend); (b) "The Great White Road is Calling" (Stroud).
 8.53: Accordeon—Medard Ferrero, "Monte Christo" (Gabutti).
 9.3 : Evening weather forecast and announcements.
 9.5 : Piano—Mr. Cyril Towsey, "Waltz in E Flat" (Chopin).
 9.11: Mezzo-contralto—Mrs. Pearl Owen, (a) "Butterflies" (Corbett); (b) "In My Garden" (Liddle).
 9.17: Novelty—Frank Wade and His Melody Boys, (a) "Hawaiian Varieties" (Arrgt.); (b) "Open Up Dem Pearly Gates" (Robinson).
 9.27: Humour—The Tollys, "A Little Nonsense" (Original).
 9.37: Xylophone and piano—Messrs. Eric F. B. Waters and Ray Jury, (a) "Jovial Jasper" (Green); (b) "Black and White" (Bostford).
 9.46: Baritone—Mr. A. Everil Orr, (a) "Sea Fever" (Ireland); (b) "Just for To-day" (Seaver).

5.52: Selection—Paul Godwin's Orchestra, (a) "The Nightingale and the Frog" (Ellenberg); (b) "A Concert in the Forest" (Ellenberg).
10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, MARCH 27.

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.
 Royal Opera Orchestra, "Carmen—Entr'acte Act 4 and Ballet No. 1."
 Piccadilly Orchestra, "My Beloved Gondolier" (Tibor).
 London Symphony 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" (Bece).
 Philadelphia Symphony Orchestra, "Invitation to the Waltz."
 New Symphony Orchestra, "Pastoral Dance" (from "Nell Gwynn").
 London Symphony Orchestra, "Chanson de Nuit" (Elgar).
 Berlin State Opera Orchestra, "The Beautiful Galathea" Overture.
 New Symphony Orchestra, "Country Dance" (from "Nell Gwynn").
 Berlin Philharmonic Orchestra, "Beatrice and Benedict" (Berlioz).
7.0 : News session, market reports and sports results.
7.40: Lecturette—Mr. A. E. Wilson, "Tourist and Health Resorts."
8.0 : Chimes. Note.—This programme is subject to interruption to permit of a relay of a sound film feature from the Majestic Theatre.
 Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Medley Overture" (Danks) (with vocal refrains).
8.9 : Tenor—Mr. Noho Toki, (a) "Marcheta" (Schertzingler); (b) "Sweet Early Violets" (Sherrington).
8.15: Humorous sketch—Madame Eugenie Dennis and Partner, "A Night Out" (MSS.).
8.25: Selection—Orchestra, "Maid of the East" (Veal).
8.33: Soprano—Miss Kathleen Ferris, with orchestral accompaniment, (a) "Vilanelle" (Del Aqua); (b) "Indian Love Call" (Friml).
8.40: Instrumental—Orchestra, "Bianca" (Zulueta); intermezzo, "Pirouette" (Finck).
8.50: Humorous sketch—Madame Eugenie Dennis and Partner, "Shopping."
9.0 : Weather report and station notices.
9.2 : Tenor—Mr. Noho Toki, (a) "When I'm Looking at You" (Stothart); (b) "I Pitch My Lonely Caravan" (Coates).
9.8 : Trombone with orchestral accompaniment, "Silence and Fun."
 Novelty—Orchestra, "Listen to the Mocking Bird" (Lake).
9.16: Soprano—Miss Kathleen Ferris, with orchestral accompaniment, (a) "Jewel Song" (from "Faust") (Gounod); (b) "Dream Lover."
9.22: Fantasia—Orchestra, "Lilkin Lucia" (arr. Black); two-step, Whip-poor-will" (with vocal refrain) (Sherman).
9.30: Dance programme.
 Foxtrots—Anglo-Persians, "Dancing Butterfly" (Pascal-Golden).
 Abe Lyman and His California Orchestra, "Worryin' Over You" (Tobias).
 Al Goodman and His "Flying High" Orchestra, "Thank Your Father."
 Waltz—Regent Club Orchestra, "I Love You So" (Kahn).
9.42: Foxtrots—Tom Clines and His Music, "Until Love Comes Along."
 Lloyd Huntley and His Isle o' Blues Orchestra, "Promises"
 Ben Bernie and His Orchestra, "Telling it to the Daisies."
 Lloyd Huntley and His Isle o' Blues Orchestra, "On a Blue and Moonless Night" (O'Flynn).
9.54: Vocal trio—Earl Burnett's Biltmore Trio, "If I'm Dreaming."
 Foxtrots—Ben Bernie and His Orchestra, "Keepin' Myself for You."
 Colonial Club Orchestra, "Caribbean Love Song" (Berton).
 Ben Bernie and His Orchestra, "You Brought a New Kind of Love to Me" (Fain).
 Tom Clines and His Music, "Any Time's the Time to Fall in Love" (Janis).
10.9 : Waltz—Ben Bernie and His Hotel Roosevelt Orchestra, "Coquette."
 Foxtrots—Dan Russo and His Oriole Orchestra, "Sweetheart" (Lewis).
 Roger Wolfe Kahn and His Orchestra, "Exactly Like You."
 Ben Bernie and His Orchestra, "Reminiscing" (Leslie).
10.21: Vocal—Vaughn de Leath, "Sometimes I'm Happy" (Caeser).
 Foxtrots—Abe Lyman and His California Orchestra, "You Will Come Back to Me" (Fields).
 Ben Bernie and His Orchestra, "Livin' in the Sunlight, Lovin' in the Moonlight" (Sherman).
 Colonial Club Orchestra, "Watching My Dreams Go By."
10.33: Waltz—Regent Club Orchestra, "Lazy Lou'siana Moon" (Donaldson).
 Foxtrots—Colonial Club Orchestra, "Wherever You Are" (Kalmar); "Sweepin' the Clouds Away" (Coslow).
10.42: Vocal trio—Earl Burnett's Biltmore Trio, "A Year From To-day."
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunny Side of the Street" (Fields).
 The Jungle Band, "Sweet Mama" (Ellington).
 Waltz—Regent Club Orchestra, "My Dear" (Kahn).
 Foxtrots—Anglo-Persians, "The Toy-Town Admiral" (Godfrey).
 Colonial Club Orchestra, "All Alone Monday" (Kalmar).
11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, MARCH 27.

3.0 : Gramophone recital.
4.25: Sports results.
5.0 : Children's hour, conducted by "Peterkin."
6.0 : Dinner music session.
 Milan Symphony Orchestra, "Semiramide Overture" (Rossini).
 Symphony Orchestra, "Tales from the Vienna Woods" (Strauss).
 Herman Finck and His Orchestra, "Old and New" (Potpourri of popular melodies) (arr. Herman Finck).
 Cordoba Philharmonic Orchestra, "Carnival" (Lucena).
 Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
 Symphony Orchestra, "Artist's Life" (Strauss).
 Milan Symphony Orchestra, "Intermezzo" (from "Cavalleria Rusticana") (Mascagni).
 Cordoba Philharmonic Orchestra, "La Habanera" (Lucena).
 Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
 Royal Philharmonic Orchestra, "Blue Danube" (Strauss).
7.0 : News session.
8.0 : Chimes.
 Overture—Savoy Orpheans, "Lido Lady" (Rodgers).
8.8 : Baritone—Mr. J. Graham Young, (a) "The Song of the Flea" (Moss-sorgsky); (b) "Roadways" (Densmore).
8.14: Instrumental—Studio Octet (Conductor, Harold Beck); March, "The Majestic" (Allen); Overture, "Semiramide" (Rossini).
8.26: Mezzo-soprano—Miss Agnes Cunningham, (a) "Two Violets" (Alicia Scott); (b) "The Daily Question" (Meyer-Helmund).
8.31: Piano—Mr. Sydney Hoskins, "Classical Extemporisations."
8.36: Tenor—Mr. David McGill and Studio Octet, (a) "At Dawning" (Cadman); (b) "I Hear a Thrush at Eve" (Cadman); (c) "Alice, Where Art Thou?" (Ascher).
8.46: Instrumental—Studio Octet, Foxtrot, "South Sea Rose."
8.50: Choral—Light Opera Co., "The Desert Song" (Romberg).
8.54: Banjo—Mr. Stan. Birch, "The Broken Melody" (Van Biene).
8.59: Grand Russian Balalaika Orchestra, "Snow Flake Jugglers' Dance."
9.3 : Weather forecast and station notices.
9.5 : Selection—Studio Octet, "Cabaret Girl" (Kern).
9.13: Humour—Will Kings, "Bertram Addresses the Tenants" (Rutherford).
9.17: Piano—Mr. Sydney Hoskins, "Popular Extemporisations."
9.22: Mezzo-soprano—Miss Agnes Cunningham, (a) "Avoureen" (Fitzpatrick); (b) "The Last Rose of Summer" (Moore).
9.29: Organ—Quentin Maclean, "Rhapsody in Blue."
9.37: Bass—Mr. J. Graham Young, (a) "Old Barty" (Grant); (b) "The Floral Dance" (Moss).
9.43: Banjo—Mr. Stan. Birch, "Popular Melody Switches" (arr. Birch).
9.48: Choral—Light Opera Company, "The Strident Prince" (Romberg).
9.52: Selection—Studio Octet, "Tout en Trottement" (Pesse); Piano and Studio Octet, "The Clock and the Dresden Figures" (Ketelbey); Studio Octet, "Saltarella" (Pesse).
10.1 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, MARCH 27.

3.0 : Selected recordings.
5.0 : Children's hour, conducted by "Aunt Sheila."
6.0 : Dinner music session.
 Paul Godwin Orchestra, "The Czarewitsch" (Lehar); "Liliputian's Wedding" (Translaeur).
 Paul Godwin's Orchestra, with organ, "Adoration" (Filippucci).
 Great Symphony Orchestra, "The Gipsy Princess" (Kalman).
 Paul Godwin's Orchestra, with organ, "Invocation" (Ganne).
 Paul Godwin Quintet, "Vision" (Drdla).
 Opera Orchestra Berlin-Charlottenburg, "Si J'Etais Roi" (Adam).
 Paul Godwin Dance Orchestra, "Little Butterflies" (Steinke).
 Paul Godwin Quintet, "Chant D'Amour" (Franz Drdla).
 Paul Godwin Jazz Symphonians, "Lots of Fun" (Morena).
7.0 : News session.
8.0 : Chimes.
 Overture—State Opera Orchestra, Berlin, "Der Rosenkavalier."
8.18: Male quartet—The Harmonic Four, (a) "Come Where My Love Lies Dreaming" (Foster); (b) "Londonderry Air" (arr. Weir).
 Tenor—Mr. O. L. Graden, "Pale Moon" (Logan).
8.23: Selection—String Orchestra, (a) "Sullivan's Melodies" (arr. Higgs); (b) "Bianca Valse Song" (Zulueta).
8.39: Bass—Mr. W. Burch, "Up From Somerset" (Sanderson).
 Vocal duet—Messrs. W. J. and E. W. Robbins, "The Battle Eve."
 Baritone—Mr. W. J. Robbins, "Two Songs of the Sea" (Harry).
8.49: Valse de concert—String Orchestra, "Con Spirito" (Kirk-Burnnand).
9.0 : Weather report and station notices.
9.2 : Violin—Paul Godwin, "Concerto, No. 2" (Wieniawski).
 Paul Godwin's Quartet, "Legende D'Amour" (Bece).
9.10: Male quartet—The Harmonic Four, (a) "The Three Chafers" (Truhn); (b) "O Peaceful Night" (German).
 Tenor—Mr. O. L. Graden, "Vale" (Squire).
9.20: Selections—String Orchestra, (a) "Japanese Intermezzo" (Williams); (b) "Vision D'Amour" (Byford); (c) "The Lord Mayor" (Byford).
9.32: Vocal duet—Messrs. E. W. Robbins and W. Burch, "Arise, O Sun."
 Tenor—Mr. E. W. Robbins, "Gipsy Love Song" (Herbert).
9.38: Waltz—String Orchestra, "The Skaters" (Waldteufel).
9.48: Bass—Mr. W. Burch, "Goodnight" (Eastman).
9.51: Paul Godwin's Orchestra, "Eugénie Onegin" (Tchaikowsky).
10.0 : God save the King.

Saturday, March 28

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, MARCH 28.

- 8.0 : Selected recordings.
 8.15 : Literary Selection, and further selected recordings.
 5.0 : Children's session, conducted by "Cinderella."
 6.0 : Dinner music session.
 Paul Godwin Orchestra, "Aubade" Serenade (Schweitzer); "The Divorced Lady" Medley (Fall); "Lotus" Waltz (Ohlsen); "Alsatian Country Dance, No. 1" (Merkelt).
 Great Symphony Orchestra, "The Master Miner" (Zeller).
 Mandolin and Lute Band, "Per Aspera Od Astra" (Urbach).
 Paul Godwin Orchestra, "Smitten" (Ziehrer-Hruby); "Alsatian Country Dance, No. 2" (Merkelt).
 Berlin State Opera Orchestra, "Knight Passman Ballet" (Strauss).
 Paul Godwin Orchestra, "Bells of Vineta" Waltz (Lindsay-Thiemer).
 Mandolin and Lute Band, "Turkish March" (Mozart).
 Paul Godwin Orchestra, "Flower Song" (Lange); "Rejoicings" March.
 7.0 : News and market reports.
 8.0 : Chimes.
 Overture—Marek Weber Orchestra, "Lehariana" (Geiger).
 8.9 : Baritone—Mr. Stan Pritchard, (a) "Song of the Clock" (Birchall); (b) "The Irish Emigrant" (Branscombe).
 8.16 : Selections—Barry Ingall's Hawaiian Quartet, (a) "Hawaiian Memories" (Heagney); (b) "Three O'Clock in the Morning" (Robledo).
 Tenor banjo—Mr. Norman Ingall, "Listen to This" (Grimshaw).
 8.26 : Entertainers—Ernest and Wendy, "Merry Moments at the Piano."
 8.36 : Mouth organ—Mr. W. Brennon, "Medley of Irish Airs" (arr. Brennon).
 8.41 : Piano—Mr. Eric Bell, (a) "My Future Just Passed" (Whiting); (b) "A Garden in the Rain" (Gibbons).
 8.47 : Soprano—Miss Irma Kitchin, (a) "Gather Ye Rosebuds" (Sanderson); (b) "April Morn" (Batten).
 8.54 : Accordion duo—Gellin and Borgstrom, (a) "Darby and Joan" Waltz (Gilbert); (b) "Rio Negro" Tango (Jaurez).
 9.0 : Evening weather forecast and announcements.
 9.2 : Balalalka Orchestra Gorskaja, (a) "The Red Sarafan"; (b) "Immer Lustig" (Folk Songs).
 9.8 : Baritone—Mr. Stan. Pritchard, "Drake Goes West" (Sanderson).
 9.12 : Instrumental—Barry Ingall's Hawaiian Quartet, (a) "When It's Springtime in the Rockies" (Woolsey); (b) "Hilo Waltz" (Ingall); (c) "Palakiko Blues" (Ferara).
 9.22 : Entertainers—Ernest and Wendy, "Merry Moments at the Piano."
 9.32 : Chorus and orchestra—State Opera, Berlin, "Huntsmen's Chorus" (from "Der Freischutz") (Weber).
 9.36 : Mouth organ—Mr. W. Brennon, "Medley of Foxtrots and Waltzes."
 9.42 : Soprano—Miss Irma Kitchin, (a) "The Monkey's Carol" (Stanford); (b) "Moon Magic" (Arundale).
 9.48 : Piano—Mr. Eric Bell, (a) "Mighty Lak' a Rose" (Nevin); (b) "Roses of Picardy" (Haydn-Wood).
 9.56 : Male choir—Ural Cossacks, "Evening Bells" (Traditional).
 10.0 : Programme of dance music.
 Foxtrots—Colonial Club Orchestra, "Out of Breath" (Mercer).
 Andy Kirk and His Twelve Clouds of Joy, "Sweet and Hot."
 Colonial Club Orchestra, "I Am Only Human After All."
 Tom Clines and His Music, "Bye Bye Blues" (Bennett).
 10.12 : Waltz—Castlewood, Marimba Band, "Waiting For You" (Green).
 Foxtrots—Colonial Club Orchestra, "Hittin' the Bottle" (Koehler).
 Ben Bernie and His Orchestra, "Highway to Heaven."
 10.21 : Vocal—Allen McQuhae, "At the End of a Cobblestone Road" (Sanders).
 10.24 : Foxtrots—Anglo-Persians, "In Memory of You" (Dubin).
 Ben Bernie and His Orchestra, "Love Comes in the Moonlight" (Dubin).
 Colonial Club Orchestra, "How Are You To-night in Hawaii?" (Leslie).
 10.33 : Waltz—Ray Miller and His Orchestra, "Beneath Montana Skies."
 Foxtrots—Isam Jones' Orchestra, "Miss Hannah" (Redman).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Here Comes the Sun" (Freed).
 10.42 : Vocal—Allen McQuhae, "The Dawn Brought Me Love and You."
 10.45 : Foxtrots—Abe Lyman and His California Orchestra, "If You're Not Kissing Me" (Freed).
 Tom Gerun and His Orchestra, "Sittin' on a Rainbow."
 Castlewood Marimba Band, "Lo, Lo" (Feist).
 Colonial Club Orchestra, "Out of a Clear Blue Sky."
 Tom Clines and His Music, "I'm Needin' You" (Young).
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, MARCH 28.

- 12.0 : Results of the Wellington Trotting Club's Meeting, interspersed with selected gramophone recordings.
 5.0 : Children's session, conducted by "Aunt Molly."
 6.0 : Dinner music session.
 The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
 Heerman Trio, "Pierette" (Chaminade).
 Brunswick Hour Orchestra, "Only a Rose" (Hooker, Friml).
 Symphony Orchestra, "Eva" Medley (Lehar).
 New Light Symphony Orchestra, "Spanish Dance, No. 1" (Moszkowski).
 Brunswick Concert Orchestra, "The Perfect Song" (Brell).
 Symphony Orchestra, "Frederick" Medley (Lehar).

New Light Symphony Orchestra, "Spanish Serenade" (Bizet).
 Brunswick Concert Orchestra, "Sylvia" (Speaks).
 Heerman Trio, "Dalvisa" (Sandby).
 Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger).

- 7.0 : News session, market reports and sports results.
 8.0 : Chimes.

"THE EIGHT O'CLOCK REVUE."

A Second Series of Grown-up Children's Hours, specially written and arranged by Mr. Will Bishop.

Featuring: The Etude Quartet (Miss Gretta Stark, Ray and Rita Kemp and Mr. Will Hancock), Miss Elsie Croft and Mr. Will Bishop.

- 9.0 : Weather report and station notices.
 9.2 : Selection—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Rose Marie" (Friml); Novelty, "Funeral March of the Bumble Bee."
 9.16 : Baritone—Mr. Ray Kemp, "A Toast to Erin" (Doone).
 9.20 : Suite—Salon Orchestra, "Callirhoe Suite" (Chaminade); Ballet Dances, "Danse des Marionnettes" (Gillet).
 9.30 : Trio—Manners Trio, "Down the River of Golden Dreams" (Shilkret).
 Quartet—The Four Deuvilliers, "I'd Fall in Love With Me" (Fain).
 9.36 : Violin—Mr. W. Haydock, with Orchestral Accompaniment, "Songe D'Extase" Chuckerbutty).
 Novelty—Salon Orchestra, "Two Hindoo Pictures" (Lotter).
 9.46 : Baritone—Mr. Ray Kemp, (a) "To My First Love" (Lohr); (b) "You'd Better Ask Me" (Lohr).
 9.52 : Selection—Salon Orchestra, "Veronique" (Messenger); "Latest Dance Novelties."
 10.0 : Dance programme.
 Foxtrots—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "So Beats My Heart For You" (Henderson).
 Roger Wolfe Kahn and His Orchestra, "Cheer Up" (Klages).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Singing a Song to the Stars" (Johnson).
 Jack Denny and His Mount Royal Hotel Orchestra, "Girl Trouble" (Fisher).
 10.12 : Waltz—Castlewood Marimba Band, "Old New England Moon."
 Foxtrots—Isam Jones' Orchestra, "Not a Cloud in the Sky" (Jones).
 Jesse Stafford and His Palace Hotel Orchestra, "I Like to Do Things For You" (Yellen).
 10.21 : Vocal—Chester Gaylord, "When I'm Looking at You" (Grey).
 10.24 : Foxtrots—Ben Bernie and His Orchestra, "Black Eyes."
 Jesse Stafford and His Palace Hotel Orchestra, "To-night."
 Ben Bernie and His Orchestra, "Sharing" (Davis).
 10.33 : Waltzes—Castlewood Marimba Band, "If You Can't Have the Girl of Your Dreams" (Young).
 Ben Bernie and His Orchestra, "The Kiss Waltz" (Dubin).
 Foxtrots—Colonial Club Orchestra, "My Future Just Passed."
 Jack Denny and His Mount Royal Hotel Orchestra, "Leave It That Way" (Rice).
 10.45 : Vocal—Chester Gaylord, "Under a Texas Moon" (Perkins).
 10.48 : Foxtrots—Frank Sylvano and His Orchestra, "So Sweet" (Gillespie).
 Hal Kemp and His Orchestra, "I Remember You From Somewhere" (Warren).
 Frank Sylvano and His Orchestra, "After Sunday Afternoon" (Harris).
 Colonial Club Orchestra, "With My Guitar and You."
 11.0 : Sporting Summary.
 11.10 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, MARCH 28.

- 3.0 : Gramophone recital.
 4.25 : Sports results.
 5.0 : Children's hour, "Mother Hubbard."
 6.0 : Dinner music session.
 Berlin Philharmonic Orchestra, "Titus" Overture (Mozart).
 Paul Godwin Orchestra, "The Roses' Bridal Procession" (Leon Jessel); "On This Beautiful Springtime" (Lincke).
 Great Symphony Orchestra, "Fortissimo" (Kalmann).
 Paul Godwin Orchestra, "The Marionettes' Mounting Guard" (Kuhn).
 State Opera Orchestra, Berlin, "Orpheus and Eurydice Ballet Music."
 Paul Godwin Orchestra, "Murmure de Bal" (Meyer Helmund).
 Berlin Philharmonic Orchestra, "Le Nozze di Figaro" Overture.
 Paul Godwin Orchestra, "Poppies" (Moret); "Dreaming Flowers."
 7.0 : News session.
 7.30 : Sports results.
 8.0 : Chimes.
 Victor Arden-Phil Ohman and Orchestra, Selection from "Funny Face."
 8.8 : Bass—Mr. G. H. Ponder, "Come to the Fair" (Easthope-Martin).
 8.12 : Cornet—Mr. R. Ohlsen, "Concertante" (Hock).
 8.19 : Cabaret songs at the piano—The Joyous Pair, (a) "Here Comes the Sun" (Woods); (b) "Strolling Thru' the Tulips" (O'Hagan).
 8.25 : Violin—Miss Irene Morris, (a) "Chanson Valse" (Poussard); (b) "Souvenir" (Adlington).
 8.31 : Humour in song and patter—Mr. Reg. Lamb, "Logic" (Chas. Osborne).
 8.36 : Steel guitars and ukulele—Miss Elaine Moody's Hawaiian Quartet, (a) "I See the Same Old Moon" (Friend); (b) "Wanganui Moon" (Mackenzie); (c) "Lady Luck" (Perkins).
 8.45 : Choral—Rotorua Maori Choir. 1—"He Poroporo Aki"; 2—"Poupou te Marama"; 3—"Nga Hiki o te Ra"; 4—"Pikiatu" (Traditional).
 8.51 : Selections—Christchurch Broadcasting Trio, (a) "Valse" (Hellmesberger); (b) "Minuet" (Shield); (c) "Gavotte" (Sinding).
 9.2 : Weather forecast and station notices.

- 94 : Selection—Harry Jacobs and His Palais Orchestra, "The Earl and the Girl" (Caryl).
- 9.30 : Bass—Mr. G. H. Ponder, (a) "Home is Calling" (Alfred Hill); (b) "Just A Wearying For You" (Bond).
- 9.16 : Cornet—Mr. R. Ohlsen, "The Lost Chord" (Sullivan).
- 9.21 : Cabaret songs at the piano—The Joyous Pair, (a) "Josie and Me" (O'Hagan); (b) "Ragamuffin Romeo" (Wayne).
- 9.27 : Mouth organ band—Pauley Witch and His twenty-four Gentlemen, "A La Maniere D'Eux" (Chantrier).
- 9.33 : Humour in song and story—Mr. Reg. Lamb, "The Heilan' Jazz."
- 9.38 : Steel guitars and ukulele—Miss Elaine Moody's Hawaiian Quartet, (a) "Hawaii, the Moonlight and You" (Klickmann); (b) "What Aloha Means" (own arrgt.); (c) "We're Uncomfortable" (Song and Refrains by Elaine Moody) (Wallace).
- 9.47 : Male quartet—The Foursome, "Walkin' My Baby Back Home."
- 9.50 : Instrumental—Broadcasting Trio, (a) "Three Fours Valse" (Coleridge-Taylor); (b) "Serenade" (Widor); (c) "Husarenritt" (Spindler).
- 10.0 : Dance music.
Foxtrots—Harry Hudson's Melody Men, "A Bench in the Park."
Alfredo and His Band, "My Fate is in Your Hands" (Razaf).
Carl Fenton and His Orchestra, "I'm Wild About Dancing."
- 10.9 : Waltz—Radio Melody Boys, "What Have I done?" (Rotter).
Tangos—Marcu's Roumanian Orchestra, "Adieu, Venise"; "Do You Still Love Me?"
Orlando and His Argentine Tango Orchestra, "Garufa."
- 10.21 : Vocal with chorus and orchestra—"Why Did I Leave My Little Back Room?" (Mills).
- 10.24 : Foxtrots—The Blue Jays, "By the Bend of the River."
Radio Melody Boys, "A Little Old Cottage" (Hargreaves).
The Blue Jays, "I'm Following You" (Dreyer).
Harry Hudson's Melody Men, "Handsome Gigolo."
- 10.36 : Waltz—Alfredo and His Band, "Silv'ry Moon" (de Frank); "Molly."
Tangos—Marcu's Roumanian Orchestra, "Argentina."
Orlando and His Argentine Tango Orchestra, "Gente Bacana."
- 10.48 : Vocal—Randolph Sutton, "Back to Gay Paree!" (Stanley).
- 10.51 : Foxtrots—Alfredo and His Band, "Cryin' for the Carolines" (Lewis).
"The Sunshine of Marseilles" (Gilbert); "Blondy."
- 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, MARCH 28.

- 3.0 : Selected recordings.
- 5.0 : Children's hour, conducted by "Aunt Anita."
- 6.0 : Dinner music session.
Selection—Edith Lorand Orchestra, "The Vagabond King" (Friml).
Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss).
Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton).
Dajos Bela Orchestra, "O Sole Mio" (arr. Lindeman).
State Opera Orchestra, Berlin, "Invitation to the Waltz" (Weber).
Waltzes—Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art" (Lincke); (b) "Song d'Amour Apres le Bal" (Czibulka).
Dajos Bela Orchestra, "Humoresque" (Dvorak).
Trio—De Groot-Bor-Kilbey, "Paraphrase of Strauss Waltzes."
Dorsey Bros.' Orchestra, "Was it a Dream?" (Coslow).
Waltz—Dajos Bela Orchestra, "Faust" (Gounod).
- 7.0 : News session.
- 8.0 : Relay of vaudeville programme from 3YA, Christchurch.
- 8.0 : Dance session.
Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "How Am I to Know?" (Parker).
Arcadians Dance Orchestra, "Pepita" (Mascheroni).
Bernie Cummins and His New Yorker Hotel Orchestra, "Livin' in the Sunlight—Lovin' in the Moonlight."
The Rhythmic Eight, "Figaro" (Mitchell).
- 10.12 : Waltz—Jean Goldkette and His Orchestra, "Can You Blame Me?"
Foxtrots—Henry Busse and His Orchestra, "I Came to You" (Conrad).
Gus Arnheim and His Orchestra, "I'm Feathering a Nest."
- 10.21 : Vocal—Olga Albani, "It's You I Love" (Davis).
- 10.24 : Foxtrots—New Mayfair Dance Orchestra, "There's Room in My Heart" (Gibbons); "Cuban Nights" (Salvato); "I'll Be Getting Along" (Gibbons).
Waltz—Bob Haring and His Orchestra, "By and Bye, Sweetheart."
- 10.36 : Foxtrots—Nat Shilkret and His Orchestra, "Congratulations."
New Mayfair Dance Orchestra, "Cuckoo in the Clock."
George Olsen and His Music, "The Moon is Low" (Freed).
- 10.45 : Vocal—Grace Hayes, "On the Sunny Side of the Street" (Fields).
- 10.48 : Foxtrots—The High Hatters, "You Brought a New Kind of Love to Me" (Kahal).
Nat Shilkret and His Orchestra, "Into My Heart" (Turk).
Herman Klenin and His Orchestra, "I'm Doing What I'm Doing for Love" (Yellen).
Nat Shilkret and His Orchestra, "Dark Night" (Grey).
- 11.0 : God save the King.

Sunday, March 29

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MARCH 29.

- 3.0 : Selected recordings.
- 3.15 : Literary selection and further selected recordings.

- 6.0 : Children's song service, conducted by "Uncle Bert."
- 6.55 : Relay of evening service from the Salvation Army Citadel. Preacher, Ensign Thorne.
- 8.30 : Relay from the Auckland Town Hall of a Concert by the Auckland Band, under the conductorship of Mr. George Buckley.
God save the King.
March—Band, "The Guards Brigade" (Darewski); overture, "Morning, Noon and Night" (Suppe).
Cornet—Mr. Fred Bowes, "Serenade" (Schubert).
Selection—Band, "Chopiniana" (first performance) (Chopin).
Piccolo—Mr. Hal C. McLennan, "Silver Birds" (Le Thiere).
Rhapsody—Band, "Slavonic" (Friedmann).
Euphonium—Mr. J. Purchase, "Romance in F Minor" (Keighley).
Hymn—Band, "Supplication" (Smith); march, "El Abanico."

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MARCH 29.

- 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. Matthew's Anglican Church.
- 7.0 : Relay of evening service from Vivian Street Baptist Church. Preacher, Rev. W. S. Rollings. Organist, Mr. Chas. Collins. Choirmaster, Mr. J. R. Samson.
- 8.0 : Relay from the Grand Opera House of a concert by players from the combined Port Nicholson, Tramways and R.N.V.R. bands, and assisting artists.
- 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MARCH 29.

- 3.0 : Gramophone recital.
- 5.30 : Children's song service.
- 6.15 : Chimes from studio.
- 6.30 : Relay of evening service from East Belt Methodist Church, Fitzgerald Avenue. Preacher, Rev. W. H. Greenslade. Organist, Mr. A. M. Owen. Choir Conductor, Mr. J. Chaplin.
- 7.45 : Musical recordings from studio. Studio programme.
- 8.15 : Suite—Philadelphia Symphony Orchestra, "Nutcracker Suite" (Tchaikowsky); "Overture Miniature and Marche"; "Dance of the Sugar Plum Fairy."
- 8.28 : Soprano—Miss Thelma Ayers, (a) "By the Waters of Babylon" (Howell); (b) "Prayer Perfect" (Stenson).
- 8.29 : Piano—Miss Aileen Warren, "Etude—Op. 2, No. 1" (Scriabin).
Suite—Christchurch Broadcasting Trio, "Allegro Moderato" from Trio in B Flat" (Schubert).
- 8.43 : Tenor—Mr. Douglas Suckling, (a) "God Touched the Rose" (Brown); (b) "Dost Thou Not Breathe the Fragrant Scent?" (Wagner).
- 8.49 : Cello—Gaspar Cassado, "Papillon" (Faure).
- 8.53 : Mezzo-contralto—Mrs. Sidney Bryant, "How Lovely are Thy Dwellings" (Liddle).
- 8.57 : Harp—Mr. H. G. Glaysher, "The Blackbird" (Thomas).
- 9.3 : Weather forecast and station notices.
- 9.5 : Suite—Philadelphia Symphony Orchestra, "Nutcracker Suite" (Tchaikowsky); "Chinese Dance," "Dance of the Flutes," "Arab Dance."
- 9.13 : Soprano—Miss Thelma Ayers, (a) "The Spirit Flower" (Tipton); (b) "The Lord is My Delight" (Allitsen).
- 9.19 : Piano—Miss Aileen Warren, "Nocturne in F" (Schumann).
Selection—Broadcasting Trio, (a) "Canzonetta" (Godard); (b) "Autumn and Winter" (Glazounov).
- 9.32 : Tenor—Mr. Douglas Suckling, "Where the Abana Flows."
- 9.36 : Cello—Gaspar Cassado, "Arlequin" (Popper).
- 9.40 : Mezzo-contralto—Mrs. Sidney Bryant, (a) "Songs My Mother Sang"; (b) "Where Corals Lie" (Elgar).
- 9.46 : Harp—Mr. H. G. Glaysher, "The Bells of Aberdovey" (arr. Thomas).
- 9.52 : Philadelphia Symphony Orchestra, "Nutcracker Suite"; "Waltz of the Flowers" (Tchaikowsky).
- 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MARCH 29.

- 3.0 : Selected recordings.
- 5.30 : Children's song service, conducted by Big Brother Bill.
- 6.15 : Instrumental recordings.
- 6.45 : Relay of evening service from Salvation Army Citadel, Dowling Street, Dunedin, under supervision of Major C. W. Bear.
- 8.15 : Relay of Concert Programme from 3YA, Christchurch.
- 10.0 (approx.) : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, MARCH 29.

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

Australian Programmes

Times Corrected for N.Z.

Thursday, March 19.

STATION 2FC.—9.30 p.m.: Old-time Minstrel Show. 10.30 p.m. and 10.51 p.m.: Al Hammett, saxophonist. 10.37 p.m. and 11.25 p.m.: Bernice Patterson, popular vocalist. 11 p.m.: "The Door," a one-act play.

2BL.—9.30 p.m., 9.50 p.m., and at intervals throughout the evening: The National Broadcasting Orchestra. 9.44 p.m. and 10.36 p.m.: Gladstone Bell, cellist. 10.23 p.m. and 11.38 p.m.: Constance Burt, soprano. 10.30 p.m.: Neville Amadio, flautist. 11.18 p.m.: Chopin pianoforte recital.

3AR.—9.30 p.m.: "Problems of Reconstruction," an address by Sir Lennox Raws, O.B.E., relayed from the Official Dinner of the Institute of Engineers. 10 p.m.: Programme of studio reproductions.

Friday, March 20.

STATION 2FC.—9.30 p.m.: Concert programme, arranged by the Musical Association of New South Wales. 10.45 p.m.: Military band concert relayed from 3LO, Melbourne.

2BL.—9.40 p.m. and 11.30 p.m.: The Gresham Singers. 9.47 p.m. and 10.57 p.m.: Wally Baynes in "Comicalities" 9.54 p.m. and 10.40 p.m.: Jack Lumsdaine, "The Radio Rascal." 10.11 p.m. and 10.47 p.m.: George Edwards and Billy Hughes in short sketches.

3LO.—9.30 p.m.: Half an hour of variety. 10 p.m.: Beethoven sonata recital. 10.30 p.m.: Comedy interlude. 10.45 p.m.: Military band concert.

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

Saturday, March 21.

STATION 2FC.—9.30 p.m.: Relay from 2NC, Newcastle, of a concert by the Newcastle Steel Works Band.

2BL.—9.30 p.m., 9.44 p.m., 11.7 p.m. and 11.28 p.m.: The A.B.C. Dance Band. 9.37 p.m. and 11.21 p.m.: Leslie Reed, the Welsh miner, in baritone solos. 9.51 p.m. and 11.14 p.m.: Bob Strother, entertainer. 10 p.m.: Description of boxing contest at Sydney Stadium. 11 p.m. and 11.38 p.m.: Mary Stevens, popular vocalist.

3LO.—9.30 p.m.: Relay from the Melbourne Town Hall of the "Toc H Pageant." Speeches by his Excellency the Governor and his Grace the Archbishop of Melbourne will be broadcast. Musical items by the Postal Institute Choir and the Colingwood Citizens' Band.

3AR.—9.30 p.m.: The Austral Brass Band in varied selections, followed by Jean Brunton, contralto; Syd Hollister, comedian; and Jack and Jill, "Propriety Unlimited." At intervals during the evenings descriptions by Mel Morris of dirt-track motor-cycling events will be given from the Exhibition.

The Life of Beethoven

(Continued from page 2.)

certo, and most audibly one hears them in the third of the "Razoumowsky" quartets.

If Beethoven inspires veneration as well as admiration, it is because one divines the depths and complexity of the experience behind those shapely and harmonious patterns of sound. This music of the mature middle period had an amplitude of scale, a dignity, and also an emotional complexity to which, as yet, the world had been a stranger.

There are few external events to record during this middle period, which stretches, more or less, from the Third Symphony to the Eighth (1804-1816). His life was devoted to incessant creation, varied only by his few concerts and by still rarer visits to Berlin or Budapest. There were two Beethovens, the creator and his keeper. This keeper was painfully inefficient. He lived an untidy, irregular existence in rooms that were a litter of papers, broken chairs, and unfinished meals. He was unbusiness like over money, could not manage servants, and changed his lodgings almost every year. The most one can say for him is that he had the sense to take his charge into the country through the long summer months.

There, in solitude, amid the lovely scenery which lies so near Vienna, Beethoven revelled in the woods, washed himself in the brooks from the dust of his battles, and heard as rhythm the contours of the hills. Most of his themes came to him out of doors.

The keeper may have been a tragic man, at the sight of whose face, set in a mould of hopeless suffering, his friends could hardly refrain from tears. The creator could lose himself, a man intoxicated with joy, in his inner world of inaudible sound. Peasants would watch him in the fields, gesticulating madly, shouting, singing, beating time, and then stopping to jot down his themes in a notebook. Their cattle would stampede at the strange apparition, but it was deaf to their indignant shouts.

The accounts of Beethoven's manner in conducting give the same impression of complete absorption in his music. To indicate a diminuendo, he would sink down until he disappeared behind the desk; for a crescendo he would rise very gradually, until at fortissimo he leapt into the air, shouting a strange, inarticulate cry. It is probable that no human being has lived for so many hours of every day in an inner world of sound. It became for him the real world, and of this world he was the emperor and the master.

Two sources of inspiration Beethoven had outside his music. First, there was his love of nature, legible most

clearly in the Pastoral Symphony. One is surprised by his naive imitation of the brook and the birds, and one is tempted to say to him what Robert Bridges said to the nightingales: 'Beautiful must be the mountains whence ye come.' And then one recalls that long years had passed since he had heard the shout of a cuckoo or the rhythm of a brook.

*"Nay, barren are those mountains and spent the streams;
Our song is the voice of desire, that haunts our dreams."*

The other inspiration was love. But it was rather the hope of love that inspired him than any actual experience. One woman whom he loved wrote of his "virginal purity." He desired marriage but always some impediment, his deafness, his poverty, his humble birth, or perhaps his modesty, stood in the way.

Some brief happiness he may have had with the Countess Julia Guicciardi, and he wrote the Moonlight Sonata under its influence, but this pretty young woman preferred to marry a title. To the Countess Theresa of Brunswick, "the immortal beloved" of his letters, he came nearer, at least in affectionate friendship, but though in some sense she loved him, they did not marry. To this attachment we owe the radiant Fourth Symphony, with its excited Finale, which seems to describe the entry of need and startling beauty into his life.

His craving for love went unsatisfied to the end, and the saddest chapter is that which tells of his guardianship of his nephew, Karl. On this worthless youth, who wasted his own time and his uncle's slender earnings on billiards and women, and failed in every profession which he tried to enter, Beethoven lavished the pent-up affections of his lonely life. Karl could not stand the emotional strain of the relationship and made a half-hearted attempt at suicide.

Amid these shadows, lonely, embarrassed, and impoverished, in wretched health, and harassed by the worry and tragedy of Karl, Beethoven wrote the sublimest works of his career. For his third period includes the Ninth Symphony, the solemn Mass in D, and the five late string quartets.

He was at last ready to say all that was in him, and with turbulent majesty, this man, who had travelled through all the circles of hell, wrote to Schiller's words his final Hymn to Joy. Who can doubt that the entire symphony was for Beethoven a revelation

of the meaning of life; a celebration of the joy, which by love, but also by struggle, an emancipated humanity may attain?

That music has this power of revelation he once declared to Bettina Brentano, Goethe's fascinating friend, though she may have polished the phrases which she professes to report. "Music," he told her, "is a higher revelation than all wisdom and philosophy"; indeed, it is "the one incorporal entrance into the higher world of knowledge."

More intimately still, in the late quartets, one hears this revelation of an artist who "associated with God without fear." Unintelligible to his contemporaries, they are difficult even for us. As one grows familiar with them (for all of them are now available on the gramophone) the puzzle vanishes, but only when one realises that they are a thing never before attempted in the art of sound. This is the music of the inner life, and one compares it to Shakespeare's Sonnets. It was not written outwards for an audience, but solely, as Beethoven tells us, for himself. At first, the movements seem disconnected; an outbreak of riotous fun is followed by a cry of despair which might be a penitentiary psalm. Evidently he is conversing with himself (especially in Op. 130 and Op. 131), surveying life as he has lived it, testing his familiar theme of "heroism," and drawing from it, but only after defiant warfare, the assurance of triumph.

This was the work, not of an aged but of a deeply experienced man, subtler in technique and richer in invention than all that had gone before. His mind teemed with projects, but the neglected body was worn out. On a journey in mid-winter, after a trying visit to his brother John, he caught a chill, which struck inwards and developed dropsy. The pain and loneliness of a long illness were relieved only by the generous act of the London Philharmonic Society, which sent him, as an advance, a cheque for £100. It served for his funeral. Amid a tempest, in March 1827, Beethoven died. The life-long hymn to joy was ended as a stranger closed his eyes.

(With acknowledgments to "Radio Times.")

Radio in the Great North-west

SINCE radio was introduced to the North-West of Canada, it has materially assisted in the advancement of the Canadian skin industry. Nearly every fur trapper has his radio receiver. Not only are the sets used for entertainment purposes after the day's work is done, but also for the reception of trade bulletins and instructions from the trading centres.

All-Electric Receivers

AT PRICES TO SUIT ALL

The COURIER A.C. SET and SPEAKER £11/15/-
PHILIPS Q.P. SET and BABY GRAND SPEAKER £14/14/-

PLYMOUTH Screen Grid MANTEL SET, with Dynamic Speaker £22
ROLA Screen Grid CONSOLE MODEL £38

CASH OR EASY TERMS ARRANGED.
REPAIRS TO ANY MAKE OF SET.

G. G. MacQUARRIE Ltd.

120 WILLIS STREET :: :: WELLINGTON.

Mullard
THE MASTER VALVE

Embodies all improvements
known to Valve Manufacturers.

Short-Wave Topics

Ultra-Short-wave Transmissions.

WORKING on a wavelength of 7.05 metres, a transmitter erected near Berlin by the Telefunken Company, broadcasts twice weekly.

Gramophone records are transmitted every Wednesday and Friday from 4 a.m. to 6 a.m., New Zealand standard time, and from time to time a relay is carried out of the Berlin programme. The wavelength was chosen after a series of tests, as it was found to be the one most favourable and particularly free from magneto interference.

Dutch Station on 50.1 metres.

"WORLD RADIO" (England) reports a new Dutch short-wave station working on 50.1 metres, which relays Hilversum. This station has been heard between 11.30 p.m. and 3 a.m., New Zealand time.

Time Signal from Moscow.

MOSCOW, on 46.6 metres, transmits a time signal each day at 3 a.m., New Zealand time. The signal consists of the letter G (— —) and is preceded by clock ticks, with the counting of seconds and minutes superimposed.

Prince of Wales Heard.

THE opening ceremony by H.R.H. the Prince of Wales of the British Trade Exhibition at Buenos Aires, Argentina, was well received on Sunday morning. Just before 5.30 a.m. the announcer gave the order of the proceedings. This was followed by a band item, and at 5.30 a.m. the National Anthem was played. A speech in Spanish was then given by one of the exhibition officials. The Prince commenced by reading a special message from his Majesty the King, which was loudly applauded by the audience. This was followed by an address in English and one in Spanish.

The President of the Republic then replied in Spanish. At the conclusion

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.

COMBINATION Radio-gramophone, 7 valve single control, push-pull, Ferranti Transformers. Garrard motor, B.T.H. pickup, 10½ inch X core Magnavox and baffle. 200 volts 6000 MA capacity "B". 45 volts "C". 3 "A" batteries, spare valves, £65. Also fully Shielded S.G. 4-Valve short-wave, £10. "Combination," C/o "Radio Record."

GRACEFUL figure obtained with Youth-O-Form Capsules. Superfluous flesh soon disappears. Simple, safe, sure. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

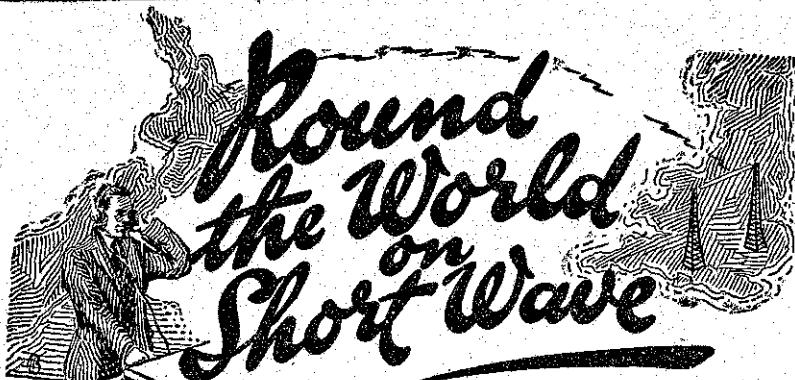
SLENDER Hips can be secured without dieting or strenuous exercise by taking Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

WE repair Battery and Electric Radios, Speakers, Eliminators. Estimates given. Latest appliances. Valves tested free. R. H. Co., 553, Colombo Street, Christchurch.

VENUS Figure can be your goal by taking Youth-O-Form. 20lb. reduction 6 weeks. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

£26 Triple Screen-Grid Metrodyne Chassis and Dynamic, less valves. Powerful, easily tuned, Phono. Connection. R. H. Co., 553 Colombo Street, Christchurch.

AERIAL Wire, 100ft., 3/-; Tinned, 3/6; Heavier, 4/9, 5/6, 6/-, 7/-. Lead-ins, 25ft., 2/-. R. H. Co., 553 Colombo Street, Christchurch.



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.

of this talk (6 a.m.) "God Bless the Prince of Wales" was played by the band. That concluded the ceremony, after which the Prince of Wales, accompanied by Prince George, commenced a tour of the exhibition, visiting the pavilion of the Dominion of Canada first. The speech by the Prince of Wales, delivered in Spanish as well as the one by the President, was then translated into English. The station closed at 6.11 a.m.

The station heard was the British Post Office short-wave station, GBP, working on about 27.7 metres. Volume was R9 all through, readability 100 per cent. It was one of the best receptions of a transmission of Empire interest.

Buenos Aires was not tried for direct till after the special transmission, when LSG on 15.05 metres was heard, but only at about R3.

W9XF and KIXR.

WHAT has become of these stations? They both were well received, but have disappeared recently. Has any reader heard either of these stations during the past week or two?

Log for Week Ending March 14

RV15, Siberia, 70.1 metres: Good volume each evening.

HVJ, Vatican City, 50.26 metres: Each morning since Wednesday, best about 6 a.m., when volume is R9. Static has been bad each morning.

7LO, Nairobi, 50 metres: Each morning from 6 a.m., weaker now than a week or two ago.

W8XAL, Cincinnati, 49.5 metres: Has had several late sessions during the week, when volume has been very good.

WTKAL, Boundbrook, 49.18 metres: Excellent till 6 p.m. each evening.

VE9CL, Winnipeg, 48.7 metres: Just audible at 6 p.m. on Wednesday.

Moscow, 45 metres (about): Each morning, best about 6 a.m., after which it grows weaker.

VK3ME, Melbourne, 31.55 metres: Excellent at R9 on Saturday from 10 p.m. Volume R9.

OXY, Lyngby, Denmark, 31.51 metres: Am not certain about this station, as the call has not been heard this season, but a station is heard each morning on this wavelength at about R5. Mostly talk by man and sometimes a lady. Music heard at times.

W2XAF, Schenectady, 31.48 metres.—Sunday, up to R9 before closing down at 4.30 p.m. Saturday they closed before reaching good volume.

Zeesen, Germany, 31.38 metres.—Has been well received each morning at R9.

WIXAZ, Springfield, Mass., 31.35 metres.—This station is improving quite a lot. Heard on Sunday from 9 a.m. till 9.30 a.m. at R5. An organ recital from the Paramount Theatre, Springfield, was

enjoyed on Saturday till 5.20 p.m., at R8-9.

PCJ, Eindhoven, Holland, 31.28 metres.—Thursday, R9 at 6 a.m. to R8 by 7.30 a.m. Saturday morning was not nearly so good. On Saturday afternoon they were tuned in at 2.30 p.m. and held till 6.50 p.m., except for an interval when they were off the air between 4.30 p.m. and 5.15 p.m. Volume steadily increased from R2-3 at the start till 4.30 p.m., when they reached R8-9, remaining at that till the finish.

LSX, Buenos Aires, 28.98 metres.—This one-time excellent station has gone off in volume, being at its best only about R4.

G5SW, Chelmsford, 25.53 metres.—Quite good these mornings from 7 a.m. Wednesday and Saturday were the best, when talk was 95 per cent. readable at R8-9.

12RO, Rome, 25.4 metres.—Excellent most mornings at R9. Is best after 6.30 a.m.

W8XK, Pittsburg, 25.25 metres.—Not much heard of this station now. Sunday, 9.45 a.m., children's session at R7, was the only time I had them readable during the week.

XDA, Mexico City, 20.5 metres.—News session each morning, much weaker now than a few weeks ago.

W2XAD, Schenectady, 19.5 metres.—Seldom heard now at more than R2-3 during the early morning.

N.Z. Short-wave Club

From the Secretary's Pen

THOUGH the club has been in existence only a few weeks, it is really surprising the way in which it has been received, from lonely farmhouses, scattered districts, outlying townships, and cities letters and inquiries are coming in daily. I am beginning to feel like a Radio Uncle. Surely this club idea (if you will excuse me), must be a "Radio Record," the idea was broadcast, and there has sprung into existence a society that is non-political, non-sectarian—a fraternal organisation of the air.

To briefly answer many inquiries, the headquarters are in Wellington, but the club is a representative one, including, as the name denotes, the whole Dominion. The H.Q. must be in a position for easy access to the radio Press, and for the quick dispatch of overseas mail, beside being centrally situated. Later on it is hoped to have representatives in the various districts to meet local needs, but members desiring pen-pals need only to send in their names and we will put them in touch with members in other districts. Many friends are being made this way.

The local member showed me a letter he had from another in which the writer asked about the badges. He mentioned

that he had made many friends through wearing his lodge badge. I then found out exactly what the club badge will mean—a member arrives in a strange town, the badge is sufficient introduction. There is nothing we like better than to talk about our sets and what we get. Truly, radio is a fraternal organisation.

The correspondence, though heavy, is most interesting and pleasant, and I have made many friends thereby. Some young listeners gave their ages, and I was able to introduce them to someone their own age. Two letters arrived by the same mail; both owned the same make of set, and wanted to know someone to compare results. Next mail saw them both satisfied; at least, I hope so.

A farmer sent along some interesting photographs and a real colonial letter. Several must have looked at the Mac in my name, because they sent stamped envelopes for replies. One man gets excellent reception, but thought the idea was a good one, and joined up to help us along. Several transmitters and their assistants sent in subs.

I have received invitations to drop into members' homes, if I am down. Truly, we "brothers of the air" are friends. I appreciate these friendly letters and their kind sentiments, but we must not forget the work of the committee, Messrs. J. Donnelly, E. Hackett, L. Saunders and A. Comfort, also Mr. Jamieson, our club artist; and last, but by no means least, Mr. F. W. Sellens, who, by his energy and persistent work at the receiver, has fired so many of us with the ambition to conquer space and become successful shortwavers.

NZ10W might be in earnest, but his suggestion of a "Night Owl" certificate makes me think he must be a Scout. But then, Scouts don't stop up till a.m. listening to what other people say.

Don't forget to address your letters to me at 274 Cuba Street, Wellington. Drop a note about anything—I'm interested.

KNOW the time all over the world with a

DX Clock.

Printed on Heavy White Paper.

Posted in Cardboard Tube.

9d. Each.

BOX 1082, WELLINGTON.

ADD-A-PHONE Short-Wave DEMONSTRATION

By courtesy of Messrs. C. and A. Odlin, Ltd., who have kindly loaned us their combination Atwater Kent Electric Receiver, we are enabled to demonstrate the Efficiency and Simplicity of the

—ADD-A-PHONE— SHORT-WAVE RECEIVER.

Intending purchasers are cordially invited to these demonstrations.

TRADE NOTICE

The large number of enquiries we are now receiving from owners of electric sets all over New Zealand necessitates our having to appoint agents for handling the Add-a-Phone, and applications are now invited from Radio Dealers interested in this line.

This instrument is NOT an adapter and can be worked independent of any set.

Mack's Radio Service
76-77 Kent Terrace, Wellington.
Phone 23-448

St. Matthew Passion Music

(Continued from page 3.)

accompanied by the strings alone.

By that Bach no doubt had in mind the more ethereal tone quality which belongs to the strings than to the full orchestra and organ. The declamation throughout is simple, but words or phrases which Bach meant to be stressed are brought out in a very striking way in the vocal line, helped by the figure used in the accompaniment.

But the music is enormously better able to convey its own message than any mere words can hope to do; if even those will listen to it, humbly and in a simple spirit, who think the great Bach too gigantic for their little minds, even those who feel that the sacred mystery sets forth here, is "nothing to them that pass by," they must be touched by something of its splendour, something of its noble beauty.

ON many occasions during the last 50 years, a selection from the Passion music has been sung in Wellington at St. Paul's pro-Cathedral; a selection suited to the limited resources available for its adequate presentation. This does not imply a number of disconnected movements, more or less unrelated to each other, but a series of groups, each one being, as far as it goes, a complete representation of one of the episodes in the Passion story; the Passover, Olivet, Gethsemane, and the Cross; with a short prologue and the sublime final chorus.

In the absence of an orchestra a certain variety of tone in the accompaniments is obtained by an alternation, and at times a combination, of pianoforte and organ, the former being used to accompany the words of the narrator and the latter the words of Christ, both instruments being combined in most of the choral portions of the work. To one of the principal solos Simon Peter's bitter remorseful cry, "Have mercy upon me, O Lord," Bach has written a truly wonderful violin obligato; this poignant expression of grief transcends, in its emotional effect, any other musical utterance known to the writer.

Programme Features

(Continued from page 19.)

ists and will appear at 4YA this evening as "The Harmonic Four."

The personnel comprises Messrs. O. L. Garden, W. J. Robbins, E. W. Robbins, and W. Birch. Each member of the quartet is an exceptionally fine solo artist, and it is to be regretted that only one engagement can be arranged with the combination. The principal singer in the combination is Mr. W. Birch, who appeared recently at 4YA as a substitute artist. He is the possessor of a wonderfully rich bass voice of an exceptional range, and created a furore among listeners. Mr. W. J. Robbins's voice rivals that of Mr. Birch for artistic expression. Listeners can anticipate a musical treat from this combination. A string orchestra under the directorship of Mr. Thomas J. Kirk-Burnand, will provide some excellent music.

SATURDAY

From Auckland

A MISCELLANEOUS programme of much variety will be broadcast this evening. Contributing will be Barry Ingall's Hawaiian Quartet, to be heard in some popular melodies. Mr. Norman Ingall will present a tenor banjo item, "Listen to This." Two popular entertainers, Ernest and Wendy, will provide "Merry Moments at the Piano." A medley of Irish airs and a medley of foxtrots will be played by Mr. W. Brennan, an exponent of the mouth-organ, and Mr. Eric Bell will contribute pianoforte solos.

At 2YA

TROTting results will be broadcast in the afternoon.

In the evening Mr. Will Bishop will produce the second of his second series of "Eight O'clock Revues," or "Grown-up Children's Hours." Assisting Mr. Bishop will be the Etude Quartet (Gretta Stark, Rita Kemp, Ray Kemp and Will Hancock), and Elsie Croft.

In the supporting programme, solos will be sung by Mr. Kemp, "A Toast to Erin," "To My First Love," and "You'd Better Ask Me." The programme by the Salon Orchestra will include selections from "Rose Marie" and "Veronique," a novelty "The Funeral March of the Bumble Bee," the "Callerohe Suite," "Danse des Marionnettes," another novelty, "Two Hindoo Pictures," and the latest dance novelties.

From Christchurch

THIS evening The Joyous Pair will sing cabaret songs at the piano.

Some of the latest airs, including "Wanganui Moon," by a New Zealand composer, will be played by Miss Elaine Moody's Hawaiian Quartet, with vocal refrains by Miss Moody.

Mr. Reg. Lamb will entertain with humorous songs and patter. Bass solos, "Come to the Fair," "Home is Calling," and "Just A'wearying for You," will be sung by Mr. G. H. Ponder.

The Studio Trio will be contributing to the instrumental portion of the programme.

Dunedin Notes

THE evening's programme from the Christchurch station will be relayed.

Church Services By Radio

AS the Church of England at Home is facing a serious shortage of clergy, it has been recommended that isolated churches, which could otherwise have no service, should be encouraged to take advantage of the broadcast service. Several experiments in this direction have been attempted, and have proved surprisingly successful.

Talkies and Radio for the Home

THE Visionola, combining radio, gramophone and home talkie apparatus in a single console no larger than the ordinary radio type will shortly make its appearance on the New York market.

Questions and Answers

(Continued from page 15.)

between one wave and the next one is measured, the wavelength will be given. It is usual to make this measurement in metres, for it is a more scientific measure than anything else. We should find in the case of 2YA that the wavelength was 416m. The product of wavelength and frequency is always a constant, i.e., 300,000, the velocity in metres per second of electro-magnetic waves.

"RADIO FAN" (Wadestown): Before converting my 2r.f. B.D. into the "Outspan Five," I would like one or two questions cleared up. What would be the



K. M. FOUNTAIN.

A 3YA baritone, who will sing on March 25.

—Stefano Webb photo.

number of turns for primary and secondary of the two coils using 24 and 34 d.s.c. wire for a condenser .0005 and .00035?

A.: For .00035, 100 turns sec. and 40 turns primary, 60 tickler; for .0005, by turns, 30 turns primary, 50 tickler.

2. Would 5m.f. condenser be safe for use instead of the consider two im.f. condenser?—A.: Yes.

3. In the theoretical diagram of the "Outspan," the B plus screen goes to the top of the valves, and nowhere else, but in the reading matter it appears that top of the valve goes to the second and third coils, which I take it to be the grid.

A.: You are just a little confused between the English and American type valves. Our diagrams were prepared for English valves, which has the plate at the top of the screen, and the screen coming to the plate terminal of the valve socket. If you want to use American valves, the top terminal will certainly be the grid, and connected to the top of the coils, while the grid terminal on the valve socket will become the s. grid.

"LUND" (Westport): What capacity fixed condenser must I have in series with my .0005 to reduce it to .00035?—0.002.

8. What capacity fixed condenser would I require to put in my push-pull stage to by-pass any high frequency current, and how are the fixed condensers connected?

A.: Your question is not very clear. By-pass condensers are used in push-pull stages only in the output filter, and across the biasing resistance in the case of a.c. sets. The value is usually one or two mfd. If you want it to act as a tone control the value will be .025 mfd., and is used in series with a 50,000 ohms

rheostat across the grids of the push-pull valves.

A. D. (Wellington): I can put only 4½ volts bias on A409, which I use in the second last stage of my two-valve set. The correct bias for the last stage valve is 15 volts, and it makes no difference at all if I vary this.

A.: In the case of the first valve, 4½ volts will be ample, because 9 volts only are taken when 150 volts are on the plate. Are you quite certain in the case of the output valve that you have the bias voltage connected round the right way? The last transformer you are using appears to be questionable. Try substituting it with one such as AF3 or AF4.

"PUZZLED" (Wellington): I converted a home-made three-valve set to an all-wave set of English design, using plug-in coils. There is an increase of volume on the local station, and although I can get the carriers of the more distant stations, they are really weaker than before.

A.: Your circuit seems perfectly satisfactory. The coil specifications are likewise in order. Providing your valves and batteries are satisfactory, your aerial and earth system beyond question, your set should function perfectly on distant stations.

2. What will reduce the hum from an eliminator?

A.: Hum in an eliminator is due sometimes to a defective by-pass condenser or choke. We think in your case the better plan would be to contact the firm who supplied the eliminator.

3. I use a good cone speaker, but when the impedance switch is up something between a whistle and a groan ensues, though when the switch is down the speaker is all that is to be desired of it.

A.: Then why put it up? It would seem that either the speaker and the last valve are not matched when the switch is up, or there is something defective in the loading coil controlled by the switch.

4. I am using two PM4 valves in the audio.

A.: This should not be, and is possibly a good deal to do with your trouble. You are saturating the primary of the first audio transformer by the high anode current of the PM4. This should be used only in the last stage. Replace it by a g.p. valve such as PM3.

K. J.H. (Wellington): I have built the 4-valve B.D., and I wish to convert it to a.c. operation, so built the B eliminator described in 1927. I now wish to change over to complete a.c. operation. Where can I obtain an all-wave circuit?

A.: In the 1931 "Guide" there is a description of the "Radiogram Five," and from it you should be able to obtain particulars of the r.f. and detector stages. You could use a pentode following the first transformer instead of the valve shown. We shall bring out a complete three-valve a.c. circuit when we come to do the a.c. "Kestrel," but this is some way in the future.

2. I intend placing heater windings on the existing primary transformer. Would a 30 gauge primary stand the extra drain? If so, approximately how many turns would I need for four volts?

A.: You are cutting pretty fine by using the 30 gauge, but we think it would just do it. The number of turns would be 30.

3. Can I supply all three or any two of the above valves from one heater winding?

A.: The best plan would be to put E442 and E415 on one winding, and C443 on another, although the three could be taken from one winding without unduly overloading it.

4. Can I obtain grid bias from this eliminator?

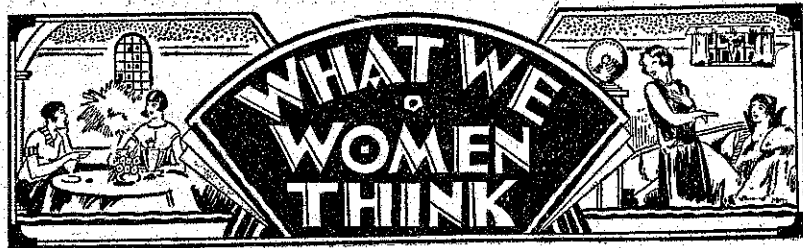
A.: Yes, but it will reduce the B voltage by the amount taken by the bias. In your case, however, you appear to have plenty to spare.

KNOW the time all over the world with a DX Clock.

THOSE who go down to the Quay to shop will find that the long-skirted flouncings so much in evidence in Saleland will prove a blessing to runners-up of last-minute evening dresses. These are offered in crepe de chine, georgette, and net, the latter finely frilled to the hip line. Part of the plain top forms the sleeveless bodice. For the older woman there are piece-lace flouncings, usually in black, and with such a dress a little velvet bolero is permissible for informal occasions. Soft reds and greens are favourite colours for this cosy garment, a fact which should be borne in mind when remnants come under consideration.

THE Begum Shah Newaz, beautiful member of the India Conference recently held in London, in an article in "John Bull," enunciates interesting views on the Ideal Woman. Thus the Begum in singularly sane and arresting diagnosis: "Englishwomen at their best are incomparable. They represent to us women in India an ideal of womanhood fulfilled. Of the type I admire most deeply I regard our beloved Queen-Empress as leader. Those who have been privileged to meet this gracious, unassertive, and profoundly enlightened personality will never forget her. She appears as the embodiment of the womanly virtues.

"But there are other types that puzzle us and make us feel, not without pride, that we have little to learn from them, perhaps much to teach. There are Englishwomen, often very beautiful, but their superb gifts are entirely used to attract men. I wonder if they realise how innocent they are of their true dominion. To court the admiration of men is putting all their splendid training to small, mean use.



"They might profit by the example of Indian women. We are brought up to live above men. To be courted is not a matter of overwhelming importance to us. It is, admittedly, given a place in our existence, but we take it for granted. If admiration from men comes, so much the better. But it is only our due.

"The women I speak of here in England long for male admiration. Eng-

IN many new houses we find that architects have returned to the old fashion of dividing one of the large rooms by folding doors. Such a room looks very well if one portion is furnished as a dining-room and the other as a lounge. I have seen a good effect produced by partly dividing a large room by means of a handsome screen. This gives the cosy and secluded appearance to the part used as a lounge.

*Bind ardent hope upon your feet like shoes,
Put on the robe of preparation,
The table is prepared in shining heaven,
The flowers of immortality are blown;
Let those who fight, fight in good steadfastness,
And those who fall shall rise in victory.*

—William Blake.

land is full of splendid women, veritable queens of beauty, but they are throwing themselves away when they allow themselves to submit to the ignominious tyranny of inciting male admiration. Living for such an object explains much in regard to the indelicacy of some Western fashions and many feminine habits."

The smallest lounge I have ever seen was made underneath the staircase of a modern house, in the space formerly occupied by cupboards. It makes the small hall look twice its original size, and, as it is protected from draughts and is fitted with an electric stove, it is quite a pleasant place in which to warm one's toes after a shopping expedition.

COAL economy is an important point in the winter months. You will find your coals burn twice as long if you sprinkle a handful of salt over it each time you make up the fire. If you are leaving a room empty for some time scatter fine ash or damp coal just over the top of the fire. This will prevent the coal burning away so quickly.

MANY young girls in London society are among the unemployed just now, for dress shops and gift salons where they were employed behind the counter have had to reduce their staff.

Mrs. "Freddie" Cripps, however, has such a flourishing hair-dressing business that she has "signed" on two extra assistants in the persons of Lady Patricia Ward, daughter of Lord Dudley, and Miss Romaine Combe.

Miss Valerie French, granddaughter of the late Lord Ypres, and sister of Mrs. Vyvyan Drury, as an assistant in the hat shop run by the Hon. Gladys Jessel, and Miss Joyce Montague, daughter of the Dowager Lady Swaythling, is still hard at work in the sports clothes section of an Oxford Street store.

ONLY another irrepressible canine, barking delight in life as he frisked in the wake of one motor-car and in line of passage of another, which incontinently mowed him down. Just the compact of audacity and trustfulness and joie de vivre which happened to be Angus, of the topaz-hued eye, lurching amber-brown body, and understanding heart. Many a lumbering bus, shrieking motor-bicycle, and disdainful Rolle-Royce had he gambolled

around, jumping perilously in their wake, and escaping by favour of the high gods. But on that fatal day the die was cast, his number was up, and, with all the skill and kindness in the world, the vet., so speedily on the scene, could do no more than administer a something which speedily wrote "finis" to the happy saga of frolicsome adventure that made up the life of Angus.

No snob, he piloted our friends, young and old, gentle and simple, down the long leafy path leading from gate to front door, asking no largesse but pat on deer-like head and kind word in response to appeal from liquid and trustful eye. His own dear and particular cobbler, however, was the postman, who, on news of extinction of that abounding and zestful vivacity, broke habitual reticence to tell of rambles down the Terrace on blue or grey mornings, four-footed adherent gambolling beside beloved vendor of letters, and anon roving to refresh lithe body under play of spraying hose turned on to wind-blown gardens. One-time derelict doggie though he was, Angus was a gentleman in love of baths and unswerving loyalty to chosen friends of his heart. Lovable, irresponsible and transparently sincere, his short life was a riot of joyfulness and devotion. Now, who knows, he scampers in Elysian fields, and adds the deep baying note that we loved to welcome of such Olympians as may be.

MISS POLA NEGRI'S admirers will like to hear that she is appearing in London in a film entitled "Farewell to Love," the action of the play being laid in a smart Paris night club. The exotic and temperamental star exhibits versatility in song, dance and the dramatic art as a gypsy cabaret artist, reaching hysterical climax in voluptuous last tango, bidding farewell to l'amour. The plot was inspired and written by Pola herself, who gave it to a dramatist to set to dialogue. The gypsy lover, chosen by Miss Negri, is Mr. Reginald Tate, who will be still fresh in the minds of many for his memorable performance of Captain Stanhope in "Journey's End."

A CURIOUS application for work is recorded by a contemporary. An editor received from a would-be singer: "I am sorry you do not like my poem for I feel that I have secret fire in my veins. If, however, you cannot accept these verses, will you give me a job as a heavy goods porter?"

FOR
SINGERS
AND
SPEAKERS

Pulmonas
PASTILLES

Ensure a
Clear Voice

1/6 a tin all chemists



---Goodnight
Everybody---

THE announcer's last words ring out through the room—and the radio is finished with for the night.

Now comes supper before the guests depart. And what a supper it is! Currant scones, tempting tea-cake, and a sponge that's a masterpiece.

How they praise Mother's skill, and when she tells them that much of their praise is due to the Anchor Skim Milk Powder she always uses, they determine to try it, too.

Have you tried it? It IS so convenient and will help to make your baking a great success. Your grocer has it. 1/2 per tin.



ANCHOR
SKIM MILK POWDER

FREE!

For free folder of "Tested Recipes" write "Anchor," Box 115, Auckland.

... With ... BOOK and VERSE

By "John O'Dreams"

PRIZE POEM COMPETITION

THERE are those in New Zealand who know and treasure certain poems by John Freeman appearing in one or two anthologies. After his death, lamentably when only forty-eight years of age, a collection of his Last Poems was made, and is now available to that small and select band of literature lovers who have received his work with acclamation. The interest and beauty of this last book of verses is enhanced by introduction by Mr. J. C. Squire, and I cannot do better than quote from his acknowledgement of the quality of Freeman's work: "He did not wear his heart on his sleeve, but those who are fit may find the key, and when they do they will discover that, except only the late Robert Bridges, he was love's truest scholar among modern poets. Were all his love poetry assembled, Swinburne's words might far more aptly be applied to it than to Gautier's scented novel: 'This is a golden book of spirit and sense.'"

A FAR cry indeed from sickly-sweet romances of past days to Mr. Temple Thurston's latest thriller, "Man in a Black Hat." Here we have a weird protagonist, who combines ancient lore and mystery, rendering him able at will to roam amid mysterious occult forces, while miraculously preserving youth and ability to snap fingers at darkness of death. This is a novel that will be read eagerly from cover to cover by those who, in dim hours of midnight, like flesh to creep and hair to stiffen in vicarious horror and amaze.

THOSE who aspire to histrionic prominence assuredly should study Miss Kate Emil-Behnke's "Speech and Movement on the Stage," recently published by the Oxford University Press. At a time when there is so unmistakable a recrudescence of interest in the drama, a perusal of its useful pages is to be commended. In the prevailing slipshod speech, the author deplores the fact that unaccented vowels are frequently omitted, so that "To be or not to be" becomes "T' be or not t' be," while Juliet often is guilty of "Come, file" instead of "Come, phial!" A bank in the Strand becomes a bank in the Strend, and in place of "educate" unlovely use is made of "ejuicate." "Fo-rinstance" is an ugly, and, alas, very common, instance of mispronunciation. Among other aspects of technique dealt with are verse-speaking, physical carriage, and voice-training. Altogether a valuable volume for those who aspire to the boards, and also for those who don't!

THE prize of half a guinea in the current competition is awarded to M.W.S., whose "Sonnet—Just England" we feel sure will appeal to lovers of verse by reason of its beauty of thought and phraseology. Selected for commendation, though widely differing in subject and treatment, are poems on "Music" and "Shelley," by "Oh Mack" and D.A.S. respectively. In its lilting cadences the former justifies its title, while the latter is arresting in treatment of lonely life and death of that prince of poesy, Percy Bysshe Shelley.

"Bashieu": Your sad little plaint and prayer is carefully composed, but does not rise above mediocrity.

K.M.N.: A sweet and joyous lay, showing poetic comprehension, but somewhat over-repetitive.

"Alone": A gentle songlet of heart-hunger.

M.W.S.: We liked your interesting comments, and agree with your admiration of aristocratic background of sonnet form in the world of letters. However, ballad or triolet or sonnet sequence, ancient or modern, so long as a degree of quality exists, each has its interest.

"In Place of Fear": This contribution exudes life and animation, but shows frequent tendency to lapse into the colloquial.

"Heraclitus": We like your impressionistic etching of a wanderer in a city street, which has the authentic atmosphere.

"Yvonne Mack": Your lines fail to scan, and lack the gracious spark that transmutes prose into poetry.

"Zuyder Zee": We rejoice in the suggestion of humour imparted to your erratic lines.

"Prue": "The Wreck of the Hesperus" is a poetic gem in comparison with "Blue Water Beyond," of which it has obviously been the inspiration.

"Evangeline": "Still is the song of the Dairy!" Shades of Longfellow!

... Sonnet—Just England ...

When palsied Winter grasps with icy hold,
And stricken birds of joys have ceased to sing;
When trees no longer echo with the ring
Of thrushes—long since gone to skies less cold;
Then everywhere, around the fire, is told—
As children to their fathers' arm-chairs cling—
A tale of how Sir Knight contrived to bring
A captive princess from a castle old.
While, close without, by fields of glistening white,
The poplar trees are swaying to and fro,
There now is heard a singing in the night,
As if some mighty voice, now chanting low,
And now ascending to some heavenly height,
Admired the scene that Winter painted so.

—M.W.S.

FAMA For Bathrooms, Lavatories,
Sink-tops, etc.

FAMA STONEWOOD FLOORING CO., Wellington.

MR. SIEGFRIED SASOON has followed up his already brilliant literary achievement with "Memoirs of an Infantry Officer." Mr. Sassoon's wonderful and terrible poetry, once read, lingers long in the memory as bitter comment on the fury and horror of life in the trenches in the nightmare of the war years. With the passing of time, however, which mercifully brings something of oblivion, this young and gifted writer would seem to have shed much of his revolt against fate. His latest book is an account of his experiences as a Welsh Fusilier in the line, in camp, and in hospital. Mr. Sassoon no longer dwells on horror piled on horror, but gives a succinct and vivid portrayal of events and personages that came within his line of vision and action. Those familiar with his imaginative vision and poetic quality will look eagerly for this outstanding addition to war literature.

Use Our Booking Offices in Advance

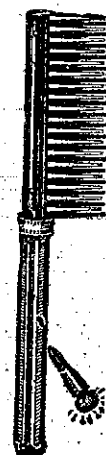
S-O-S

TRAVEL IN COMFORT BY
CAR

WELLINGTON — PALMERSTON
NEW PLYMOUTH

HAIR TROUBLES FINISHED

The Wonderful WHITE Electric
Comb



Electricity, recognised the world over as being necessary to the life of one's hair, can be put there by the use of the NEW ELECTRIC COMB. By passing the comb through the hair a few times a day you will keep it strong, wavy and full of colour. Greyness and dandruff disappear. The small battery which supplies the current, and which is contained in the handle of the comb, can be replaced when expended at the cost of 1/6. Over 280,000 in use. The price of the comb is 19/6, and postage 6d., so put 21 in an envelope with your address, and post to—

HARTLE & GRAY
CUSTOMS ST., W. AUCKLAND
Radio and Electric Supplies

The Guide

WILL ALWAYS STAND OUT!

As the Premier Radio Publication of 1931. Incorporating practically every feature that is of interest to radio set owners, it is of a distinct service to every reader, whether it be the most disinterested amateur or the case-hardened operator. Each section has been written by fully qualified technicians in an easily understood manner; with their handling the operation of the most complicated apparatus or circuit can be comfortably followed.

Special attention has this year been given to shortwave, both listening and transmitting. Proven circuits of different types are being published, with full particulars of adaptors, which when fitted to a standard receiver, successfully operate on the low waves. Perhaps the most popular 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.

For the benefit of those who are not versed in radio technicalities and desire to augment their knowledge, Chapter 2 will be found exceedingly helpful, for a start is made by the description of the fundamentals of radio, then starting with a crystal set, with reasons as to working, and in easy stages full facts are given on the working of every type of set up to a superheterodyne. Profusely illustrated so that the written word is even made more clear.

A look at the chapters mentioned in the panel will convince you of the field being covered this year, and readers are assured of a hundred per cent. return on money invested in purchasing the 1931 "Radio Guide and Call Book."

CHAPTERS OF INTEREST

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 6.—Short-wave reception and transmission. Complete circuits for different types of short-wave sets and adaptors.

Chapter 8.—Trouble tracking method fully described.

Chapter 10.—Call Book. Every station that can be heard in New Zealand will be listed, giving the wave-length and frequency.

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. This section alone is worth the price of the Guide.

To Be Published on March 25

Complete New Zealand distribution a few days later.

RADIO GUIDE & CALL BOOK

Obtainable from all Radio Dealers and Prominent Booksellers

OR DIRECT FROM THE

Radio Record

Price 2/6

P.O. Box 1032

WELLINGTON

"RADIO
Record."
P.O. Box 1032,
Wellington.

Please find enclosed P.N. for 2/10, being payment and postage for one "Radio Guide and Call Book." It is to be dispatched to me immediately upon publication.

Name

Address