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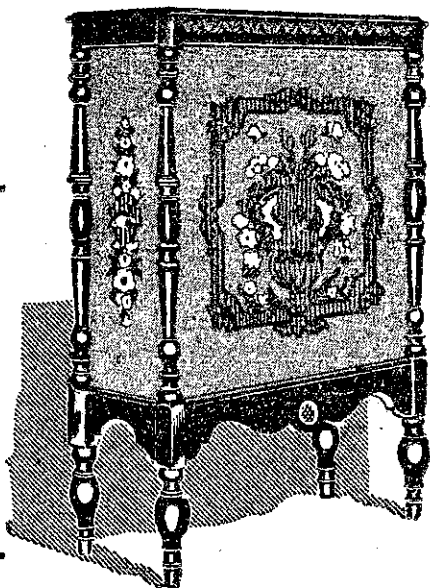
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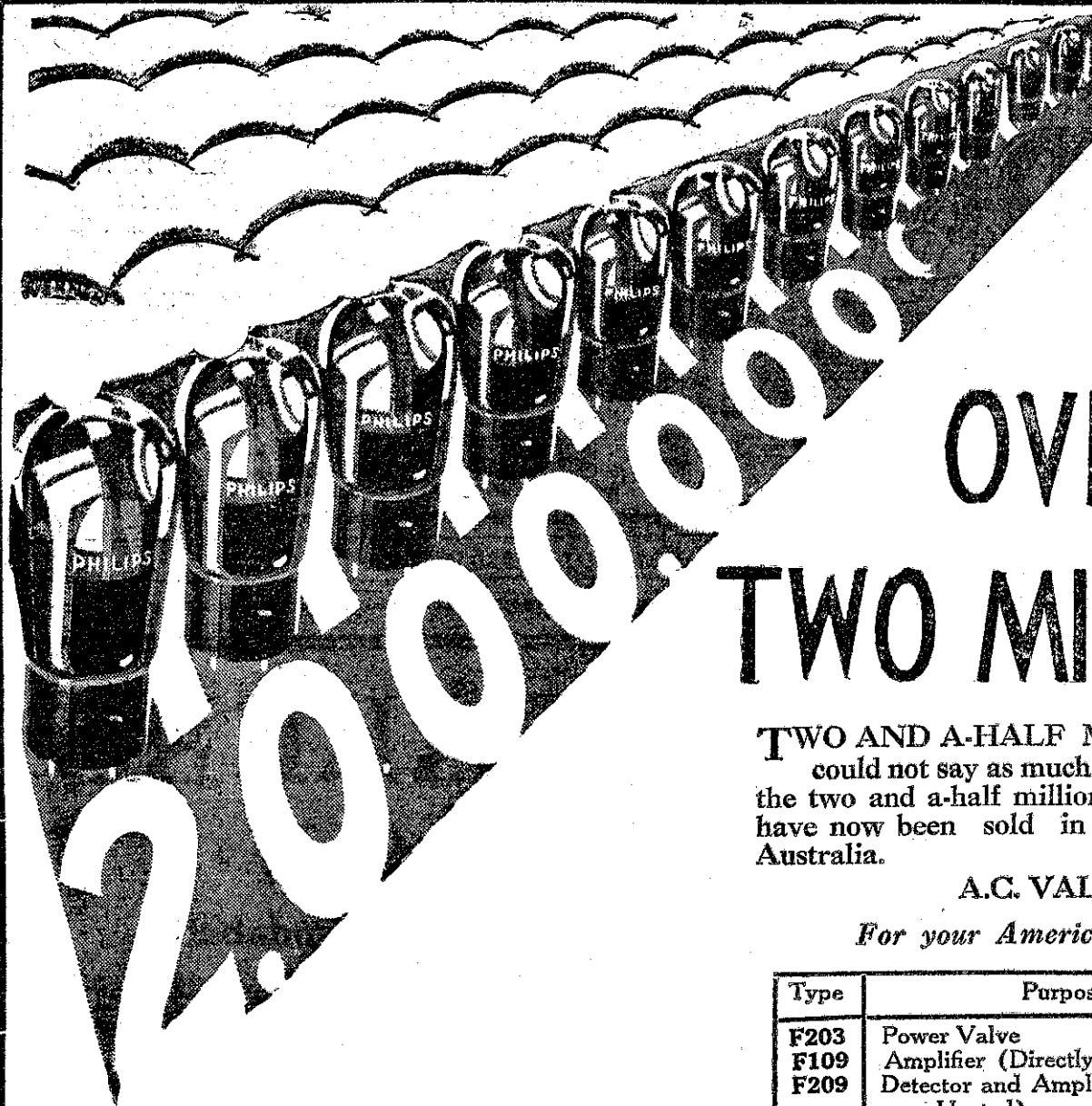
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New Zealand telephones to Great Britain

Test transmission provides successful link between homeland and outpost of Empire



ANOTHER milestone in the rapidly-forming New Zealand radio history was reached last week when a small group in Parliament House spoke by wireless telephone to England. We have heard of the remarkable service that is operating between Australia and England. This was preceded by the trans-Atlantic service, and each in turn was regarded as a marvel of radio engineering, but it remained for New Zealand to link with England and make the longest known commercial radio chain. The service, though not yet opened, promises to be one of the marvels of present-day radio.

It was led up to by a series of experiments, and many readers

have intercepted these test transmissions and wondered what they were all about. It will further be remembered that some time ago 2YA was conducting a two-way telephone with Sydney. This led on to official tests being made by the Post and Telegraph Department in conjunction with A.W.A. We announced only last week that the apparatus was ready for trial and that occasion was being made of

the presence of our Prime Minister, the Right Hon. G. W. Forbes, in London to speak with the Acting-Prime Minister, Hon. E. A. Ransom, and arrangements were made by cable for an attempt at radio-telephone conversation on Tuesday last.

PRIOR to that time a group of officials assembled in Parliament House to participate in the greatest radio experiment New Zealand has yet entered into. Some time before the arranged hour, Wellington and Sydney were in two-way conversation, and the final tests were commenced at seven o'clock. Conditions were not of the best, and although at times the voices were fading, they were yet clear, and it seemed possible that the great experiment would succeed. Finally the way was clear, and Sydney put through Wellington's first toll call to London. This was at 8.27 p.m. on Tuesday, November 11.

Those in the room waited anxiously for several minutes, and then a bell at the elbow of the Acting-Prime Minister, Hon. E. A. Ransom, rang. Mr. Ransom lifted the receiver, and although he spoke calmly, there was a touch of exhilaration in his voice as he said: "Hullo, George. How are you?" With the clarity of a nearby business caller the voice at the other end echoed: "Hullo. Good morning."

For a little while conversation was carried on with difficulty, but Mr. Ransom was able to tell the Prime Minister about a cable message he had received from London that morning. Then communication became better, and Mr. Forbes informed his listener that he had just returned from Scotland and that the weather had been very cold. Everyone in the party was well, he said, and they were looking forward to leaving for New Zealand.

"What is the time over there?" Mr. Ransom asked, and the (Concluded on page 2.)



The Acting-Prime Minister, the Hon. E. A. Ransom, speaks from Wellington over the wireless telephone to the Prime Minister, the Rt. Hon. G. W. Forbes, in London. Seated at the table are Sir Apirana Ngata (left), the Hon. E. A. Ransom and Mrs. Ransom. The Hon. A. J. Stallworthy and the Hon. J. G. Cobbe are on the extreme left, and standing behind Mr. Ransom is Mr. Sidey, son of Sir Thomas Sidey. Mr. M. Thomson, brother of Mr. F. D. Thomson, Permanent Head of the Prime Minister's Department, is standing behind Mrs. Ransom.

—Photo, "The Dominion."

reply came back: "Twenty minutes to nine in the morning." The clock in the room, twelve hours ahead of London, showed the identical hour.

A few brief moments' conversation took place between Mr. Forbes and Sir Apirana Ngata, who greeted his chief with "Is that you, George? Tenakoe!" Reception was becoming increasingly better, and Mr. Forbes's voice from London sounded round the room as he returned the greeting. He asked if everything was well in New Zealand, and he received the reply: "Keitepai," or "Very good."

Sir Thomas Sidey then came to the telephone, and Sir Apirana said: "Hullo, Sidey, the Attorney-General here," a remark whose humorous significance lay in the fact that Sir Apirana is acting in that capacity during the absence of Sir Thomas. A few personal questions were exchanged, and Sir Apirana put down the receiver with the remark that it was quite easy to recognise his colleague's voice at the other end.

Brought into sudden contact with a familiar room many thousands of miles away, one of the first questions asked by Mr. F. D. Thomson, Permanent Head of the Prime Minister's Department, was: "What horse won the New Zealand Cup?" and he was told that the winner was Nightmarch.

For nearly an hour others in the room spoke to those of their families

in London. An interesting few minutes' conversation was held between Mr. C. A. Berensden, head of the External Affairs Department, who accompanied the Prime Minister, and his two small sons. Mrs. Ransom also spoke to Mrs. Forbes and Sir Thomas Sidey and Lady Sidey to their son; Mr. A. B. Mulligan, secretary to Mr. Ransom, and Mr. T. R. Aickin, secretary to the Minister of Railways, also spoke to members of the party.

Mr. Forbes then returned to the telephone, and he spoke briefly to the Minister of Agriculture, Hon. A. J. Murdoch, whom he told that he had visited Smithfield as well as other places identified with the marketing of New Zealand produce. He said he was going into questions affecting butter and cheese, and that he was doing his best to look after the interests of New Zealand. He added that he intended to investigate the wool question before he left.

The Minister of Defence, Hon. J. G. Cobbe, then spoke to Mr. Forbes, and it was almost ten o'clock when, after Mr. J. McCombs, M.P. for Lyttelton, had spoken to the Prime Minister, Sydney at last cut in, and brought to a close a unique hour. Before the receiver was hung up Mr. Forbes was told that it was intended to put him on to his home at Cheviot, near Christchurch.

Wellington was then cut out, and Mr. Ransom congratulated Mr. J. Robertson, assistant secretary of the Post and Telegraph Department, and his staff upon the success of the tests. He said it was particularly pleasing that the conversation had been so clear, and the work of the postal staff was worthy of commendation. Mr. Robertson said that his staff had worked hard, and they had to be thankful that conditions had proved so good.

There was a considerable amount of atmospherics throughout the conversations, which were officially closed at ten o'clock. However, when speaking to Cheviot, Mr. Forbes said he could recognise his children's voices. There was a little interference in the Sydney area at times, and although Wellington spoke to London through Sydney, the reply conversation was picked up direct. During the evening Mr. Forbes asked for Mr. G. McNamara, Secretary of the Post and Telegraph Department, who was unable to be present, and he asked that he be thanked for making the communication possible.

And so ended the first telephone call between London and New Zealand. It will probably be a few days before a commercial service is established between the two countries, and it is to be hoped that with the opening we will be able to tell the full story of the growth and development of Empire telephone communication.

A Wireless Colour Scheme

To Aid Service-men

TO rob wireless repair work of one of its greatest bugbears is the object of a new standard colour code of wiring adopted by two leading British manufacturers. To diagnose the trouble in a receiver, the service man has first of all to identify the various circuits amid the maze of wires, and this is sometimes the hardest part of his task.

The colour coding system has been in use by the telephone industry for many years, but the new system represents the first attempt to standardise the code in the radio trade.

A Radio Scarecrow

RADIO is being employed by an English orchardist to prevent birds from robbing his orchard. Scarecrows and revolving mirrors were tried first of all, but to no avail. Finally he concealed a loudspeaker inside a scarecrow and connected it to his wireless set. The birds deserted.

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Freshman 5-Valve Table Model, complete	29 10 0	16 16 0	3 10 0	1 5 10
Screen-Grid, 4-Valve Factory Built, no Cabinet, complete	32 10 0	18 18 0	3 10 0	1 8 10
Watmel, 2-Valve English, in Oak Cabinet, complete	10 0 0	7 7 0	1 0 0	0 12 0
N.Z.R. 2-Valve, in Cabinet, complete	9 12 6	8 10 0	1 10 0	0 13 3
N.Z.R. 3-Valve, in Black Kauri Cabinet, complete	12 12 0	9 12 6	1 12 6	0 15 0
Traylor, Portable 5-Valve, complete	27 10 0	15 10 0	3 10 0	1 2 6
Crosley, 6/60, 6-Valve, Mahogany Cabinet, complete	34 0 0	22 10 0	4 10 0	1 13 9
Crosley 804 Jewelbox, 8-Valve, All-Electric, complete	56 0 0	32 10 0	6 10 0	2 8 9
Crosley 704 Jewelbox, 8-Valve, All-Electric, complete	48 0 0	26 0 0	5 0 0	1 19 4
Crosley, 42A 8-Valve, All-Electric, complete	45 0 0	38 10 0	7 10 0	2 18 1
Crosley 32 Console, 8-Valve, All-Electric, complete	47 10 0	39 0 0	7 10 0	2 19 0
Airmaster (Australian), 3-Valve, All-Electric, Walnut Cabinet, complete	27 10 0	18 10 0	3 10 0	1 8 1
Aerola, 8-Valve, All-Electric, in Oak Floor Type Cabinet, complete	30 0 0	19 10 0	4 0 0	1 9 1
Crosley Showbox 8-Valve All-Electric, complete	45 0 0	30 0 0	6 0 0	2 5 6
Trinity 4-Valve, Screen-Grid, All-electric with Magnovox Speaker and wave trap, complete	37 10 0	22 10 0	4 10 0	1 14 3
Fada 6-Valve and Rectifier. All-electric, complete	65 0 0	27 10 0	5 10 0	2 1 9

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Auckland Notes

Light Entertainment Featured

Empire Short-waver

Hitch in Plans

New Programme Schedule
from December 1

THE Auckland Comedy Players, under the direction of Mr. J. F. Montague, will produce two short dramatic sketches from 1YA on December 2. One of these, entitled "The Devil's Rock," was a prize winner in the radio play-writing competition held last year. The authoress is Miss Betty Kerr, of Timaru, who is a well-known contributor to the "Home Journal" pages of the "Radio Record." This is the first time the sketch has been performed with a full cast. The other sketch to be presented is called "Her Busy Day."

ON December 19 Mr. Montague is to put on a new type of entertainment from 1YA, under the name of "Passers-By." The nature of this show is being kept secret, but something novel is promised for those who listen in to 1YA that evening.

THE concert by the Auckland Piano Students' Association from 1YA on Wednesday went off very well. One or two of the artists were obviously nervous at their first appearance before the microphone, but the general standard of playing was very high and some excellent new artists were introduced to local listeners.

A NEW combination known as the "Harmony Five" is to play from 1YA for the first time on the evening of December 5. These artists play the Hawaiian guitar, steel guitar, mandolin, and violin, and will be heard in popular numbers.

AN Auckland radio firm who are wholesale agents for a well-known American-built receiver, state that the manufacturer of these sets is about to bring out a receiver which can easily be fitted to any make of motor-car. This set is specially designed for automobile reception and is stated to give excellent results. Incidentally, the same firm report that October was their best and busiest business month during the last six years.

ON Christmas Day 1YA will come on the air at 9 a.m. to broadcast a children's special Christmas session, which will last till 10 a.m. At 11 a.m. the station will relay the service from St. Matthew's Church, and at 7.30 p.m. there will be a relay of the Congress Hall Band from Albert Park, the station remaining on the air till about 9.30 p.m.

THREE well-known 2YA artists will be heard from 1YA on the evening of December 29. These are Miss Linnie Nicholas and Mr. Vryn Evans, sketch artists, and Mr. Sam Duncan, tenor.

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S-O-S

TRAVEL IN COMFORT BY
CAR

WELLINGTON - PALMERSTON
NEW PLYMOUTH

AS from Monday next, December 1, the programmes of the YA stations will be rearranged according to an extended schedule, published below, increasing the hours devoted to the lighter forms of entertainment.

In view of the admittedly great difficulty of providing programmes to please the diversified tastes of a radio audience, the Broadcasting Company has devised a scheme of broadcasting different types of programmes nightly from its stations. In this respect New Zealand listeners are fortunate in having the choice of so many stations when they tune in for the evening's entertainment.

When first arranging a schedule, or rota, the Broadcasting Company made a careful study of the needs of listeners, and since then, in order further to improve the service, it has made alterations and additions.

The rota which has hitherto been followed has proved very acceptable to listeners, providing as it has done a choice of a variety of entertainments, and listeners will cordially welcome the extension of the service as shown in the new schedule. Devotees to the lighter forms of entertainment will be specially pleased. In future, operatic and classical programmes, hitherto occupying two evenings, will be combined into one and will be followed by a session of dance music. Thus, one more night every week from every station will be devoted to a concert of the popular type.

From one station or another, on every week night, dance music will be broadcast. Dance music will be available from 2YA on three nights of the week and from the other stations on two nights. On Saturday evening all stations have a dance music session. A band concert is available to listeners on any of four nights of the week, from one or other of the nations. Those listeners in search of operatic and classical numbers can tune in to the station broadcasting that type of entertainment.

It may here be appropriately remarked that a process of evolution in all departments of the Broadcasting Company is continually going on. Listeners are, perhaps, concerned only with the programmes, but developments in every phase of the service, some having a direct and all an indirect bearing on the programmes, are always taking place. The Broadcasting Company considers it to be of paramount importance that everything connected with the service should be kept up to date. Advice as to any improvements which can be effected on the technical side is always given effect to and similarly every effort is made in respect to programmes, in the direction of utilising all the best available local talent, and overseas talent, too, whether in person or recorded.

The schedule now being followed by the YA stations is:

	1YA	2YA	3YA	4YA
Monday	Silent	Operatic-classical and dance	Band	Popular
Tuesday	Operatic-classical and dance	Popular	Silent	Band
Wednesday	Band	Silent	Popular	Operatic-classical and dance
Thursday	Popular	Band	Operatic-classical and dance	Silent
Friday	Variety	Variety and dance	Variety	Variety
Saturday	Vaudeville and dance	Vaudeville and dance	Vaudeville and dance	Vaudeville and dance
Sunday	Divine Service, followed by Concert.			

CLOSELY following the news of the intended establishment of an Empire short-wave station at Home comes the announcement that the British Government will not proceed further in the matter unless the Dominions bear a greater proportion of the cost.

Mr. Brown, the Postal Director of Australia, recently announced, however, that he believes the previously-accepted plans for such a service will eventually be adopted.

Some time ago the British authorities invited the opinion of the Commonwealth Government on the subject, and asked what amount annually Australia was prepared to contribute towards the erection and maintenance of an Empire wireless station in England. The idea was to provide a powerful plant, capable of projecting programmes that could be picked up in all the Dominions.

Australia's Prime Minister, Mr. Scullin, intimated the Commonwealth was willing to co-operate, and an amount was mentioned as Australia's contribution. This, however, was comparatively small, and apparently not satisfying to the British Government.

Commenting recently in an Australian exchange on the general principle of Empire broadcasts, Mr. Brown said there was no doubt that such a service would be of great value. He visualised the time when, besides a central Empire station in Great Britain, each Dominion would also have powerful wireless plants capable of exchanging programmes each with the other. Such broadcasts would help materially to bring the Dominions closer together, and enable the people of the various Empire units to know one another better. The first step would be a big station in Great Britain. Though the financial aspect was an obstacle at present, he had no doubt this would be overcome.

Mr. Brown also has strong ideas about the value of international broadcasting. He said the exchange of programmes over the air would go a long way to create amity among the nations, and thus would be helpful in preserving world peace.

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

WELLINGTON, FRIDAY, NOVEMBER 28, 1930.

WHAT RADIO MEANS TO THE EMPIRE.

LAST week we had a glimpse of the telephone service to England.

Its distinct success, although too much cannot be placed upon this achievement, has led us to expect that in the very near future a commercial telephone service will operate between ourselves and Great Britain, taking in of course Australia and probably Canada. It is likely, too, that in a very few months a telephonic service will be available to the principal European countries and the United States. To anyone who has followed the very rapid development of the trans-Atlantic service, it has been evident that such a service must eventually link ourselves with the rest of the world. Furthermore we understand that when the service is open to the public the rate will not be very high. Such factors as the time difference must always largely enter into the practicability of such a service and atmospheric conditions may cause trouble for quite a long time yet. Eventually they must be overcome. In the trans-Atlantic service the voices are garbled beyond recognition when they go on the air, and the only instrument that can straighten them is the official receiver at the other end. This must ultimately be resorted to on our service, for it is the only sure means of maintaining secrecy. However, it is too early to discuss the technical arrangements of the new service as until it is definitely open little information can be had.

EMPIRE broadcasting, like the wireless telephone, must come. The last time we raised the question the suggestion had been turned down definitely by the Imperial Conference on the grounds of technical and financial difficulties. At the same time we were able to

publish an article which searchingly questioned the technical aspect of the refusal. From English publications just to hand it appears that they, too, discountenance the technical aspect and turn attention to the finance. In a nutshell, the position is that the British Government does not want to handicap its listeners with the expenses of a station that will be of use mainly to the Dominions. Though its value is being strongly testified to by such men as Sir John Reith, chairman of the British Broadcasting Corporation, it is felt, naturally enough, that the Dominions should share the expenses of the project. In fact, the B.B.C. unanimously supported the project when it was due to come before the conference. It was expected that something should be done. But it wasn't.

It appears that prior to the conference the British authorities asked Australia what measure of financial support she was prepared to bear. The amount mentioned was too small, and at that the matter rests. Everyone seems to be confident that matters will right themselves and that time will see the establishment of a worthy Empire broadcasting station; everyone agrees that it will be one of the greatest Bonds of Empire possible; yet no one seems to be doing anything. A small country like Holland has provided an excellent service for not only its colonies but all the world. They even provide an announcer who speaks in seven languages, and yet the greatest Empire the world has known hesitates. Perhaps we shall have to wait for private enterprise to show the way.

Dutch Radio Upheaval

Listeners Demand Their Rights

A MONSTER demonstration by radio enthusiasts to demand their rights took place at The Hague on September 6 last. Dutch programmes are run by five associations, and the hours of their respective broadcasts have been determined by the Minister of Public Works. The strongest of these associations is an organisation known as the Radio Association, a group of wireless enthusiasts without religious or political tendencies, their weekly organ, "The Radio Messenger," having a circulation of 230,000.

Holland is a country of multiple religious sects and innumerable political groups. The Governor of The Hague is strongly influenced by religious inclinations, and a new statute passed on May 15, which came into operation on July 1 last, introduced a new broadcasting time-table. The three religious associations who transmit programmes under this time-table are favoured to the detriment of the other two, one being the Radio Association. Although this organisation is the most powerful, its hours of broadcasting were cut to within half of the time permitted before the new statute. Listeners would not have been so perturbed had not the programmes suffered by the change, but in place of the popular concerts and classical music supplied by the Radio Association, an unbroken series of religious lectures and services were put on the air by the favoured three.

Dissatisfaction grew, and letters of indignation were received from all over Europe, one coming even from India. A petition was submitted on September 1 to the Queen containing 460,000 signatures of persons over the age of 18 years. Then a leaflet was circulated, calling upon 50,000 listeners to form a deputation to The Hague. To the immense surprise of the Radio Association this appeal was answered by 140,000 people. Police could not

Diver Talks to Aviator

Novel Broadcast

THOUSANDS of radio listeners in America were able to tune in recently to a two-way conversation between a diver standing on the floor of the Pacific, off the coast of Los Angeles, and an aviator flying above the ocean. The diver described to the pilot the floor of the ocean, and was himself entertained by the pilot's commentary on the beauties of the ocean.

The novel conversation was picked up by a yacht cruising nearby, and transmitted on short-wave to a powerful station, which in turn relayed the event over a nation-wide broadcasting system.

cope with the overwhelming horde of people and vehicles, bearing flags with a device of concentric circles to represent waves.

The demonstration was a striking illustration of the power of the Radio Association when brought into conflict with the Programme Commission. When the Radio Association and the Socialist Society, contrary to instructions, endeavoured to broadcast international and political conferences, the censor intervened in every case, on one occasion taking drastic action to ensure compliance with its demands. Ultimately the two societies amalgamated in their stand for impartiality in broadcasting, and the struggle still continues.



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Children's Sessions

AT 1YA.

TUESDAY, DECEMBER 2.—Another interesting hour with Uncle Dave and Uncle Reg, listening to their stories, music, and musical stories.

WEDNESDAY.—Four boy sopranos will assist Uncle Tom this evening with quartets and solos.

THURSDAY.—Songs and sketches from cousins, while Peter Pan will attend to the stories and jokes department.

FRIDAY.—Nod and Aunt Jean to-night and Cousin Rena will sing.

SATURDAY.—Cinderella with many interesting tales and jokes, cousins with duets and songs, and Radio Postman busy planting presents.

SUNDAY.—Children's Song Service conducted by Uncle Dave assisted by a Sunday School Choir.

AT 2YA.

MONDAY, DECEMBER 1.—Uncle Jeff, the Kipling Lady, and the Maori Legend Lady will all be here to-night. There will be Seguidillas, the "Elf and the Dromouse," and puzzles. Miss Marjorie King has promised to provide the programme.

TUESDAY.—Miss Helen Gardner's pupils will help Uncle Toby and Jumbo give the children of Radioland a happy hour to-night. The Milly-Molly Mandy Lady will also be here with her story.

THURSDAY.—Big Brother Jack and Uncle George are conducting the session to-night with the help of a little band of singers, and a delightful orchestra from the Hutt Schools.

FRIDAY.—There will be some delightful choruses to-night. Uncle Jim will conduct the session with Story Book Lady's assistance and the assistance of Story Book Man.

SATURDAY.—To-night we have again the Rongotai College with their excellent choir and orchestra. Uncle Noel will be in charge, and has promised to tell one of his extra-special stories.

SUNDAY, DECEMBER 7.—The Children's Choir from the Vivian Street Church of Christ will help Uncle George during the children's Song Service.

FROM 3YA.

MONDAY, DECEMBER 1.—At the studio will be Cousins Margot, Marjory and Rene with stories, duets, and solos, and some little pupils of Mrs. Williams, too, with the Mystery Man and stories of the Indian jungle.

WEDNESDAY.—Brings Uncle John and Uncle Alf, our old friend, and a band of singers from the Technical College. Lovely choruses and songs you all can join in.

THURSDAY.—A choir from the Girls' High School will help Ladybird Uncle Frank and Uncle Dick this evening.

FRIDAY.—Chuckie has a group of little pupils from St. Albans School helping him this evening, and he will sing a song and tell a story.

SATURDAY.—Aunt Pat and her little friends from the Ferry Road Convent will make this hour a very happy one to finish the week.

SUNDAY.—The Methodist Sunday School will conduct the Children's Song Service to-night.

New Orchestra for 1YA

Will Make First Appearance Next Week

A NEW orchestral combination formed by Mr. Harold Baxter will make its appearance at 1YA next week.

Mr. Harold Baxter, the conductor, received his early training under Mr. Colin Muston. At the outbreak of the war he left with the Main Body, and was often heard as violin soloist at concerts given by the New Zealand Division in Egypt. He was wounded at Gallipoli, invalided back to New Zealand and spent a year in hospital, after which he was discharged from the army. He re-enlisted and rejoined his company in France. In the latter stages of the war for a brief period (after the death of Mr. David Kenny, of Wellington) he was conductor of the New Zealand Divisional Orchestra—"The Kiwis." On demobilisation he returned to Auckland and was appointed leader of the Bohemian Orchestra, the Savage Club Orchestra and the Orphans' Club Orchestra. Two years later he proceeded to England and studied under Albert Sammons, England's leading violinist. On returning to Auckland Mr. Baxter was appointed conductor of the Savage Club Orchestra, later resigning and being appointed conductor of the Orphans' Club Orchestra. He is also conductor of the Leys Institute Orchestra. Mr. Baxter is also well known as a viola player and is actively associated with the Auckland Chamber Musical Society.

Mr. Carl Whitmore (violinist) received his training under Miss Edith Whitelaw, leader of the Bohemian Orchestra, and has had a very successful career as a theatre and concert violinist. He is recognised as one of Auckland's leading teachers of this instrument.

Miss Lalla Hemus ('cellist) is already well known to listeners, having been associated with 1YA for some time past as a soloist and in the orchestral and trio combinations at the station.

Mr. Jack Zimmer (double bass) is the leading double bass player of Auckland. He has had many years' experience in theatrical and large orchestral work, and is a member of the present orchestral combination at the studio.

Mr. Julian Dunn (oboe, flute and piccolo) is one of the most versatile woodwind players in Auckland. The first-named is the king of all woodwind instruments.

Miss Dorothea Ryan (pianist). This talented young lady is the composer of very well-known ballads, one of her compositions being the popular "Sleepy Maori Moon." She was for some years conductor of the Theatre Royal orchestra in Hamilton, and has frequently been heard from 1YA in unique piano improvisations.

Mr. Gordon Eady (clarinet and saxophone). Mr. Eady comes from a family very well known in local musical circles of two generations. He was for some years clarinetist in the Bohemian Orchestra, and has played in leading orchestras of Auckland. For some time he was a member of the 1YA Orchestral Octet.

Mr. Eric Waters, the organist of the orchestra, is already well known in Auckland not only as a pianist and organist, but as a composer. He was for some time teacher of the piano at Nelson's School of Music, and for the last few years, since the war, had been one of Auckland's leading pianists and teachers. He composed the music for "Tutankhamen" and "The Abbess of Whitby," produced by the Auckland Amateur Operatic Society, and conducted these performances.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE

A Persevering Singer

Victim of Remote Control

THE remote control system—which enables as many as nine studios to be linked together to provide one radio play—is reported to be a definite success in England, but it leads sometimes to amusing situations.

The services of an Italian tenor were recently solicited by the London broadcast station for such a production. The gentleman and his accompanist were posted in a studio apart and warned to embark upon a Neapolitan folk-song as soon as the green light signalled that the producer at the "panel" was ready to fade them in. They were also warned that under no circumstances whatever were they to stop until a series of "flicks" from the light told them that they might do so. At the first rehearsal, the signal to start was given and the singer commenced to do his best.

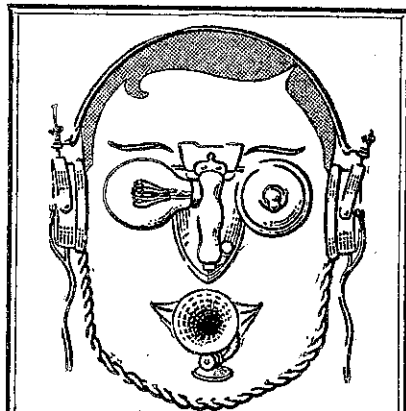
Long before the end of his first song, however, the producer faded him out, and worked the switch which should have given the order to stop. Unfortunately, the switch failed, and the signal was never received in the studio. The singer, anxious to please, for this was his first visit to the studio, embarked loyally on a second song, and then on a third. Three-quarters of an hour later, the studio manager chanced to visit the studio, and found the tenor, pale and exhausted, still singing into a "dead" microphone!

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Bob Horrobin

Flashlight Corner,
2 Courtenay Place, Wellington.
Quick Repairs 'Phone 22-357.

Wellington Apollo Singers

To Broadcast Shortly

LISTENERS will probably remember the first recent concert given by this very talented band of singers. The choir on that occasion enthralled their hearers with their perfectly-balanced part-singing, and were accorded a flattering reception seldom tendered to a musical society. Many messages of congratulation were received afterwards, indicating the wide interest taken in the new choir. The triumph was recently repeated at Masterton, where a scene of enthusiasm which was quite unparalleled was witnessed.

The Apollo Singers number twenty-four—six to each part—and they perform under the able conductorship of Mr. H. Temple White, who is one of the Dominion's foremost musicians, and whose work in connection with choral singing and organ recitals has frequently been relayed by 2YA. Included in the choir are singers who often contribute solo items from the Wellington station.

The programme of the second concert to be given on Thursday, December 4, will consist of a choice selection of items, comprising grand opera choruses, old English airs, and part songs by modern composers. Among the gems of musical literature to be presented are "The Sailors' Chorus" from Richard Wagner's famous "Flying Dutchman," Laurent de Rille's wonderful arrangement of the famous "Hungarian March," the old English air "Calene Custure Me," and the traditional "The Hunter in His Career," arranged by Percy Grainger for male chorus with

Remarkable Reception

CONCERNING crystal reception in North Auckland, Mr. H. H. Young, of Herekino, writes stating that with an experimental outfit, comprising a 2½ in. fifty-two turn coil and a permanent detector with a two valve amplifier, he was able to receive 3AR and 2FC at good volume. The next afternoon at 5.10 p.m., 2YA Children's Session was just audible on the phones but it increased in strength. At 6.45 2FC came in, and later, at 8 o'clock 2YA, 2BL, 3YA, 2GB, and 2FC, as well as several Australian stations, could be heard. With a semi-aperiodic crystal set unit connected to an amplifier he received all the YA stations and the main Australian. Later VK2ME and 3ME were heard.

an elaborate accompaniment for two pianos. Soloists have been selected from members of the choir as follow:—Messrs. H. A. Pargetter, E. K. Rishworth, A. H. Outtrim, and T. Watson, and listeners may look forward to a very enjoyable relay of the concert.

Mr. Claude Tanner will assist with several 'cello solos, among which will be Boccherini's famous "Minuet," and the "Melodie Arabe," by Glazounov. As a distinguished 'cellist, Mr. Tanner needs no introduction to listeners in the Dominion. Also assisting the Apollos will be the Cecilian Quartette of lady singers, which has recently been formed in Wellington. These ladies are a very talented band of vocalists, and their numbers will be sure to please listeners. The accompanists for the evening will be Messrs. William Billington (honorary pianist to the Apollo Singers) and Mr. Ernest Jenner, A.R.A.M.

Personal

MISS MARJORIE CHAPMAN, 'cellist of the 3YA Studio Octet, commenced study of the pianoforte at the Convent of the Sacred Heart, Christchurch, in 1920, later continuing under Mr. Howard Moody. Her study of the 'cello began in April, 1922, under Herr Zimmerman, joining in a few months' time Miss Flint's juvenile orchestra. In 1924 she became a member of the Christchurch Orchestral Society, afterwards playing in the orchestra at the Crystal Palace and Civic Theatres. In 1925 she became a pupil under her present teacher, Mr. Harold Beck.

MISS THELMA CUSACK, another member of the 3YA Studio Octet, studied the piano for a number of



years from Miss F. Tindell, and then later from the Misses Shillito. Subsequently she studied the violin, first from Miss Hood and then from Mrs. Harold Beck. Miss Cusack won various prizes for both piano and violin playing at the Christchurch Competitions in re-played in the Crystal Palace Orchestra until the advent of the talkies.

Railroad Radio

NOT a few countries have been adopting railroad radio and now the new Leeds-London express has been equipped with earphones. For a small charge travellers may listen to the programmes regularly broadcast.

Montreal Radio Show

The New Season's Trend

A MARKED feature of the radio receivers exhibited at the recent Montreal radio show is the provision for varying quality from bass to treble. This is heralded by American radio engineers as one of the most outstanding developments of the year because it makes listening more pleasant for each individual set owner. Thus he may accentuate the low notes of the drums or turn the control in the other direction and give the high-pitched notes of the violins the dominating role in the performance. After all, one control is only a matter of introducing distortion, for there is only one true tone.

Another interesting feature was the new art of home recording. A small microphone was provided with some of the new radio-gramophone combination receivers, so that the listener may make records of the programmes or of the voices of friends. The discs, six inches in diameter, are of unbreakable material and each can be played about fifteen times.

A Nearby Station

THE Nanking (China) Government recently placed a contract with a German firm for the delivery of a 60-kilowatt broadcasting station. It will be of the type supplied to Oslo (Norway), and will therefore prove by far the most powerful transmitter in the Far East. It is expected that this station will be heard in New Zealand.

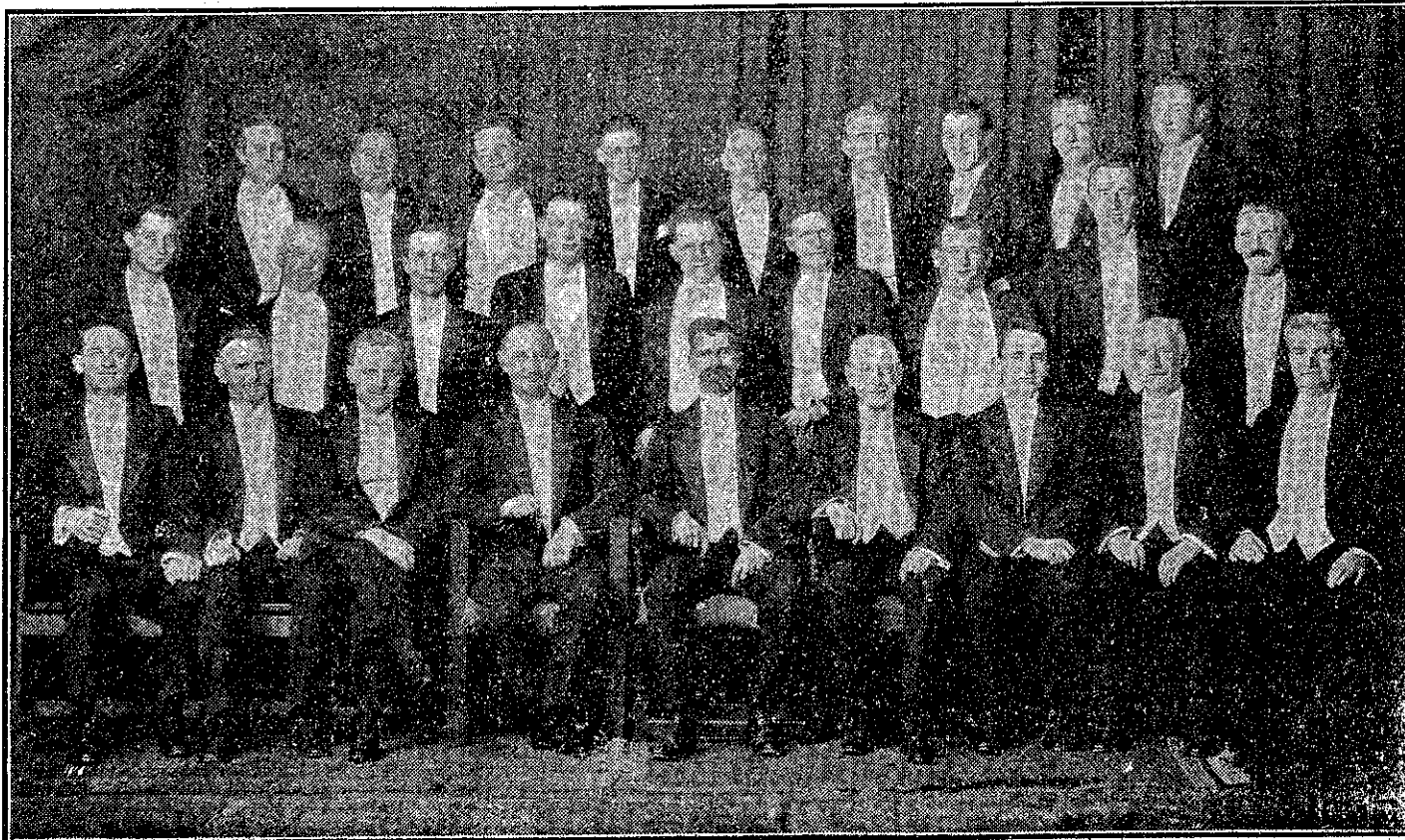
The Wellington Apollo Singers

Front Row: Messrs. A. H. Outtrim, P. Cutforth, L. J. Retallick (secretary-treasurer), P. L. Brady (chairman), H. Temple-White (conductor), Wm. Billington (deputy conductor and pianist), H. F. Gardiner, J. Rowe, A. Coe.

Middle Row: Messrs. E. T. White (librarian), G. W. Wright, D. L. Irwin, B. H. Mayall, L. Whyte, E. K. Rishworth, A. J. Hines, R. J. G. Madigan, T. E. Hogarth.

Back Row: Messrs. T. Watson, H. A. Pargetter, R. R. Orr, K. H. B. Strong, C. O'Hagan, W. Fielding, J. M. Caldwell, D. Hall, L. H. Daniell.

S. P. Andrew, photo.



THE RADIO ENTHUSIAST



In the early days of radio there was only one type of enthusiast, and that was the man who constructed everything and had a wireless set going out of the most varied assortment of odds and ends imaginable. In fact, in those days the only man who listened was the enthusiast, for it required a vast technical knowledge to operate a set.

With the improvement of radio generally and more particularly with the improvement of parts, it became uneconomical to manufacture all one's components. The manufacturers could turn them out much cheaper and better than ever they could be made, and so the enthusiast confined his attention to making up and trying different circuits. Furthermore, the amateur receiving enthusiast became different from the transmitting man. But now a third class has come into being, and very often they know nothing of the technicalities of radio. In fact, they do not know what is beyond the dials of their set, but they are extremely interested in radio and their chief object in their radio life is to receive long-distance stations. These people keep most uncanny hours, and sometimes receive some very weird stations. These people we call the DX enthusiast, DX meaning long distance.

We still find a large number of people interested in the construction of sets. Although the advent of the a.c. set has undoubtedly killed a very large proportion, still there are very large numbers who cannot afford such a set, and if they want to listen, must do so on simple home-constructed apparatus. Undoubtedly the simplest set is the crystal. Anyone can make a crystal set, and he can do so for a matter of a few shillings. For about three pounds he can provide a crystal set, earphones, aerial equipment, and pay his license for a year. Compare this with the £50 that has to be paid for a really first-class a.c. set, and you will see why constructors will not die out for a long time.

A great deal of fun can be had from constructing different types of crystal sets, but they all boil down to the same circuit, a coil of wire, the top of which runs through a crystal, through the phones and to earth. The bottom connects with earth. Now, if you want good results a tuning-condenser is used and connected between the top and the bottom of the coil. That is simple, isn't it? Special care is not needed to wind the coil, and the condenser may be of the cheapest type. It is not worth while paying big sums for precision made parts, but you do need a good aerial. So many people think that because they have a little set they need a little aerial—but the reverse is true, a small set a long aerial.

Now, when a crystal set is working there is no reason why it should not be tidily installed and wires taken from the phone terminals and run right through the house, so that you may have phones in any room. Furthermore, several pairs of phones can be used from the one crystal set.

Headphones are more or less comfortable and the constructor soon wants to use a loudspeaker and thinks about

D.X.-ing and Constructing

Outlined by

Colin W. Smith

From 2YA

adding an amplifier. This, too, is very simple, and can be built for little cost, but there is the upkeep of the batteries. The super enthusiast will use a primary battery such as the Daniel Cells and make his own B batteries from old torch cells, but such batteries require more attention than anyone who is not keenly interested cares to give. Do not expect too much from a one-valve amplifier, as at the best of times the signals are only weak. If you want real quality from the local station you must use two valves and at least 90 volts B battery, and do not forget the grid bias. This is a small battery about 4½ volts, and its use improves the tone and saves B current. With small amplifiers such as this only a small speaker can be operated, as the bigger ones are more or less insensitive.

A great deal has been written about the resistance of the Loftin-White, for it has been said that these are extremely critical, and I have seen specifications which have given resistances running into four figures right down to the last figure. This has frightened away very many who would otherwise have built it, but I can assure them that such is not the case. The main chain of resistance is not at all critical. They merely take the place of the voltage divider in the ordinary eliminator, and constructors know how this can be altered without any material effect.

What are critical, however, are the bias resistances, and, unfortunately, some of the gridleaks are not at all accurate, and may be 500,000 ohms at fault. But their replacement is a matter only of a shilling or two.

The original amplifier used the 224 screen grid and the 250 and later the 245 power-valves. It was soon shown by experimenters, mainly in Australia, that the power pentodes could be used in the last stage with advantage. There are, however, certain objections to the use of the pentode in the Loftin-White and, I think, a better valve for the last stage can be found than either the 245 or the pentode. At the present time we are working on a new combination which I believe will give unparalleled quality and greater punch than the ordinary circuit.

So much for the Loftin-White. I have dwelt upon it mainly because there are hundreds of constructors in New Zealand who are now concentrating upon it, and also because I am very interested in it. We have just shown how radio frequency amplification can be added to make a powerful set which,

Boxing Relay

The interprovincial amateur boxing tournament between Otago and Canterbury for the Waironga Shield, which takes place in the Civic Theatre, Christchurch, on Tuesday, December 2, will be broadcast by 3YA.

FROM the two-valve amplifier or other similar small set, the enthusiast usually branches into a "specialised" division. Quite a number of them become tired of constructing and go in for a commercial set, others build a four-valve set, such as the Browning Drake or Hammuriland Roberts, or perhaps confine their attention to shortwave listening. The last class search for real quality from the local station. Now to these people I want to say a few words about an excellent outfit, for it is usually contended that the local station well received is far superior to the local station ordinarily received and outside stations.

Concentrating upon this question of local station reception, our attention was attracted to the new circuit developed by Loftin and White. When the announcement was first made in America it was said that it was an almost distortionless amplifier, and succeeding tests have shown this to be true. It does away with transformers and inter-valve condensers, for the grid of one valve feeds directly into the plate of the last. Really there is nothing new about the Loftin-White amplifier, but it has been the ingenious application of an old and well-known electrical and radio principles that has made the amplifier famous.

WAIT for the "His Master's Voice" 1931

SCREEN GRID RADIO and RADIO-GRAMOPHONE COMBINATION

With a Wonderful New
Home Recording Device

Makes and plays your
own Records at home



ARRIVING EARLY DECEMBER

while no dearer than a home-made A.C. set with two more valves, can not be equalled for quality and punch.

THE country listener, who is confined to batteries, must use other circuits and, as I mentioned before, the four-valve Browning Drake or Ham-murldand Roberts will be his best bargain. These sets are quite simple to make and give astonishingly good results. Some, of course, do not want to go to the extent of four valves and prefer to make one or two-valve sets.

These, however, can cause a considerable amount of trouble, and most of the howling valves result from users of these small sets endeavouring to reach out and get stations too far distant. The thing that is difficult to understand is that these people know that they are howling and yet still continue to do so. In some measure, to combat this trouble the New Zealand Radio Press has withheld from bringing out one and two-valve circuits, though it appears that a large number of constructors are obtaining their information from magazines the circuits of which contravene New Zealand regulations. In order to meet this situation a new series of receivers on improved lines are soon to appear.

NOW I think I have said as much as time will allow to the home constructor. We must now pass on to the other radio enthusiast, the DX man. Any set will do for DX-ing, providing it has sufficient amplification to bring in outside stations without annoying one's neighbour. Recently I saw a curious definition of the ideal DX man's set—a power detector, with a high gain amplifier, preceded by two stages of imagination. Now, I don't think that is quite fair, as although many of these fantastic stations exist more in the imagination than in reality, still I am of the firm belief that easily the largest number of real DX-ers are honest.

There is no doubt that there is a considerable amount of fun to be had for searching for these unusual stations. Here are some of the times in which to search for the DX "plums," as they are called. Australian main stations during New Zealand daylight—and no imagination, please. Also, some of the small New Zealand B class stations are very difficult to receive in daylight. Most sets of four valves or more can receive the Japanese stations, which can usually be heard after 10 p.m. The music is very weird, and listening to them for the first time provides a real thrill. There is one just close to 4QG, which, in the Wellington district at least, comes in splendidly. The American stations have been coming in very well this season, and Chicago is not infrequently reported. They can usually be heard late in the afternoon and up till 8 or 9 o'clock at night, Sunday night being the best time, because they are then on later, it being their Saturday night. If you want to hear Chinese stations, it will be necessary to keep very late hours, for they do not begin to come in until the Australian stations have closed down. The Indian stations are still later, and they can usually be heard at about 2 a.m.

The most prized DX scalps are the South African and European stations, and surprising though it be, these have been definitely received before sunrise. At the present time there are a number unidentified stations which can be heard about 4 o'clock in the morning. I firmly believe they are European sta-

tions because very many of these operate on tremendous power, and there is no reason why they should not be heard. So far I have heard of no one who has received a verification card from any one of these, but I know a few who have written away and are anxiously awaiting a reply. It will be very interested to know who will be the first New Zealander to receive verified reception of a European broadcast station. They were heard in the old days on the crudest of apparatus.

I spoke a few moments ago about a verification card, and I know some of you will be wondering what that is. It is the only tangible proof that anyone can offer for receiving a station. The station is heard, the call-sign dis-

tinguished and some of the items and their times noted down. This, together with as many details of the reception as possible, is sent away to the station in question, and they reply by stating definitely whether it was their transmission that was heard. It is surprising just how many cards one can collect, and, I think I am not exaggerating to say that some listeners favourably situated have over 100 cards to adorn their walls. At the present time a competition is being held to see who can produce the largest number of these cards. One thing is necessary for good DX work—and that is a good aerial. Even then some people cannot get good results, and this is due to their situation. So many have written to me quite disappointed at not being able to receive the American stations, although

they have a good set, but all the consolation that I can offer, is that I have a splendid aerial and have tried on almost all the first-grade sets there are, and am unsuccessful, yet I know an enthusiast who lives less than two miles away who received them regularly.

Broadcasting System

Defined by Sir John Reith

IN view of the Postmaster-General's recent pronouncement that the Broadcasting Company's license, which expires in January, 1932, will not be renewed, and that the Government will take over the engineering control of broadcasting, the following extract from an article on "Broadcasting," written for the latest edition of the Encyclopaedia Britannica by Sir John Reith, director-General of the British Broadcasting Company, should prove of interest to all wireless listeners:—

In his article, Sir John refers to the following systems:—(a) 'Goodwill' commercial broadcasting tempered by Government control, as in the United States since 1927; (b) systems constituted as commercial companies, but subjected to the continuing supervision of a Government department, and limited as to profits; (c) companies commercial in form, in which the Government holds a controlling interest, as in Germany, Austria, Czechoslovakia; and (d) organisations of the type of the British Broadcasting Corporation or the Danish Radio Council, in which a national broadcasting authority is constituted by, but stands apart from, the ordinary machinery of the State.

"The success of an organisation of the last type," states Sir John, inter alia, "depends essentially upon the public according to its executives and its traditions—a confidence that is independent of its political outlook toward the Government of the day; hence it has usually been instituted as the result of prior experience, successful or unsuccessful, of other forms, and not at the outset. . . . In some countries the engineering side of the work is wholly in the hands of the State telegraph authority, and the broadcasting organisation as a distinct body is limited to the provision and execution of programmes. In others, the engineer service is as much a part of the broadcasting organisation as are the programme and the administrative departments.

"That the question is not a simple one may be gauged from the fact that of the two most highly-developed services in Europe, the one works under the first and the other under the second system. In the British view there are many factors, such as engineer interest in the details of studio acoustics and managements on the one hand, and artistic interest in the control of modulation on the other, that makes it undesirable for any hard and fast line to be drawn between the two sides of the work."

ON
DECEMBER
4th



WILL
PRESENT

A CONCERT TO BE RELAYED FROM THE WELLINGTON TOWN HALL

Commencing at 8 p.m.

Conductor . . . H. TEMPLE WHITE

Accompanists . . WILLIAM BILLINGTON and
ERNEST JENNER, A.R.A.M.

Part 1

National Anthem.

The Singers. "Hymn to Apollo" (Gounod)
"Queen of Love" (Bantock)
"Hungarian March" (De Rille)
Cecilian Quartette "The Lord is My Shepherd" (Schubert)
Claude Tanner ('Cellist) "Ave Verum" (Mozart)
"Minuet" (Bocherini)
The Singers. "Caleno Custure Me" . . . (arr. Harris)
"Lend Your Ear, Pretty Maid" (McLellan)
"A Persevering Vocalist" (Matthews)

Part 2

The Singers. "Sailors' Chorus" (Wagner)
"Ma Mississippi Home" (Smith)
"The Hunter in His Career" (Grainger)
Cecilian Quartet "Follow Me Down to Carlrow" (P. Fletcher)
Claude Tanner ('Cellist) "Melodie Arabe" (Glazounov)
"Intermezzo" (Granados-Cassado)
The Singers. "All Through the Night (arr. North-cote)
"Drink to Me only with Thine Eyes" (arr. Button)
"Follow the Gleam" (Aylward)

God Save the King.

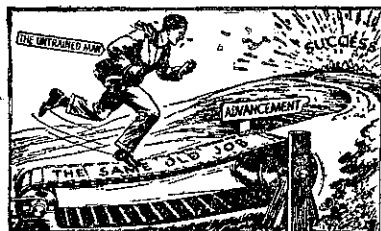
Radio for Porirua

THE acceptance of the tender of Standard Telephones and Cables (Australia), Ltd., for £1175 for radio installations at the Porirua Mental Hospital, is announced by Mr. L. O. Hooker, honorary organiser of the public appeal. Tenders for the five installations closed at noon on Friday, but owing to the absence of Dr. Williams, the medical superintendent, Mr. Hooker preferred that they should not be opened during his absence. Dr. Williams returned on Friday evening and the tenders were opened on Saturday morning.

The tenders for the five installations varied from £1175 to £1961, and the lowest was accepted. The successful firm was the lowest in each of the five sections. An immediate start will be made with the work so that the presentation of the Christmas gift and the official opening can take place on Christmas afternoon.

Practically 98 per cent. of the material used will be Empire manufacture. Even the induction motors for the electric turntables can be procured from Sydney. The five sets will be manufactured in Wellington. Standard Telephones and Cables, Ltd., recently made the installations at Hawera and Masterton public hospitals.

Mr. Hooker states that there are still over 6000 subscription lists to be returned, and hopes that these will bring the required amount for the remainder of the work. As the money comes in, additional installations will be arranged.



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Thousands of our Students of Home Study Courses, like Chrysler and Hinkler, have proved that it's TRAINING not STRAINING that gets a man SOMEWHERE and keeps him there.

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—Concrete Contractor, —Salesman (any branch),
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—Plan Drawer, —Com. Illustrator,
—Shoe Engineer, —Journ. 'st (any branch),
—Shoe Overseer, —General Education,
—Motor Engineer, —Language (C' phone),
—Motor Mechanic, —Special Examinations,
—Electrical Engineer, —Accountant (Inst. Ex),
—Elec. Mech. Exams, —Matriculation,
—Mechanical Engin'g, —Intermediate,
—Mine Electrician, —Hertford House,
—Telephone Mech., —Public Service,
—Aeroplane Engineer, —Special Women's Dept.,
—Aeroplane Rigger, —Dressmaking,
—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.....

Our Mailbag

Racing Results.

I AND quite a few other users of wireless sets were very disappointed last Saturday in trying to listen in to 3YA station for the result of the N.Z. Cup and other races. My set is a 7 valve A.C. and I tried the whole afternoon to get some result but to no avail. The same thing happened at the winter meeting of the Auckland Racing Club. It was announced on both programmes that the results would be on the air but not a set about Napier could pick them up. As a keen follower of racing, I hope you



An original idea for a fancy-dress costume. The wearer is Joan Coppins, of Otahuhu, and her appearance at a fancy dress ball in the costume depicted above excited much interest.

will excuse me complaining about 3YA, but after hearing the result of the Melbourne Cup it was rather annoying to wait all the afternoon and get no result at all—"FED UP" Napier.

Christmas Sessions at 1YA

DURING the period from December 15 to 24 there will be no silent days at 1YA, and the station will come on the air at noon each week-day instead of at 3 p.m. A number of special holiday features have been arranged for the Christmas season, among these being a Christmas party by the 1YA choir on December 17, and a pantomime on December 26. "Cinderella" has been chosen for the latter, and Mr. Len Barnes is writing his own "book" for it. A number of the afternoon sessions will be taken up with relay descriptions of the Ellerslie races and the Auckland trots.

KNOW the time all over the world with a
DX Clock.

Printed on Heavy White Paper.
Posted in Cardboard Tube.
9d. Each.

Sunday with the B.B.C.

THE B.B.C. has always maintained the traditional sacredness of Sunday, and programmes on that day are chiefly composed of church services and religious music. Now a certain section of listeners are asking for programmes of the type broadcast by Radio-Paris on Sunday. Acting on this, the "Wireless Magazine" has invited the opinions of a number of prominent Englishmen and women on the subject. Several consider the present Sunday broadcasts, both boring and dull, the novelist, May Edginton, being one of these. H. De Vere Stacpoole, the author of "The Blue Lagoon," advocated compromise. In-

A Dictionary for To-day

ISLAND: A small piece of land surrounded on all sides by traffic. Food: An obsolete word meaning diet. Gifted: An adjective used to describe the daughter of any society hostess. See also beautiful, popular, talented. Arcadia: Every third villa in any suburb or seaside resort.

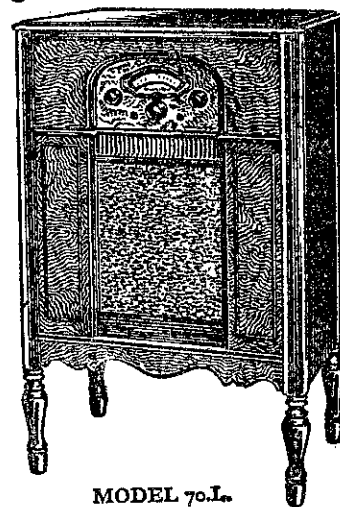
instead of excluding religious services they should be made more attractive and artistic. The majority of the others wished for lighter alternative programmes, thus enabling the listener to choose for himself.

*The radio
you're proud
to own*



ONLY ATWATER KENT has this Quick-Vision Dial—all stations evenly separated and always in sight — no stooping or eye-strain — as easy to read as a clock.

Beautiful to look at—thrilling to listen to! That's the new 1931 ATWATER KENT RADIO... with the Golden Voice. Velvety smoothness. Absolute naturalness. And four distinct Tone Shadings, from Treble to Bass. See and hear it.



MODEL 70.L.

New matched walnut lowboy. Speaker opening curtained with a rich duotone fabric. New Quick-Vision Dial and Tone Control. Also available in Model 10. Cabinet. Two distinct styles... but the same amazing performance.

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.

Australian Programmes

Times Corrected for N.Z.

Thursday, November 27.

STATION 2FC: 10 p.m., "The Lilac Domino," an operetta in three acts.
2BL: 10 p.m.: A concert programme arranged by the Musical Association of New South Wales.

3LO: 10 p.m.: Dance items, interspersed with variety numbers.

3AR: 10 p.m.: Relay from 2FC, Sydney.

Friday, November 28.

STATION 2FC: 10 p.m. and 11.7 p.m.: "The Rhythmic Three." 10.17 and 10.41 p.m.: Saxophone novelties. 11.15 p.m.: Relay from 3LO, Melbourne, of a brass band recital.

2BL: 10.14 and 11.5: Classical piano solos. 10.7 p.m. and 11.15 p.m.: Baritone solos. 11.32 p.m.: Violin selections. 3LO: 10.45 p.m.: Programme by the "Victorian Singers," assisted by the studio orchestra.

3AR: 10.15 p.m.: Community singing transmitted from the Mechanics' Hall, Geelong.

Saturday, November 29.

STATION 2FC: 10 p.m.: From the Little Theatre the 2FC Follies of 1930.

2BL: 10 p.m. and 11.18 p.m.: Songs by the Welsh miner. 10.14 p.m. and 11.44 p.m.: Banjo solos. 10.30 p.m.: Description of boxing contest from the Sydney Stadium. 12.30 p.m.: Dance music.

3LO: 10.50 p.m.: Chamber music. 11.15 p.m.: A revue by "Hatherley's Hilarious Highspots."

3AR: 10.17 p.m. and 11.45 p.m.: Xylophone solos. 10.22 p.m. and 10.53 p.m.: Description of dirt-track motor-cycling events. 10.45 p.m. and 11.50 p.m.: Comedy numbers.

Sunday, November 30.

STATION 3LO: 10 p.m.: "Joseph and His Brethren," a dramatisation of the Biblical Story. 11.40 p.m.: "The

Sundowners' Quartet," with Wurlitzer organ solos.

3AR: 10.30 p.m.: Relay from 2BL, Sydney.

Monday, December 1.

STATION 2FC: 10 p.m.: Relay from the Ashfield Town Hall, community singing and band music.

3LO: 10 p.m.: A concert by the National Broadcasting Orchestra, assisted by leading artists.

3AR: 10.1 p.m.: "Dandy Dick," a three-act comedy.

Tuesday, December 2.

STATION 3LO: 10.6 p.m.: "Moonlight Music." 10.26 p.m.: "The Limit," a comedy. 11.15 p.m.: Military band concert.

3AR: 10.15 p.m.: Organ recital. 10.30 p.m.: Ballads and novelty numbers.

Wednesday, December 3.

STATION 3LO: 10 p.m.: A four-act studio presentation of "Uncle Tom's Cabin."

3AR: 10.1 p.m.: Organ recital and concert from St. Paul's Church, Bendigo.

Curing Microphonic Howl

CONSTRUCTORS are occasionally troubled by a howl which issues from the loudspeaker when the set is switched on, and which tends to build up until it completely drowns the broadcast programme. This is probably due to microphonic howl, which is caused by sound waves from the speaker impinging on the detector valve. The trouble can be overcome by wrapping a quantity of cotton-wool around the glass bulb of the detector, thus shielding it from the loudspeaker. The quantity required may be determined by experiment, and it can be easily attached to the bulb with thread.

A Literary Achievement

The 1930 "Exporter Annual" will be most assuredly regarded by readers as a work of outstanding merit. It is the finest "annual" produced, crammed full of interesting matter covering a wide diversity of subjects, stories, articles, sketches, photos and recipes. Why, just a glance at the cleverly designed cover, chosen from many hundreds of entries, will give you some idea of the worth of the "Exporter Annual."

Some of the Contents.

Short Stories, humorous and serious.

Poems, humorous and serious.

Nature Notes.

Black and White Sketches

Descriptive Articles, Travel, etc.

Incidents.

"Between Ourselves."

"The Funniest Thing I Ever Saw."

Practical Farming.

"Between Ourselves," in Verse.

Tink's Section.

General Section.

Farm Hints.

About 250 Proved Recipes.

32 Illustrated Pages.

PHOTOGRAPHIC SECTION

Thirty-two pages of interest, covering all subjects. Phases of Pioneering—one of the many sections—depicts the different types of homes used by pioneers, and shows the evolution of country home building. Graphic illustrations of bonny kiddies and many glimpses of farm and rural scenes are also shown.

GOOD NEWS FOR THE COOK

About 250 practical and original recipes, contributed by New Zealand women, are incorporated. Dealing as they do with the preparation of all foods, this section is a guide to skilful and easier cooking which alone makes the "Annual" worth the price.

OBTAINABLE AT ALL BOOKSELLERS,
OR USE THE COUPON.

2/- PER
COPY.

RADIO RECORD HOME JOURNAL,
P.O. Box 1032, Wellington.

Please post me "Annuals."

I enclose

Name

Address

2/- a copy (posted). R.R.2

Questions and Answers France's Great Figure In Radio

Memorial to Branley

W. A. (Nelson): Is the solution of Epsom salts as good as the sulphuric acid in the Daniels cell?

A: See reply to "Fivale."

2. Is the gravity type of cell as good as the other?

A: It is not generally as satisfactory, for it is only a compromise. We have not, however, tried one against the other and would be very interested to hear from correspondents on this point.

3. My set draws just over a third of an amp. Would four cells be sufficient used directly from the charger?—Yes.

4. I have an 100 amp. hour battery. Will six cells keep it charged?

A: It depends on the drain. If you are using a third of an amp., yes.

5. If used as a battery direct, what is the method of testing for charge?—A voltmeter.

M. E. (Nelson): I have had the Daniels charger working three weeks, and find that some of the commercial zinc rods are eaten away.

A: As you are using a saturated solution of Epsom salts you will find if you water it down to half, it will stop your zincs being eaten away.

2. In a former letter I asked you if rain water was necessary, but you must have overlooked my question.

A: Sorry, your question was certainly overlooked. Pure rain water should be used, and this collected in an earthen vessel, placed out in the rain. Do not use tank water.

3. Must the bluestone be powdered?

A: No, just drop the crystals in the jar and pour the water on them.

4. Is the Epsom salts solution easier on the zincs than the sulphuric acid, and is mercury necessary with the former?

A: The Epsom salts is generally better as far as zinc consumption is concerned, and no matter what the electrolyte used the zincs are better amalgamated.

I ENCLOSE a sketch of the Daniel cell charger. Is it correct?

Answer: No. If you read the article again you will see that the sulphuric acid is placed inside the porous pot and the water added. The blue stone is placed in lumps outside the pots and the water poured on it. The zinc rod is the negative electrode, and placed inside the pot with the sulphuric acid solution. The copper strip is positive and is outside the porous pot in the bluestone solution.

LARGE multi-wire aerials are no better for broadcast reception than a well-insulated single wire of suitable dimensions.

KNOW the time all over the world

with a
DX Clock.

Printed on Heavy White Paper.

Posted in Cardboard Tube.

9d. Each.

ELECTRIC RADIOS
FROM £22
EAGLE
METRODYNE ROYDS-HOWARD CO.
353 COLOMBO ST., CH. CH.

PLYMOUTH

The Little RADIO with the Big Results.

Employs three Screen-grid Valves, 245 Audio and 280 Rectifier. Has built-in Rola Dynamic Speaker.

Only £22

SHIELDED TRANSFORMERS

3 to 1 and 5 to 1 Ratio, 7/6 each, post paid.

G. G. MACQUARRIE LTD.

120 WILLIS STREET, WELLINGTON.

"RECORD" (Pahiatua) writes:—
 "Have you heard of a record of Fritz Kreisler, the famous violinist, playing on the piano? A friend tells me that he thought that Kreisler had been recorded as a piano soloist."
 "Switch" has not been able to discover such a recording produced by any of the leading record companies. Kreisler, beside excelling as a violinist, is a brilliant pianist, but it is doubtful whether he has ever recorded on this instrument.

IF there is one enthusiast who really is devoted to the subject about which he broadcasts, "Switch" gives pride of place to the gentleman who talks on horticulture one night weekly from 2FC, Sydney. He is a genuine devotee, and has a homely method of speaking, avoiding all the embellishments with which some radio broadcast speakers adorn their addresses.

SEVERAL of the Australian broadcast stations are occasionally very lax in their manner of making announcements. The other night "Switch" heard the results of the day's races being read out by a youth who would not pass muster in the fourth standard of one of our New Zealand State schools. His laboured delivery made it seem that the undertaking was somewhat of a trial for him.

A GAIN "Switch" feels impelled to warn all owners of A.C. sets to make sure that they are receiving the correct voltage from their household mains. An acquaintance has been losing his valves at a ruinous rate, and it never occurred to him that his electrical supply was the cause of the mischief. On the writer's recommendation he obtained the services of an electrician to test the voltage of the mains. It proved to be well over the regulation 230 volts, and a resistance was fitted to the set, and no more trouble from that source is likely.

THE placing of a microphone at meetings of city and borough councils in New Zealand in order that the discussions could be broadcast would not tend to expedite business at these meetings. Too many of the councillors would take advantage of the opportunity to talk for vote-securing purposes. Yet, news is to hand that the proceedings at the city council of Buffalo, U.S.A., are to be broadcast regularly. Permanent microphones are being suspended from lighting fixtures in the centre of the council meeting room. What a feast of rhetoric listeners will be overwhelmed with!

THIS calls to mind an experiment carried out in Sydney a few years ago, when a debate in the Lower House of Parliament was broadcast. "Switch" happened to obtain good reception of this broadcast, and it still remains an amusing memory. The speakers were loudly interrupted, almost continuously, by other members, and the uproar was terrific. The affair was unanimously condemned by the Sydney Press.

A FEW old hands who were among the first to take up broadcast listening in Wellington were recently discussing the tremendous strides broadcasting has made since those days. The talk eventually turned to

the most wonderful development—re-broadcasting short-wave transmissions from distant countries. One of the party held that this recent development of radio will before long attain unthought-of success. He mentioned that future efficiency in broadcasting would probably depend on the use of ultra-short waves. The five-metre band had been found to be remarkably free from static, and fading was practically non-existent.

A PROPOS of the above, Mr. H. P. Davis, vice-president, Westinghouse Electric and Manufacturing Company, says: "There is no doubt

failed to achieve the success one could reasonably expect. He showed the outfit to "Switch," and on overhauling the components the writer found that one of the parts was of the class known as "cheap and nasty." An obvious defect was causing the trouble. The builder reluctantly purchased a high-class article, but the results soon delighted him.

ONE of the greatest benefactions any generously-disposed wealthy person in New Zealand could bestow would be the presenting of radio sets to the blind. Some time ago a lady who attended a meeting of the Wellington Radio Society told of the great benefit and pleasure a radio set was to her bed-ridden husband. But how much greater a boon would radio be to the blind who cannot afford to purchase a set? The American Foundation for the Blind has, during the past two or three years, distributed several thousand completely equipped radio sets to needy blind people throughout the United States.

AT the recent New York Radio World's air a fourteen-valve super-heterodyne attracted a large crowd to the booth where it was on display. It is called a circumnavigator, and is reputed to sweep aside all barriers of distance—"to bring you everything

that's on the air." The fourteen-valve circuit is said to have the power "to startle every listener with undreamed of sensitivity, mighty power and magic reach for distance." If it were used in Wellington and brought in "everything that's on the air" the owner would soon abandon it with disgust. There are so many electrical noises in and around Wellington that it would not be possible to get anything more out of such a powerful set than out of the average 8 or 9-valve outfit. The noise interference level in the Capital City applies a power-limit to radio sets.

THE "New York Times" comments on the fact that the type of listener who builds his own set is becoming increasingly rare. The modern a.c. set does not offer many opportunities for experimental construction. However, only the other day the writer met an enthusiast who has commenced building his own a.c. set.

THE Japanese stations came in well last week and were at their best at about 11.45 p.m. JOHK, Sendai, remains the loudest, but another station which threatens to rival JOHK of late is JOCK, Nagoya. The latter is on a wave-length of 370 metres (810 kilocycles), which is a little shorter in wave-length than 3LO, Melbourne. Both JOHK and JOCK employ a power of 10 kilowatts, but for some obscure reason the former has always been received with more volume than the latter.

DESPITE the economic depression which exists in the United States at present, the radio industry is thriving more than ever. The representative of one large manufacturer reports that his company has orders for £2,000,000 worth of sets. A representative of a valve manufacturing company estimates that from 75 million to 80 million valves will be sold this year in America.

KNOW the time all over the world with a
 DX Clock.
 Printed on Heavy White Paper.
 Price 9d.

Reception Table for Australian Stations

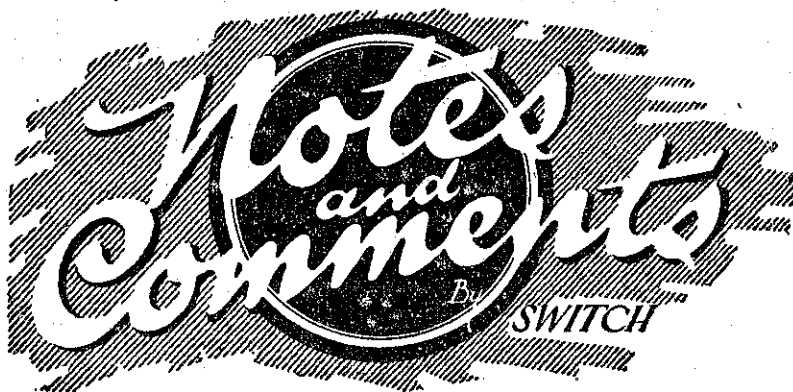
FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2BL, Sydney	9½
4QG, Brisbane	8
2GR, Sydney	7½
3LO, Melbourne	7
3AR, Melbourne	5½
2UE, Sydney	5
3UZ, Melbourne	3½
3DB, Melbourne	3½
7ZL, Hobart	3
5CL, Adelaide	3
6WF, Perth	1½
2KY, Sydney	1½

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

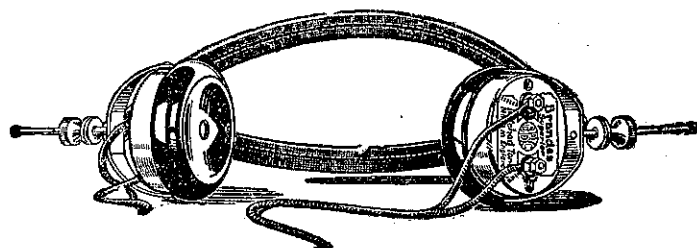
concerning the popularity and benefit of exchanging programmes with foreign countries. Unquestionably, the problem of long-distance programmes exchange by short-wave will make strides this year, and make it possible for nations to exchange programmes on schedule with success. Undoubtedly amply-powered short-waves will solve the international broadcasting problem. The rapid progress taking place in this field is so promising that important contributions to world broadcasting in the 1930-31 season will result."

IN radio a receiving set is only as good as its weakest part. A Wellington listener lately built himself an excellent short-wave set. The circuit and lay-out were ideal, but he



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

Answers to Correspondents

"X.Y.Z." (Timaru).—2ZL, Hawke's Bay North, and 2ZR, Wanganui.
J.C. (New Plymouth).—A series of articles on "How to Break into Transmitting" will be published shortly in these pages.

Addresses and Addresses Wanted

WOULD R.J.R. (P.N.) and "Kia Ora" (Frankton) please send names and addresses?

J.C. (New Plymouth) would like the addresses of ZL2CK, 1CJ, and 1CE, also of FZA, Saigon, and FTN, Paris.

D.N.A. (Timaru).—KTBS, Tri-State Broadcasting Coy., Shreveport, Louisiana.

Identification Wanted

STATION 1 degree above 1YA's new frequency every night at good speaker strength. The music comes through very clearly, but the speaking is very weak. Also a Japanese $\frac{1}{2}$ degree below 4QG, and another Japanese 1 degree below 2BI.—"Amuri" (Invercargill).

News and Views of the D.X. CLUB

STATION on approximately 48 metres on November 9, at 8.10 p.m., broadcasting gramophone records. Also one on 55 metres at 8.30 p.m. Both were R9 and sounded like New Zealand stations.—U.X. (Te Kuiti).

Station Identified

"SPARKS" (Christchurch) heard KWKH, Shreveport, Louisiana.
"Yankee" (N.P.). There is no station in Chicago with call WMBR, but there is one in Tampa, Florida, on 1210 kc. (248 metres). There is also a station WMBR on 1130 kc. (265 metres) at Memphis, Tennessee. A few weeks ago I heard my name, together with that of a Mr. Ellis broadcast from station KPFB, thanking us for our reports. It is interesting to note that in America quite a number of stations broadcast on identical frequencies. For example,

on 1200 kc. there are 34, on 1210 kc. 32, and on 1500 kc. there are 35. Chicago has 41 stations and New York 46. There are 51 Canadians and only three operate above 1000 kc.—J.T.S. (Napier).

X.Y.Z. (Timaru): You heard KPQ J.M.J. (Masterton): American on 2HD is KGFJ. D.X. (Dunedin): The only Melbourne station near 1280 kc. (234 metres), I know of is 3TR, Gippsland Broadcasting Service of Trafalgar, Ltd., Trafalgar. Te Ka (Te Kauhata): Power of KTM is 500 watts. —"Yankee" (New Plymouth.)

J.T.S. (Napier): There is only one KFI, and what you heard was another station rebroadcasting their programme. I have often heard this from several American stations, and found that they were rebroadcasting programmes.—D.N.A. (Timaru.)

"BUNG" (Waikato): I have logged between 25 and 30 Americans on a 5 valve, 3 s.g. set. The aerial is below the traffic bridge, Hamilton.
—"R.D." (Hamilton).

[Names of commercial receivers must not be used as nom-de-plumes.—Ed.]

DX Topics

A Correction.

STATION 2ZO, Palmerston North, is owned by Mr. J. V. Kyle, and not by Mr. J. V. Ingle, as announced in last week's D.X. notes. FZR, Saigon has been heard at excellent volume, testing on telephony with FTN, Paris. Is this the same station as Radio Saigon?—J.C. (New Plymouth.)

Some New Stations.

NO, R.J.R. (P.N.), I have not written to LTD, Durban yet, as I would like to hear a more definite programme. I have sent letters to Rumania and Calcutta, however. G. C. Holmes (Master-ton): I have heard KGW on frequency 320 kc. (483 metres). The only station I have heard on 508 metres (590 kc.) is a Canadian at Toronto. I heard him twice about three months ago. On one occasion he announced, "From the Musical Festival, Toronto," and also remarked that it had been a wonderful success. I was unable to get his call. I heard KSTP, St. Paul, Minnesota, fairly well on November 1, and logged KUT, Austin, Texas, on the 15th, on 1185 kc. (253 metres). By the way, "Squeak" correctly placed JOAK and JOHK recently. Another enthusiast quoted them wrongly. Jaka (Wellington) evidently thinks that I recently identified a station he was inquiring after in issue November 7. This was station 2ZO, and I mentioned it merely to correct a report of his appearing in another column, claiming to have heard 2ZA, Palmerston North.—J.P.C. (P.N.).

Some Well-known Short-wavers.

UNDER date October 24, Mr. F. Easter, Cincinnati, Ohio, U.S.A., in

The world's most popular Electric Motor!

DIEHL ARISTOCRAT

This famous machine is now available at a price lower than any other Electric Motor. The standard equipment in most of America's leading Combination Radio - Gramophones. Induction motor, automatic stop, sturdily constructed and absolutely reliable.

ONLY

£5/10/-

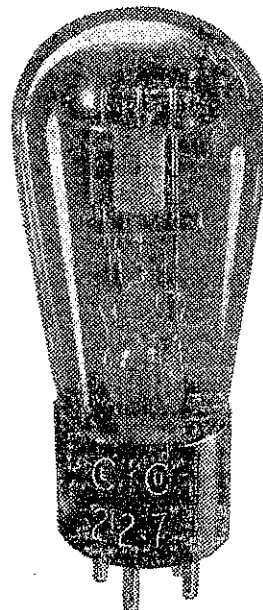
DEALERS
NOTE.

Shipment just arrived, supplies available for immediate delivery.

Agents:

RADIO LIMITED,
Commerce Building, Anzac Avenue,
AUCKLAND.

30-50% Better tone ..
30-50% Longer life



GOOD reception and poor valves just don't go together. Surveys show 90% of poor reception is due to "sense" dull valves that light, but are really "dead". Impartial tests prove a 30-50% greater "sense" keenness for CeCo Valves, which immediately gives your set greater clarity and tone quality—and 30-50% longer life. CeCo Valves will give you the full measure of radio enjoyment. Replace your old valves with CeCos today and listen to the difference.

CeCo
RADIO VALVES

Write to-day for free booklet "T"
Bond & Bond Ltd., P.O. Box 331, Auckland.

G. Q.P.

a letter to Mr. R. L. Jones, Wellington, says: PCK, Holland, is good now in the mornings (U.S.A. time); PHI has closed down for some reason. FTM at St. Assise, France, is heard every day excepting Sunday (U.S.A. time) working LSG in Buenos Aires on the phone circuit. LSG is on 15.2 metres and FTM on 15.5 metres. UZA, at Drummondville, Quebec, Canada, has been heard working a new ship on phone, the "Duchess of York." UZA was on 23 metres. LSH was heard every night except Sunday broadcasting music from 8 to 10 p.m. LSH is on 28.9 metres, and can be heard between 01.00 to 03.00 G.M.T. VRY, at Georgetown, British Guiana, is very good on Wednesday and Sunday (U.S.A. time) evenings.

3RO, in Rome, on 25.4 metres, came in at good volume. XDA, in Mexico City, broadcasts a news report and music session daily, except Sunday, on a wave-length of 20.5 metres, between 19.30 and 20.30 G.M.T. "This station comes in with a terrific 'wallop,'" states Mr. Easter, "and nearly upsets my loudspeaker." The news reports are given in both English and Spanish, the address being "The Trens News Agency, Colon Street 43, Mexico City, Mexico. The address of LSH is Transradio Internacional, San Martin 329, Buenos Aires, Argentine. The announcements are made in Spanish only.

Mr. Easter reports hearing ZLW, Wellington, N.Z., testing with Sydney and London. He noticed the "colonial accent" of the Wellington speakers, which is quite distinguishable from the overseas speakers. W2XAF has stepped its power up a lot lately, and has considerably more strength. CJRX, of James Richardson's Sons Ltd. in Winnipeg, Canada, has been discontinued, and they are now oper-

ating VE9CL in its place, the wave-length being 48.5 metres. Mr. Easter finally removes all doubts about W1XAZ. This station call is correct, and it is not W1XAD; the Z is pronounced as ZEE, not ZED, as in N.Z. This station is on 31.35 metres, and operated by the Westinghouse Company at Springfield, Massachusetts, and relays from WBZ and WBZA. Concluding, Mr. Easter reported the temperature at Cincinnati as 22 above zero.

A Well-known American.

I HAVE received a verification card from KPO, San Francisco. The address is: Hale Bros. and "The Chronicle," San Francisco, California. They welcome reports from New Zealand, and trust that conditions for long-distance reception will soon be favourable again. No particulars of station given.—"Bob" (Wellington).

Short-wave News from America.

THE following is an extract from a letter received from Mr. Fred Easter, 3353 Southside Avenue, Cincinnati, Ohio, U.S.A.:—"This summer has been the poorest for short-wave reception in three years. The most dependable short-wave station (broadcast) in Europe received here has been G5SW. W2XAF has greatly increased their power, and now blanket Zeesen and PCJ out. W2XAF can be heard at fair loudspeaker strength on the output of a detector preceded by one stage h.f. amplification now. The skip effect is noted on W2XAF here at around 9 p.m. with greatly diminishing signal strength. This at a distance of approximately 650 miles from the transmitter. VRY, in Georgetown, British Guiana, is heard very good at times here, but the wave-length used, coupled with the hours of their

broadcasts, do not admit of reception in New Zealand. HRB is very good at times, but distortion is often prevalent in their signals. March was the best month of the year for all-round good short-wave reception here. During the early part of April reception fell off, and continued very poor until recently. I heard the Pava phones PLB and PLF only in March and April this year. Station HKF, in Bogotas, Columbias, South America, has been in operation only a short while. This station is using a wave-length of 39.7 metres. The address is Laboratorio, Radio-Electro, Apartado 317, Bogotas, Columbias, South Ameri-

ca. The new station at Saigon, Indo-China, on 49 metres, is reported at good strength on the West Coast, but I have not heard it this far east yet."

Useful Tips

THE down lead of an aerial should come either from one end of the horizontal span, or from its centre.

A PIECE of galvanised iron as used for roofing makes an ideal earth plate.

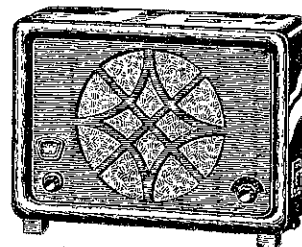
Grandma's grand dance!

The steps in it! Queer little hops and the whirl of long, flouncing skirt.

If you had been at our house last night to see Grandma dance, your mouth would have flown wide open . . . your heart would have jumped out on to the hem of Grandma's skirt and fluttered madly with sways and twists and trembles all over the drawing room.

Not Kruschen! But the dance music from our new Blue Spot Radio Set reminded Grandma of old gaiety, and she showed us the debut of a young lady of fashion amid country squires, gallant captains, bashful and wild young gentlemen. It was too lovely.

Will You Listen, To-day, to our BLUE SPOT RADIO SET?



The Blue Spot is a district receiver to switch on and play costing £17/10/-

With good aerial and position many stations may be heard at strength.

SOLD BY LICENSED RADIO AGENTS.

Factory Representatives:

SCOTT & HOLLADAY Ltd.

CIVIC CHAMBERS, WELLINGTON.

P.S.—The price of the Blue Spot Electric Pick-up will be announced next week.

Wellington Distributors:

ELECTRIC LAMP HOUSE LTD.

MANNERS ST., WELLINGTON.

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/-

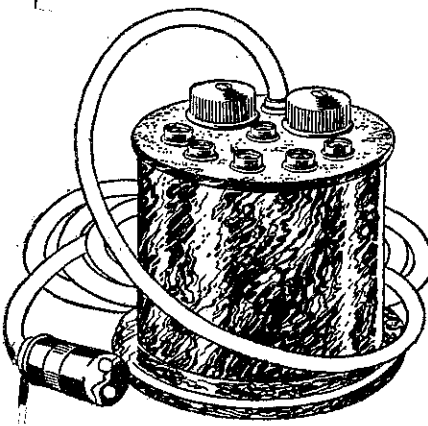
D.C. Type B (with voltage controls)£3

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.



Questions and Answers



"MAC." (Oamaru): I have a five-valve battery set. What is the best combination of valves?

A.: Four 221A's and one 112A type of power valve in the last stage. The power valve can be any make, though you will find the original Radiotrons are more suited to your radio and detector stages.

2. Where is the nearest agent for my set?

A.: Harringtons, Ltd., Willis Street, Wellington, are the nearest we know of.

3. Is a set adjusted properly when it vibrates and the music is blurred?

A.: This may be due to your speaker not being able to carry the load, or due to the fact that you are not using a power valve in the last stage. If one is used it must be suitably biased.

4. Where can I obtain a book on battery set?

A.: Such is difficult to obtain in these days of all-electrics, though you will find

the 1929 and 1930 "Guides" contain a good deal about batteries.

J.C. (Dunedin): Your inquiries refer to a set published by "N.Z. Radio," and we advise you to write to them for further particulars. A shilling is charged for advice.

H.P. (Wellington): Could I add a screen-grid valve in place of the detector valve in my three-valve set?

A.: No, the result would be very doubtful.

2. Can a trickle charger be used in place of a 4-volt accumulator?

A.: No, there is a certain amount of ripple still left in the current after it has been passed through the charger, and unless this is smoothed out you will not get satisfaction if it is used as an eliminator. A high capacity electrolytic condenser must be connected across the terminals and a choke used in series with one of the leads. A suitable choke was described in the "Record" a short time back.

V.H.W. (Auckland): Would a two-valve short-wave set be preferable to a short-wave adaptor used in connection with a 5-valve set?

A.: An adaptor is quite as good as a two-valve set, in fact it will probably give you better results, as the audio system is better.

2. I have not had good results on my shortwave set, although the locality is good.

A.: Try increasing the detector voltage and varying the value of the grid leak. Also another valve, especially if of the 415 type, may give you better results.

3. When the dials are at certain readings I get a roar which I think is not due to oscillation.

A.: This possibly may be due to outside interference. You could check this up by removing your aerial. If it is caused within the set your best plan is to communicate with the dealer who sold you the receiver, as it should not do this.

ART (Mount Eden): What valves should I use in my receiver?

A.: Use four 221's and one 112A type of power valve in the last stage. This must be properly biased and if the set is not made for grid bias, you could either alter it or have it altered. The power valve is used in the last stage with bias appropriate to the plate voltage.

2. I have three dials on my set. Which is the tuner?

A.: We cannot say, as we do not know the particular set. Probably the right-hand dial is the regeneration and the other two the tuners.

3. Would P825A be better in the last stage?

A.: Yes, it is an excellent power valve and could quite well be used in the last stage providing you arrange the wiring so that the full six volts be delivered to it.

"BUNG" (Waikato): Why cannot I receive shortwave on my commercial all-wave set?

A.: Try increasing the detector voltage and varying the grid leak. Being

a commercial set we cannot give you much advice concerning it.

2. Is 20 stations satisfactory for a three-valve set?—Yes.

3. Should the set whistle when I place my hand on the metal cabinet?

A.: No; but due to the design some sets do this. There is usually nothing really wrong.

4. My present condensers are .00035 and .0005. Is this satisfactory?

A.: They are large capacities if you want to work shortwave. You will find that the stations will be very bunched and you must look for them carefully.

5. I cannot seem to be able to turn down my reaction enough to tune in shortwaves.

A.: We cannot help you much in this direction, other than advising an increase in plate voltage, if you do not know your set sufficiently well. If you wrote to the engineer of Abel, Smeeton's Ltd. you may be able to gain further advice.

6. I am using B406. Could I use a power valve in the last stage?

A.: B406 is a power valve and you could not better the combination.

7. Why should stations on the lower numbers of my dial come in more strongly than those on the upper?

A.: This is not infrequent. The upper frequencies are usually amplified greater than the lower.

8. What is the most suitable speaker to use? At present I am using a horn.

A.: You could use a small cone speaker, and this should give you better tone with equal sensitivity.

9. I would like to get into touch with someone who is using a Courier set.

A.: If they write to you, care of us, their letter will be forwarded.

C.H.W. (Invercargill).—The diagram of your set is not a good one, and we would advise you to wait until the 5-valve screen grid Browning Drake is published, which will be soon after the Loftin White series is finished.

C.V.N.B. (Feilding).—Where could I get a circuit of a 5-valve Gilfillan?

A.: Harringtons, Ltd., Willis street, Wellington.

"SHORTY" (Wellington).—Is the following shortwave detector circuit correct?

A.: Yes, it can be used connected to the gramophone attachment of your set.

"KELVIN" (Johnsonville).—What is your opinion of my factory set, and could the valve combination be improved upon?

A.: Apart from laboratory reports we do not comment on factory-built apparatus. We do not know what valves you are using, and you certainly cannot vary the combination. First grade valves are regularly advertised in the "R.R."

"SAY SO" (North Auckland).—With a .00035 tuning condenser and a 2 1/2in former, how many turns of 24 d.s.c. wire would be required to cover the broadcast band, and where should the aerial be connected?

A.: 84 turns unspaced tapped at twentieth turn.

2. Using 30 d.s.c. for aerial and regenerator primary, how many turns will be required to suit a 2 1/2in. former?

A.: Ticker about 22 turns on a 2in. former, primary will vary according to the valves used. The average valve requires about 15 turns. A screen-grid valve requires 25.

3. Where should the fixed condensers be placed in the circuit, and should they be mica or paper?

A.: They are required from the set side of the r.f. choke to earth. In your diagram they are shown in the correct position and should be 1mf. mica condensers.

4. Which would give the better results for resistance reaction control—1000 or

N.Z.'S OWN RADIO BOOKSHOP

The TE ARO BOOK DEPOT, Wellington.

Booking orders now—"Handy's Handbook," 7th edition expected shortly, 5/3 posted.

JUST ARRIVED—Prices include postage:

"Radio Engineering Principles," by Lauer and Brown, 19/6.

"Collins' Wireless Diary, 1931," 4/- posted (Amateurs and Broadcasters—150 pages useful information).

"1001 Radio Questions and Answers, 1930," 2/9.

"Short-Wave Manual, 1930," 2/9.

"Radio Trouble Finder," 1/10.

Above published by "Radio News" Co.

"Radio Amateur Call Book," Sept, 1930, 5/3.

"Projection Engineering"—a monthly, 21/- per annum.

"Radio Manual," by Sterling and Kruse, latest edition, 26/-.

"Elements of Radio Communication," by Morecroft, 19/-.

"Thermionic Vacuum Tube," by Van der Bijl, 26/-.

"Radio Receiving Tubes," by Moyer and Westrel, 14/-.

"How to Make Practical Radio Receiving Sets," 1/9.

"How Radio Receivers Work," by Roberts, 8/-.

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Last year's "N.Z. Radio Listeners' Guide" still selling well, 2/9.

"Modern Wireless," 1/7.

"A1 About the All-Electric," 1/7.

"N.Z. Radio Handbook Annual, 1930," 2/9. (contains list of the World's broadcasting stations).

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2. Surprise Packet No. 2, 5/- Each packet contains a Muter Interference Eliminator and Static Reducer (value 4/6) and a large assortment of small radio parts that are always so useful to the experimenter and constructor. Trust us with 5/-. You will be well satisfied with the value we give you.

3. 2 only Philips' Baby Grand Loud Speakers. These are slightly shopsoiled but otherwise guaranteed new and in perfect order. **59/6 Each**

4. Indoor Spring Aerials. These aerials are like a roller blind spring with an insulator at each end. Will stretch about 12 feet across a room and still remain in spiral form. Very handy for those requiring a temporary aerial.

5. Speed type UX280 Rectifier tubes. **10/- Each**

6. Courier Transformers. We bought these from Wiseman's (in liquidation). They were listed at 22/6 each and were well worth it. Ratios 3 1/2 to 1 and 5 to 1. The price we paid enables us to sell at **12/6 Each**

Mail Orders Welcomed.
Money refunded if you are not satisfied.

—THE—
Electric Lamp House,
27 Manners St., Wellington.

2000 variable with the .5 or 2 mfd. condenser?

A.: A thousand ohms is generally considered ample.

5. Is the circuit submitted O.K. or should the grid return of the detector valve be connected to A+ instead of A-?

A.: It should be connected to A+, but if you wish to use single dial control take the grid leak from the grid side of the grid condenser to A+ and earth the grid return.

6. Three r.f. chokes are shown. How should the turns be wound?

A.: You will need 1000 turns for broadcast, but both these and the short-wave chokes have been very fully described in the "Guide," which apparently you have. Follow these descriptions.

7. What value fixed condenser is required in series to reduce .00035 to .0001? A.: .00015.

8. Could you give me certain coil specifications?

A.: We are publishing either this or next week full specifications, and you can get all the information you require from these.

9. What four-volt valves would you use with a Daniells Cell "A" battery?

A.: Use the UX221 type, which require only .06 of an amp.

10. My 5-valve set uses 1 r.f. and 3 transformer-coupled a.f. stages. There is a high-pitched squeal when using the 5 valves.

A.: This results through using too many a.f. stages. Very little can be done. You could try reversing the connections to the primary of one of the audio transformers. See that your last valve is biased properly and earth the cores of the transformers.

"MAGNET" (Wellington): How can a permanent magnet be remagnetised?

A.: There are several methods. The best is by winding a coil of wire around it and passing direct current through the coil. The current must run from the South Pole to the North. Another way is to take another magnet and stroke the permanent one in the one direction only.

2. Where can a permanent magnet of the size used in a pick-up be bought?

A.: Try one of the local dealers, who will probably get one for you.

3. Is a power or semi-power valve to be used in a three-valve set?

A.: If you want good quality a semi-power valve should be used, but usually a g.n. valve with appropriate bias is good enough to handle fairly weak signals. One of the B406 or the new B409 should be quite suitable.

4. How many turns of 36 d.s.c. tuned with a .00035 condenser are needed for a wave-trap?

A.: We would not recommend 36 d.s.c. wire on a 3in. former. Descriptions have been published in the "Guide" and in the "Record" of good wave-traps. Furthermore, further descriptions will soon be appearing.

5. What volume and distance should a three-valve short-wave set be capable of?

A.: You should be able to get stations all over the world at good phone strength.

6. Where could I get particulars for a transmitting license?

A.: We are soon starting on a series of articles on this topic.

7. One of my valves buzzes when a high loud note comes through.

A.: This is due probably to a defect in the valve itself, but so long as it does not interfere with your reception do not worry about it.

8. My loudspeaker requires 300 volts in the field, and I want to run it from a 600 volt full wave transformer. What value resistance will I need?

A.: 8000 ohms to pass 35 m. amps., and insert the resistance between the filament of your rectifier and speaker coil.

F.F.B. (Roslyn): Is the diagram of my circuit correct? It is intended for all-wave.

A.: You have shown your valves in series, but they would be better in parallel. Possibly you mean them as such. Coil is not advised unless selectivity is a prime factor. The valve combination PM3 and PM4DX is quite a good one, but use the 4DX as detector, for it is specially designed for that socket.

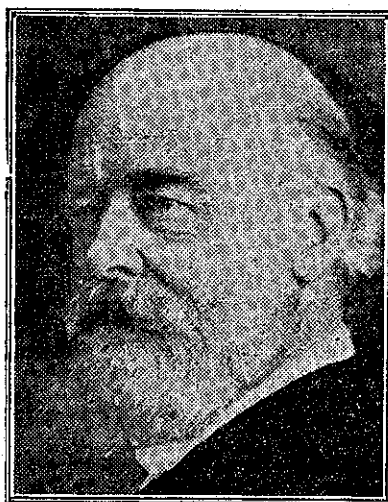
2. Is resistance control reaction as efficient as the condenser method, or does it reduce volume?

A.: It is equally efficient and so long as it makes the set oscillate will not reduce volume. The resistance must be of the finest quality and must work smoothly.

3. I have an aluminium plate and the moving coils of my condenser and the rheostat are connected directly to it. Is this satisfactory?

A.: Yes, but always watch your wiring to make quite certain you are not getting a short circuit, as it is very easily done with an arrangements such as this.

4. Does the Centralab resistance fixture make electrical connection with the instrument?



SIR OLIVER LODGE.

who predicts that in the near future the whole world will be linked up by wireless and broadcasts will be received with the same clearness as local programmes.

A.: They usually do, but you can find out for certain by testing the terminals and the part attached to the panel by phones and cell.

5. Hand capacity is bad when the earth is disconnected.

A.: Then do not disconnect it.

6. What type of receiver does Mr. Sellen use?

A.: A fairly straight receiver of the Schnell type.

LIGHT (Christchurch): Could I use an r.c.c. unit between a crystal set and my Loftin-White?

A.: If you had one you could try it, but we very much doubt if it would work.

2. What difference in volume would there be using a good transformer or an r.c.c. unit?

A.: The transformer is the safer to use, but really the best plan for local reception is to use the tuner, comprising a coil and condenser. Are you following our articles on the Loftin-White now running?

D.C.D. (Auckland): I am interested to see your series of articles on the Loftin-White, and would like you to publish constants for Philips Valves.

A.: Quite an amount of work is involved in changing the valve for the Loftin White, and at the present time we are working with a fair measure of success with the new B406 in the last stage.

The constants will be published in due course.

AUDIO (Eketahuna).—Can a screen grid valve be used in the first audio stage of "R. and W.3"?

A.: It cannot be used successfully unless the Loftin White hook-up is employed.

2. Can the super-heterodyne short-wave adapter be used with batteries?

A.: Yes; see our answers to a correspondent last week.

3. When are you going to publish a circuit using a screen grid valve as a detector?

A.: We have committed ourselves for future articles quite a lot lately, and do not feel like making any more rash promises, but we will keep your suggestion "steadily in view."

E.K. (Dunedin).—Could I build a set using all home-made parts except the valves?

A.: Yes, we described an excellent little set of this nature in our issue of September 3, 1929.

2. Where can I obtain a book on making home-made wireless parts?—Te Aro Book Depot, Wellington.

3. Would a 7-valve super het. be equal to a 4-valve B.D.?

A.: Yes, it would be more sensitive.

4. Where could I obtain a circuit diagram of the super het. worked on an outdoor aerial?

A.: "Wireless Weekly." Te Aro Book Depot, has supplies of this number.

FEARLESS (Wellington).—It is bad for an a.c. set to be worked on Wellington's harmonic continually?

A.: No, but it is not a wise plan, because not only are you more subject to atmospheric noises, but the quality is not so good. If you have trouble in controlling the volume, take off the aerial for Wellington.

HARBO (Wellington).—I have just renewed my valves with the exception of the power valves. Is this damaging the set?

A.: No, but as they are about the first valves to go you are probably losing a good deal of strength.

J.T.S. (Wangaloa).—Would a battery of 9 cells, as described in the "R.R." be sufficient to keep a six-volt accumulator charged, the rate being 1.16 amps?

A.: Your consumption is just a little high but the experiment would be worth trying.

2. Would the Epsom Salts solution be as effective as the sulphuric acid?

A.: The Epsom Salts is worth trying as it is usually lighter on the zincs. Other than this sulphuric acid is the better.

FIWALVE (Napier).—Some time ago I constructed a Daniel Cell A Battery charger as described by "Hard-up". When first assembled the charger gave 8 to 9 volts, but it later dropped to 6, where it has remained ever since.

A.: This is probably nothing to worry about as it may be due to the heavy drain your set is imposing upon it. So long as it keeps your battery charged there is little to worry about.

2. "Hard-up" gives saturated solution of Epsom Salts—your most recent article half saturated.

A.: It was found that the saturated solution of Epsom Salts was little hard on the zincs so the half saturated was recommended.

3. I am using pure copper sulphate which costs 3/- a lb. Would commercial copper sulphate do the job?

A.: It is most unnecessary to use pure copper sulphate. Ordinary bluestone, which sells at about 6d per lb. is perfectly satisfactory.

4. The glass jars are very small and only about 1-8 of an inch away from the porous pots. Is this a possible cause of the voltage drop?

A.: In that you have not a great amount of copper sulphate solution outside the porous pot it is a possible explanation of the voltage drop. Why not use larger jars?

DANIELL (Nelson).—I built the Daniel cell charger described by "Hard-up" and it is working well but lumps of copper formed on the porous pot and in time they grew into it and broke it. Why does this happen?

A.: Are you using pure rain water for it seems that there is chemical action other than that which should take place, operating. Try lessening the amount of blue stone in each pot and watch your porous pots and scrape off the bluestone immediately it is noted. Your copper sulphate solution is probably over-saturated—hence the formation of deposit.

A GRADUAL weakening of reception is often due to a loose or dirty contact in the aerial or earth lead, to the "B" battery running down, or to the phones or speaker becoming demagnetised.

ORDINARY coil plugs and sockets make quite good loudspeaker extension connections, the sockets being mounted upon the skirting-board and the plug attached to the lead of the loudspeaker.

LISTENERS 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

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

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

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

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Power valves (medium).....15/-

Other valves on request.

MULLARD. Prices same as Philips.

RADIOTRON. Strongly recommended for Loftin-White. 224, 27/-;

245, 17/6; 280, 16/6.

FARRAND Inductor Dynamic Speaker in cabinet (demonstration model) 25

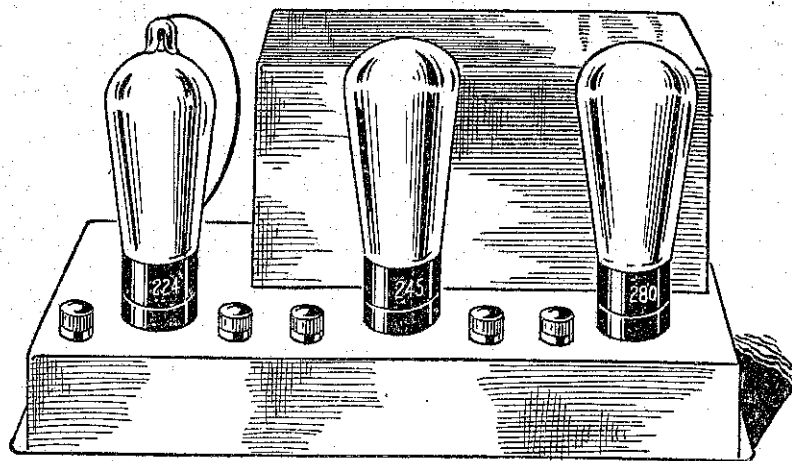
LOFTIN-WHITE Amplifiers, complete with Radiotron Valves£12

If there is anything else you want, write us.

Terms: Cash with order. All accessories guaranteed.

The C.A.S.

29 Ventnor St., Seatoun, Wellington.



12"



THIS week we are intending to combine two weeks' articles and give readers in concise form the details of the adapted Loftin-Three and of the tuner that can be used in conjunction with the existing outfit without any alterations to the latter, except a slight change in the wiring of the input circuit.

We recommend this week's description of the Loftin-Three because the screen and r.f. plate current is drawn from taps in the main resistance chain, thus eliminating the high resistance in the tuner. Furthermore, the altered resistances make for slightly louder signals than those used in previous articles. Another point about this version of the receiver is that the pick-up jack is inserted in the grid return of the detector valve. We have explored both systems and believe that this alteration is not only more simple but it gives better results than when the jack is inserted in the cathode of the detector.

Before proceeding any further, let us make the point clear that apart from the bias and detector plate circuit the resistances of the amplifier are not extremely

critical. Their purpose is closely allied to that of the ordinary voltage divider and need not be correct to a few ohms. As far as possible we have simplified out the resistances and presented them in round figures and a slight deviation from these will not be of any account. When a high potential is delivered from the power pack a greater resistance must be placed in the voltage divider. Probably the most satisfactory arrangement is to have resistances R3 and R4 continuous, say, 2500 or 3000 ohms, and a variable tap leading off to the screen for the voltage on this is more or less critical. So are the bias resistances of the detector R8 and R1. So long as R4 and R5 jointly amount to about 6000 ohms the point where the tap leaves to the r.f. valve is not particularly critical. It can likewise be varied to suit individual purposes.

The values R6 and R7 are not of great importance. Their function is merely to divide the potential between the main source of high voltage current and the current after it has passed through the valve. The values of the resistances must be reasonably high so as to allow a minimum of current to pass. The tap is arranged so

Constructional details of the Loftin - White

that it will lead off 50 volts or so to R9, so that it will cancel out part of the high voltage in that chain to provide a working bias voltage for the 245.

The resistances of the main chain R's. 1-5 must be capable of passing the total current passed by the valve—30 milliamperes. The other resistances have to pass only a m. amp. or so with the exception of R11 and R13, which pass 4 or 5.

There is now little that remains for the constructor to do but make the set. The layout was shown last week and the alteration in the resistances need make but little difference to this. If constructors have difficulty, a further picture diagram will be published, but it is felt that it is unnecessary. Follow the above panel layout published here, and the resistances underneath will fall into place without any trouble.

The coils have already been described. There is no alteration for this version of the set. It should be pointed out that the numbers of turns on the primaries are fairly high to make possible the greatest transfer of energy. But this has certain disadvantages when it comes to considering the question of stability, and if any trouble is experienced in this direction the constructor will know that he must remove some of the wire from the primary.

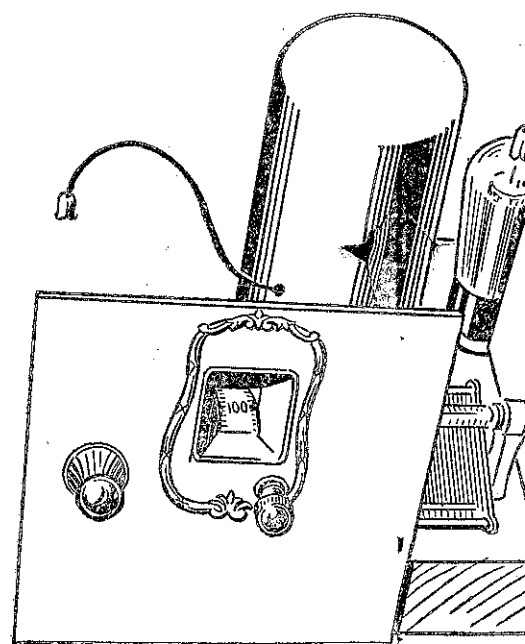
It is probably hardly necessary to remark that the pick-up jack must be such that when the jack is removed the springs will short-circuit and complete the grid circuit of the detector. An alternate arrangement is to connect the pick-up permanently and wire a switch across the jack. When this is closed the receiver is in the position to receive wireless signals, and when it is open the pick-up is in position, thus providing

a grammo-radio switch, which is in accordance with the most modern design.

When the Amplifier is Not to be Rebuilt

THE above description has been slightly modified to allow constructors who already have a Loftin-White amplifier to add a radio stage without rebuilding or going to unnecessary expense in the provision of further resistances. The system needs little explanation for the

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COMPLETE RESISTANCE KIT £2/12/-

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1-inch Former Per Foot 1/9

1 1/2-inch Former Per Foot 3/6

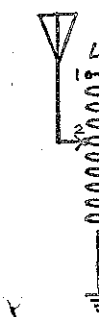
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Radio
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left-hand
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adj.



R1: 600
ohms. R3
.0005. T
mer. C4
C2, C6:

e Three

for the diagrams are self explanatory. Examining the theoretical diagram it can be seen that the circuit is virtually the same as that in the Loftin-Three, the only difference lying in the derivation of "B" or high voltage current. The current is drawn through the tap marked "B" from the high voltage source—that is, the set side of the smoothing choke. The untapped choke is provided then to remove any elements of hum which might affect the quietness of the operation. If such is the case, and an increase in the capacity of the smoothing

system will not materially reduce the ripple it will be necessary to incorporate a further smoothing choke. It is unlikely, however, that this will be necessary. The properly designed tapped choke is, of course, the proper expedient in a circuit of this nature.

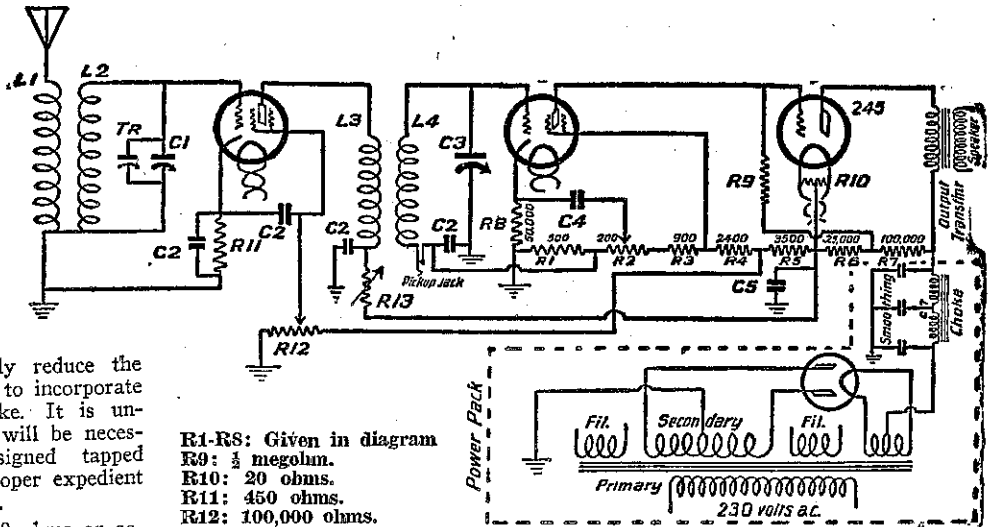
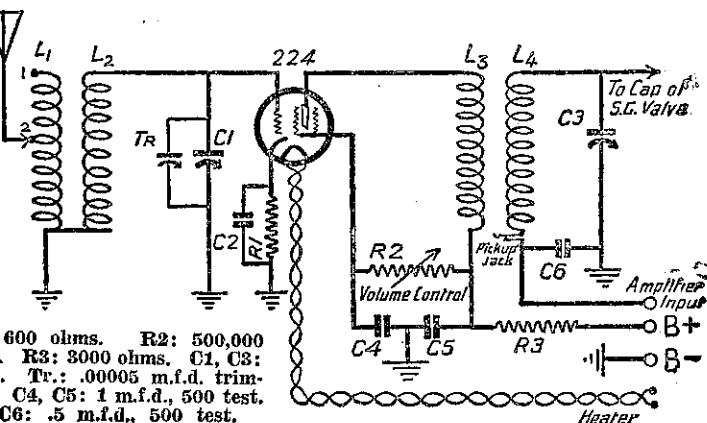
The value of R3 is 3000 ohms or so, and it must pass at least four milliamps. If the current is drawn from the centre tap of the last stage valve this resistance can be omitted, its value being of little importance so long as it is about 3000. If a fixed resistance is to be used with current drawn directly from the power pack its resistance should be 100,000 ohms.

R2, which controls the screen voltage of the r.f. valve, is placed on the panel and acts as an excellent volume control. The valve must be fairly high because the current flow through it will be very small indeed, and it will be found that 500,000 ohms. is sufficient. The biasing resistance must pass the four or five m. amps. taken by the valve and raise the potential cathode some 3 volts above the grid which is at absolute negative potential. For this a fixed resistance of 600 ohms. should suffice. The coils and the condensers are the same as for the complete Loftin-Three, and were given in last week's issue. The fixed condensers C2 and C6 are .5 mfd. condensers, while C4 and C5 are 1 mfd. They should have a working voltage of 180 volts.

The Layout Diagram

SO much for the theoretical considerations. Let us look for a moment at the layout diagram and the sketch of the completed set. There is an aluminium sub-panel 7in. x 8½in. and this is turned down 2in. The size of the sub-panel must, however, somewhat accord with that of the amplifier, especially as regards the turned down portion and the depth. The shield cans are the size adopted as standard for the Loftin-Three.

etch Plan of the separate stages to follow the amplifier pictured in the top hand corner. This amplifier must be reversed when adjoining the tuner.



R1-R8: Given in diagram

R9: ½ megohm.

R10: 20 ohms.

R11: 450 ohms.

R12: 100,000 ohms.

R13: 2000 ohms.

C1, C3: .0005 m.f.d. variable condensers.

Tr.: Trimmer, 00005 plates.

C2: .5 m.f.d. 500 test condensers.

C4: 1 m.f.d., 180 working test.

C5: 1 m.f.d., 500 working test.

Coils as last week.

The two condensers are ganged as shown in the sketch diagram, and between them is a shield, but this is not necessary under ordinary circumstances, and should be

used only if the system is unstable. The diagrams have not been drawn to scale, but the components are well separated in order to show all the connections as clearly as possible. All but the r.f. grid wires are under the shield along with the condensers and the two fixed resistances. The dotted wiring is shown thus only to simplify matters, and does not indicate any special feature of the plan. The arrangement of the circuit is in-

(Concluded on page 29.)

that's an idea!
YES



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WHITE

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For the electric recording of records with any gramophone, any electric pickup and any loudspeaker.

Will provide local broadcast reception equal in tone to that of any radio, regardless of its cost or workmanship.

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Power Packs and Separate Parts for amateur builders quoted and supplied on request.

As we are manufacturers we will supply the Licensed Radio Dealer in N.Z. at trade prices.

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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

Auckland Topics

FROM the Church of the Epiphany the Auckland City Mission service will be relayed. The evening programme will be supplied by the Studio Trio, with vocal solos and duets by Madame Cora Melvin and Mr. Norman Day.

From 2YA

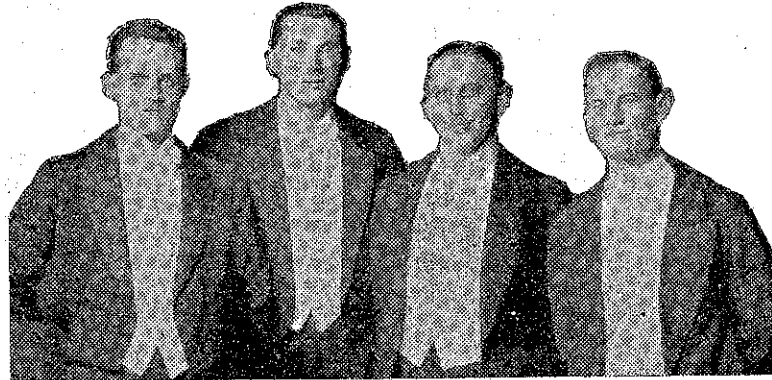
THE evening service from St. Gerard's Redemptorist Church will be relayed. The studio concert which will follow will be given by the Wellington Municipal Tramways Band, who will be assisted by three of 2YA's artists. The band, which plays under the baton of Mr. E. Franklin, will present an excellent programme, an outstanding feature being the selection "Scheherazade" by Rimsky-Korsakoff. Miss Jessie Smith, who is performing for the last time from the station, prior to her return to Australia, will sing Noel Johnson's "If Thou Wert Blind," Sampson's "Just You," "A Morning Hymn," by Henschel, and "A Hundred Moonlit Miles Away." Mr. H. Mitchell is a new arrival from England and the possessor of a robust baritone voice. His items will be: "Friend o' Mine," "The Lute Player," and "Absent."

3YA Notes

A SALVATION Army meeting conducted by Adjutant and Mrs. Goffin will be broadcast. The relay of the 4YA concert will follow.

Dunedin Features

AT the conclusion of the relay from the First Church, Dunedin, a fur-



THE MELODY FOUR.
One of the best male quartets in New Zealand. They are heard regularly from 2YA, and will be featuring many of their best-liked numbers in a programme on Tuesday evening.

—S. P. Andrew, photo

ther relay will be conducted from the St. Kilda band rotunda, on the occasion of the commencement of the summer concerts. This will be relayed to 3YA, Christchurch.

MONDAY

1YA on the Air

AT 11.45 1YA will be on the air to broadcast results from the Takapuna Jockey Club's summer meeting.

2YA Programme

AS St. Andrew's Day this year falls on a Sunday, the Wellington Caledonian Society is arranging to hold its St. Andrew's Day concert this evening, and the entertainment will be relayed by 2YA.

An excellent programme will be given, the vocal portion to include such well-known and popular songs as "Robin Adair," "Bonnie Dundee," "Turn Ye to Me," "Afton Water," "A Hundred Pipers," and "Mary." A feature of the programme will, of course, be the selections by the Wellington Caledonian Society's Pipe Band. The chieftain of the society, Mr. R. H. Nimmo, will, in addition to giving his formal speech of welcome, relate several pawky Scottish yarns. Mr. J. Lothian, one of Wellington's foremost Scottish reciters, will give several items, and Mr. Robert McKeen, M.P., will give an address appropriate to the occasion. A session of dance music will follow.

At 3YA

MR. L. BRICE will continue his talks on "Treatment and Care of the Hair."

The Municipal Band, under Mr. J. Scott, has an attractive programme ready for this evening. There will be two marches, "Duntroon" and "Jack o' Lantern," a selection, "Squire's Songs," a hymn, a waltz, and the entr'acte "Corinella." A fine supporting programme has also been arranged by the Christchurch Broadcasting Trio.

4YA Topics

A NOVEL programme is to be presented from 4YA this evening. It will depict "A Social Evening in a Country Barn." With only one or two exceptions all the items on this occasion will be those sung in the eighties and nineties.

A particularly fine combination, well known in the city as Dagg's Band, which specialises in the presentation of old-time dance music, has been engaged, while the vocal section of

this most popular programme is to be provided by the ever-popular Harmonists Quartet. The programme is not to take the form of a dance in a country barn altogether, but is a social evening, songs being interspersed with dance items. Naturally, the programme will commence with a square dance, while the quadrilles and several of the old march favourites will be played.

The band will include on the programme such excellent melodies as "A Bicycle Built for Two," "In the Shade of the Old Apple Tree," and "For Old Times' Sake." Waltzes to be presented include "If Those Lips Could Only Speak," "White Wings," "Won't You Buy My Pretty Flowers?" and "After the Ball is Over." The Highland schottische and barn dances present ample scope for "My Grandfather's Clock," "John Peel," "Soldiers of the Queen," and "Hello! Who's Your Lady Friend?"

To add to the instrumental section of the programme Mr. R. Shannon, a member of the band, will present a cornet solo, the ever-popular "Silver Threads Among the Gold," while two excellent gramophone recordings, entitled "Songs of the Past" and "Nursery Rhymes," have been included. With regard to the presentation of square dances for this programme, such as the Quadrilles and the Alberts, a Master of Ceremonies will call out the figures, while the orchestra is providing the music, the same procedure taking place with the Chain Waltz and the Medley at the conclusion of the programme. This should add considerably to the interest of this delightful entertainment.

TUESDAY

Auckland Programme

SOME months ago some very interesting lecturettes on precious stones were given by Mr. Esmond Kohn. These talks were so much appreciated that 1YA has arranged for Mr. Kohn to give two more talks, this time on "Birth Stones," the first taking place this evening.

An exceptionally fine programme has been arranged, featuring Madame Mary Towsey (mezzo-soprano) and Mr. John Bree (baritone), already well known to listeners. The Auckland Comedy Players, under the direction of Mr. J. F. Montague, will present two one-act plays, the first being "Devil's Rock," which was a prize-winner in the play-writing competition held by the 1YA Musical and Dramatic Advisory Committee.

2YA Notes

THE first "popular" programme under the new weekly schedule will be of a very enjoyable nature. The contributing artists will include the Melody Four, whose popularity never wanes, Mrs. R. S. Allwright (soprano), a mandolin duo (Messrs. J. H. Thomas and B. French), and The Sketchers, who will present a series of sketches. The Salon Orchestra will provide an orchestral programme.

From 3YA

A RELAY from Civic Theatre of a description of the Interprovincial Amateur Boxing Tournament between Otago and Canterbury for the Waironga Shield, under the auspices of the Christchurch Sports Club, will be conducted this evening.

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for SERVICE

Items from 4YA

A RELAY of that immortal work, Handel's "Messiah," to be performed in the Dunedin Town Hall by the Dunedin Choral Society, under the conductorship of Dr. V. E. Galway, will be relayed by 4YA.

WEDNESDAY

1YA Features

RECENTLY the Band of the Jubilee Institute for the Blind gave items which were very well received by listeners, and on this evening the whole programme will be provided by the Institute.

The concert will include band items, part-songs by the school choir, elocutionary items, piano duets, soprano solos, and cornet and saxophone solos. Altogether a very interesting programme by a very talented party of performers.

3YA Notes

THE usual operatic programme of a Wednesday night is giving place to a "popular" one, to provide which a wide variety of talent has been engaged. These artists will make only one appearance, during which they will play their part and then retire.

Topics from Dunedin

"VEGETABLE Main Dishes" will be the subject of the afternoon talk to be given by the Home Science Extension Department of Otago University. At 7.40 Mr. L. W. McCaskill will review the November issue of the "Journal of Agriculture." Both talks will be under the auspices of the 4YA Primary Productions Committee.

THE operatic-classical programme opens with two excellent operatic solos by Verdi and Wagner, sung by Mr. James Simpson. The Studio Trio will present trios by Haydn, Hummel, and Mendelssohn. Mr. L. J. Neilson, who is the possessor of one of the finest broadcasting baritone voices heard for a long time, made his debut to radio listeners quite recently and will make his second appearance tonight. Mr. D. E. Dall, who has also not broadcast for some months, will make a welcome reappearance with two excellent items: Lamb's dissertation upon "The Roast Pig," and "Heather Ale," by Robert Louis Stevenson.

THURSDAY

School Lunch

THE home science talk from 1YA, 2YA and 3YA this afternoon will be on "The School Lunch Box." The talk has been prepared by the Home Science Extension Department of Otago University.

Auckland Features

MR. R. S. LANGTON, editor of the "New Zealand Timber Growers' Quarterly Review," and who is on the executive of the Timber Growers' Association, as well as director of Commercial Pine Afforestation Limited, will speak at 7.40 p.m. on "Afforestation in New Zealand." The subject is of the utmost importance to the future of this country.

The new 1YA Orchestral Octet, under the direction of Mr. Harold Baxter, will be making its first appearance this



MR. AND MRS. RAY KEMP.
Two 2YA performers who are heard regularly, and whose bright numbers delight their many listeners. —S. P. Andrew, photo

evening. Orchestral work under Mr. Baxter's direction has already been heard from the station through the Auckland Orphans' Club orchestra and the orchestra of the Leys Institute. The same high standard attained will be evident in this combination. Many interesting items have been selected. Miss Cherry Anderson, a very popular performer, will be heard in piano and vocal novelties. On a recent Saturday evening's programme Mr. M. D. Laursen gave a humorous talk on "Jerome K. Jerome," and he will, on this occasion give a similar dissertation on A. A. Milne, the well-known writer. Mr. Bert. Skeels, previously male-alto with the Westminster Glee Singers, will sing a group of ballads.

Gleanings from 2YA

THE Apollo Singers will give their final concert for the year in the Concert Chamber of the Wellington Town Hall this evening, a relay of which will be carried out. The last concert given by this combination showed that this society, although in its first year, has material for a very fine male voice choir.

Since the last broadcast the singers have appeared at the Masterton Music Week with marked success, and listeners can look forward to this concert in anticipation of an entertaining and interesting programme. The choir performs under the conductorship of Mr. H. Temple White.

3YA Notes

THE farming talk will be a review of the November issue of the "Journal of Agriculture."

A very choice operatic-classical programme has been arranged for the hour and a half's concert which will precede the dance music session. The vocalists will be the Grand Opera Quartet, singing solos, duets and quartets. Flute solos will be played by Mr. A. E. Hutton, an exceedingly skilful exponent of that instrument, and a programme of appropriate music will be provided by the Studio Octet under Mr. Harold Beck, one of the numbers being Mendelssohn's "Song Without Words."

FRIDAY

Selections from 1YA

INCLUDED among the artists on 1YA's miscellaneous programme will be Mrs. D. M. le Pine (soprano), of Whangarei, who comes to Auckland with a very fine reputation as an artist. Among her items will be "The Young Shepherd," and "Better Bide a Wee." Mr. Victor Baxter, the young English bass-baritone, has already made himself very popular with listeners, and he will again be heard in some fine ballads by Keel, German, Sander-son and White. The Harmony Five, a novelty instrumental quintet, will give several numbers including some of the latest hits. The Salon Trio will once again be heard in several numbers, including piano solos, vocal solos with violin obligato, and violin and 'cello solos. These young ladies are very popular with listeners, owing to the very artistic renditions of the items

(Concluded on page 29.)



1YA ORCHESTRA.

This is a combination which has, over the last few months, proved very popular with 1YA listeners. Advice has just been received that a new combination has been formed at that station. —S. P. Andrew, photo

Full Programmes for Next

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

Sunday, November 30

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, NOVEMBER 30.

- 2.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
- 6.0 : Children's song service, conducted by "Uncle Bert."
- 6.55: Relay of Divine Service, Auckland City Mission, from the Church of Epiphany. Preacher, Rev. Jasper Calder; Choirmaster and Organist, Mr. John Tait.
- 8.30 (approx.): National Military Band, "Ben Hur" (Byng).
Baritone—Mr. Norman Day, (a) "Border Ballad" (Cowen), (b) "Old Barty" (Grant).
Instrumental—Studio Trio, "Nocturne, Op. 148" (Schubert).
Vocal duet—Madame Cora Melvin and Mr. Norman Day, "April Moon."
Violin—Mr. J. Whitford Waugh, "Romance" (D'Ambrosio).
Choral—Don Cossacks Choir, "Evening Bells" (arr. Serge Jaroff).
Instrumental—Studio Octet, (a) "Melody Pathétique" (Beethoven), (b) "Scherzo from Trio, Op. 19" (Widor).
Soprano—Madame Cora Melvin, (a) "A Little Coon's Prayer" (Hope), (b) "When the Dream is There" (D'Hardelot).
Studio Trio, "Scherzo, Trio 1, Op. 32" (Arensky).
Vocal duet—Madame Cora Melvin and Mr. Norman Day, "A May Morning" (Denza).
Black Diamond Band, "The Last Good-bye" (Moretti).
God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, NOVEMBER 30.

- 2.0 to 4.30: Afternoon session of Selected Gramophone Records.
- 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Kilbirnie Presbyterian Sunday School Choir.
- 6.55: Relay of Evening Service of St. Gerard's Redemptorist Church.
Organ solo, "Melodie" Stojowski (Schott). Rosary, with Choral Responses. Antiphon, "Alma Redemptoris" Gruber (MS.). Sermon, Rev. Father J. Green, C.S.S.R. Hymn, "Out of the Depths" Goudimel (MS.). Motet, "Panis Angelicus" Casciolini (MS.). Motets, "O Salutaris" Miller (MS.). "Tantum Ergo" Clarke (MS.). "Adoremus" Zimmerman (Cary). Organ solo, "Marche aux Flambeaux" Lefebvre-Wely (Schott). Organist: Mr. Henry Mount.
Choirmaster: Mr. Frank J. Oakes.
- 8.15: (Approx.)—Studio Concert by the Wellington Municipal Tramways Band (Conductor, Mr. B. Franklin), and 2YA Artists.
Overture—Band, "Morning, Noon and Night" (Suppe).
Soprano—Miss Nora Gray, (a) "From the Land of the Sky Blue Water" (Cadman); (b) "The Lover's Flute" (Cadman).
Zonophone Salon Orchestra, (a) "The Call of the Angelus" (Walton); (b) "Fairy Tiptoe" (Walton).
Baritone—Mr. H. Mitchell, "Friend o' Mine" (Sanderson).
Selection—Band, "Scheherazade" Parts 1 and 2 (from "A Thousand and One Nights") (Rimsky-Korsakoff).
Contralto—Miss Jessie Smith, (a) "If Thou Wert Blind" (Johnson); (b) "Just You" (Sampson).
March—The Band, "Twentieth Century" (Ord Hume).
Weather report and station notices.
Organ—Terence Casey, "Devotion" (Ketelbey).
Soprano—Miss Nora Gray, "The Willow" (Goring Thomas).
Cornet duet—Bandsmen W. Stevenson and J. Farrell, "Ida and Dot."
Baritone—Mr. H. Mitchell, (a) "The Lute Player" (Allitsen); (b) "Absent" (Metcalf).
Selection—Band, "Scheherazade" Parts 3 and 4 (from "A Thousand and One Nights") (Rimsky-Korsakoff).
Contralto—Miss Jessie Smith, (a) "A Morning Hymn" (Henschel); (b) "A Hundred Moonlit Miles Away" (Tivy).
Xylophone with band accompaniment—Bandsman J. Michel, "The Islander March" (MSS.).
Choral—Marise Beaujon, M. Bordon and Chorus, "Church Scene" (from "Faust") (Gounod).
Patrol—Band, "Jungle Drums" (Ketelbey).
March—Band, "The Middy" (Alford).
God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, NOVEMBER 30.

- 2.0 : Afternoon session—Gramophone recital.
- 5.30: Children's Song Service, by children of the Salvation Army.
- 6.15: Studio chimes.
- 6.30: Musical recordings from Studio.
- 7.0 : Relay of "Salvation Meeting" from "The Salvation Army Citadel," Victoria Square. Conducted by Adjutant Goffin and Mrs. Adjutant Goffin.

- 8.0 : (Approx.)—Musical recordings from Studio.
- 8.15: (Approx.)—Relay of programme from 4YA, Dunedin.
- 9.30: (Approx.)—God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, NOVEMBER 30.

- 3.0 : Chimes. Selected gramophone items.
- 5.30: Children's Song Service, conducted by Big Brother Bill.
- 6.30: Relay of Evening Church Service from First Church of Otago, Dunedin. Preacher: Rev. Dr. Stevely. Organist: Dr. V. E. Galway.
- 7.45: Selected recordings from the Studio.
National Symphony Orchestra, "Stradella" (Flotow).
Piano—Mark Hambourg, "Hungarian Rhapsody" (Liszt).
Baritone—Peter Dawson, "Nazareth" (Gounod), "Gesù Bambino."
Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna."
- 8.15: Relay from St. Kilda Band Rotunda of Concert by St. Kilda Band, under direction of Mr. Jas. Dixon.
- 9.30: God save the King.

Monday, December 1

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, DECEMBER 1.

- 11.45: Relay—Results of Takapuna Jockey Club's Summer Meeting, interspersed with gramophone items from the studio.
- 5.15: (approx.) God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, DECEMBER 1.

- 3.0 : Chimes. Selected studio items.
- 3.30 and 4.30: Sporting results to hand.
- 5.0 : Children's session, conducted by Uncle Jeff.
- 6.0 : Dinner music session.
Paul Godwin's Orchestra, "Through Weber's Enchanted Woods" (Ernst Urbach); "Mignon," "Entr'acte Gavotte" (Thomas); "Firefly's Idyl" (P. Lincke).
- 6.14: Tacet.
- 6.15: Paul Godwin and His Orchestra, "Third Waltz Medley" (Robrecht). Members of the State Opera Orchestra, Berlin, "Don Pasquale."
- 6.29: Tacet.
- 6.30: Paul Godwin's Orchestra, "Suite Algerienne" (Saint Saens).
Symphony Orchestra, "Homage March" (Grieg).
Vienna Schrammel Quartet, "Firefly's Appointment" (Ludwig Siede).
- 6.44: Tacet.
- 6.45: Polydor Brass Band Orchestra, "Il Trovatore" (Verdi).
Great Symphony Orchestra, "Paying a Visit to Millocker" (Morena).
- 6.58: Tacet.
- 7.0 : News session, market reports and sports results.
- 8.0 : Chimes, followed by a relay from the Caledonian Hall of the Wellington Caledonian Society's St. Andrew's Day Concert. The following songs will be sung by Miss Greta Stark, Mr. and Mrs. Kemp, Messrs. Will Hancock and George Stark: "Robin Adair" (Traditional), "Bonnie Dundee" (Traditional), "Turn Ye to Me" (Traditional), "Afton Water" (Hume), "The Hundred Pipers" (Traditional), "Mary" (Richardson). Selections will be played by the Wellington Caledonian Society's Pipe Band, Scottish Recitations will be given by Mr. Jas. Lothian, and the Chieftain of the Society will relate some "Pawky Scottish Yarns." An address appropriate to the day will be delivered by Mr. Robert McKeen, M.P. Accompanist, Mr. Alex. Stark.
- 10.0 : (approx.) From the studio—Dance programme.
Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "Hangin' on the Garden Gate" (Kane-Florito).
Ben Bernie and His Orchestra, "Have a Little Faith in Me."
Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad).
Waltz—Castlewood Marimba Band, "Springtime, Lovetime, You."
Foxtrots—Colonial Club Orchestra, "I Never Dreamt" (Parsons-Ellis).
Bob Haring and His Orchestra, "I'm in the Market for You."
- 10.18: Vocal trio—Earl Burnett's Biltmore Trio, "If I Can't Have You."
Foxtrots—Tom Clines and His Music, "So Sympathetic" (Kahn-Archer).
Ben Bernie and His Orchestra, "Let Me Sing and I'm Happy."
Tom Clines and His Music, "Alone with My Dreams."
- Waltz—Castlewood Marimba Band, "Melancholy Moon" (Ford-Kendall).
- 10.33: Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Just Another Night With You" (Newman).
Tom Clines and His Music, "The Free and Easy."
Lloyd Huntley and His Isle o' Blues Orchestra, "Take Me."
Vocal trio—Earl Burnett's Biltmore Trio, "Out of the Past."

Week-all Stations-to Dec. 7

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- 10.45: Foxtrots—Colonial Club Orchestra, "I'm on a Diet of Love" (Gilbert-Baer); "Like a Dream" (Rose-Russell-Solomon); "We'll Build a Little World of Our Own" (Brockman).
Bob Haring and His Orchestra, "Just Like in a Story Book."
Waltz—Tom Clines and His Music, "It Must Be You" (Turk-Ahlert).
11.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, DECEMBER 1.

- 3.0: Afternoon session—Gramophone recital.
4.25: Sports results.
7.0: Children's hour, "Cousin Margot and the Mystery Man."
8.0: Dinner session.
Marek Weber and His Orchestra, "Lehariana" (Geiger).
'Cello—Cedric Sharpe, "Air" (Pergolesi).
Band of Coldstream Guards, "Wedding of the Rose" (Jessel).
6.14: Tacet.
6.15: Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna."
New Mayfair Orchestra, "Five O'Clock Girl" (Ruby).
6.27: Tacet.
6.30: New Mayfair Orchestra, "Love Lies" (de Sylva).
'Cello—Cedric Sharpe, "Twilight" (Friml).
Organ—Herbert Dawson, "Evensong" (Easthope Martin).
Band of H.M. Coldstream Guards, "Hobomoko Intermezzo" (Reeves).
6.44: Tacet.
6.45: Trio—de Groot (violin), A Gibilaro (piano), J. Pacey ('cello), "O Sole Mio" (Di Capua).

- Organ—Herbert Dawson, "Idylle" (Edward Elgar).
Berlin State Opera Orchestra, "German Dances" (Mozart).
6.57: Tacet.
7.0: News session.
7.30: Talk—Mr. L. Brice, "Treatment and Care of the Hair."
8.0: Chimes. Band programme by Christchurch Municipal Band (Conductor, Mr. J. Scott), and assisted by 3YA artists.
March—Band, "Duntroon" (Code).
Euphonium—Bandsman J. Magrath, "My Pretty Jane" (Hartmann).
8.14: Mezzo-contralto—Mrs. Nellie Whitworth, (a) "The Enchantress" (Hatton); (b) The Beat of the Passionate Heart" (Mont-Phillips); (c) "Bells of Brittany" (Lyal-Phillips).
8.23: Christchurch Broadcasting Trio, (a) "Melodies Mignon" (Sinding); (b) "Slave Song" (Butler); (c) "Vivace" (Godard).
8.33: Chorus—Light Opera Company, vocal gems from "Maritana."
8.41: Selection—Band, "W. H. Squire's Song" (Ord Hume).
8.51: Sea shanties—John Goss and Cathedral Male Voice Quartet, (a) "Fire Down Below," (b) "Hullabaloo Balay," (c) "Haul Away, Joe," (d) "What Shall We Do with the Drunken Sailor?" (arrgd. Terry).
Banjo—Mario de Pietro, "Frisolous Joe" (de Pietro).
9.0: Weather report and station notices.
9.2: Broadcasting Trio, (a) "The Red Sarafan" (Vernaloff); (b) "Anitra's Dance" (Grieg); (c) "Polonaise in A" (Chopin).
9.12: Bass-baritone—Mr. Donald McCulloch, (a) "Less than the Dust" (Woodforde-Finden); (b) "Gipsy Love Song" (Herbert); (c) "Simon the Cellarer" (Hatton).
9.22: Hymn—Band, (a) "It is Well" (Bliss, Entr'acte); (b) "Corinella."
9.33: Soprano—Mrs. Lucy O'Brien, (a) "Here in the Quiet Hills" (Gerald Carne); (b) "My Hero" (from "The Chocolate Soldier") (Strauss); (c) "Love's Own Kiss" (from "High Jinks") (Friml).
9.43: Organ—Reginald Foort, (a) "Leave Me Alone" (Dvorak); (b) "Songs My Mother Taught Me" (Dvorak); (c) "By the Blue Hawaiian Waters" (Ketelby).
9.51: Waltz—Band, "Ecstasy" (Baynes), March—"Jack o' Lantern."
10.5: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, DECEMBER 1.

- 3.0: Chimes. Selected gramophone items.
4.25: Sporting results.
5.0: Chimes. Children's hour, conducted by Big Brother Bill.
6.0: Dinner music.
7.0: Brunswick Concert Orchestra, "Dance of the Hours" (Ponchielli).
Orchestral—A. and P. Gypsies, "Herbertiana" (Stone).
Violin—Fredric Fradkin, "Le Cygne" (Saint Saens).
Brunswick Concert Orchestra, "Bandinage" (Herbert).
Orchestral—A. and P. Gypsies, "The Far-away Bells" (Furber-Gordon).
6.14: Tacet.
6.15: Brunswick Concert Orchestra, "Wine, Women and Song" (Strauss).
Anglo-Persians, "Cossack Love Song" (Katzman).
Violin—Fredric Fradkin, "Nola" (Arndt).
Ray Miller and His Orchestra, "Iowa Corn Song" (Lockard).
6.28: Tacet.
6.30: Orchestral—A. and P. Gypsies, (a) "White Acacia," (b) "Petite Causerie" (Stone).
Brunswick Concert Orchestra, "Thousand and One Nights" (Strauss).
Orchestral—A. and P. Gypsies, "Simple Confession" (Thome).
Ray Miller and His Orchestra, "Go, You Northwestern" (Van Etten).
6.43: Tacet.
6.45: Brunswick Concert Orchestra, "La Danseuse" (Von Blon); "Hungarian Lustspiel" (Keler).
Violin—Fredric Fradkin, "A Kiss in the Dark" (de Sylva).
Anglo-Persians Orchestra, "Ragamuffin" (Greer).
6.58: Tacet.
7.0: News session. Popular programme.
8.0: Special programme depicting "A Social Evening in a Modern Country Barn."
Quadrilles—Dagg's Band, "Medley Quadrilles" (Dagg).
8.15: Quartettes—The Harmonists, "Macgregor's Gathering" (Lee-Moodie).
"Where My Caravan Has Rested" (Lohr), "Take Care, Take Care" (Bartholomew), "Vespers" (Bonner).
8.27: Chain-waltz—Dagg's Band, "Old-time Melodies."
8.37: Soprano—Miss Mae Matheson, (a) "I Dreamt that I Dwelt in Marble Halls" (Balfé); (b) "Will o' the Wisp" (Spross).
Bass—Mr. S. Falconer, "Give a Man a Horse He Can Ride" (O'Hara).
8.47: Barn Dance, La Rinka and Schottische—Dagg's Band, "Popular and Old-time Song Medley."
9.2: Weather report.
9.4: Concerted—Light Opera Company, "Songs of the Past."
Concerted—Uncle George's Party, "Nursery Rhymes."
9.20: D'Alberts—Dagg's Band, "Medley D'Alberts" (arrgd. Dagg).

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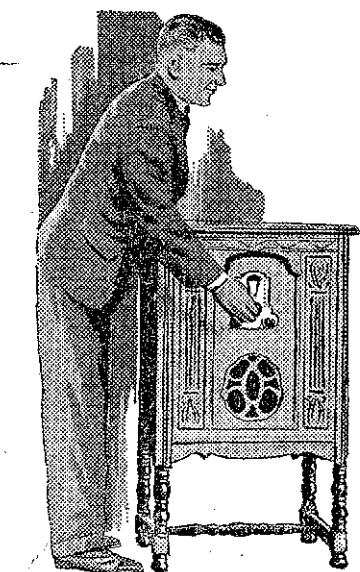
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CHRISTCHURCH

DIVISION

WELLINGTON

- 9.32: Contralto—Miss Margaret Green, "Alas, Those Chimes" (Wallace).
 Tenor—Mr. H. A. Johnston, (a) "The Minstrel Boy" (Moore); (b) "Passing By" (Purcell).
 9.42: Cornet—Mr. R. Shannon, "Silver Threads Among the Gold" (Danks).
 9.47: Dance medley—Dagg's Band, "Maxima, Highland Schottische, Waltz."
 10.0: God save the King.

Tuesday, December 2

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, DECEMBER 2.

- 8.0: Afternoon session—Selected studio items, including Literary Selection by the Announcer.
 8.15: Talk—Mrs. Les Crane, "Health of Mind and Body in relation to diet."
 8.30: Further selected studio items.
 4.30: Close down.
 5.0: Children's session, conducted by Uncle Dave.
 6.0: Dinner 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).
 6.14: Tacet.
 6.15: Edith Lorand's Orchestra, "Tales of Hoffmann" Fantasia (Offenbach).
 Grand Symphony Orchestra, "L'Arlesienne Suite No. 1": (a) "Minuet," (b) "Adagietto" (Bizet).
 6.28: Tacet.
 6.30: Dajos Bela Orchestra, "La Traviata" Fantasia (Verdi).
 Grand Symphony Orchestra, "L'Arlesienne Suite No. 22 (a) "Intermezzo"; (b) "Farandole" (Bizet).
 6.44: Tacet.
 6.45: Edith Lorand's Orchestra, "Cavalleria Rusticana" Fantasia.
 Orchestra of the Opera Comique, Paris, "Carmen" Entr'acte (Bizet).
 Frank Westfield's Orchestra, "Neapolitan Nights."
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. Esmond S. Kohn, "Birth Stones."
 8.0: Chimes.
 Instrumental—The Moore Sisters, Trio: "Minuet From Military Symphony" (Haydn), 'Cello (a) "Harlequinade" (Squire), (b) "Air" (Matheson) Trio: "Open Thy Blue Eyes" (Massenet).
 8.9: Baritone—Mr. John Bree, (a) "O Mistress Mine" (Quilter), (b) "Blow Blow" (Quilter), (c) "So Fair a Flower" (Lohr).
 8.20: One-Act Play—The Auckland Comedy Players, under direction of Mr. J. F. Montague, "Devil's Rock" (Betty Kerr).
 8.40: Instrumental—The Moore Sisters, Trio: "Song Without Words" (Mendelssohn); Violin: "Melodie" (Gluck).
 8.48: Mezzo-soprano—Madame Mary Towsey, (a) "Hindu Children's Rain Song" (Mallinson), (b) "A Memory" (Maude White), (c) "Let Us Forget" (Maude White).
 8.58: Evening weather forecast and announcements.
 9.0: Instrumental Trio—The Moore Sisters, (a) "Hindoo Song" (Bemberg), (b) "Poupee Valsante" (Poldini).
 9.8: One-Act Comedy—The Auckland Comedy Players, "Her Busy Day."
 9.28: Programme of dance music from the studio.
 9.30: Foxtrots—Anglo-Persians, "Dancing Butterfly" (Pascal-Golden).
 Abe Lyman and His California Orchestra, "Worryin' Over You" (Tobias-De Rose).
 Al Goodman and His 'Flying High' Orchestra, "Thank Your Father" (De Sylva).
 Waltz—Regent Club Orchestra, "I Love You So" (Khan-Fiorito).
 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 Daises."
 Lloyd Huntley and His Isle O' Blues Orchestra, "On a Blue and Moonless Night" (O'Flynn, Hoffman, Osborne).
 9.54: Vocal trio—Earl Burtnett'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, Kahal, Norman).
 Tom Clines and His Music, "Any Time's The Time to Fall in Love" (Janis-King).
 10.9: Waltz—Ben Bernie and His Hotel Roosevelt Orchestra, "Coquette."
 Foxtrots—Dan Russo and His Oriole Orchestra, "Sweetheart."
 Roger Wolfe Kahn and His Orchestra, "Exactly Like You."
 Ben Bernie and His Orchestra, "Reminiscing."
 10.21: Vocal—Vaughn De Leath, "Sometimes I'm Happy" (Caesar-Youmans).
 Foxtrots—Abe Lyman and His California Orchestra, "You Will Come Back To Me" (Fields-Rose).
 Ben Bernie and His Orchestra, "Livin' in the Sunlight, Lovin' in the Moonlight" (Sherman-Lewis).
 Colonial Club Orchestra, "Watching My Dreams Go By."
 10.33: Waltz—Regent Club Orchestra, "Lazy Louisiana Moon" (Donaldson).
 Foxtrots—Colonial Club Orchestra, "Wherever You Are" (Kalmat-Ruby); "Sweepin' the Clouds Away" (Coslow).
 10.42: Vocal trio—Earl Burtnett's Biltmore Trio, "A Year From To-day."
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunnyside of the Street" (Fields).
 The Jungle Band, "Sweet Mama" (Ellington-Mills).

- Waltz—Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Love Boat" (Brown-Freed).
 Foxtrots—Anglo-Persians, "The Toy-Town Admiral."
 Colonial Club Orchestra, "All Alone Monday."
 11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, DECEMBER 2.

- 3.0: Chimes. Selected studio items.
 3.80 and 4.30: Sporting results to hand.
 5.0: Children's session conducted by "Uncle Toby" and "Jumbo."
 6.0: Dinner music session:
 Albert W. Ketelbey's Concert Orchestra, "Cockney Suite," Nos. 1 to 4 (Ketelbey): (1) A State Procession (Buckingham Palace), (2) The Cockney Lover (Lambeth Walk), (3) At the Palais de Dance (anywhere), (4) Elegy (Thoughts on passing the Cenotaph).
 6.13: Tacet.
 6.15: Albert W. Ketelbey's Concert Orchestra, "Cockney Suite," No. 5, Bank Holiday ('Appy 'Amstead) (Ketelbey).
 Regimental Band of H.M. Grenadier Guards, "Radio Quick March."
 Jack Payne and the B.B.C. Dance Orchestra, "Say It With Songs" Selection, Parts 1 and 2 (De Sylva).
 6.28: Tacet.
 6.30: Albert W. Ketelbey's Concert Orchestra, "Jungle Drums Patrol."
 Organ—Emil Velazco, "Estrellita."
 Debroy Somers Band, "Hungarian Medley," Parts 1 and 2 (arr. Somers).
 6.43: Tacet.
 6.45: Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawaiian Waters," Parts 1 and 2 (Ketelbey).
 Organ—Emil Velazco, "La Golondrina."
 Band—Regimental Band of H.M. Grenadier Guards, "Fighting Strength" (Jordan).
 6.58: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette, representative of Agricultural Department, "For the Man on the Land."
 8.0: Chimes.
 Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Prince Methusalem" (Strauss).
 Selection—Salon Orchestra, "Vienna Echoes" (arr. Tobani).
 8.16: Tenor—Mr. Sam Duncan, "Charmaine" (Rapee and Pollack).
 Quartet—Melodie Four, (a) "The Two Roses" (Werner); (b) "Blueberry Lane" (Paley).
 Bass—Mr. W. W. Marshall, "Drinking" (Lennox).
 8.30: Mandolin duo—Messrs. J. H. Thomas and B. French, (a) "Hine a Hine" (Princess te Rangl Pai); (b) "Drowsy Waltz" (Thomas); (c) "Ratana Healing Song" (Traditional); (d) "Lei No Kaulani" (Edwards); (e) "E Pari Ra" (Traditional).
 8.45: Soprano—Mrs. R. S. Allwright, "Serenade in Summer" (Denza).
 Chorus—Light Opera Company, Vocal Gems from "Lilac Time."
 8.50: Sketches—The Sketchers, (a) "Would You Believe It" (West); (b) "Dippy" (West).
 9.0: Weather report and station notices.
 9.1: Selection—Band of H.M. Grenadier Guards, (a) "A Voyage in a Troopship" (arr. Miller); (b) "Sylvia Ballet" (Delibes).
 9.16: Tenor—Mr. Frank Bryant, "Mary, Sweet and Brown" (Kilner).
 Baritone—Mr. R. S. Allwright, (a) "Fleurette" (McGeogh); (b) "His Lullaby" (Bond).
 Soprano and quartet—Mrs. R. S. Allwright and Melodie Four, "Romany Rose" (Nicholls); Quartet, Melodie Four, "Funiculi Funicula."
 9.33: Selection—Salon Orchestra, (a) "Haydn Wood's Songs" (arr. Higgs); (b) "Pizzicato" (Gillet).
 9.48: The Sketchers, "Housey Housey" (West).
 9.56: Novelty—Salon Orchestra, "The Village Orchestra" (Gaunt); "The Song of the Clock" (Burchall).
 10.6: God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—TUESDAY, DECEMBER 2.

- 8.0: Relay from Civic Theatre of description of the Inter-provincial Amateur Boxing Tournament between Otago and Canterbury for the Waironga Shield, under the auspices of the Christchurch Sports Club.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, DECEMBER 2.

- 3.0: Chimes. Selected gramophone items.
 4.25: Sporting results.
 5.0: Chimes. Children's hour, conducted by Uncle Bert.
 6.0: Dinner session.
 The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
 Heerman Trio, "Pierrette" (Chaminade).
 Brunswick Hour Orchestra, "Only a Rose" (Hooker-Friml).
 6.14: Tacet.
 6.15: Symphony Orchestra, "Eva" Medley (Lehar).
 New Light Symphony Orchestra, "Spanish Dance, No. 1."
 Brunswick Concert Orchestra, "The Perfect Song" (Breil).
 6.29: Tacet.
 6.30: Symphony Orchestra, "Frederick" Medley (Lehar).
 New Light Symphony Orchestra, "Spanish Serenade" (Bizet).
 Brunswick Concert Orchestra, "Sylvia" (Speaks).
 6.44: Tacet.

- 6.45: Heerman Trio, "Dalvisa" (Sandby).
 Paul Godwin's String Orchestra, "Lehariana" (arrgd. Geiger).
 6.57: Tacet.
 7.0: News session.
 8.0: Relay from Town Hall, Dunedin, of presentation of "The Messiah" (Handel) by Dunedin Choral Society, under conductorship of Dr. V. E. Galway. Soloists: Madame Winnie Fraser, soprano; Miss Mary Pratt, contralto; Mr. Alfred Walmsley, Tenor; Mr. Ernest Short, baritone.
 10.0: God save the King.

Wednesday, December 3

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, DECEMBER 3.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
 5.0: Children's session, conducted by "Uncle Tom."
 6.0: Dinner session:
 The London Orchestra, "Valse Memories" (arr. Somers).
 Organ—Jesse Crawford, "La Borrachita" (Fernandez Esperon).
 Chicago Symphony Orchestra, (a) "Serenade" (Volkman), (b) "Flight of the Bumble Bee" (Rimsky-Korsakoff).
 6.14: Tacet.
 6.15: Piccadilly Orchestra, "The Waltz Dream" (Strauss).
 Marimba Band, "Morales Lopez" (Bolanos).
 Royal Opera Orchestra, "Prelude, 'The Huntress'" (from "Sylvia Ballet"—Delibes).
 6.29: Tacet.
 6.30: Band of H.M. Coldstream Guards, "The Geisha" (Jones).
 Marek Weber and His Orchestra, "Menuett No. 1" (Paderewski).
 Organ—Jesse Crawford, "I Loved You Then as I Love You Now."
 Salon Orchestra, "Aloha Sunset Land" (Kawelo).
 6.44: Tacet.
 6.45: Marek Weber's Orchestra, "Cœur Brise" (Gillet).
 Salon Orchestra, "Chanson Boheme" (Baldi).
 Marimba Band, "Aguas Dormidas" (Bolanos).
 Band of H.M. Coldstream Guards, "The Belle of New York" (Kerker).
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. Norman Kerr, "Physical Culture."
 8.0: Chimes. Studio programme by members of the Jubilee Institute for the Blind:
 March—The Band (under direction of Mr. G. Bowes), "Old Comrades." Waltz—Band, "Blue Danube" (Strauss).
 8.11: Elocution—Miss Rena Bedogni, "A China Tragedy."
 8.15: Song in unison—School Choir, "Michaelmas Morn" (arr. Sharp).
 8.19: Selection—Classic Symphony Orchestra, "Classical Memories."
 8.27: Foxtrots—Jazz Band, (a) "Somebody Mighty Like You" (Fisher), (b) "The Toymaker's Dream" (Golden).
 8.34: Piano duet—Messrs. Stuart Gordon and Tom Taylor, "Faust."
 8.38: Choral—School Choir, (a) "Winter" (Stults), (b) "Sunshine" (Moore).
 8.42: Selection—Band, (a) "A Forest Wooing" (Ancliffe), (b) "Imitation Bagpipes" (Ancliffe).
 8.51: Soprano—Miss M. Bray, (a) "Still as the Night" (Bohm), (b) "The Wren" (Lehmann).
 8.56: Saxophone solo—Mr. Stuart Gordon, "The Piggly-Wiggle" (Barroll).
 9.2: Evening weather forecast and announcements.
 9.4: New Queen's Hall Light Orchestra, (a) "Demande et Reponse," (b) "La Caprice de Nanette" (Coleridge-Taylor).
 9.12: Choral—School Choir, three folk songs: (a) English, "The Lass of Richmond Hill" (Walford Davies); (b) Irish, "The Meeting of the Waters" (Birch); (c) Scotch, "Hundred Pipers" (Nairne).
 9.18: Piano—Miss L. Martin, "Ballade" (Chopin).
 9.24: International Concert Orchestra, "La Spagnola" (Di Chiara).
 9.28: Foxtrots—Jazz Band, (a) "Punch and Judy Show" (Black), (b) "Where the Daffodils Grow" (Archer).
 9.36: Soprano—Miss M. Bray, "The Fairy Pipers" (Brewer).
 9.40: Cornet—Mr. Tom Taylor, "I'll Sing Thee Songs of Araby" (F. Clay).
 9.45: Chorus—Light Opera Company, "Lilac Domino" (Cavillier).
 9.49: Selection—Band, (a) "The Smithy in the Wood" (Michaels), (b) "The Victor's Return" (Hume).
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, DECEMBER 3.

SILENT DAY.

3YA, CHRISTCHURCH (930 KILOCYCLES)—WEDNESDAY, DECEMBER 3.

- 3.0: Afternoon session—Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, "Uncle John."
 6.0: Dinner session.
 Paul Godwin's Orchestra, "Musical Panorama Medley, Parts 1 and 2" (Lincke); "Birthday Serenade" (Lincke).
 6.13: Tacet.
 6.15: Paul Godwin's Orchestra, "The Spider" Intermezzo (Klose); "Tonerna" (Sjoberg); "Wedding Serenade" (Klose); "Butterfly" Intermezzo. Violin with orchestra—Paul Godwin's Orchestra, "Serenade" (Tosti).

- 6.29: Tacet.
 6.30: Paul Godwin's Orchestra, "Geisha" Medley (Jones).
 Instrumental—Vienna Schrammel Quartet, "Firefly's Appointment."
 6.43: Tacet.
 6.45: Paul Godwin's Orchestra, "Medley Memorial of Strauss' Waltzes." Instrumental—Vienna Schrammel Quartet, "Serenade" (Heykens).
 6.58: Tacet.
 7.0: News session.
 7.30: Addington stock market reports.
 8.0: Chimes. Popular programme.
 Overture—Savoy Orpheans, "Round the World Medley" (arr. Somers).
 8.8: Jazz songs at the piano—The Joyous Pair, (a) "With You" (Berlin); (b) "Cooking Breakfast for the One I Love" (Rose); (c) "You've Made a Difference to Me" (Brody); (d) "Ragamuffin Romeo."
 8.20: Studio Instrumental Octet (Conductor, Harold Beck): (1) Ballet Piquant (Parker); Minuet, Dance Piquant, Fairy Dance; (2) "Ball de Noces" (Burgmein).
 8.33: Baritone—Mr. Leslie Fleming, (a) "Old Farmer John" (K. Russell); (b) "Rolling Down to Rio" (German); (c) "Funiculi Funicula."
 8.45: Organ—Terence Casey, "Keys of Heaven," with novelty variations.
 8.49: Mezzo-contralto—Mrs. N. Bingham Puddey, (a) "Love's Garden of Roses" (Haydn Wood); (b) "Oh, Promise Me" (de Koven); (c) "Sincerity" (Clarke).
 8.59: Weather forecast and station notices.
 9.1: Guitar—Walter Kolomoku's Honoluluans, "Southern Melodies Waltz. Nos. 1 and 2."
 9.9: Popular songs—Mr. Cheslyn O'Connor, (a) "Looking at the World Thru' Rose-Coloured Glasses" (Steiger); (b) "Where'd You Get Those Eyes" (Donaldson); (c) "Just Like in a Story Book."
 9.19: Studio Octet, (a) "Florindo" (Burgmein); (b) "Lucia di Lammermoor."
 9.32: Humour—Mr. Bert Goodland, "Phrenology" (Hickory Wood).
 9.42: Choral—The Sieba Choir, "Tales from the Vienna Woods" (Strauss).
 9.50: Studio Octet, (a) "Hungarian Dance" (Brahms); (b) "Three Dances."
 10.2: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, DECEMBER 3.

- 3.0: Chimes. Selected gramophone items.
 3.15: Talk—Home Science Extension Service, Otago University, under auspices of 4YA Primary Productions Committee. "Vegetable Main Dishes."
 4.25: Sporting results.
 4.30: Close down.
 5.0: Chimes. Children's hour, conducted by Big Brother Bill.
 6.0: Dinner session.
 Milan Symphony Orchestra, "Mignon" Overture, Parts 1 and 2.
 H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).
 Jean Lensen and His Orchestra, "Millions D'Arlequin" (Drigo).
 6.14: Tacet.
 6.15: Symphony Orchestra, "Hungarian March" (Berlioz).
 Violin solo—Toscha Seidel, "Hebrew Melody" (Achorn, arr. Zimbalist).
 Jean Lensen and His Orchestra, "Si Mes Vers Avaient Des Ailes."
 Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."
 6.29: Tacet.
 6.30: 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.
 6.44: Tacet.
 6.45: Zurich Tonhalle Orchestra, "Il Seraglio" Overture, Parts 1 and 2.
 Violin solo—Toscha Seidel, "Ave Maria" (Schubert).
 Symphony Orchestra, "Coppelia Ballet Entr'acte and Valse" (Delibes).
 6.59: Tacet.
 7.0: News session.
 7.15: Talk—Mr. L. W. McCaskill, under auspices of 4YA Primary Productions Committee, "Review of New Zealand Journal of Agriculture for November."
 8.0: Overture—Band of H.M. Coldstream Guards, "Floradora" (Stuart).
 8.9: Tenor—Mr. James Simpson, (a) "Questa o' Quella" (Verdi); (b) "Lohengrin's Farewell" (Wagner).
 8.15: 4YA Trio, "Haydn Trio No. 7" (Haydn).
 8.25: Recital—Mr. D. E. Dall, "Dissertation Upon a Roast Pig" (Lamb).
 8.31: Soprano—Miss F. Sumner, (a) "Hark, Hark the Lark" (Schubert); (b) "Adieu" (Schubert).
 8.37: Cello—Mr. P. J. Palmer, "Pastorale" (Handel).
 8.43: Baritone—Mr. L. J. Neilson, "For the Green" (Lohr).
 8.46: Instrumental—Trio, "Hummel in B Flat" (Hummel).
 9.0: Weather report.
 9.2: Tenor—Mr. James Simpson, "Martha" (Flotow).
 9.5: Cello—Mr. P. J. Palmer, "As Once in Happier Days" (Popper).
 Soprano—Miss F. Sumner, "King of Thule" (Schubert).
 9.13: Recital—Mr. D. E. Dall, "Heather Ale" (Stevenson).
 9.17: Baritone—Mr. L. J. Neilson, (a) "Irish Immigrant" (Barker); (b) "Four by the Clock" (Mallinson).
 9.23: Instrumental—Trio, "Andante in E Flat" (Mendelssohn).
 9.30: Dance session.
 One-step—Jack Hylton and His Orchestra, "Moscow" (Evans).
 Foxtrots—"My Wife is on a Diet" (Tobias-Bennett).
 The High Hatters, "The Web of Love" (Cowan, Tittsworth).
 Charles Dornberger and His Orchestra, "Campus Capers."
 Johnny Hamps Kentucky Serenaders, "Sunny Side Up."

The High Hatters, "I'm in Love with You."

- 9.48: Waltzes—The Troubadours, "Alice Blue Gown" (McCarthy-Tierney).
Nat Shilkret and His Orchestra, "Dream Lover."
10.8 : Foxtrots—Nat Shilkret and His Orchestra, "Broadway Baby Dolls"
(Bryan-Meyer); "You Wouldn't Fool Me, Would You?"
Rudy Vallee and His Connecticut Yankees, "A Little Kiss
Each Morning" (Woods).
Henry Busse and His Orchestra, "After the Clouds Roll By."
10.15: Waltzes—Nat Shilkret and Orchestra, "Until the End."
Jack Hylton and His Orchestra, "Tondeleyo" (Gay).
Foxtrots—Leo Reisman and His Orchestra, "My Sweetest than Sweet."
Nat Shilkret and His Orchestra, "Wish and Waiting for
Love" (Clarke-Akst).
10.30: Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
The High Hatters, "Aren't We All?"
Jack Hylton and His Orchestra, "On Her Doorstep Last
Night" (Hargreaves-Damerall-Tilsley).
The High Hatters, "You've Got Me Picking Petals off of
Daisies" (de Sylva-Brown-Henderson).
10.45: Waltz—The Troubadours, "Beautiful Lady" (McLennan-Caryll).
Foxtrots—The High Hatters, "Nobody's Using It Now."
Johnny Johnson and His Orchestra, "Just You, Just Me."
Waltz—Nat Shilkret and Orchestra, "Love Me" (Lemoir Morse-Aivaz).
Foxtrots—Jack Hylton and His Orchestra, "Yours Sincerely."
The High Hatters, "My Love Parade" (Grey-Schertzing).
Ted Weems and His Orchestra, "Sophomore Prom."
Johnny Johnson and His Statler Pennsylvanians, "You're
Responsible" (Clare-Levant).
Ted Weems and His Orchestra, "I Don't Want Your Kisses"
(If I can't have your love) (Fisher-Brookes).
God save the King.

Thursday, December 4

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, DECEMBER 4.

- 8.0 : Afternoon session—Selected studio items, including literary selection
by the Announcer.
8.15: Lecturette—"The School Lunch Box," arranged by the Home Science
Extension Department, Otago University.
8.30: Further selected studio items.
9.0 : Children's session, conducted by "Peter Pan."
9.0 : Dinner session.
H.M. Grenadier Guards Band, "New Sullivan" Selection.
Waltz—Court Symphony Orchestra, "Destiny Waltz" (Baynes).
6.12: Tacet.
6.15: Columbia Symphony Orchestra, "Idilio" (Lack).
New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Cole-
ridge-Taylor): (1) La Caprice de Nanette, (2) Demande et Re-
sponse.
6.26: Tacet.
6.30: New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Cole-
ridge-Taylor): (1) Un Sonnet d'Amour, (2) La Tarantelle Fre-
tillante.
Wurlitzer organ—Terence Casey, "I'm Lonely" (Coates).
6.42: Tacet.
6.45: Dance suite—H.M. Grenadier Guards Band, "Nell Gwynn Dances"
(German): (1) Country Dance, (2) Pastoral Dance.
Columbia Symphony Orchestra, "Spring Song" (Mendelssohn).
Waltz—Symphony Orchestra, "Morgen Blatter" (Strauss).
6.58: Tacet.
7.0 : News and market reports.
7.0 : Talk—Mr. R. S. Langton, "Afforestation in New Zealand."
8.0 : Chimes. Orchestral Octet, under direction of Mr. Harold Baxter,
March—"Thin Red Line" (Alford); Selection—"Chu Chin Chow."
8.17: Baritone—Mr. Reg. Morgan, (a) "Obstination" (Fontenailles); (b)
"When I'm Looking at You" (Stothart); (c) "Down the Shallow
River" (Beeh); (d) "The Joy Bird" (Barnes).
8.23: Piano and vocal—Miss Cherry Anderson, (a) "Too Good to be True"
(Own Comp.); (b) "Sunny Days" (Own Comp.); (c) "If I Had a
Girl Like You" (McDermott).
8.33: Morceau—Orchestral Octet, "Warum" (Schumann), Mazurka; "La
Tzigane" (Ganne), Orchestral, Two Hindoo Pictures (Hansen):
(a) "The Temple," (b) "Himalayas."
8.56: Chorus—Light Opera Company, vocal gems from "Follow Through."
9.0 : Evening forecast and announcements.
9.2 : Selection—St. Hilda Colliery Prize Band, "Ballet Egyptien" (Luigini).
9.14: Humorous talk—Mr. M. D. Laurenson, "A. A. Milne." Extract from
Author's Work.
9.29: Sea shanties—Raymond Newell and Chorus, (a) "Johnny, Come Down
to Hilo" (arrgd. Terry); (b) "The Hog's-Eye Man" (arrgd. Terry);
(c) "We're All Bound to Go" (arrgd. Terry).
John Goss and Cathedral Male Voice Quartet, (a) "Tom's Gone to
Hilo"; (c) "Blow the Man Down" (Traditional).
9.38: Male alto—Mr. Bert Skeels, (a) "I Love the Moon" (Rubens); (b)
"Look Down, Dear Eyes" (Fisher); (c) "Linden Lee" (Williams);
(d) "Rosebud" (Drummond).
9.49: Tone poem fantasy—Orchestral octet, "In a Kentish Garden."
Fantasy—Octet, "By the Swanee" (Myddleton).
10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, DECEMBER 4.

- 8.0 : Chimes. Selected studio items.
8.15: Lecturette—Miss I. F. Meadows, "The School Lunch-Box," arranged
by the Home Science Extension Department, Otago University.
8.30 and 4.30: Sporting results to hand.
9.0 : Children's session conducted by "Uncle George" and "Big Brother Jack"
6.0 : Dinner music session:
Herman Finck's Orchestra, "Waldteufel Memories" (arr. Finck).
'Cello—W. H. Squire, "Gavotte" (Mehul).
Mandolin Band—Circolo Mandolinistico, "Torna a Surriento."
6.13: Tacet.
6.15: B.B.C. Wireless Military Band, "Dance of the Tumblers" (Korsakov).
Squire's Celeste Octet, "Funeral March of a Marionette" (Gounod).
Saxophone—Chester Hazlett, "Valse Inspiration" (Hazlett).
Plaza Theatre Orchestra, "Pearl o' Mine" (Fletcher).
6.28: Tacet.
6.30: Waltz—New Concert Orchestra, "Nights of Fragrance" (Ziehrer).
Squire's Celeste Octet, "Air on G String" (Bach).
Saxophone—Chester Hazlett, "To a Wild Rose" (MacDowell).
Plaza Theatre Orchestra, "Bal Masque" (Fletcher).
6.43: Tacet.
6.45: Selection—Circolo Mandolinistico, "Stephanie Gavotte" (Czibulka).
B.B.C. Wireless Military Band, "Golliwog's Cake-Walk" (Debussy).
'Cello—J. W. Squire, "Madrigale" (Simonetti-Squire).
Waltz—New Concert Orchestra, "Vienna Maidens" (Ziehrer).
6.58: Tacet.
7.0 : News session, market reports and sports results.
7.40: Lecturette—Mr. William Jackson, "Gardening Hints."
8.0 : Chimes. Relay from the Concert Chamber, Town Hall, of a concert
by the Wellington Apollo Singers under the conductorship of Mr.
H. Temple White. Accompanists: William Billington and Ernest
Jenner, A.R.A.M.
National Anthem.
The Singers—(a) "Hymn to Apollo" (from "Ulysse"—Gounod), (b)
"Queen of Love" (Bantock), (c) "Hungarian March" (De Rille).
Cecilian Quartet—"The Lord is My Shepherd" (Schubert) (Leonie
Whiteford, Olive Long, Margaret Ferens, Edna Tankersley).
'Cello solos by Claude Tanner, (a) "Ave Verum" (Mozart), (b)
"Minuet" (Boccherini).
The Singers—Soloists: H. A. Pargetter (baritone) and E. K. Rishworth
(tenor), (a) "Caleno Cuture Me" (Old English melody, arr.
Harris); (b) "Lend Your Ear, Pretty Maid" (McLellan); (c) "A
Persevering Vocalist" (Matthews), soloist A. H. Outtrim (tenor).
Interval.
The Singers—(a) "Sailors' Chorus" from "The Flying Dutchman"
(Wagner); (b) "Ma Mississippi Home" (Smith), soloist T. Watson
(baritone); (c) "The Hunter in His Career" (Grainger).
Cecilian Quartet—"Follow Me Down to Carlow" (Percy Fletcher).
'Cello solos by Claude Tanner—(a) "Melodie Arabe" (Glazounov); (b)
"Intermezzo" from the opera "Goyescas" (Granados-Cassado).
The Singers—(a) "All Through the Night" (arr. Northcote); (b)
"Dring to Me Only with Thine Eyes" (arr. Button); (c) "Follow
the Gleam" (Aylward).
God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, DECEMBER 4.

- 8.0 : Afternoon session—Gramophone recital.
8.15: Lecturette—"The School Lunch-Box," talk arranged by the Home
Science Extension Service, Otago University.
4.25: Sports results.
9.0 : Children's hour, "Ladybird" and "Uncle Frank."
9.0 : Dinner session:
New Mayfair Orchestra, "Sally" Selection (Kern).
Organ—Sandy Macpherson, "L'Heure Bleu" (Spolianski).
New Mayfair Dance Orchestra, "Hungarian Medley" (arr. Somers).
6.14: Tacet.
6.15: Paul Whiteman and His Concert Orchestra, "Midnight Reflections."
Zonophone Salon Orchestra, "Sweet Adeline" (Armstrong).
'Cello—Beatrice Harrison, "Hassan" Serenade (Deliuss).
Paul Whiteman and His Concert Orchestra, "Soliloquy" (Bloom).
6.29: Tacet.
6.30: 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).
6.44: Tacet.
6.45: Jack Hylton and His Orchestra, "Memories of Paris" (Padilla).
'Cello—Beatrice Harrison, "Melody" (Dawes).
New Mayfair Dance Orchestra, "Waltz Medley."
6.58: Tacet.
7.0 : News session.
7.30: Review of the November issue of the Journal of Agriculture.
8.0 : Chimes. Operatic, Classical, and Dance Programme:
Studio Octet (Conductor, Harold Beck)—Overture, "If I Were King."
8.8 : Soprano and contralto—Grand Opera Duo, "Awake" (Pellissier).
Bass—Mr. James Filer, recitative and aria, "Star of Eve" (from
"Tannhauser"—Wagner).
8.16: Flute—Mr. A. E. Hutton, "Aria" (John Lemmone).
8.21: Soprano—Madame Gower Burns, "Mother, You Know the Story" (from
"Cavalleria Rusticana"—Mascagni).
Grand Opera Quartet—"Fairest Daughter of the Graces" (from "Rigo-
letto"—Verdi).

- 8.29: Studio Octet, "Suite for Strings" (Dolmetsch): (a) "Sicilienne"; (b) "Bouree"; (c) "Minuet"; (d) "Canon."
 8.39: Contralto—Miss Alice Vinsen, "Ave Maria" (Gounod).
 Tenor—Mr. Ernest Rogers, "An Evening Song" (Blumenthal).
 8.47: Selection—Violin quartet, "Anna Bolena Gavotte" (Tolhurst).
 8.51: Contralto and tenor—Grand Opera Duo, "Like a Serpent to the Calling Voice of Flutes" (Lehmann).
 Soprano—Madame Gower Burns, "Cradle Song" (Jarnefeldt).
 Tenor—Mr. Ernest Rogers, "Phyllida" (Ronald Fisher).
 9.0: Weather forecast and station notices.
 9.2: Studio Octet, (a) "Old English Dance Tunes" (Carse), (b) "Agnus Dei" (Bizet), (c) "Caprice" (Moszkowski).
 9.12: Contralto—Miss Alice Vinsen, "The Golden Gift" (Willeby).
 9.15: Flute—Mr. A. B. Hutton, "La Sympathie" (Jose Croner).
 9.19: Grand Opera quartets, (a) "The Lark's Song" (Mendelssohn), (b) "Good-night, Good-night, Beloved" (Pinsuti).
 9.23: Studio Instrumental Octet, "Songs Without Words" (Mendelssohn).
 9.30: Dance music until 11 p.m.:
 Foxtrots—Tom Gerun and His Orchestra, "The New Step."
 Jack Denny and His Mount Royal Hotel Orchestra, "Blondy" (Rubila), "Hang on to Me" (Klages-Greer).
 Vocal—Bob Miller and His Hinky Dinkers, "When I Put on My Long White Robes" (Miller).
 Foxtrots—Slatzrandall and His Orchestra, "I'd Do Anything for You."
 1.45: Lloyd Huntley and His Isle o' Blues Orchestra, "Head Low" (Cabizajo).
 Waltz—Carl Fenton and His Orchestra, "Rock Me to Sleep in Your Arms" (A. P., and C. De Voll).
 Foxtrot—Tom Gerun and His Orchestra, "The Web of Love."
 9.54: Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "Pretty Little You" (Ryan, Violinsky).
 Mill's Hotzy Totsy Gang, "Some Fun" (Von Eps).
 Jack Denny and His Mount Royal Hotel Orchestra, "Why Can't You Love That Way" (Bourne, Val, Creamer).
 Vocal duet—Al and Pete, "At Nesting-Time" (Bontsema).
 Foxtrot—Louis Kaizman and His Brunswick Orchestra, "Once Upon a Time" (Thompson-Stamper).
 10.9: Foxtrots—Jesse Stafford and His Orchestra, "Feelin' the Way I do."
 Lloyd Huntley and His Isle o' Blues Orchestra, "Same Old Moon, Same Old June" (Friend).
 Tom Gerun and His Orchestra, "Sing, You Sinners."
 Waltz—Bob Haring and His Orchestra, "All that I'm Asking is Sympathy" (Davis-Burke).
 Foxtrots—Meyer Davis's Hotel Astor Orchestra, "A Year from To-day."
 Slatzrandall and His Orchestra, "Blame it on the Moon."
 10.24: Foxtrots—Tom Gerun and His Orchestra, "In My Little Hope Chest."
 Meyer Davis's Hotel Astor Orchestra, "He's So Unusual."
 Vocal—Bob Miller and His Hinky Dinkers, "Golden Wings."
 10.33: Foxtrots—Jesse Stafford and His Palace Hotel Orchestra, "I Don't Want Your Kisses" (Fisher-Broones).
 Tom Clines and His Music, "Time Will Tell."
 Meyer Davis's Hotel Astor Orchestra, "Love."
 Tom Clines and His Music, "Perhaps" (Quizas).
 Waltz—Jesse Stafford and His Palace Hotel Orchestra, "Until the End"
 10.51: Foxtrots—Jimmie Joy and His Orchestra, "Harmonica Harry."
 Jesse Stafford and His Orchestra, "Last Night, Honey."
 Jimmie Joy and His Orchestra, "Can't You Understand?"
 11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, DECEMBER 4

SILENT DAY.

Friday, December 5

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, DECEMBER 5.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
 5.0: Children's session, conducted by "Nod" and "Aunt Jean."
 6.0: Dinner session.
 The Classical Symphony Orchestra, "Raymond" Overture (Thomas).
 Band of the Garde Republicaine, "The Two Pigeons" (Messenger): (1) Entrance of Tziganes, (2) Scene and March of the Two Pigeons.
 6.14: Tacet.
 6.15: Herman Finck's Orchestra, "Schubertiana," Parts 1 and 2.
 Piano with orchestra—Gil Dech, "It Happened in Monterey."
 The Rhythmic Troubadours, "Song of the West" Selection.
 6.29: Tacet.
 6.30: London Theatre Orchestra, "Maid of the Mountains" Selection.
 Rhythmic Troubadours, "Puttin' on the Ritz" Selection.
 Rio Novelty Orchestra, "Spaventa-Tango" (Pares-Yan Parys).
 6.44: Tacet.
 6.45: Herman Finck's Orchestra, "Schubertiana," Parts 3 and 4.
 Piano with orchestra—Gil Dech, "Ragamuffin Romeo" (de Costa-Wayne).
 Rio Novelty Orchestra, "Mientras Lloro el Tango."
 6.57: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. F. R. Field, under the auspices of the F. R. Field Scientific Research Society, "The History of the Earth."

- 8.0: Chimes. Novelty instrumental—The Harmony Five, (a) "I'll Always be in Love with You" (Sept); (b) "Hawaiian Hotel" (Nainas).
 8.9: Soprano—Mrs. D. M. le Pine, (a) "The Young Shepherd" (Thomas); (b) "We'd Better Bide a Wee" (Claribel).
 8.15: Vocal and instrumental—Salon Trio, pianoforte solo, "Caprice Viennois" (Kreisler); vocal solo, "The Gipsy and the Bird" (Benedict); violin solo, "Souvenir" (Drda).
 8.27: Baritone—Mr. Victor Baxter, (a) "Cape Horn Gospel" (Keel); (b) "Four Jolly Sailormen" (German).
 8.33: Novelty—The Harmony Five, (a) "Sleepy Valley" (Hanley); (b) "Jazz Medley" (own arrgt.).
 8.40: Soprano—Mrs. D. M. le Pine, (a) "Tears, Idle Tears" (Sullivan); (b) "Meeting of the Waters" (Traditional).
 8.46: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."
 9.1: Evening weather forecast and announcements.
 9.3: Vocal and instrumental—Cello solo, "Valse Triste" (Silbelius); vocal solos, (a) "Deep in My Heart, Dear" (from "The Student Prince") (Romberg), (b) "E Mae Te Ra" (Kaihan); violin solo, "Poupee Valsante" (Kreisler).
 9.15: Baritone—Mr. Victor Baxter, (a) "The Last Call" (Sanderson); (b) "King Charles" (White).
 9.21: Novelty—The Harmony Five, (a) "Happy Days" (Ager); (b) "Maori Waltz Medley" (own arrgt.).
 9.31: Lecture-recital—Mr. Karl Atkinson, Gramophone Lecture-Recital, "Man's Musical Pilgrimage."
 10.1: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, DECEMBER 5.

- 3.0: Chimes—Selected studio items.
 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.
 Reginald King and His Orchestra, "Song o' My Heart" Selection.
 Organ—Edward O'Henry, "Dream Lover" (Schertzinger).
 Marek Weber and His Orchestra, "Rustle of Spring" (Sinding).
 6.14: Tacet.
 6.15: Band of H.M. Coldstream Guards, "Faust" Selection (Gounod).
 Marek Weber and His Orchestra, "Die Fledermaus" Selection.
 6.29: Tacet.
 6.30: Marek Weber and His Orchestra, "The Beggar Student" (Millocker).
 Organ—Edward O'Henry, "Just as We Used To Do" (Rulli).
 International Novelty Quartet, "Merry Widow Waltz" (Lehar).
 6.44: Tacet.
 6.45: Marek Weber and His Orchestra, "My Darling Waltz" (Waldteufel).
 National Symphony Orchestra, "The Barber of Seville" (Rossini).
 International Novelty Quartet, "The Veleta" (Morris).
 6.57: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. Colin Smith, "The Sixth of a Series of Radio Talks—Trouble Tracking."
 8.0: Chimes. A Variety and Dance Programme. Note: This programme is subject to interruption to permit of a relay of a Sound Film Feature from the Majestic Theatre.
 Overture—Orchestra (Conductor Signor A. P. Truda) "Medley Overture" (arr. Baynes).
 Mezzo-contralto—Miss Katherine Baskette, (a) "The Little Damsel" (Novello), (b) "Nectarine" (Squire).
 Banjo—Mrs. H. G. Reeves, "Scotch Medley" (arr. Bloy).
 Songs at the piano—Mr. Billy Hart, (a) "Into My Heart" (Stothart), (b) "Lily of Laguna" (Stuart), (c) "The Latest Popular Hit."
 Selection—Orchestra, "A Musical Switch" (Alford).
 Humour—Mr. and Mrs. E. Ransom Myers, "Very Suspicious" (Clifton).
 Baritone—Mr. Ken Rigby, (a) "A Paradise For Two"; (b) "A Bachelor Gay" (from "Maid of the Mountains" (Fraser-Simson).
 Fantasia—Orchestra, "In Coon Land" (Bidgood).
 Weather report and station notices.
 Mezzo-contralto—Miss Katherine Baskette, "The Fairy Pipers."
 Banjo—Mrs. H. G. Reeves, (a) "Speedwell" (Grimshaw), (b) "Tune Tonic" (Grimshaw).
 Selection—Orchestra, "Medley of French Songs" (Recker), foxtrot, "Goblin Blues" (Monte Carlo).
 Humour—Mr. and Mrs. E. Ransom Myers, "Our Holiday" (Bowen).
 Baritone—Mr. Ken Rigby, "If I Had a Talking Picture of You" (from "Sunnyside Up") (Henderson).
 Waltz—Orchestra, "Jolly Fellows" (Voldstedt).
 9.30: Dance programme.
 Foxtrots—Broadway Nitelites, "You're The Cream in My Coffee."
 Denza Dance Band, "A Lane in Spain" (Lewis-Lombardo).
 Benson All-Star Orchestra, "To Know You Is To Love You."
 The Piccadilly Players, "The Five O'Clock Girl" (Happy Go Lucky Bird) (Kalmar and Ruby).
 Vocal—Will Fyffe, "She Was The Belle of The Ball" (Will Fyffe).
 9.45: Foxtrots—The Piccadilly Players, "The Five O'Clock Girl" (Who did? You Did) (Kalmar and Ruby).
 Rhythmic Troubadours Vocal Refrain, "Revolutionary Rhythm" (Davis, Coots, Spier).
 Ipana Troubadours, "'S Wonderful" (Gershwin); "I'll Get By" ("As Long as I Have You") (Turk-Ahlert).
 Debroy Somers Band, "Without You, Sweetheart."
 Paul Specht and Orchestra, vocal trio, "Hittin' the Ceiling."

- 10.3 : Vocal—Charles Lawman and Novelty Accompaniment, "Oh! Sweet-Heart Where Are You To-night?" (Davis and Coats).
 Foxtrots—Rudy Vallee, "Outside" (Flynn).
 Denza Dance Band, "One Summer Night" (Coslow-Spier).
 Swain's Cafe Royal Band, "If Goes Like This, That Funny Melody" (Caesar-Friend).
 10.15: Waltz—Selvin's Orchestra, "Ramona" (Wayne-Gilbert).
 Foxtrots—Bernie's Orchestra, "I Want to Meander in the Meadow"
 Midnight Revellers, "The Moonlight March."
 Bernie's Orchestra, "Where The Bab-Bab-Babbling Brook."
 Paul Specht and Orchestra, vocal refrain, "Sing a Little Love Song" (Gottler-Mitchell and Conrad).
 10.30: Vocal—Charles Lawman and Novelty Accompaniment, "When We Get Together in the Moonlight" (Rose, Ryan and Violinsky).
 Waltz—The Cavaliers, "Sleepy Valley" (Hanley-Sterling).
 Foxtrots—Lombardo's Royal Canadians, "You Made Me Love You."
 Rhythmic Troubadours and Vocal Refrain, "When the Real Thing Comes Your Way" (Spier and Coslow).
 Lombardo's Royal Canadians, "You Belong to Me, I Belong To You" (Lombardo-Newman).
 Midnight Revellers, "Sweetheart's Holiday."
 10.48: Waltzes—The Cavaliers, "Recollections" (Rapee-Pollack).
 Swain's Band, "Sleep Baby, Sleep" (Tucker-Schuster).
 Foxtrots—Selvin's Orchestra, "In My Bouquet of Memories."
 Waltz—Swain's Band, "Heigh Ho! Everybody Heigh Ho!"
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, DECEMBER 5.

- 3.0 : Afternoon session—Gramophone recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's hour, "Chuckle."
 6.0 : Dinner session.
 Great Symphony Orchestra, "Vienna Operetta Revue" (Robrecht).
 Jacques Jacobs Ensemble, "Wiener Blut" (Strauss).
 6.14: Tacet.
 6.15: Band of H.M. Grenadier Guards, "La Benediction Des Poignards."
 Jacques Jacobs Ensemble, "España Waltz" (Waldteufel).
 Plaza Theatre Orchestra, "My Lady Dainty" (Hesse).
 Jacques Jacobs Ensemble, "Sobre Las Olas" (Rosas).
 6.29: Tacet.
 30: Symphony Orchestra, "Countess Mariza" Medley (Kalman).
 Jacques Jacobs Ensemble, "L'Estudiantina" (Waldteufel).
 4: Tacet.
 5: B.R.C. Wireless Symphony Orchestra, "Il Trovatore" Selection.
 Band of H.M. Grenadier Guards, "Lo! Here the Gentle Lark."
 Plaza Theatre Orchestra, "The Busy Bee" (Bendix).
 9: Tacet.
 1: News session.
 10: Chimes.
 Overture—Herman Finck's Orchestra, "Waldteufel Memories."
 8.8 : Soprano—Miss Lucy Fullwood, "The Valley of Laughter" (Sanderson).
 Bass—Mr. E. J. Johnson, (a) "The Norseman's Song" (Allitsen); (b) "A Sergeant of the Line" (Squire).
 Valencia Quartet, "Rose of My Heart" (Lohr).
 8.21: Cornet—Mr. Fred Fox, (a) "On the Banks of Allan Water" (arr. Hartmann); (b) "Whirlwind Polka" (Levy).
 8.29: Humour—Mr. Jack Darragh, (a) "The Eyeglass Cowboy" (Anon); (b) "The New Recruit" (Anon).
 8.39: Mouth organ—Mr. J. Woodham, "Annie Laurie and Scotch Airs" (MS.); "Marseillaise"; "Killarney and Irish Jig" (arr. Alex. Prince); "Medley" (MS.).
 8.49: Contralto—Miss Jean Johnson, "My Ships" (Barratt).
 Tenor—Mr. T. G. Rogers, "Laurette" (Gayne).
 Valencia Quartet, "Jack Spratt" (Blackburn).
 9.0 : Weather report and station notices.
 9.2 : Selection—London Theatre Orchestra, "A Country Girl" (Monckton).
 Organ—Quentin Maclean, (a) "Little Dolly Daydream" (Stuart); (b) "Lily of Laguna" (Stuart).
 9.16: Soprano—Miss Lucy Fullwood, "Fairy Tales of Ireland" (Coates).
 Bass—Mr. E. J. Johnson, "The Dover Patrol" (Carrington).
 Valencia Quartet, (a) "Mary of Argyle" (Nelson); (b) "Off in the Stilly Night" (Traditional).
 9.29: Clarinet—Mr. M. E. Withers, (a) "Serenade and Ave Maria" (Schubert); (b) "Blue Bells of Scotland" (arr. MacDonald).
 9.39: Contralto—Miss Jean Johnson, (a) "I'll Sing to You" (Thompson); (b) "My Prayer" (Squire).
 Tenor—Mr. T. G. Rogers, (a) "Duna" (McGill); (b) "Silver Moon."
 9.52: Selection—Charles Ancliffe's Orchestra, "Ancliffe Waltzes."
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, DECEMBER 5.

- 0 : Chimes. Selected gramophone items.
 15: Talk—Miss Buccleugh, "Fashions."
 25: Sporting results.
 0 : Chimes. Children's Hour, conducted by Aunt Sheila.
 0 : Dinner session.
 Philadelphia Symphony Orchestra, "Carmen" "Soldiers Changing the Guard" (Bizet).
 Zonophone Salon Orchestra, "Evensong" (Easthope Martin).
 New Symphony Orchestra, "Minuet" (Boccherini).

- Philadelphia Symphony Orchestra, "Carmen"; (March of the Smugglers) (Bizet).
 6.14: Tacet.
 6.15: National Military Band, "The Flying Dutchman Overture" (Wagner).
 De Groot and Piccadilly Orchestra, "Waldteufel Memories."
 6.29: Tacet.
 6.30: Marek Weber's Orchestra, "I Pagliacci" (Leoncavallo).
 Zonophone Salon Orchestra, "Eleanor" (Deppen).
 New Symphony Orchestra, "Nell Gwynn Dance No. 3" (German).
 6.44: Tacet.
 6.45: New Symphony Orchestra, "Le Cid Ballet Music" (Massenet) 1. Castilane, 2. Aubade; 3. Andalouse; 4. Arragonaise. 5. Madrilene; 6. Navarraise.
 7.0 : News session. Variety Programme.
 8.0 : Overture—Ketelbey's Concert Orchestra, "In a Chinese Temple Garden" (Ketelbey).
 8.9 : Soprano—Miss D. M. Sligo, (a) "When All Was Young" (Gounod); (b) "Vilanelle" (Dellacqua).
 8.15: Selections—The Orchestra, (a) "Maine Festival" (Hall); (b) "Barcarolle" (Offenbach); (c) "Spanish Dance" (Moskowski).
 8.26: Recital—Miss Anita Winkel, "Kate in the Telephone Box" (Anon).
 8.32: Bass—Mr. R. B. MacDonald, "Prince Ivan's Song" (Allitsen).
 8.35: Violin—Miss B. Garland, ballet music from "Rosamunde."
 8.39: Popular vocal and guitar—Mr. Norman D. Scurr, "Two Latest Hits."
 8.45: Selection—Orchestra, "Crown of Diamonds" (Auber).
 8.55: Contralto—Miss Mary Somerville, (a) "Early One Morning" (Peel); (b) "Be Kind to Auld Grannie" (Gleadhill).
 9.1 : Weather report.
 9.3 : Selection—Australian Commonwealth Band, "Slidin' Thro' the Rye."
 9.11: Soprano—Miss D. M. Sligo, "The Green Ribbon" (German).
 9.14: Selections—The Orchestra, "Creole Queen" (Hall); "Minuet" (Paderevski); "Cossacks' Revels" (Tschakoff).
 9.24: Recital—Miss Anita Winkel, "Reducing" (Anon).
 9.30: Bass—Mr. R. B. MacDonald, (a) "Long Ago Alcala" (Messenger); (b) "The Song of the Rover" (Georges).
 9.36: Violin—Miss B. Garland, "Scene De Ballet" (Beriot).
 9.42: Popular vocal and guitar—Mr. Norman D. Scurr, "Latest Hit."
 9.46: March—The Orchestra, "Hamiltonian" (Hall).
 9.50: Contralto—Miss Mary Somerville, "Harbour Night Song."
 9.53: Selection—Band of H.M. Grenadier Guards, "Sir Harry Lauder Medley" (Sir Harry Lauder).
 10.1 : God save the King.

Saturday, December 6

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, DECEMBER 6.

- 3.0 : Afternoon session—Selected studio items, including Literary Selection by the Announcer.
 4.30: Close down.
 5.0 : Children's session, conducted by "Cinderella."
 6.0 : Dinner session.
 Waltz—International Concert Orchestra, "Over the Waves" (Rosas).
 Paul Whiteman and His Concert Orchestra, "High Water."
 Hawaiian—Hilo Hawaiian Orchestra, "My Hula Love" (Kealakai).
 Zonophone Salon Orchestra, "Simple Aven" (Thome).
 6.12: Tacet.
 6.15: Paul Whiteman and His Orchestra, "Mississippi Suite" (Grofe).
 Organ—Edward O'Henry, "Chant Sans Paroles" (Tschakowsky).
 Zonophone Salon Orchestra, "Narcissus" (Nevin).
 6.29: Tacet.
 6.30: Waltz—International Concert Orchestra, "Danube Waves" (Ivanovici).
 Hilo Hawaiian Orchestra, "Kawaihau Waltz" (Kealakai).
 Paul Whiteman and His Concert Orchestra, "Caprice Futuristic."
 Organ—Edward O'Henry, "Ca C'est Madrid" (O'Henry).
 6.44: Tacet.
 6.45: Hytton's Orchestra, "Good Old Songs" Selection.
 International Concert Orchestra, "Barcarolle" (from "Tales of Hoffman") (Offenbach).
 New Light Symphony Orchestra, "Cavalleria Rusticana" Intermezzo.
 6.59: Tacet.
 7.0 : News and market reports.
 7.40: Talk—Mr. A. E. McMahon, "Chrysanthemums"
 8.0 : Chimes.
 Overture—Band of H.M. Coldstream Guards, "A Musical Switch."
 Selection—Band of H.M. Coldstream Guards, "H.M.S. Pinafore."
 8.17: Baritone—Mr. Peter Davidson, (a) "Listenin'" (Wood); (b) "Muleteer of Malaga" (Trottere); (c) "Before the Dawn" (Lang); (d) "Salaam" (Lang).
 8.27: March—Orchestral Octet, under direction of Mr. Harold Baxter, "Wellington" (Zehle); orchestral, "Fantastic Gavotte" (Spaight).
 8.37: Soprano—Miss Chrissie Foster, (a) "Peter Pan" (Henderson); (b) "There's a Little Green Cabin" (Forster); (c) "The Little Dutch Tile" (Adams).
 8.47: Selection—Orchestral Octet, "Katinka" (Friml); waltz, "Elfentanz."
 9.1 : Evening weather forecast and announcements.
 9.3 : Novelty—"A Miniature Concert."
 Vocal jazz—The Duncan Sisters, "Hoosier Hop" (Dreyer-MacDonald).
 9.14: Novelty—The Nelafo Duo, (a) "Laughing Eyes" (Davis); (b) "On the Beach at Waikiki" (Kallimai); (c) "Hear the Ukuleles A-Calling You" (Scott); (d) "Wai o Minehaha" (Waialeale).

- 9.27: Orchestral Octet Ballet Suite, (Finck), (a) "Pas de Deux"; (b) "Pas Seul"; (c) "Ensemble Finale."
- 9.39: Contralto—Mrs. B. Jellard, (a) "The Carnival" (Molloy); (b) "Ring Bells, Ring" (Day); (c) "Love and I Went Down the Dale."
- 9.49: Violin—Mr. Harold Baxter, "Romance" (Juon).
Two small pieces—Orchestral Octet, (a) "Melody in F" (Rubenstein); (b) "Moment Musical" (Schubert).
- 9.59: Programme of Dance Music from the Studio.
- 10.0: Foxtrots—Ben Selvin and His Orchestra, "The Rogue Song."
Stellar Dance Band, "Harmony Heaven."
Paul Tremaine and His Orchestra, "There's One More River to Cross."
- Waltz—Guy Lombardo and His Royal Canadians, "Lazy Lou'siana Moon" (Donaldson).
- 10.12: Foxtrots—Rhythmic Troubadours, "Without You, Emaline" (De Rose Tobias); "You're the Sweetest Girl."
Guy Lombardo and His Royal Canadians, "Where the Golden Daffodils Grow" (Archer and Kahn).
- 10.21: Vocal—Art Leonard, "Ten, Twenty, Thirty Years Ago" (O'Hagan).
- 10.24: Foxtrots—Ipana Troubadours, "Blue is the Night" (Fisher).
Rhythmic Troubadours, "I'm in the Market for You."
Ipana Troubadours, "Whip-poor-will" (de Voll).
- 10.33: Waltzes—Stellar Dance Band, "I'll Always Be Dreaming of Mary."
The Columbia Photo Players, "Dream Lover" Waltz.
Foxtrots—Ben Selvin and His Orchestra, "When I'm Looking at You."
Rhythmic Troubadours, "My Future Just Passed."
- 10.45: Vocal—Art Leonard, "Around the Corner" (Kahn and Kassel).
- 10.48: Foxtrots—Paul Tremaine and His Orchestra, "Swing Low Sweet Chariot" (arr. Paul Tremaine).
Fred Rich and His Orchestra, "For You."
The Columbia Photo Players, "My Love Parade."
Fred Rich and His Orchestra, "Dream Avenue."
- 11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, DECEMBER 6.

- 3.0: Chimes. Selected studio items.
- 3.30 and 4.30: Sporting results to hand.
- 5.0: Children's session.
- 6.0: Dinner session.
Grand Symphony Orchestra, "Suite Orientale," (a) "March," (b) "On The Shore of the Ganges" (Francis Popy).
Edith Lorand's Orchestra, "Toreador and Andalous" (Rubinstein).
Drang Symphony Orchestra, "Naila" (Delibes).
- 6.14: Tacet.
- 6.15: Dajos Bela Orchestra, "Woodland Peace" (Favilla).
Berlin State Opera House Orchestra, "The Barber of Seville" Overture.
Edith Lorand's Orchestra, "Minuet" (Boccherini).
- 6.29: Tacet.
- 6.30: Grand Symphony Orchestra, "Suite Orientale," Part 4, "The Patrol" (Francis Popy); "Lustspiel Overture" (Kela Bela).
Dajos Bela Orchestra, "The Court Ball (Josef Lanner).
Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitome).
- 6.44: Tacet.
- 6.45: Grand Symphony Orchestra, "Suite Orientale," Part 3, The Dancers.
Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).
Grand Symphony Orchestra, "Chinese Street Serenade" (Ludwig Liede).
- 6.59: Tacet.
- 7.0: News session, market reports and sports results.
- 8.0: Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon),
Selection of "Guy d'Hardelot's Songs" (arrgd. Higgs).
Selection—Salon Orchestra, "Hyde Park Suite" (Jalowicz).
- 8.16: Quartet—The Lyric, "Honey, I Wants Yer Now" (Coe).
Tenor—Mr. Chas. Williams, "The Gay Highway" (Drummond).
Soprano—Miss Phyllis Leighton, (a) "Here's to Love and Laughter" (Rubens); (b) "Deep Night" (Henderson).
Humour—Mr. Len Ashton, (a) "Nobody" (Anon.); (b) "Tale of a Guinea Pig" (Gideon).
- 8.32: Guitar band—Mrs. Mildred Kenny's Guitar Band, (a) "Around the Corner" (Kassel-Kahn); (b) "Hawaiian Islands Waltz" (Smith-Cuzenza); (c) "Mele Hula" (Clarke); (d) "Beautious Isle."
- 8.44: Quartet—The Lyric, "Mysterious Mose" (Doyle).
Tenor—Mr. Roy Hill, "Joy of Life" (Corbett).
Popular songs—Gibson and Standen, (a) "If I Had a Girl Like You" (McDermott); (b) "Telling it to the Daisies" (Warren).
Negro part song—Lyric Quartet, "Swing Along" (Cook).
- 8.59: Weather report and station notices.
- 9.0: Arthur Pryor's Band, (a) "The Whistler and His Dog" (Pryor); (b) "The Warbler's Serenade" (Perry).
Guitar—Roy Smeck and Art Kahn, "Itchin' Fingers" (Robison).
- 9.12: Baritone—Mr. W. Goudie, "Ne'er do Well" (Tate).
Song and quartet—Mr. W. Binet Brown and Lyric Quartet, "When You Played the Organ" (arrgd. Gatheridge).
Humour—Mr. Len Ashton, (a) "The Pink Plant Pot" (Handley); (b) "Nowt" (Handley).
Selection—Salon Orchestra, "Request Item."
Novelty—Salon Orchestra, (a) "Reconciliation" (Fletcher); (b) "Pirouette" (Finck).
- 9.39: Soprano—Miss Phyllis Leighton, (a) "I Know My Love" (Hughes); (b) "The Oak and the Ash" (Traditional).
Popular songs—Gibson and Standen, (a) "Somebody Mighty Like You" (Ward); (b) "I'm Sailing on a Sunbeam" (Dreyer-Macdonald).

- 9.50: Instrumental—Salon Orchestra, "Dance Novelties."
- 10.0: Dance programme.
Foxtrots—Hal Swain's Cafe Royal Band, "Dance of the Paper Dolls."
Ted Wallace and His Campus Boys, "Jericho" (Meyers).
Hay Swain's Cafe Royal Band, "Petticoat Lane."
Waltz—The Columbians, "Christina" (Gottler-Mitchell-Canrad).
- 10.12: Foxtrots—Will Prior and His Stage Band, "Old-Fashioned Rose."
Stellar Dance Band, "Sweetheart of all My Dreams."
Vocal duet—Ford and Glenn, "Tin Pan Parade" (Gillespie-Whiting).
- 10.21: Foxtrots—Jan Ralfini and His Band, "Deep Night" (Valse-Henderson).
Stellar Dance Band, "Honey" (Simons-Gillespie-Whiting).
Jan Ralfini and His Band, "Fashionette" (Glogau-King).
The Harmonians, "Little Pal" (de Sylva-Brown-Henderson).
- 10.33: Waltzes—Rudy Vallee and His Connecticut Yankees, "Bye and Bye, Sweetheart" (Valentine-Ford-Yellen).
Bar Harbour Society Orchestra, "Celia" (Whiting-Robin).
Foxtrots—Rudy Vallee and His Connecticut Yankees, "Caressing You."
Will Pryor and His Stage Band, "I Faw Down an' Go Boom."
- 10.45: Vocal duet—Billy Jones and Ernest Hare, "Spring is Here."
Foxtrots—Paul Spect and His Orchestra, "The Things that were Made for Love" (Tobias-de Rose).
Tel Wallace and His Campus Boys, "I've Got a Feeling I'm Falling" (Link-Waller-Rose).
Ipana Troubadours, "Old-Fashioned Lady" (Silver-Sherman-Lewis).
Waltz—The Columbians, "Pagan Love Song" (Brown-Freed).
- 11.0: Sporting summary.
- 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, DECEMBER 6.

- 3.0: Afternoon session—Gramophone recital.
- 4.25: Sports results.
- 5.0: Children's hour, "Aunt Pat," "Sunny Jim," and "Jack Frost."
- 6.0: Dinner session:
March—H.M. Grenadier Guards, "Martial Moments" (arr. Winter).
Waltz—Eddie Thomas's Collegians, "Missouri Waltz" (Logan).
- 6.12: Tacet.
- 6.15: Violin and Wurlitzer organ—Marnello, "Evening in the Desert."
Hawaiian—South Sea Islanders, "Dreamy Hilo Bay" (Heagney).
March—Columbia Symphony Orchestra, "March of the Toys" (Herbert).
Piano solo—Percy Grainger, "Molly on the Shore" (Grainger).
- 6.26: Tacet.
- 6.30: Waltzes—Eddie Thomas's Collegians, "Till We Meet Again" (Whiting); "Beautiful Ohio" (Earl).
Piccolo duet—Jean and Pierre Gennin, "Rippling Streams" (Gennin).
- 6.41: Tacet.
- 6.45: Violin and organ—Marnello, "Once" (Saunders).
Xylophone—W. W. Bennett, "Gee Whiz" (Byron).
Hawaiian—South Sea Islanders, "Lei Lani" (Heagney).
Denza Dance Band, "In the Shadows" (Finck).
- 6.58: Tacet.
- 7.0: News session.
- 7.30: Sports results.
- 8.0: Chimes. Vaudeville and Dance Programme:
Overture—Regal Cinema Orchestra, "Show of Shows" Selection.
- 8.8: Baritone—Mr. Clive Hindle, "Spanish Gold" (Howard-Fisher).
- 8.12: Saxophone—Frank Ferrera and John P. Paaluh, "Kilima" (tradit.).
- 8.15: Humour—Mr. J. J. Flewellen, "The Scene-shifter's Lament" (Anon.).
- 8.20: Instrumental—Studio Octet (Conductor, Harold Beck), "Lustspiel Overture" (Kela Bela).
- 8.27: Soprano—Miss Hilda Hutt, (a) "Sleep and the Roses" (Tate), (b) "Stay With Me, Summer" (G. Morris).
- 8.32: Accordion—Mrs. G. Amer, (a) "Peggy O'Neill" (own arrangement), (b) "Mother Machree," (c) "Irish Jig."
- 8.37: Novelty—The Two Gilberts, (a) "Smith's Crisp Crisps" (Weston Lee), (b) "Where the Sweet Forget-me-nots Remember."
- 8.43: Humour in song—Mr. George Titchener, "We're Uncomfortable."
- 8.48: Studio Octet—Musical comedy selection, "Sally" (Kern).
- 8.58: Weather report and station notices.
- 9.0: Novelty—Regal Pantomime and Company, "Dick Whittington."
- 9.12: Baritone—Mr. Clive Hindle, (a) "The Fishermen of England" (M. Phillips), (b) "At Tankerton Inn" (Howard Fisher).
- 9.18: Studio Octet, (a) "Andantino" (Lemare), (b) "Hungarian Dance."
- 9.28: Humour—Mr. J. J. Flewellen, "The Laundry Problem" (Leacock).
- 9.33: Soprano—Miss Hilda Hutt, "Love's a Merchant" (Carew).
- 9.38: Studio Octet, (a) "Magic of Love" (Vanis), (b) "Aubade Printaniere."
- 9.46: Accordion—Mrs. G. Amer, (a) "Blowing Bubbles" (own arrangement), (b) "Three Troubles" (own arrangement).
- 9.51: Coster love and humour in song—Mr. George Titchener, (a) "My Old Dutch" (Chevalier), (b) "Mary Ellen" (Haines).
- 9.57: Jazz waltz—Studio Octet, "All Alone" (Stothart).
- 10.1: Dance music until 11 p.m.:
Foxtrots—Red Nicholls and His Five Pennies, "I May Be Wrong."
Bob Haring and His Orchestra, "How Am I to Know?"
Irving Mills and His Hotsy Totsy Gang, "Can't We Get Together?" (Razaf).
Ben Bernie and His Hotel Roosevelt Orchestra, "Bottoms Up"
- 10.12: Vocal—Chester Gaylord, "Sing a Little Love Song" (Conrad-Gottler).
Foxtrots—Colonial Club Orchestra, "When You're Counting the Stars Alone" (Russell-Rose).
Ray Miller and His Orchestra, "Moonlight and Roses."

- Irving Mills and His Hotsy Totsy Gang, "Sweet Savannah Sue" (Razaf).
 Waltz—Carter's Orchestra, "On Miami Shore" (Le Baron).
 10.27: Male duet—Billy Murray and Walter Scanlan, "The Whoopee Hat Brigade" (Siegel-Jaffe).
 Foxtrots—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "If I Had a Talking Picture of You" (De Sylva); "Doin' the Boom Boom" (Gottler); "Sunnyside Up" (De Sylva).
 Dan Russo and His Oriole Orchestra, "Because You Said 'I Love You'" (Sanders).
 Waltz—Carter's Orchestra, "A Little Love, a Little Kiss" (Ross).
 10.45: Male duet—Billy Murray and Walter Scanlan, "Last Night, Honey." Foxtrots—Red Nicholls and His Five Pennies, "The New Yorkers." Colonial Club Orchestra, "The Boomerang" (Rose).
 Ben Bernie and His Hotel Roosevelt Orchestra, "Bigger and Better Than Ever" (Friend).
 Waltz—Roy Fox and His Montmartre Orchestra, "I've Waited a Lifetime for You" (Goodwin).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, DECEMBER 6.

- 3.0 : Chimes. Selected gramophone items.
 4.25: Sporting results.
 5.0 : Chimes. Children's hour, conducted by "Uncle Sambo."
 6.0 : Dinner music:
 March—American Legion Band, "The Conqueror" (Teike).
 Selection—Savoy Orpheans, "Lido Lady" (Rodgers).
 6.12: Tacet.
 6.15: New Light Symphony Orchestra, "Rustic Wedding Symphony." Victor Olof Sextet, "To a Water Lily" (Macdowell).
 New Light Symphony Orchestra, "Spanish Dance" (Moszkowski).
 Wurlitzer organ—Reginald Foort, "Just Like a Darby and Joan."
 6.28: Tacet.
 6.30: Jack Hylton's Orchestra, "The Selfish Giant" (Coates). Victor Olof Sextet, (a) "To a Wild Rose," (b) "In Autumn." Violin and Wurlitzer organ—De Groot and Terence Casey, "Parted."
 6.44: Tacet.
 6.45: Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli). Wurlitzer organ—Reginald Foort, "Love Lies" (Kellard).
 March—American Legion Band, "Iowa Corn Song" (arr. Beeston).
 6.58: Tacet.
 7.0 : News session.
 8.0 : Chimes. Marches—Black Diamond Band, "Old Comrades" (Teike); "Fatinitza" (Suppe).
 8.7 : Special programme reminiscent of the "Jubilee Singers". Solos, quartets, and chorus as performed by the original Jubilee Singers, being a company of emancipated slaves which toured the world forty years ago, presented by the Choir of St. Stephen's Presbyterian Church, under direction of Mr. B. Rawlinson.
 Chorus—The Choir, (a) "Go Ring Dem Bells" (traditional), (b) "Steal Away" (traditional).
 Quartet—Choir, "Camptown Races" (traditional).
 Tango—Marimba Centro Americana, "Aguas Dormidas" (Bolanos).
 "Morales Lopez" (Bolanos).
 Soprano—"Wasn't That a Wide River?" (traditional).
 Chorus—"Stand the Storm" (traditional).
 Violin—Miss Eva Judd, (a) "First Mazurka" (Hentey), (b) "Songs My Mother Taught Me" (Dvorak-Kreisler).
 Quartet—"Kemo, Kimo" (traditional).
 Banjo—Joe Brannelly, "Eccentric" (Robinson).
 Solo—"Nobody Knows the Trouble" (traditional).
 Chorus—"Ain't Got Weary Yet" (traditional).
 Marimba—Mr. Hugh Dalziel, "Dance of the Raindrops" (Leproly).
 Solo—"Were You There?" (traditional).
 Chorus—"My Good Lord's a Been Here" (traditional).
 9.0 : Weather report and station notices.
 9.2 : Novelty Orchestra, "Danse Bagatelle" (Bourdon); "Ginger Snaps." Quartet—"The Old Cabin Home"; solo, "Go Down, Moses" (tradit.).
 Violin—Miss Eva Judd, "Aus Wien" (Kreisler).
 Chorus—(a) "I'm a-Rolling," (b) "Lord, What a Morning" tradit.).
 Piano—Raia da Costa, "High Society Blues" (Hanley).
 Quartet—"Who's Dat Calling" (traditional).
 Solo—"Carry Me Back to Old Virginny" (traditional).
 Marimbaphone—Mr. Hugh Dalziel, (a) "Waldmere" (Losey), (b) "Sleepy Valley" (Hanley).
 Chorus—"Prepare Me" (traditional).
 Solo—"Swing Low, Sweet Chariot" (traditional).
 New Mayfair Orchestra, "Sir Roger de Coverley" (Daykins).
 10.0 : Dance session:
 Foxtrots—George Posnack and Orchestra, "Punch and Judy." Zenith Knights, "Eyes of Blue" (Albin-Costello-Baskette).
 Carl Fenton and His Orchestra, "What is this Thing Called Love?" (Cole-Porter).
 Waltz—Cova Cavaliers, "Louisiana Moon" (Walter Donaldson).
 10.12: Foxtrots—New Yorkers, "If I Were King" (Robin-Chase-Koslow). Zenith Knights, "Get Yourself a Sweetie." Carl Fenton and His Orchestra, "The Stein Song." Jack Montrose and Orchestra, "Valparaiso."
 10.21: Vocal—Tommy Weir, "That's When I Learned to Love You."
 10.27: Foxtrots—New Yorkers, "Happy Days Are Here Again" (Ager-Yellen);

- "Kicking a Hole in the Sky" (MacDonald-Greer); "Fireworks."
 10.36: Waltz—Cova Cavaliers, "Sweet Kentucky Nights" (Herscher-Allen). Foxtrots—Carl Fenton and His Orchestra, "Won't Oha" (Razaf-Denis); "That's When I Learned to Love You" (Costello-Baskette).
 10.45: Vocal—Tommy Weir, "There's Danger in Your Eyes, Cherie."
 10.48: Foxtrots—New Yorkers, "Let Me Sing and I'm Happy" (Irving Berlin). Carl Fenton and His Orchestra, "Night-time is Love-time." Zenith Knights, "Hanging on a Garden Gate." Carl Fenton and His Orchestra, "If He Cared."
 11.0 : God save the King.

Sunday, December 7

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, DECEMBER 7.

- 3.0 : Afternoon session—Selected studio items, including Literary selection by the Announcer.
 6.0 : Children's Song Service, conducted by Uncle Bert.
 6.55 (approx.): Relay—Divine Service, St. Mary's Cathedral. Preacher: His Grace the Archbishop of New Zealand, Dr. A. W. Averill. Organist and Choirmaster: Mr. Edgar Randall.
 8.30 (approx.): Relay—Municipal Band Concert from Auckland Town Hall, under conductorship of Mr. Hal McLennan.
 9.30 (approx.): God save the King.

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

- 3.0 to 4.30: Afternoon session of selected gramophone records.
 6.0 : Children's song service, conducted by Uncle George, assisted by the Vivian Street Church of Christ Sunday School Choir.
 7.0 : Relay of the Evening Service from the Terrace Congregational Church. Preacher: Rev. H. W. Newell, M.A. Organist and Choirmaster: Mr. H. Brusey.
 8.0 : Relay from the Lower Hutt Methodist Church of Handel's Oratorio "The Messiah," by the Lower Hutt Methodist Church Choir, and assisting artists. The choir will be accompanied on the Grand Organ and by an orchestra of thirty instrumentalists. Soloists: Soprano: Miss Christina Ormiston. Contralto: Mrs. Wilfred Andrews. Tenor: Mr. G. Austin Blackie. Baritone: Mr. R. R. Orr. At the organ: Mr. C. R. Horman. Conductor: Mr. Ernest Dawson.
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, DECEMBER 7.

- 3.0 : Afternoon session gramophone recital.
 5.30: Children's Song Service by children of the Methodist Sunday Schools.
 6.15: Chimes and hymn tunes.
 6.30: Musical recordings from studio.
 7.0 : Relay of evening service from Durham Street Methodist Church. Preacher: Rev. W. T. Blight. Organist and Choirmaster: Mr. Ernest Firth, F.R.C.O.
 8.15 (approx.): Programme from Studio: Selection—Band of H.M. Grenadier Guards, "The Meistersingers" (Wagner).
 8.21: Contralto—Miss Nellie Lowe, "Serenata" (Braga). Tenor—Mr. C. R. Williamson, "Ave Maria" (Kahn). Baritone—Mr. A. G. Thompson, "Son of Mine" (Wallace).
 8.31: Broadcasting Trio, "Allegro" (from "C Major Trio") (Mozart). Cello—Mr. Harold Beck, (a) "Nocturne" (Tschalkowski); (b) "March On" (Benjamin).
 8.45: Soprano—Mrs. W. B. Harris, "Prayer To Our Lady" (Ford). Contralto and baritone—Dulcet Duo, "Glory to Thee, My God." Baritone—Mr. A. G. Thompson, "Wolfram's Romance" (from "Tannhauser").
 8.55: Great Symphony Orchestra, "Paying a Visit to Millocker."
 9.1 : Weather report and station notices.
 9.3 : Selection—Polydor Brass Band, "Il Trovatore Melodies" (Verdi).
 9.11: Contralto—Miss Nellie Lowe, (a) "A Summer Night" (G. Thomas); (b) "Absent" (Metcalf). Tenor—Mr. C. R. Williamson, (a) "The Sweetest Flower That Blows" (Hawley), (b) "Sing Songs of Praise" (Handel).
 9.22: Broadcasting Trio, (a) "Pastel Minuet" (Paradis), (b) "Serenade"; (Arensky); (c) "Scherzo" (Schubert).
 9.32: Soprano—Mrs. W. B. Harris, (a) "Songs My Mother Taught Me" (Dvorak); (b) "Faery Song" (Boughton). Baritone—Mr. A. G. Thompson, "There Is No Death" (O'Hara).
 9.40: Selection—Black Diamond Band, "The Gypsy Dance" (George).
 9.45: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, DECEMBER 7.

- 3.0 : Chimes. Selected gramophone items.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.30: Relay of evening church service from St. John's Anglican Church, Roslyn. Preacher: Ven. Archdeacon Fitchett, M.A.
 7.45: Berlin State Opera Orchestra, "German Dances" (Mozart). Piano—Frederic Lamond, "Tarantelle De Bravura" (Liszt). Choir—St. Margaret's Church, (a) "The Voice That Breathed O Eden" (Gauntlett), (b) "Lead Us Heavenly Father" (Fillitz), (c) "Sevenfold Amen" (Stainer). Instrumental—Hermann Trio, "Arabesque in E Major and G. Major."
 8.15: Relay studio concert from 3YA, Christchurch.
 9.30: God save the King.

Loftin-Three

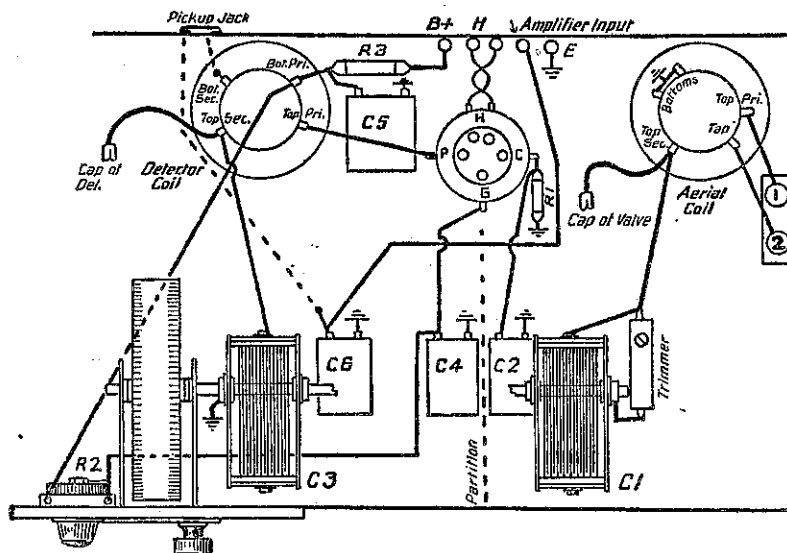
(Continued from page 17.)

tended to allow of the audio amplifier being placed at the left hand side with the tuning dial in the centre. The arrangement is made thus so that the amplifier will have to be turned round with the screen grid valve to the right.

Those who have made up the original

cerning the arrangement of the gramophone radio switch hold for this circuit. The shield must be regarded as the negative, and all connections shown earthed must be made to it. This is then connected with B— of the amplifier.

"Amplifier input" is connected between the 500 ohm. resistance and the 50,000 ohm. biasing resistance at the end of the detector circuit. This is the point between R1 and R2.



amplifier must adjust the wiring of the input as is shown in the diagram in this issue. By making the connections, which by the way, are shown in the diagrams of both the systems, there need be no trouble when changing over from gramophone to radio. The remarks made con-

If there is any difficulty to stabilise the system and efforts directed toward reducing the turns on the primaries are unsuccessful it will be necessary to incorporate an r.f. choke and condenser in the output. The choke is connected in series with one of the leads to the speaker and the .001 mfd. condenser connected between the set side of the choke and the ground. It need not be stressed that this condenser should be able to withstand the voltage coming from the amplifier which is in the order of 500 volts. It should thus have a test of 1000 volts.

We have now fairly fully treated the three valve systems. Next week we shall go a step farther and consider the Loftin-White system applied to a four-valve set, using the 250 type valve and the power pentode. Furthermore, we hope in the near future to publish the constants for the new E406 valve.

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Programme Features

(Continued from page 19.)

by them. The programme will include a lecture-recital to be given by Mr. Karl Atkinson, entitled "Man's Musical Pilgrimage."

Wellington Items

THE final talk of the series which has been broadcast by Mr. Colin Smith, of the "Radio Record," will be given to-night, at 7.40. Mr. Smith's subject is "Trouble Tracking," one which will no doubt be of great interest to most listeners.

The 2YA Orchestra, under Signor A. P. Truda, will play several bright numbers, and the assisting artists are all contributing items which should find favour. Mr. Ken Rigby, a baritone, who is very popular locally, will feature musical comedy numbers, and Miss Katherine Baskette (mezzo-soprano) will sing a group of light ballads. Mr. Billy Hart, the well-known entertainer, will be heard in a group of the latest popular songs, and humorous duets will be sung by Mr. and Mrs. E. Ransom Myers. Mrs. H. G. Reeves, one of Wellington's leading banjo players, and a pupil of Mr. Bloy, of Christchurch, will play several numbers. If circumstances permit, there will be a relay of a sound film feature from the Majestic Theatre. A dance programme will follow.

Notes from 3YA

TO-NIGHT there will be two hours of first-class light entertainment, featuring the Valencia Quartet, assisted by strong supports.

4YA Topics

THE orchestral combination which recently performed and elicited much appreciation from listeners, has been engaged again for this evening. A programme of light music will be presented to mark 4YA's new popular night. All the instrumental selections are bright and contain several marches and popular entr'actes. During the evening Miss A. Winkel, elocutionist, will present two new recitals which have not yet been given in the Dominion: "Kate in the Telephone Box," and "Reducing." Both of these selections contain abundant humour. Miss Anita Winkel has held three championships, won at Wellington, Christchurch and Dunedin.

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Short-wave News

Russian on 43 Metres.

MR. M. McCAUL (Nelson) reports having heard a station on the afternoon of Friday, 7th inst., on about 43 metres. What appeared to be political speeches were being transmitted, each lasting about ten minutes. After each speaker concluded, the audience were heard applauding. Some popular marches were played. Three times Mr. McCaul heard the announcement, "Allo, Allo, here is Moscow." Reception was quite good in Nelson, being R8-9.

Notes From U.S.A.

AN interesting letter has just been received from Mr. Joseph B. Sessions, Connecticut, U.S.A. The following extracts will be of interest to short wave listeners in this country:—

"I received with loud speaker volume, sufficient to be heard in the street, from VK2ME a record programme played in the studio of W2XAF, which is only 75 miles from my home. I really feel the world is quite small, this programme having been sent by Schenectady to Australia and returned to me after travelling approximately 21,000 miles. Only a short time ago I heard the operator's voice in Schenectady after having been relayed clean round the world through the co-operation of Holland, Java, and Sydney, also with loud speaker volume, and with only one eighth of a second time lag."

Commenting on my report of LSH, Buenos Aires, Mr. Sessions writes:—"Regarding the South American station in Buenos Aires, may I correct the call letter to LSS instead of LSH as you have it? For some time I thought it was LSH, but after receiving a printed circular of the station sent me by Senor Cespedes (of NRH, Costa Rica) I find that LSS is the call. Their power is 20 kilowatts."

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.

£22 EAGLE Midget Electric Radio, Five Valves, Triple Screen-Grid, Dynamic. Ask for approval offer. R. H. Co., 553 Colombo St., Christchurch.

MRS. G. C. reduced from 11st. 5lb. to 9st. 13lb., in six weeks with Youth-O-Form. 6/6 posted. A. C. Timms, Chemist, Pahiataua.

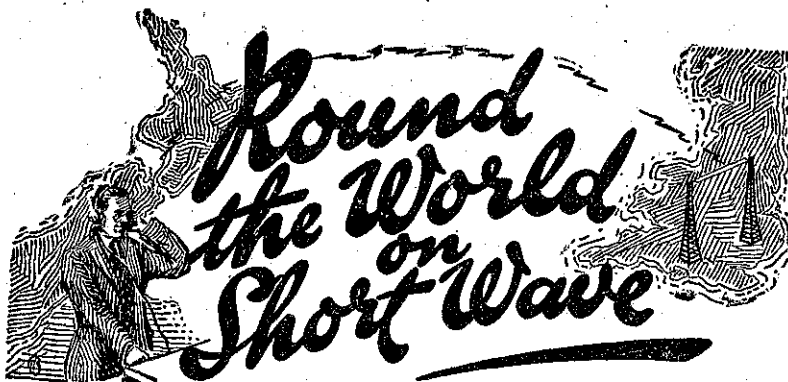
£30 up rich-toned Metrodyne "Sterling" Screen-Grid 8, 10in. Dynamic. Distance and volume second only to "Commander." R. H. Co., Christchurch.

NORMAL weight restored by taking Youth-O-Form Capsules. Absolutely harmless. 6/6 posted. A. C. Timms, Chemist, Pahiataua.

"WESTINGHOUSE" your Battery Radio, eliminate batteries. Results superior to most A.C. Radios. Guaranteed. Write us. Johns, Ltd., Chancery Street, Auckland.

HOW did Marie lose her fat? Took Youth-O-Form Capsules of course! 6/6 posted. A. C. Timms, Chemist, Pahiataua.

64 Stations on Metrodyne Screen-Grid "Commander" — Americans, Japs, China, Hawaii. List available. From £35. R. H. Co., 553 Colombo St., 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.

Regarding G2NM, England, Mr. Sessions says: "I have also recently received acknowledgment from G2NM, which I understand is the only amateur broadcasting station in England. They are on every Sunday afternoon from 12.30 to 2 p.m. Eastern Standard Time. (Monday morning 5 a.m. to 6.30 a.m. N.Z. summer time, on 20.9 metres)."

Log for the Week

MORNING reception continues very poor, but interesting, as a number of new stations have been heard, but not identified. Static has again been bad on the higher waves.

RV15, Siberia, 70 Metres.—Good strength each evening, but static still very bad.

ZL2XX, Wellington, 62.8 Metres.—Testing on Monday and Friday. Good quality and volume.

3ZC, Christchurch, 50 Metres.—Friday evening, R8-9 with severe fading. Static bad.

W9XF, Chicago, 49.83 Metres.—Good volume, but noisy background till 7 o'clock each evening.

W3XAL, New Jersey, 49.18 Metres.—Still excellent at R9 till 6 p.m. each day.

Saigon, Indo-China, 40 Metres.—Midnight, Saturday, R9, with musical programme. Static terrible.

W8XK, Pittsburgh, 48.86 Metres.—Sunday, only R3 at best, about 4 p.m.

KIXR, Manila, 48.86 Metres.—Tuesday, Wednesday, Friday, and Saturday, on this wave-length, strength good, but plenty of static.

HRB, Honduras, 48.5 Metres.—Sunday afternoon, 4.45 p.m., R3, very poorly modulated.

45.4 Metres (About).—Every morning being best about 6 o'clock. Music and talk; not identified yet.

WND, America, 44.4 Metres.—Sunday, 5 p.m., distorted duplex, at R8.

35.5 Metres (About).—Wednesday, Thursday, Friday, and Saturday mornings from about 6 o'clock, R9. All foreign talk, quite a lot of counting and "Allo." On Wednesday he called what sounded like "Allo, Allo. Radio de Lorenzo."

W2XAF, Schenectady, 31.48 Metres.—On Sunday at 8.15 a.m. a football match was being described. Strength was about R4. There were two announcers, one was clearly readable, the other indistinct at times. They were heard again at 4 p.m. at R4. Saturday, R2 at

1.30 p.m., increasing to R8 by 4 p.m., when they signed off.

Zeeseen, Germany, 31.38 Metres.—Reception too weak to bother with these mornings.

WIXAZ, Springfield, Mass., 31.3 metres.—Saturday reached R7-8 by 4.30 p.m., after which volume decreased.

PCJ, Holland, 31.28 metres.—Thursday, Friday and Saturday mornings very poor, being weak and gushy. Saturday afternoon they reached R8-9, but static swamped their music and talk.

NRH, Costa Rica, 30.8 metres.—Sunday just audible 3.30 p.m., increasing to R4 at 3.45 p.m., closing at 4 p.m. Too gurgly to be readable, except to identify.

31.31 metres (about).—Tuesday, 11.20 p.m. R8 music and foreign talk. Static very bad.

30.1 metres (about).—Friday and Saturday mornings at 6.30 a.m., foreign talk—Dutch, I think. Heard calling Bangkok at one time. R9 each morning.

KIXR, Manila, 29.97 metres.—Tuned in at 12 p.m. on Saturday (midnight). Music with "Hullo," and counting. Soon after "Radio Manila" was heard, and their regular programme followed. The early part apparently was a test. Volume at first was R9 with two stages of audio, which increased to the same volume at 12.30 a.m. with only one stage of audio, static decreasing.

29.7 metres (about).—Sunday, 4 p.m., American voice at R5 with word tests.

29.7 metres (about).—Thursday and Friday at 6.30 a.m. R9 each morning, calling places and people in broken English. Sounded like the man at Bangkok.

LS8, Buenos Aires, 29 metres.—Sunday and Saturday, reaching R8-9 by closing time—3 p.m.

28.7 metres (about).—Tuesday, 11.15 p.m., records at R9. A call was heard; sounded like 2ME, only was a little higher than their wavelength.

26.5 metres (about).—Saturday, 11.15 p.m., music and foreign talk at R8-9. Static very bad.

G5SW, Chelmsford, 25.53 metres.—Tried each morning, but too weak and gushy.

W8XK, Pittsburgh, 25.25 metres.—Heard every morning at about R2-3. Does not increase above this, and is readable only at times. Wednesday was an exception, when they were R5 at 7.30 a.m.

GBS, Rugby, 24.6 metres.—Friday, 7.30 a.m. Duplex at R7. Trans-Atlantic telephone service.

FTN, Paris, 24.46 metres.—Nearly every morning at good strength on duplex.

KIXR, Manila, 24.4 metres (about).—Sunday, Wednesday, Thursday and Saturday. Usually better than on 48.8 metres except that FTN often interferes, being almost on top and, if anything, a little stronger in volume.

23.8 metres (about).—Always heard the same time as FTN, weaker as a rule.

20.4 metres (about).—Tuesday, 7.30 a.m., reading or talking in English. R4, but too gushy to be readable except odd words.

Interference Problems

BECAUSE of the interference a broadcast station in the heart of a city occasions to listeners, many of the French stations are being removed into the suburbs. This plan was adopted by English engineers some time back and has proved most successful. It has helped in no small measure to overcome station interference problems.

A CHRISTMAS GIFT

IRRESPECTIVE OF ITS COST,

... has a greater value when, by the pleasure and joy it gives over a long period, it constantly brings to mind the generosity and thoughtfulness of the donor.

MACK'S FAMOUS SHORT-WAVE ADDAPHONE

has these essentials, and, unlike the "here to-day and gone to-morrow" variety of gift, the pleasure of it continues for years.

THESE FAMOUS SETS

are built in New Zealand for New Zealanders and none imported are as good.

Let your gift this year be a

Mack's Addaphone

Which will bring joy and happiness to the family circle, however large.

MACK'S RADIO SERVICE

76-77 Kent Terrace, Wellington.

Phone 23-448.

"THIS 'ere progress," as one of Mr. H. G. Wells's characters so wisely remarks, "it keeps on." It certainly does, especially where electrical power is concerned. In fact, electricity has now invaded the inmost recesses of the home, and it is now possible to warm the bed thoroughly with an electric hot bottle (rather, bag) or an electric blanket. One is thus secure against chills from sleeping in damp sheets, or from leaving a warm fireside to creep reluctantly between ice-cold sheets.

IRON scorch marks on white garments should have a small quantity of peroxide of hydrogen applied immediately to the affected spot, which should then be ironed until quite dry.

THAT the actors in the "Passion Play" at Oberammergau are not blind to the march forward of the civilised world is proved by the following story:—Some visitors who had witnessed the play were greatly impressed by the air of "other-worldliness" of the young man who played the part of St. John. They visited him at his home and found him absorbed in carving figures out of wood. Next morning a racing motor-cycle sped past them out of the town, the rider's long fair hair streaming from beneath a crash-helmet. It was none other than the youthful St. John!

THERE is a story about one of the leading officials in the Kodak concern which can be believed. Mr. East-

"It is easier to write of men than of women. It is the difference between medicine and surgery. You know where you are with the one, but not with the other."—Lady Oxford and Asquith in "Lay Sermons."

man having heard of some special work done by this man when he was managing a photographic manufactory near London, offered him an important post in his great American organisa-



tion. He was unable to accept owing to a contract with his present firm. However, Mr. Eastman was not to be disappointed, so he bought up the British factory in order to secure its

TABLECLOTHS that are stained should be put in the copper when the water is actually boiling. When the cloth is removed the stain will have vanished. Do not put it into the

Thought for the Week

If things you want don't happen in your life,
alter your thoughts and make them happen.—

Lady Neish

in "Nothing Ever Happens."

manager. He then sent him to America, where he more than distinguished himself, and justified Mr. Eastman's faith in him and the drastic method he adopted to secure him.

water and then bring it to the boil, for this will only set the stain more firmly and make it more difficult to remove.

A LEEDS minister has opened a psycho-hygiene clinic in connection with his church, the idea being to help mothers to find a cure for some of the "complexes" which affect their children. Many children suffer from unexplained fears and nervousness. Scolding and reasoning with them have no effect—it is psychological treatment which is needed. For example one child may scream when he or she sees a train, a photographer with his camera, or a watering-cart. Another may be addicted to telling untruths, or even to stealing. Such tendencies can be accounted for, and it is the aim of this clinic to do so, thereby making the children happier and healthier. It will be under the direction of a lady doctor, and is supported by the Leeds Women's Civic Club College.

THE secretary of a scheme for inaugurating a Little Theatre for amateurs in an English seaside town, recently wrote to Mr. George Bernard Shaw for a subscription. G.B.S. is reported to have replied: "I made a vow early in life never to put a farthing into any form of public entertainment, especially theatrical entertainment. Hence my present solvency." He also added that he considered the bijou theatre to be the ruin of the drama, but he looked forward, nevertheless, to being enriched by it.

MISS EDNA FEBER, the popular American author, entered journalism at the age of 17, becoming a reporter on a Wisconsin paper. Later she took up short story writing for magazines, and, in 1911, published her first book, "Dawn O' Hara." Her novel, "Show Boat," came to New Zealand in film form, and already she has sold the film rights of her new novel, "Cimarron," for £25,000. Her novel, "So Big," is large in thought and understanding. It holds one from beginning to end by its greatness.

SIR EDMOND HORNLEY gives us a description of China tea as made in that country. "After dinner we were

Hostess (to Star Wireless Announcer): Everyone here knows your voice so well over the ether. I'm sure they'd just love to hear you speaking in the flesh. Just say something short, such as "Good night everybody, Goo-oo-oo-oo-d night." (From "The Humourist.")

honoured again with tea—that is, with a few leaves at tea served in an eggcup with a little hot water poured over them. It was not an exhilarating beverage, but far better in its simple honesty than champagne. This is the usual way tea is made in China, and a more insipid mixture is not easy to conceive. Indeed, it is a rather remarkable fact that it is very difficult to obtain a good cup of tea in China."

HERR ERICH MARIA REMARQUE, the author of "All Quiet on the Western Front," has now written what is more or less a sequel, which is called "Kamerad."

SNOBBERY is the silliest form of bad manners. "Who does not know the particular type of English woman?" says Mr. Scott. "Often of the highest education and refinement, she seems to revel in displaying, by the icy frigidity

RELIEF=plus maximum food value

From Tropical Paw Paw Fruit

Our chief chemist has recognised fully the medicinal benefits of the Tropical PAW PAW fruit in his PEPTOS formula. The PAW PAW fruit has for centuries been regarded by the natives of Ceylon as a disciple of one of their legendary gods, and many and wonderful are the stories told about this unique tree. Being a true combination of the extract of ripe PAW PAW fruit and other suitable substance PEPTOS comes as a boon to sufferers of stomach disorders. Ten minutes after taking PEPTOS relief is assured those people who have suffered for years. Your chemist sells Peptos.



PAW PAW is a popular domestic tree in Queensland, where all housewives know its digestive powers. Tough raw meat, if wrapped in the leaves of the tree becomes quite tender in a few hours. A piece of PAW PAW fruit if boiled with the toughest piece of meat makes the meat as tender as chicken. PEPTOS, the great PAW PAW remedy, gives immediate relief to sufferers from indigestion, heartburn, acidity, flatulence and other derangements of the stomach. PEPTOS does more than give relief, it removes the cause by digesting the starchy foods and by promoting complete digestion PEPTOS adds greatly to the nutritive value of otherwise harmful food.

Price 1/6 and (two 1/6 and a-half times as much), 3/-

PEPTOS
Speedily Relieves
INDIGESTION

Price 1/6 and (two 1/6 and a-half times as much), 3/-

WE GUARANTEE ITS QUALITY and EFFICIENCY

Sold direct
at £5/5/-
Saving

No retail
profits or
salesmen's
commissions.



£10/10/- Complete
with 7 clip-on parts.
Post Free

Buy this full-sized, efficient, fully-guaranteed Vacuum Cleaner direct from the sole importers. The heart of a cleaner is the motor. The SUNSHINE has the world-famous Westinghouse Motor, and 16 other distinct superiorities. Write for illustrated folder.—Sole N.Z. Distributors:

HAROLD LIGHTBAND, LTD.,
70a Lichfield Street, Christchurch.
Or 386 Queen Street, Auckland.

and supercilious condescension of her bearing, her sense of the immeasurable distance separating her from those beneath her in the social scale."

MR. HUGH WALPOLE says that he noticed in the elevators in America that men kept their hats on their heads although women were there. A few years ago that was not so (and to use his words) "I used to find it a tiresome business taking my hat off my head every time a woman stepped in. I asked why the custom had changed. The answer was that it took too much room in the elevator if men stand with their hats in their hands!"

IT is interesting to note that past pioneers in new fashions received a hostile reception. A Strand haberdasher, John Hetherington by name, who first publicly sported in 1797 a silk "topper," caused such a disturbance that he was charged with inciting a riot, and was bound over for £500 to keep the peace.

TO remove sea-water stains from your shoes, try rubbing them with a solution of very hot milk (about an egg-cupful), in which a small piece of washing soda has been dissolved. After drying, clean the leather with ordinary polish.

—ALISON.

LADIES! MAKE YOUR LIFE WORTH WHILE

You can do it if you give up smoking. Tobacco is sapping your vital forces. Decide now to see us. We can help you. Home Welfare Pty., A.M.P. Bldgs., 36, R. Hunter Street, Wellington.

Prize Poem Competition

THE prize of half a guinea for the current competition is awarded to "J.J." whose poem, "Tired Old Horse," in a simple pathos and comprehending sympathy with those pushed aside in the race, will appeal to those who pity and love the maimed, the halt and the dumb. Also selected for commendation is "J.C.'s" "Nocturne," a lovely laudation of the beauty of the Edinburgh of New Zealand.

"Thur" sends two contributions, of which we prefer the quaintly sweet "Anee," a very human little poem.

"Leave the World a Little Better" voices excellent precept, which, from Longfellow onward, has been insisted upon in the past to the point of weariness.

D.A.S.: Your work has charm and originality, but the last verse slightly disappoints.

"Marion's" sorrowful "Requiem" is couched in too jingling a metre.

"S.E.D.": We find the sentiment laboured, and in any case your contribution exceeds our limit of 25 lines.

"A Summer Matin" is a brief and somewhat vague invocation to the spirit of beauty.

"Annabel Lee" sends a trifle of verse set out in the modern manner.

"Oh Mack" chants sweetly, if without distinction, of love among the ratas, surely a lovely setting for budding or full-grown romance.

"At Waimanku" carols of loveliness of Maoriland in contradistinction to the land of the "bonnie purple heather," this contributor imprisoning in her poem something of the glow and clarity of a midsummer morning.

C.S.: We like the brief verses entitled "Armistice Day," but unfortunately it is too late for publication this year.

J.R., as usual, sends competent and interesting work.

"To My Very First Love" is a wistful sigh and smile for the land of long ago.

"Black Watch": Alas, those spooks don't carry conviction!

"Claribel": An unsuccessful reversion to the Tennysonian manner.

Tired Old Horse

MEANINGLESS now my life, that I must stand
Flank deep in fern and watch the traffic by,
And look as farmers pass, weighed down with land,
The drovers and their flocks; with dreary eye.
I see them all.

And yonder do the tired hills huddle near
To back against their enemy, the storm.
Dumb are they, but do seem to groan in fear
As long wind-fashes whip around their form—
I know them all.

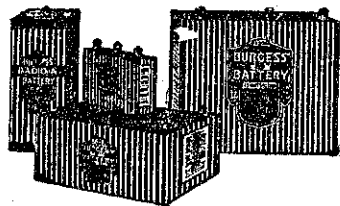
But there are quiet paths, freckled, sun-barred,
Where little winds play hide-and-seek all day,
With peaceful spaces, green and daisy-starred,
Where one old horse would very gladly stray—
I do remember well.

—J.J.

Take Care of Your Watch

OWING to the present-day vogue for sun bathing on the beaches it often happens that people forget to remove their wristlet watches before finally entering the water. Now, bathing is really bad for watches, and it takes an immense amount of time and trouble to

repair a watch that has been damaged in this way. The best thing to do is to flood the whole watch with oil, directly the mistake is noticed, or as soon after as possible. This prevents corrosion until the watch can be sent to the watchmaker. But do not delay in the sending either, or the rust will eat into the finer parts and damage them beyond repair.



**BURGESS
RADIO
BATTERIES**

"Pink May"

A Book of Verses

JUST to hand is "Pink May" by "Bob" Lawlor, an acceptable handful of verses, tuneful and sweet, bound in a neat tinted wrapper, and making a slim and suitable booklet to slip into one's pocket or suitcase for leisurely perusal during long summer days of the Christmas vacation. Dedicated to "Aunt Tiny," well known to countless listeners-in, who have found inspiration in her unflinching cheer, the collection of poems ranges over a fairly wide field; musically-phrased fairy fancies being in juxtaposition with odes to nature's beauty and an occasional admixture of sentiment anent a dream of days long past.

"The Old Windmill" contrasts other times, other manners, with those of to-day; effect being heightened by quaint and clever illustration of demure, wide-hatted, crinolined maiden of yesteryear, greeting chivalrous gallant at romantic rendezvous in the shadow of ancient mill. Then comes gay tribute to "Rambler Roses," the lines tripping along with attractive lilt, the author obviously being attuned to loveliness of colour and atmosphere in each and all of the changing seasons. No deep call is made to human emotion, nor is there to be found any note of pessimistic repining; but rather gentle paeans of thankfulness for the things that are, the everyday beauty and varying moods of nature. "The Little Gray Cat" will strike sympathetic chord in those whose hearts are wrung by mute appeal of derelict dogs and cats; while others will admire vignette of silver-haired card-player, a miniature portrait of patient age, which has acquired wise acquiescence, yet ever hopes the tangle may unravel—

"But now she is smiling, all sadness beguiling,
See, dearie, it always comes right at the last."

Devotees of YA stations will appreciate reappearance of "The Singer to the Listeners-in," and a special word of praise is due to aptness and excellent reproduction of the illustrations included in the volume.

The work of this New Zealand singer, though not calculated to provoke deep reflection, appeals by virtue of simplicity, candour, and a certain ingenuousness. Taken for all in all, it should find many admirers among those who, rejecting all that is "sad and bad and mad" in and out of literature, find pleasure in joyous verses musically expressed, and to such "Pink May" is commendable.—The Minstrel.



A Cooking Hint.

—One that means lighter, fluffier, more delicious scones and cakes—with higher food value and a much longer period of freshness.

Add a few spoonfuls of **ANCHOR SKIM MILK POWDER** to every mixture.

Ask your grocer for "ANCHOR" TODAY.

PRICE 1/2 PER TIN.

Free Recipe Folder—write to "Anchor," Box 844, Auckland.

FOR THROAT AND VOICE

Pulmonas
PASTILLES

ESPECIALLY VALUABLE
1/6 all chemists

Original Recipes

By

Frank Hilton

As broadcast from
2YA, Wellington

Lemon Cheese.

THE recipe is very simple, so also is the method of making.

Ingredients: 12 lemons, 1 pound of butter, 12 eggs, 2lb. sugar, $\frac{1}{2}$ oz. cornflour.

This mixture is rather costly, but it is very good. You can use preserved eggs if you desire. The cheese can be used for any purpose you may wish; the recipe is so balanced that it cooks well in open tarts; it can be used as a filling for sandwiches, can be eaten on bread and butter. In fact, it is a delicious preserve, and I hope you will all make some. It is one of my favourite recipes, because several years ago I won a gold medal with this same recipe at an exhibition for preserves in England.

Method: We require two saucepans, one must fit inside the other. I am not going to ask you to buy any expensive double pans; if you have one so much the better, but you can do quite well the way I tell you: Squeeze the lemons with a lemon-squeezer into the smaller saucepan; put in the eggs slightly beaten, also the butter and sugar and cornflour; then with a fine grater grate in some of the rinds to enhance the flavour. Your mixture is now ready for cooking. Put some water in the larger saucepan and put an old saucer or something in the bottom and then put the smaller saucepan inside the larger one, and you have an ideal double pan. Now put on the fire and cook until it stiffens; on no account must the mixture boil, as away goes the flavour. Keep the water in the larger pan at the same level as the mixture. The water in the larger pan need only boil a few minutes to cook the cheese, so watch it closely, stirring all the time until stiff. Put it into jars while warm and fasten up when cool.

Rock Cakes.

MY next recipe is something good and wholesome for the kiddies, lunches, etc. By rock cakes I mean a rocky kind of a bun baked in small pieces of about 2 ounces each.

Ingredients: 5 ounces butter, 10 ounces sugar, 2 eggs, 1lb. flour, $\frac{1}{2}$ ounce baking powder, 6 ounces sultanas, $\frac{1}{2}$ pint milk.

I have given the quantity of milk here, as the other ingredients cannot affect the quantity.

Method: The method of making is to weigh into mixing-bowl the flour and powder sifted together, then rub in the butter (previously well softened, but not warmed). After this is done make a bay in the centre and put in the sugar and fruit and the eggs well beaten up; then put in the milk, and make the whole into a nice firm dough. Then lay it on a nicely-floured table, and roll it out under the hands like a walking-stick—about as thick—then take a knife and chop off little pieces as large as you desire; then place the pieces on greased tins as upright as possible, not too close together, as they swell and run a little.

Now take a fork and make them as rough and rocky as possible, but keeping them upright and rocky all the time. Now with some beaten egg paint the uneven surface a kind of a dab or splash, care being taken all the time to keep them rough. Then, after they are egged take a handful of sugar and funnel-wise (that is, make a kind of funnel of your hand) drop a slight portion of the sugar grains on the egged surface; this will crisp up in the cooking and increase the rocky nature. Do not spill any of the sugar grains on the tin or the rocks will stick. They require a good hot oven, about 350 degrees Fahrenheit. A little essence of vanilla greatly improves the flavour.

Steak and Kidney Pie.

I WONDER how many readers can make a really nice steak and kidney pie! Well, follow the notes closely and you will be agreeably surprised at results. First of all, although it is called steak and kidney pie, steak—as we understand it—is not used at all. The proper kind of meat to get is neck or shin of beef, neck for preference. The flavour of the finished article is far superior to beef steak, and, the way we are going to cook it we are not concerned about it being tender. So, for our pie we will procure 1lb of neck or stewing beef and one sheep's kidney, or the same weight in ox kidney. Now put this through the mincer—large sized holes—place into a saucepan with about one pint of water, and bring to a boil; then take a tablespoonful of flour softened in a little water and add this to the boiling mixture to thicken it. Lift it off the fire, as if it burns it will be useless. Now add the seasoning. Here is the recipe for seasoning:—

1lb. of salt, 4oz. pepper sifted or mixed well together. It may be simple, but it's the finest seasoning I have ever used. It suits everybody, is always on hand, it does for anything in the meat line—soups, gravies, meat pudding and pies and sausages. Always keep a jar ready mixed. This business of grabbing a handful of salt and a few shakes of the old pepper box was always unsatisfactory. Now, don't forget, for best results add ready-mixed seasoning to mixture with thickening flour. The interior of our meat pie is now ready, so we will put it into a pie-dish to cool, and wait until we want to cook it. For the crust or cover we can use either the hot water crust I gave a fortnight ago, or a short pastry one. Here is a recipe for one:—

$\frac{1}{2}$ lb flour, $\frac{1}{2}$ lb. butter, $\frac{1}{2}$ oz. salt. Air hole.

Rub the butter into the flour and mix with a little cold water. Bake in a good hot oven. As soon as the crust is cooked the meat will be quite cooked and tender.

Remember.—Meat right, seasoning right, and you will declare you have never had a better pie.

Happy Holidays

THE HERMITAGE, MT. COOK.

"Thousands of feet above worry level."

From Christchurch: First Return £5/14/2; Second Return £5/6/3.

THE WHITE STAR HOTEL, QUEENSTOWN.

"The Gem of the Southern Lakes."

From Christchurch: First Return £5/2/11; Second Return £3/8/11.

THE CHATEAU, TONGARIRO NATIONAL PARK.

"The Playground of the North Island."

From Wellington: First Return £3/5/3; Second Return £2/7/9.

BRENT'S ROTORUA.

"The Hub of Rotorua."

From Auckland: First Return £2/1/2; Second Return £1/7/7.

(Above cheap fares operate from December 15 to January 15).

ALSO COMBINED RAIL AND MOTOR ROUND
TRIP CONCESSIONS

RESERVE NOW at any Railway Office, Mount Cook Tourist Co.,
Thos. Cook and Son, or Government Tourist Agent.

FAMA

For Bathrooms, Lavatories,
Sink-tops, etc.

FAMA STONEWOOD FLOORING CO., Wellington.



Wavelets

It is estimated that 1500 of the total number of shortwave transmitting stations in Germany are unlicensed.

The new Calcutta station works on 25.6 m. Relays have been given by English stations.

The shortwave station. UOR2, Vienna, has provisionally suspended operations.

The first Italian train to be equipped with wireless was run on September 8 over the Milan-Turin line. Headphones were rented out for a small sum according to the distance travelled.

Transmitters are used by petrol prospectors in America, 5 metres being reserved for them.

It is said in Italy that an ingenious person is on the point of completing an efficacious remedy to deal with parasitic noises.

AN increase of 120 per cent. in the number of licensed listeners in Italy in eighteen months is attributed to the special measures adopted by the Government to suppress piracy.

PLANS are maturing for the construction at Budapest of a powerful new broadcasting station to be modelled on the lines of the British Regional stations. Two programmes will be transmitted simultaneously.

THE chimney-sweeps of Warsaw are reported to be up in arms against the nuisance caused by the "forests" of aerials on city roofs. In a petition to the municipality they declare that aerials not only obstruct them in their work, but also imperil their lives.

WAR has been declared on all forms of electrical interference with broadcast reception by the Electro-technical Union of Czechoslovakia. The principal causes of such interference were demonstrated during a recent Radio Fair at Prague, and many sales of trouble-eliminating devices were made.

CARRIER pigeons are undoubtedly aware of the wireless waves, and it is known that they lose their sense of direction when they pass near a transmitting station. An English doctor has now raised the point that possibly some of the patients in our mental institutions have that same faculty. He says that he had occasion to visit

such an institution when the doctor in charge introduced him to a patient who heard music in the air and who could reproduce the music and words he heard; often the latter being in a language totally unknown to the patient.

THE recent America Cup yacht races held a special interest for the radio historian, for it was during the races of September, 1899, that America had its first practical demonstration of wireless. For this contest, thirty-one years ago, between Sir Thomas Lipton's "Shamrock II" and the "Columbia," the young inventor, Guglielmo Marconi, was engaged by the editor of the "New York Times" to report the

race by means of his newly-invented apparatus for telegraphy without wires. A receiving aerial was erected at Navesink, New York, while Marconi's spark transmitter was installed on the steamer "Ponce." Thousands of words, at a rate of about fifteen a minute, were sent from the "Ponce" during the race by Marconi and his operators.

AN unlicensed transmitter working on the same wavelength as Scotland Yard intercepts police messages, thus enabling a gang of thieves to operate with little fear of capture. Only recently a jeweller was robbed and the thieves vanished before the police could even reach their cars in pursuit.

BRITISH receiving license figures are steadily progressing toward four million. "Saturation point will not be reached," states the B.B.C., "until there is a wireless set in every home, and that is our aim." It is estimated that a set is to be found in two out of every three homes.

FACED with the possibility that the Colombo broadcasting station would close down through lack of

funds, the residents of Ceylon recently opened a "Programme Fund." Within a few weeks enough money was collected to enable the station directors to maintain the usual standard of programmes for some months.

FOUR hundred schools in Germany are shortly to be equipped with broadcast receiving apparatus, according to the plans of the German Union of School Radio. More than 8000 teachers are members of the union, which has already introduced wireless lessons to many schools in Silesia and Westphalia.

A SPECIAL shortwave transmitter which will be finished before the spring of 1931 has been authorised for the League of Nations. It is to be erected at Prangins, in Switzerland, and the broadcast station now working in that town will also be placed at the disposal of the league.

SHORTWAVE listeners should soon hear another Italian station, which will relay the programmes from Milan and Turin. The wavelength will be in the neighbourhood of 80 metres and arrangements are being made for the transmission of pictures.

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