

PUBLISHED WEEKLY

THE RADIO RECORD

ELECTRIC HOME JOURNAL

AND

ECONOMY

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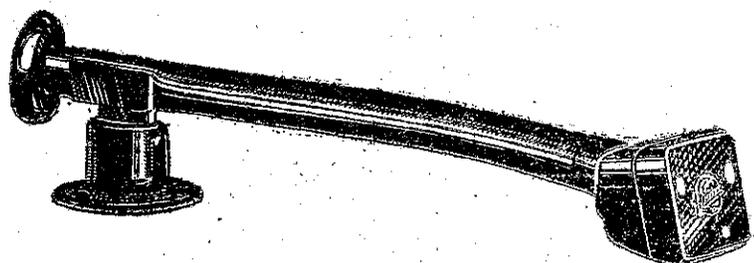
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Vol. IV., No. 24.

WELLINGTON, FRIDAY, DECEMBER 26, 1930.

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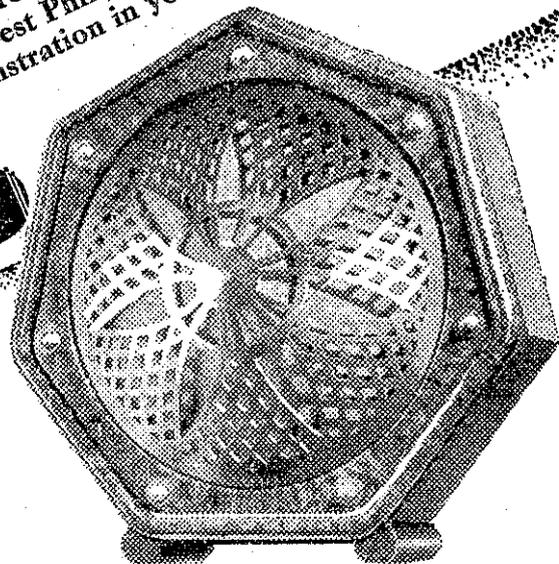
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Pessimists and Pianos

Do you play a musical instrument? If you do, read what Dr. J. E. Borland says about the influence of radio and the Gramophone on amateur music. If you don't, well read it, anyway. He covers a multitude of topics—all of them interesting.

MY opinion of broadcasting in New Zealand? Well, that is perhaps scarcely a fair question, because most of the six months I have been in this country I have been touring. I have had few hours leisure to listen-in. One impression I did gain, however—and one I think nobody will gainsay—was of the tremendous progress your broadcasting has made since my last visit in 1926. All I remember as outstanding then were church service relays. Now your programmes are, in arrangement at least, markedly similar to those at Home.

One of the greatest differences, from my viewpoint, is the lack of modern grand opera. This to a certain extent is counterbalanced by your frequent broadcasts of old favourites, such as excerpts from Gilbert and Sullivan's operas. I think these are a little neglected in English wireless programmes. Of course, you find it necessary to use many more gramophone records for broadcasting purposes than we do, but such a practice does not detract in the least from the attractiveness of a radio entertainment. On the contrary, recordings are probably preferable to first-hand renderings by less qualified artists.

I was rather surprised to find that at most of the country hotels where I stayed during my recent travels powerful modern radio receivers had been installed. I heard many enjoyable concerts.

ANOTHER point which impresses me greatly is the marked improvement made in England of recent years in recording music. In the early days of gramophones we thought that a certain recording of Dvorak's "New World Symphony" was marvellous. To-day, in comparison with a modern recording it is almost laughable.

The gramophone and the wireless set have an immense influence, over the younger generation especially, in the genuine appreciation of good music. In the old days, if a schoolmaster wished to talk about music to his pupils he was under a serious handicap. Perhaps he played the piano a little—but what use was that in trying to instil into children a love for the works of the great masters? Now, however, with the aid of the gramophone, he can present to his pupils any selection he desires, played by the world's finest musicians.



Dr. J. E. Borland, F.R.C.O., A.R.C.M., an eminent English musician and the author of numerous books on music and musical instruments, has for the last six months been touring New Zealand as examiner for the Trinity College of Music, London. When in Wellington a few weeks ago, he spoke from 2YA, and this was so much appreciated that in response to many requests from listeners he kindly consented to broadcast once more before leaving for England on December 17. The accompanying interesting views on broadcasting, and music in general, were expressed by him while talking with the "Radio Record" the evening before he sailed.

Broadcasting, too, is of great assistance in this direction. It is sometimes necessary to hear many of the classical works a number of times before a genuine liking for them is conceived. The fact that one may occasionally hear a schoolboy whistling a melody of a Beethoven sonata or an Italian opera may be quoted as an excellent indication of what radio has accomplished in this direction. Twenty or thirty years ago one was fortunate in hearing any particular composition once—

and then only during the excitement of a concert.

Will mechanical music ever displace home learning? you ask. No, I'm sure it won't. If a child, or an adult, for that matter, is really fond of good music, his or her enthusiasm for home playing will, if anything, be stimulated by mechanically reproduced music. One definite good radio and its ally, the gramophone, is accomplishing is the sorting out of those who have no real liking for music, but who as children were perhaps forced to learn some instrument.

IT is a curious idea, but a prevalent one, that the only instrument for children to learn is the piano. It is not uncommon to come across a family of four or five children all learning the piano, and worse, all playing the same pieces! I certainly admit that anyone who intends taking up any other instrument, whether for a profession or for pleasure, should study the piano, if only for a while. The student should progress until he, or she, is able to read two lines of music simultaneously. Then when the chosen instrument is taken up, things will be found much easier. In addition, the student will not be hopelessly lost when it comes to studying harmony or orchestral scores.

The standard of amateur musicianship in New Zealand? It is surprisingly high, and compares very favourably with other countries. Another point worth mention is that choir singing appears to be very popular among the people of this country. On a population basis, I should say that the number of persons interested in this form of music is as high here as anywhere in the world. I can think of only one real reason for this. At Home, people have tired of the old choral works, such as the "Messiah" and "Elijah," but in this country they are still popular. They possess one great advantage, namely, they are not difficult to present effectively.

AT Home, however more modern compositions are largely preferred. The majority of these are difficult, and to learn properly require an appreciable amount of time—probably more than the amateur in this country is prepared to give. In addition, at first hearing they sound almost (Concluded on page 2.)

Pessimists and Pianos

(Continued from page 1.)

discordant. A member of a choir singing these new compositions feels, in fact, something like an "atmospheric effect," and he is discouraged. . . .

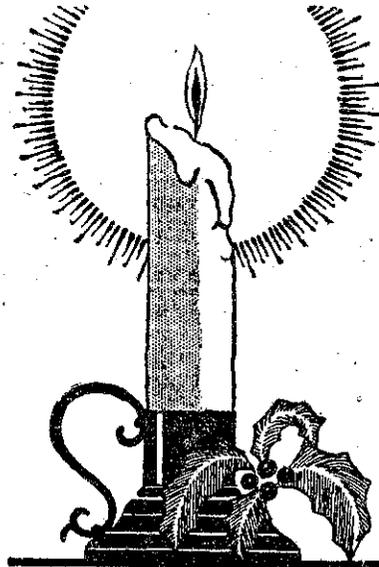
Chamber music is very popular in England at present. Because it requires only a limited number of performers, it broadcasts clearly, and for the same reason amateur musicians find it a most acceptable and easy way of playing together. In England some forty or fifty years ago many little villages had their own orchestras of sorts, which would perform at fetes, public functions, and commonly during church services. It was an excellent idea, but unfortunately, with the increase in church organs, they died out. I hope they may be revived.

Yes, taken generally, I have noticed a slight decrease in the number of pupils sitting for music examinations this year. This, however, is no doubt due to the present financial depression, and not to the influx of mechanical music. The decrease, also, is almost confined to those who have just commenced learning—usually children of seven or eight years of age. It is quite understandable that parents feel compelled at present to postpone the child's musical studies. After all, music is a luxury, and in times of financial stress luxuries are bound to go by the board.

When broadcasting first became popular in England, home learning did decrease for a while, but was soon revived. Boys especially were greatly taken up with their new hobby, that

of building receiving sets, and for a while they lost all interest in their musical instruments. It was not as if they cared for what they heard. They didn't. The fact that they had succeeded in hearing New York, for instance, on a home-made set was what mainly interested them.

But all this was just a phase. The novelty soon wore off. Amateur playing is now immensely popular in England, and is getting a bigger hold than ever. Institutions such as the Royal Schools and Trinity College of Music are each year turning out more and more qualified musicians—and good musicians at that. I remember a few years ago it was sometimes difficult



to find a good horn player. Now there are plenty of them.

Wind bands, too, have improved wonderfully. At one time a bandsman was not necessarily a musician in the true sense of the word. Now he usually is. More often than not it is found that over half the personnel of a good military band can play both a wind and a stringed instrument.

Singers? Well, it is on this subject that I would like to offer a criticism. Nowadays singers seem to consider that their performance is not complete unless they introduce a wobble into their songs. I don't refer to New Zealand vocalists in particular—if anything, they are slightly less addicted to the habit than those of other countries. It is very common in England, where they should know better. Frequently, singers don't sing in phrases, but in single notes, and these hit the unfortunate listener in a series of gusts.

If one heard the melody, and were asked to write it down, it would be almost impossible to do so with confidence. In places it would probably be a whole semitone out. The first thing any singer should learn is to have complete control of his, or her, lungs. Once they have done this, they seem to disregard it completely, and introduce an unstable wobble into everything. They probably think it is emotion, whereas, of course, it is instability. Perhaps also they think it sounds professional. Well, so it does—professionals do it also. But it is none the less regrettable.

Another common fault among singers is that of word exaggeration, or of emphasising syllables that should not be emphasised. I remember listening to a lady singer over the wireless when I was up north recently. She was singing "Where the Bee Sucks," and sing-

ing it well, but she would accent wrong syllables in certain words. It was probably done for the sake of clarity, but, for myself at least, the song was ruined. . . .

Our Spelling Bee

Interest in America

FROM the New Zealand agents of Stewart-Warner Radio (Hope Gibbons Ltd.) we have received an interesting piece of news. Our spelling bee has received considerable publicity in the United States. It appears that when Mr. Spring selected a Stewart-Warner radio as his prize for winning the competition the news was communicated to the American manufacturers, who thought fit to make the announcement public. The last mail brought several publications in which the news appeared. One of these read:—

"Being a good speller brought no such reward in olden times as it does now. When great-grandfather spelled down his rival in the little log schoolhouse the prize, like as not, was a dictionary.

"But, recently, prowess in orthography won for Philip H. Spring, of Wellington, New Zealand, not Noah Webster's book of words, but a complete library of home entertainment—a Stewart-Warner radio, which will bring to his fireside volumes of the world's best music, opera, comedy, drama, sports and world events.

"Mr. Spring won the spelling contest conducted by the 'Radio Record,' the official organ of New Zealand's broadcasting system, and his letter to Hope Gibbons Ltd., distributors for the Stewart-Warner Corporation in Auckland and Wellington, explains how the 'Avon,' one of Stewart-Warner's new console models, came to be first prize.

"He says, in part: 'Winning the spelling bee competition entitled me to make a free choice of the best radio obtainable. After making exceedingly careful comparisons for tone, power, selectivity, and gramophone reproduction, I decided that yours was by far the best instrument.

"Being, too, a keen radio amateur and knowing something about commercial radios, I consider the Stewart-Warner one of the neatest and best set out chassis units I have seen. I look forward to many happy hours with my newly-acquired radio.'

"The Avon model chosen by Mr. Spring is a beautiful console of American walnut, strikingly embellished with actual wood carvings. A bold central arch, slightly depressed below the actual front surface, provides an area for the dignified embossed bronze escutcheon plate of the set and for the scrolled speaker grille. The latter is topped by a carved rosette typical of the Jacobean period. Equipped with the new Stewart-Warner screen-grid radio and dynamic reproducer built-in, it is an outstanding example of modern radio engineering.

"Mr. A. B. Gibbons, managing director of Hope Gibbons Ltd., New Zealand distributors for Stewart-Warner, writes: 'Naturally we are very proud that Mr. Spring chose a Stewart-Warner and we are confident that the performance of the 'Avon' will more than justify his enthusiastic praise.'

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Benediction



DESPITE the fact that it was the middle of summer, a southerly was coming up. Already the southern sky was darkened with rapidly gathering clouds and the freshening wind had an unmistakable feeling of rain. Fearing that he might be caught without his coat, old Sam hurried toward his whare. He was not making rapid progress, for he had long since seen the best years of his life; in fact he had been a shepherd on this Wairarapa station for ten, twenty, yes—nearly thirty years. He had seen it hewn from the bush; he had, indeed, helped and had cut and shaped from its timbers enough material to build his own whare. Now he needed a stick to help him along, and his haste to reach shelter before the storm broke left him panting for breath.

Just before the door he paused, looked round, and whistled. "Here, boy!" he called, and an anxious pause followed. Round the side of the whare came trotting an old collie. The old shepherd leant down and patted the shaggy head, and together the two entered the rude shelter. They were part of one another's lives, these two, and both were growing old in the solitude of the back country. But Sam would not wish it otherwise, for he had grown to love the quietness and simplicity of the life. He had two great friends: his dog, Tim, and a radio set his employer had given him a year or so previous.

Sam would have none of it at first, and it was hours before he could be persuaded to even touch the dials. However, curiosity eventually overcame his fear, and he cautiously advanced a timid hand. By a happy chance the first movement of the dials resulted in a burst of melody from the loudspeaker. After that Sam would not miss a minute when he was not out with the sheep. He had been given an interest in the happenings of the great world outside—an interest which made his days brighter and his homecomings eager.

HIS simple meal over, and his dog fed, the old shepherd settled down in front of the fire to enjoy the evening programme. " . . . To-morrow night will be Christmas Eve, and we are presenting a special midnight church service. . . ." Sam, with a guilty start, realised he had completely forgotten it was Christmas, and the thought of it revived haunting memories of the gay Christmases of his youth. Then he was young, happy, and surrounded by friends. He had no one now to wish him a merry Christmas—no one to care whether he lived or died, except Tim.

"Tim, old pal," he muttered, as the dog snuggled his head between the old man's knees, "we're outcasts, but we're cobbers." And as a bushy tail swished the uneven floor, two full brown eyes shining at him spoke their assent. Yes, they were cobbers, and who else mattered?

THE following afternoon, and grey clouds scudded overhead, driven by a strong wind. Occasional showers lashed the

THE story of what radio meant in the life of a lonely old shepherd, and how in death it "helped him through."

—By A.E.R.

old shepherd's face as he knelt leaning over the bluff that rose steeply behind his whare. But Sam didn't notice the weather—didn't realise his clothes were sodden and his cap was gone. He was peering out of tear-dimmed eyes at a brown, huddled shape lying ominously still on a projecting ledge some fifty feet below. His face was working, and he was moaning piteously. His dog, his old companion and help-mate, lay down there crushed and broken. He couldn't believe it—it had happened so suddenly. Tim had been rushing along the cliff edge, intent on turning back a sheep that had left the flock. The rain-sodden brink had given way and the dog made one desperate jump for safety. Sam could see him now, half on his side, his four feet pawing madly against the soil that wasn't there. The almost human wail that rose when he finally hurtled downward still rang in the old man's ears.

"Tim; Tim, old boy," he half sobbed. There was a faint responding stir as a tail moved just slightly—just enough to kindle a wild hope.

Very cautiously, but without hesitation, Sam lowered himself over the cliff-edge, groping with his feet for holds. Infinitely slowly, and with an intense concentration on the rocky face before him, he worked his way toward the ledge where his dog lay. The exertion was almost too much for a man so old, but at last he reached it, shaking from the tremendous strain on his muscles and nerves. He crawled slowly along to the still form, and knelt beside it. His trembling hands moved over the shaggy coat, eagerly at first, but more slowly as no responsive tremor met his touch. He raised the limp head—there was just a move-

ment of the eyes and a slight swish of the tail, then no more.

Tim was dead. His dog; his pal, who had stuck by him, easing his labours, lessening his loneliness, had, after fifteen years of devoted service, left him. People said that when animals died they were finished with—cast aside. Sam pondered. Why shouldn't dogs like old Tim have some reward waiting for them on the other side? He shook his grey head dully. Perhaps everyone was wrong.

Perhaps there was some kind of dog's heaven. He fervently hoped so, for his old comrade's sake.

Carefully, very carefully, his hands clutching the rock wall, Sam stood upright and looked over the brink. He shuddered, and at the movement sank back on the ledge, every nerve fluttering. Below him lay his whare. He looked again and felt dizzy and slightly sick. Curious, but he'd never noticed the shack's chimney was slanting so much. Perhaps it wasn't so noticeable from the ground. His mind was wandering, and with an effort he brought it back to his present terrible plight.

He was certain he couldn't climb up again, and now his dog's need was past, he wondered how he had ever been able to get down to the ledge. His eyes returned to the still, brown form at his side. No, he couldn't possibly take Tim. He'd have to leave him there.

Feeling around and crawling backward and forward along the ledge, he collected a heap of stones, and these he tenderly piled on the inert body. He placed the last stone in position, and with dimmed eyes paused for a moment in wordless farewell.

He crept along to the end of his resting-place, and after pausing a few seconds to steady his nerves, turned round and slowly lowered his body over the void. Gradually he worked his way lower. His muscles ached and his hands were cut and bleeding. Half way down he rested awhile, panting heavily, and then cautiously lowered an exploring foot. He encountered nothing, and a dizzy nausea enveloped him, threatening to tear him from his hold to crash on the rocks beneath.

But the spasm passed, and with his hands clinging desperately to a niche, and his whole body pressed hard against the cliff face, he forced himself to look downward. About four feet below him, but a little to one side, lay a small ledge a few inches in width.

It was his one chance. He waited a few moments, and with a coolness born of desperation, gradually lowered his body until he was crouching. His fingers sought eagerly for the crevice, found it, and clutched. His feet swung downward and to the side, groped, and touched the ledge. He'd done it, and in a rush of exhilaration (Concluded on page 8.)

The New Zealand
Radio Record
 —AND—
Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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

WELLINGTON, FRIDAY, DECEMBER 26, 1930.

RADIO AS A NATIONAL SERVICE

AUSTRALIA has now to her credit an outstanding instance of the usefulness of a first-class broadcasting service. Speeches by the heads of the Government played a very important part in achieving the successful flotation of the twenty-eight million loan required by the Commonwealth of Australia to meet its financial obligations. The leaders' appeals, as broadcast from the main A stations, drove home to electors the vital necessity of success. The result was that approximately three-quarters of a million is directly credited to radio response. In all probability an even larger sum was actually secured by this appeal into the homes of the people. Naturally, the sums subscribed by radio listeners tended to be small, as those with larger interests who recognised their individual responsibility would take earlier and more direct means of contributing their quota. What radio listeners lacked one way, however, they made up in another—their numerical strength was sufficient to lift the total number of contributors to the loan to over 100,000.

IN Great Britain the greatest demonstration of the value of a first-class broadcasting service to the life of a nation was given at the time of the General Strike. Then broadcasting served to maintain essential services and disseminate accurate information, thus enabling the national life to flow on undisturbed in spite of the temporary disruption of the transport service. Australian demonstration of national utility has been perhaps not quite so spectacular, but, nevertheless, it has been important and effective. New Zealand has not, so far, made marked use of the radio service in any time of national emergency. There has been a definite shyness on the part of the Government and political

leaders towards full utilisation of this new means of communication. In the desire to avoid subverting the service to politics, an excess of caution would seem to have prevailed, and occasions when legitimate use might have been made of the service from the national point of view have been passed. Australia has a different outlook. Australia believes in the use of radio. Her Governmental leaders do not hesitate to use the "A" Stations in time of national emergency for the national good, while the "B" Stations are very liberally used by politicians of all class in political campaigns. We are not desirous of seeing a too liberal use made of the air in New Zealand for publicity and political purposes, but we do think that a more extensive use of radio might be made by national leaders for national purposes. In his recent pronouncement at Auckland, the Postmaster-General, the Hon. J. B. Donald, expressed a desire to definitely improve the broadcasting service for the benefit, not only of the city dwellers, but for the man on the land. The farmer has few facilities for getting in contact with the trend of affairs. At the present time the farmer is face to face with a most far-reaching economic crisis. His position is of national concern. He is naturally desirous of appreciating to the fullest extent the national implications of the situation. Without touching upon partisanship in politics, we do think it possible for an independent summary of the national position to be given by Government leaders, and we commend that idea to the Postmaster-General, particularly in view of the imminent return of the Prime Minister, the Hon. G. W. Forbes, from attendance at the Imperial Conference. Our point is that the radio service should become an integral part of the national life, and that more vigour and boldness should be shown in its use by those in authority. Britain demonstrated its value, Australia has done the same, and New Zealand in her special circumstances might legitimately do likewise. Radio can be, and should be, more than an entertainment. It should play a definite instructional part in national affairs.

Itinerant Artists

Further Dates Arranged

MR. JOCK LOCKHART, the Christchurch Scottish entertainer, who is under special engagement to the Broadcasting Company for a series of humorous recitals at the YA stations during the holiday season, has already appeared once at 2YA, and has the following schedule to carry out: 1YA, December 26 and 27 (public appearance at band concert on Saturday, December 27). 2YA, December 29. 4YA, January 1 and 2. 3YA, January 10.

Mr. Rex Harrison

INCLUDED in the very fine programmes prepared for the Christmas season is Mr. Rex Harrison, one of the finest baritones ever heard on the air in New Zealand or in Australia. Mr. Harrison will sing for 3YA on Christmas Eve. The items composing his recital will be: "Nazareth," "Waves," "Star of Eve" and "Vulcan's Song." Mr. Harrison, besides being a pure baritone, sings with perfect enunciation and splendid interpretation.

Mr. J. F. Montague

AS announced in last week's issue of the "Radio Record," Mr. J. F. Montague, of Auckland, has been engaged to give special recitals from 2YA, 3YA and 4YA next month. The items which he will present will be selected from a very large repertoire, ranging from comic and dramatic recitations to sketches and plays requiring considerable "effects." Mr. Montague's itinerary is as follows: January 6, 2YA; January 8, 3YA; January 10 and 12, 4YA; January 14, 3YA; January 16 and 19, 2YA.

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Notes and News from the North

AUCKLAND has now two new B class stations. One is operated by Johns, Ltd., from their premises in Chancery Lane. This little station gives a general programme on Tuesdays and Thursdays from noon till 2 p.m., and on Wednesdays from 7.30 p.m. till 9.30 p.m.

ANOTHER Auckland B class station, 1ZB, operated by La Gloria Gramophones, Ltd., has recently extended its operations. This station now broadcasts in the morning, afternoon, and evening on Mondays and Wednesdays, and in the afternoon and evening on Tuesdays and Fridays. Hitherto the programmes have consisted of gramophone items, but now concert artists and bands are to be engaged from time to time to diversify the programmes.

THE other is 1ZR, which is operated by Lewis Eady, Ltd., from their Queen Street premises. This station made its initial official broadcast on Saturday, December 20. The station director is Mr. T. T. Garland, late "Uncle Tom" of 1YA, and an extensive programme schedule is to be given regularly. The output of the station is 100 watts and the wave-length 275 metres (1090 kc.). The proposed sessions are as follow:—Monday, silent; Tuesday, Thursday, and Friday, noon—2 p.m. music, 2.45 music, 3.30 news and views, 3.50—4.15 p.m. music, 5.45 p.m. music, 6—6.45 p.m. children's session, 6.45 p.m. local news, 7—7.20 p.m. music, 7.20—7.55 p.m. informative session, 8—10 p.m. music. Wednesday, the same, but close down at 7.55 p.m. Saturday, 12—1 p.m. music and general announcements, 5.45—7.55 p.m. same as week nights, 8—11.45 p.m. fixed dance programme. Sunday, 9.30—10.30 a.m. special radio church service, 2.30—4 p.m. music, 6.45—9.30 p.m. children's service, church service, and music.

LISTENERS to 1YA will be interested to hear that Mr. G. Buckley has been appointed to the position of bandmaster to the Auckland Municipal Band, in succession to the late Mr. Christopher Smith. This band is one of the most popular regular features on the northern station's programmes and it seems certain that under Mr. Buckley's leadership it will continue to deserve its popularity. Mr. Buckley, who was appointed from out of forty-five applicants, was some years ago sergeant and solo cornet in the Wellington Garrison Band. Later he was bandmaster and deputy conductor of the Wanganui Garrison Band, when it won all contests, including the championship of Australasia. Afterwards he formed the Queen Alexandra Band in Wanganui, which has since made a very good name for itself.

MR. COLIN TRIM, who succeeded Mr. Owen Pritchard as programme organiser at 1YA, has quickly settled down in his new position. He finds himself by no means in strange company, having previously worked as a pupil and as a broadcaster with both Mr. Culford Bell, announcer at 1YA, and with Mr. Len Barnes, station director.

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Advisory Committees Meet
Wireless for Hospitals

4YA Children.

A MEETING of the 4YA Children's Session Advisory Committee, was held on Thursday, December 11, Captain Chandler (Salvation Army) presiding. There were also present:—Rev. S. J. Cooper (Anglican Boys' Home), Mr. A. E. Williamson (Headmasters' Association), Mrs. Denton Leech (League of Nations Union and National Council of Women), Miss

to Bluff. "Big Brother Bill" had promised that the two sets would be fitted up by Christmas, and this was to be done—at Kew on Wednesday, and at the hospital on the following Saturday after the meeting.

"Big Brother Bill" was heartily commended on his efforts.

The chairman intimated that as this would be the last meeting he would attend, he would tender his apprecia-



Big Brother Bill of 4YA.

Orchestra), Mr. E. D. Robins (University Students' Association), Mr. V. Trask (Athenian Club), Mr. L. C. Barnes (Station Director at 1YA), Mr. H. C. Trim (Programme Organiser at 1YA). Apologies for absence were received from Miss Bertram, Mr. Blair and Mr. J. Tait.

The chairman reported having attended a valedictory function to Mr. Owen Pritchard, 1YA Programme Organiser, who has been transferred to 2YA, and had expressed the committee's appreciation of Mr. Pritchard's ability, diligence and courtesy. Mr. H. C. Trim, transferred from 2YA, was cordially welcomed.

The judges' award in the musical section of the Song Writing Competition was announced. It was stated that each of the judges worked independently, and were unanimous in their decision that one, by "Ajax," was the winner. This proved to be Mr. Eric Waters' entry. The judges were: Dr. Kenneth Phillips, Mr. J. Tait and Mr. H. Hollinrake. There were 29 entries. Much satisfaction was expressed at the success which had attended the competitions. The date for the first presentation of the song over the air has not yet been arranged.

Mr. Barnes reported on programme arrangements for the holiday season, and mentioned coming attractions in the way of programmes and talks.

Among the suggestions made was one that the Maori opera "Hinemoa," by Alfred Hill, should be broadcast and inquiries are to be put in train. The proposal was also made for a University debate between Auckland and Wellington early next year. The chairman tendered his felicitations to the other members of the committee, and expressed the hope when they met next year they would all begin their work with the same zest that had characterised them all through.



Hindle (Y.W.O.A.), Miss Feichley (Girl Guides' Association), Brother O'Sullivan (Christian Brothers' School), Miss A. Winkel (Aunt Anita), Rev. W. D. More (Children's Organiser), Miss Coe-Smith (Secretary of S.P.C.W.C.), Mr. J. McKenzie (Station Director).

The question of a General Knowledge Competition was discussed and referred back to a sub-committee to report at the next meeting of the committee.

Reference was made to a campaign undertaken by "Big Brother Bill" to raise money for equipping children's convalescent homes with wireless. Enough had been raised for the Children's Homes at Kew, and the shelter at Wakari Hospital was next on the list. That would be a big expense. After that it was intended to endeavour to fit up the General Hospital—that would be a matter of £2,000. The previous week £80 had been raised, £30 of which had come from donations. Gifts had been received from as far north as Palmerston North and south

tion of the hearty support and co-operation accorded him in everything. He wished members the compliments of the season, and trusted that the committee would meet with every success during the coming year.

The committee expressed its appreciation of the work Captain Chandler had done during the past 12 months he had been chairman of the committee. Some very fine tributes were paid to Captain Chandler as chairman and as "Uncle Bert."

1YA Music and Dramatic.

THE 1YA Musical and Dramatic Committee met on Friday, December 12, Mr. A. B. Chappell (representing the Dickens Fellowship) presiding. There were also present: Mr. J. F. Montague (Auckland Comedy Players), Mr. L. E. Lambert (Bohemian Orchestra), Mr. C. B. Plummer (Auckland Choral Society), Mr. Karl Atkinson (Auckland Piano Students' Association), Mr. T. T. Garland (Auckland Savage Club), Mr. F. M. Price (Acolian

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The Sketcher Entertaining 2YA Combination

A VERY entertaining combination recently made its appearance at 2YA and will be heard again next Thursday. This combination, known as "The Sketchers," consists of two well-known 2YA people, Miss Madge Thomas, who was recently lecturing during the afternoon session, and Mr. J. Store. These two versatile entertainers have, in the short time in which they have been appearing in combination at 2YA, made themselves very popular with listeners. Their broadcasts next week are quite looked forward to, for there will no doubt be a Christmas ring in the topicalities put over.

Radio Interference in Germany

THE police at Cossel, in Germany, have issued stringent regulations concerning radio interference, stating that persons who own apparatus which causes interference will be prosecuted if care is not exercised in their use. Only during those hours of the day when people do not listen much may the offending devices be used.

A Merry Time in Store for all the Radio Family



AT 2YA.

Monday, December 29.—A programme has been arranged by Miss Lottie Rastall. Fairy recitations will be given by her little pupils. Uncle Jeff, the Maori Legend Lady and Kipling Lady, will also entertain with stories and riddles.

Tuesday.—Uncle Toby, with his mouth-organ, will open the programme, then will come Jumbo to take Uncle Toby off in Uncle Toby's aeroplane for a romp in Nursery Land, where they will be entertained in the "House that Jack Built."

New Year's Eve.—We have invited all our Scottish friends to the studio to-night. Cousin Dick will play the bagpipes. Cousin Marjorie will sing "New Year's Carol," and Cousin Dorothy will play Scottish airs on the vibraphone.

New Year's Day.—Big Brother Jack and Uncle George to-night. Cousin Bernard is bringing his Hawaiian guitar, and 2YA Chorus will sing Scottish songs.

Friday.—Uncle Jim and the Story Book Lady will send out the birthday greetings to-night. "The Little Tin Soldiers" will come with Cousin Viola, and Cousin Hope will bring her violin.

Saturday.—Miss Dorothy Innes has arranged a delightful programme for us to-night. Her little pupils are taking Uncle Jasper and Aunt Molly on a magic carpet to the beach, where there will be a Punch and Judy show, musical boxes, and donkey rides. It will be a wonderful time—all together.

Sunday, January 4.—The Children's Song Service will be conducted by the Rev. Hubbard, assisted by the Children's Choir from the Newtown Church of Christ, under the leadership of Mr. Thomas.



UNCLE TOBY OF 2YA.
Listen in Tuesday night and hear Uncle Toby's bright stories.
—Andrew, photo

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Dynamic 6-Volt £8/15/- Speakers for Battery Sets; New and Good.
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Quick Repairs Phone 22-357.

Musical and Dramatic Committee

THE 2YA Musical and Dramatic Committee met on Monday, December 8. There were present:—

Mr. E. Palliser (chairman), Mr. E. A. Anson ("Dominion"), Mr. I. Levy ("Radio Record"), Mr. L. J. Retallick ("Apollo Singers"), Mr. E. Pankhurst (C.T. Male Voice Choir), Mr. R. Lyon (Savage Club), Mr. J. Carr (Charley's Aunt Club), Mr. H. R. Robb (Orpheus Musical Society), Mr. H. Hardcastle ("Evening Post"), Mr. E. Dawson (Wellington Symphony Orchestra), Mr. V. R. Bennett (Harmonic Society), Mr. W. P. McLachlan (Wellington Competitions Society), Mr. Harison Cook (Orpheus Society), Mr. J. Ball. Apologies for absence were received from Mr. Jamieson and Mr. J. Davies.

The question of copyright restrictions was discussed at length. A resolution was passed asking the Broadcasting Company favourably to consider renewing the subsidy to musical societies next year, and a vote of thanks to the company for its action in subsidising the societies during the past year was carried.

Radio in Schools

A PROTEST from Christchurch regarding a suggestion that the Government should provide radio reception equipment for primary schools was published in the Press recently. A variant of the proposal to equip primary schools with radio sets, which was sent along to "Switch," suggested that the money necessary for the purchase of sets could be raised by the various school committees by such means as concerts, dances, subscription lists, etc. The relatively small sum of money required for the equipment should, it is urged, be quickly raised in every rural centre.

Xmas and New Year Broadcasts

Will your batteries and valves stand up to the increased use, or are you going to be disappointed when it is too late to renew them? Remember, when your battery is lower than 30 volts it may give out at any time. Study these city prices and see if you can better them.

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- Motor Engineer, —Language (G'phone)
- Motor Mechanic, —Special Examinations
- Electrical Engineer, —Accountant (Inst. Ex)
- Elec. Mech. Exams, —Matriculation,
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- Telephone Mech., —Public Service,
- Aeroplane Engineer, —Special Women's Dept.
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Breaking into the Amateur Game

The First of a Series of Articles on Amateur Transmitting

By "Q.R.L."

THIS is the first of a series of articles dealing with the essential points of amateur short-wave transmitting. It will tell, in detail, how to become an amateur operator, construct a complete transmitter, and operate it successfully. In these respects it is considered that the articles will fill a need by letting the enthusiast know how simple it is from start to finish to put a licensed transmitter on the air, and that it is not the highly expensive, technical and difficult process it is generally considered to be. The writer is an experienced and well-known "ham."—Ed.

Doubtless the A.C. mains will be resorted to if higher power is later desired, as it is impracticable to use batteries above two or three hundred volts.

The chief factor in any transmitter is the power supply, and the greater the power the greater the distances that can be covered with reliability, but with the small power mentioned, distances up to 1200 miles will be easily covered on the higher amateur wavebands, while on the lower much greater distances under good conditions.

For the transmitting antenna no complicated arrangement or great height is required, the single wires employed being cut to a definite length, and no earth is used.



WAGNER

The greatest
of German opera
composers.

will be the
subject of a
Lecture
Recital

by
Mrs. Daisy
Basham
from 2YA
Monday, Dec. 29.

We shall have more to say about this subsequently.

The Government License.

NOW, before an amateur station can be established, it is necessary to obtain a Government license. If an ordinary receiving license is held, this costs nothing extra, but before the transmitting license and a call-sign for the station are issued a small examination must be sat to satisfy the Government authorities that the prospective licensee is qualified to operate a station.

This examination is conducted by the P. and T. Department, and is in two parts, the first being in Morse operating, reading and receiving, and the second in elementary theory and know-

ledge of simple transmitters and the Government regulations. The Morse is at the slow speed of ten words per minute, and the code must be learnt and practised for a while to attain this speed.

The theory is elementary, and any listener who has read this paper for a time should have no difficulty there. The knowledge of simple transmitters and the regulations governing amateur operation will be dealt with fully in a future article. Anyone who is prepared to spend his spare time for a few weeks should have little trouble in passing this examination in both sections, the Morse being generally considered to require the more work, and the regulations simple.

Beginning to Chirp.

After the exam. is passed, a license and call-sign will be allotted, and will take one of the following forms: It will begin with "ZL" which is the "intermediate" for all amateur stations in New Zealand, just as "VK" is for Australia. Every country has an intermediate so that the origin of signals can be instantly known. If the station is in the Auckland district, it will have the number "1," a complete call-sign being ZL1AA; for the Wellington and Hawke's Bay districts, the number is "2," e.g., ZL2AA, and for Christchurch and Dunedin "3" and "4" respectively. The station will be known only by the call, just as is a broadcasting station.

When the license has been allotted, the station may be put on the air, but its wavelengths and general operation are governed by the regulations previously mentioned. Once on the air, the real fun starts; and the amateur will continue to widen both his sphere of knowledge and his circle of friends. There are several wavebands in which he may operate, and they are known as the 80, 40, 20, and 10 metre bands respectively. For a few months at first the transmitter must be operated on the 80-metre band, until more practical experience is gained, and consequently the contacts, or "QSO's" will be limited to New Zealand and Australia, but one can be certain during this time of being able to "work" some station any night. Many experienced hams get as much pleasure out of rag-chewing, or yarning, with home country stations as out of real DX contacts.

Getting On to the High Frequencies.

AFTER a permit has been obtained to operate on the lower wavebands, 40 and 20 metres, there is practically no limit to the distances workable, Europe and Asia being quite common contacts. Of course, the majority of amateur work is done with morse, as this has probably four or five times the carrying power of telephony, or "fone," and is far simpler and less subject to atmospheric interference. It is an invariable practice to commence transmitting with morse only, since it requires less power and simpler apparatus, but generally the amateur has a try at fone later on. There is a great attraction about it, but the signal, or carrier wave, which is cut up into dots and dashes for morse, but on continuously for fone, must be very pure,

In the history of radio the amateur experimenter stands predominant. Though it is often overlooked, the credit for the advancement of radio science is due to a large extent to his persevering and farseeing efforts, which have often been seriously hampered by unsympathetic legislators, and he has shown conclusively that his existence is far more than justified.

He has triumphed over many difficulties, and to-day there exists a vast army of amateur transmitters, stretching a net of two-way communication to the remotest spots of the earth. Every night one may, by listening on a short-wave receiver, hear amateurs in distant countries talking to friends on the other side of the world, and a great brotherhood has been formed following the international friendships that have sprung up through two-way radio communication.

The unbounded possibilities of two-way communication enable the transmitter to keep up that keen permanent interest which so soon dies with mere reception, and it is a really thrilling way of opening up a vast store of new attractions which are virtually unending for the amateur.

No doubt there are many such keen listeners in New Zealand who, having built short-wave sets and hearing the wide world, have cast longing eyes on the amateur transmitter, and wondered what his apparatus is like and how he operates it, and how one becomes an amateur operator in the first place. It is often thought that this is quite difficult to do, and that the apparatus is costly and hard to construct. Now the purpose of these articles is to show just how simple it really all is, and to show any short-wave listener who is prepared to put a few evenings' work into it how to break into amateur transmitting.

The great advantage of short waves is the huge distances coverable by transmitters using but small power. This is the basis of nearly all amateur activity, since few amateurs can afford the high-powered gear necessary for covering even short distances with long waves. It has been shown by amateurs that signals have been sent across the globe on the shorter wavelengths with no more power than an everyday receiver uses.

The Essentials.

MOST amateurs begin with just such power and a transmitter that is no harder or costly to construct than a three-valve receiver, and a future article will be devoted to a description of such a transmitter.

IT employs only one valve, which may be just a common receiving one, such as the 201-A, and the power for the filament and plate is obtained from the "A" battery of the receiver, and a "B" battery of about 150 volts. Many amateurs use the A.C. mains for power supply, generally transforming the voltage up, but the A.C. must be rectified and thoroughly smoothed in order to give a clean, clear signal. A D.C. battery saves all this extra gear, and gives the best signal, especially for the beginner.



His Majesty the King speaking into the microphone on the occasion of the opening of the Indian Conference. On his right are Captain Wedgwood Benn, Secretary for India, and Mr. Arthur Henderson, Secretary for Foreign Affairs. The speech was heard in New Zealand by short-wave enthusiasts.

Sales and Service

Since the publication of the feature article on page 1 of our last week's issue, we have been many times asked the name of the organisation represented by Mr. G. Menon, so, for the benefit of our inquirers and those who were undoubtedly interested in his sound and efficient survey of the radio position in the United States, we have much pleasure in stating that the firm who has sent Mr. Menon abroad is the Stewart Warner Radio Corporation. Mr. Menon's visit is for the purpose of supplementing and installing the most modern service equipment in their New Zealand representative's houses. Our talk with him was arranged by Messrs. Hope Gibbons Ltd., who, as we have on past occasions remarked, are the New Zealand distributors for the Stewart Warner radio receivers.

that is, the note must be "pure D.C." as it is called, otherwise the voice or music will be marred by a hum. Also plenty of power is needed, so that the beginner is well advised to let fone alone until he has the requisite power and note.

The Wall Paper.

ANOTHER interesting factor in amateur radio is the system of QSL or confirmation cards used by hams. After two-way contact has been made between two stations, each sends the other its station card, on which is printed prominently the call-sign and details of the conditions and signal strengths at the time of the QSO, also particulars of the transmitter and receiver in use at the station. These cards are usually pinned up on the wall of the "shack" or radio-room, and make an imposing sight, as they are often in colours, and fill the whole wall space of the room.

In conclusion of this introductory article, it may be stated that amateur transmitting would be a great boon to country residents, who would never feel at a loss for amusement with a short-wave transmitter, and would have an advantage over city hams owing to the lack of interference in the country. However, there is no reason why any listener should not obtain an amateur "ticket" and get on the air, if he (or she) is prepared to spend a little time on it, and there is absolutely no doubt that he (or she) would be many times repaid for the trouble taken.

The Benediction

(Continued from page 3.)

unknowingly slackened his hold. It was his undoing. His fingers, grown careless, suddenly clutched in vain at crumbling, treacherous rock. A shriek, followed a little later by a dull, horrifying thud, and all was still. . . .

IT was dark, and the rain was still pouring down, beating cruelly on the unresponsive, crumpled body which lay at the foot of the black cliff walls. The old man had lain there over four hours, seemingly lifeless, but with just a flicker of life remaining within the pitiful, rain-sodden form. He moved feebly and groaned with the pain that enveloped him as consciousness returned. He couldn't think clearly, and his body was racked with an agony that threatened any moment to send him back into unconsciousness.

Very slowly, covering a few inches at a time and passing through a hell of pain at every movement, he crawled toward his shack. At last he reached it, and with a supreme effort raised his body high enough to fumble with the latch. The door swung back, and he half fell, half crawled into the hut. With his last ounce of strength he pushed the door shut and drew himself to his bunk, when again unconsciousness overtook him. . . .

IT was approaching midnight. For hours he had lain there, motionless, and at last a long-drawn shuddering sigh came from his lips. His eyelids flickered, and he once more became aware of the roar of the storm raging round the whare, which rattled and shook as though at any second it would be torn from its foundations. A groan sounded through the darkness. He was dying, he knew, and at the thought he became terribly frightened. To die like this, broken in body and with no one to be with him in his last moments, appalled him, and he moaned pitifully.

And then an inspiration forced its way into his clouded brain. The radio! With a rush he recalled the church service announcement he had heard the previous night. A trembling hand fumbled for the switch that would bring comfort and cheer in his dying moments.

Out of the darkness came the beautiful strains of the "Messiah," the voices of the choir blending perfectly in the inspiring climax. The voices died away, and the organ swept the glorious harmony to a close.

At the sudden silence the old man started, and after a struggle raised himself on one elbow. He put out an inquiring hand toward the dials, but the effort was too much for his failing strength, and he sank back despairingly. . . .

IN the rain-swept blackness outside a horse, bearing a crouching figure on its back, was stumbling and slipping along the path to old Sam's dwelling. The storm lashed furiously around rider and beast, as if indignant at their presumption in venturing from shelter on such a night. That morning a trapper had called at the station homestead, ten miles distant and had been directed to Sam's shack as a place where he might spend the night on his way to the coast. Unfortunately, he had postponed his departure from the homestead until evening, and was now completely lost in the storm-swept darkness. It was useless for him to dismount to look for shelter. His only plan was to keep moving, no matter where his horse might take him.

Slipping and sliding, the animal slowly climbed the rise, squelched through the mud on the flat for a few yards, and then stopped dead. His rider impatiently urged him on, gently at first and then with spurs, but after reluctantly moving a few paces, the horse suddenly wheeled and went back.

"Silence, Please"

THOUGH strict silence is enjoined "when the red light is burning," listeners with acute hearing may on occasion have detected agitated whispering in the studio—the announcer receiving a last-minute message or an anxious producer dealing with some temporary hitch in his show.

The Columbia Broadcasting System of America has recently announced that there will be no more whispering of any kind in its studios. Sign-language will be used instead. The announcer is to learn a whole code of signals made by swinging the arms in various directions and extending them at various angles. The "gesture of cutting off one's head" is to be a sign that the microphone is no longer required and the current may be switched off.

Finally, "when the studio is about to go on the air, the man behind the partition holds his arms above his head like a football quarterback signifying a fair catch."

Sensing something amiss, his rider dismounted stiffly, cursing the stubbornness of his mount. He stepped forward—and stumbled against the doorstep. Surprised, he fumbled for the latch, entered, and then stood as if transfixed.

Out of the darkness came a voice, strong, yet strangely tender and comforting: ". . . May the blessing of God Almighty, the Father, Son, and Holy Ghost, be upon you and remain with you always." The voice stopped.

In bewilderment the stranger groped forward, one hand digging deep into an inner pocket of his oilskins. A light flared. His eyes fell on the still figure on the bunk, and a low exclamation escaped his lips. The match flickered and went out. Outside, the storm still roared, but on old Sam's face, a few minutes before so twisted with pain, was a look of ineffable peace.

He, too, had heard.

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Einstein in Retrospective Mood

Sees Public Rapidly Forgetting the Marvels that have Brought Radio to Perfection



RADIO listeners should be ashamed to make use of the wonders of science embodied in a radio set while they appreciate them "as little as a cow appreciates the botanic marvels in the plants she munches." So

spoke Professor Albert Einstein in expressing his regrets concerning public apathy toward scientists, at the opening of the Berlin Radio Exposition.

It was back in 1921 and 1922 that the listeners really paused to give thought to the new scientific wonder heralded as radio. Broadcasting was called a "craze" then, but its magic attracted and inspired hundreds of thousands throughout the world to learn more about it. Radio was new to the public. It was complicated. Books and pamphlets were hurriedly written to meet an urgent demand. Hundreds and hundreds of copies were sold. Thousands sought wiring diagrams and instructions for building receivers. They wanted to know more about the wonders of radio. There were no factory-made sets.

The young Marconis were busy at their attic and cellar work-benches trying to meet the neighbourhood demand for a crystal set that would pick up music from KDKA, WJZ and other pioneer broadcasters. The early sets were complicated contraptions.

It required an expert to operate the first valve set. Their panels were decorated with multiple switches and knobs. Radio listening was a complex science. Tuning was an art. To pick up Davenport or Chicago in New York was a real scientific triumph. It was real sport, too—commuters on the morning train compared notes as to what they had heard during the night. And in order to surpass his neighbour's record each had to "read up" on radio. He had to know what it was all about so he could build a more sensitive set, one that would tune sharper and cut through interference—one that might reach the coast!

But the situation changed. Factory-made sets competed with the home-made outfits. They were simplified and built foolproof. They were made all-electric. It became necessary only to snap a switch and to turn one small knob instead of four or five dials. Radio in the home became as simple as the telephone; as easy to use as the electric light. A child could tune in and travel over the air waves from city to city.

It was not necessary, after 1926, to be an expert technician in order to own a radio. So the public ceased to learn about what was inside the cabinet or of the marvels that brought the music across the horizon. They dropped their interest in electrons, regeneration, harmonics, oscillations, kilocycles, inductance, audio frequencies, and electricity. The radio chassis now ranks with other machinery and mechanism of the automobile. When something happens to the motor-car the owner usually calls upon the garage. When something happens to the radio the service man is summoned.

Distance Was a Lure.

AND in the pioneer days listeners found great joy in tuning for distance, DX as they called it. To-day the

majority prefer four or five local stations and are entirely satisfied if they get them with good tonal quality, plenty of volume and no interference. Tone is the thing. Beauty of cabinet is another ruling factor.

Seldom does anything go radically wrong with the modern set. So the owner does not have to know much about about it. The usual ill is caused by a valve wearing out, but even the valves give many hours of service nowadays before they blink or burn out.

What the radio set owner of 1930 is interested in first and foremost is what he hears. The programmes are para-

mount. The broadcasts rule radio. If the broadcast is entertaining and of clear tone then the set owner is satisfied. He does not care what is going on under the cover of the cabinet or in the emptiness of space. If he happens to tune around and accidentally hears Louisville, Atlanta, or Los Angeles, he merely considers it an ordinary thing in the realm of radio. Whereas ten years ago if a New Yorker, for instance, picked up a far-away station he would call all the family and the neighbours to rush to the headphones or loudspeaker to hear one of the wonders of the age.

The radio listener of 1930 is blasé. He snaps the electric switch, turns the tuning control of the uni-dial receiver and sits back to hear what is going on in radio's world-wide theatre. If he does not like it he tunes it out with one simple twist of the wrist. If there is any slight interruption or strange noise he calls it static. He puts the blame on nature. If anything goes wrong he may take the risk of shifting the valves in the sockets, but usually he is a trifle timid about tinkering with the circuit and its magic parts. He would rather leave that to the service man. He would not fool with his electric icebox, vacuum cleaner, electric light line, gramophone, or motor-car, so why tackle the radio when he knows nothing about it? He calls in the radio doctor—the technician with the tool kit and testing meters.

The Set is Foolproof.

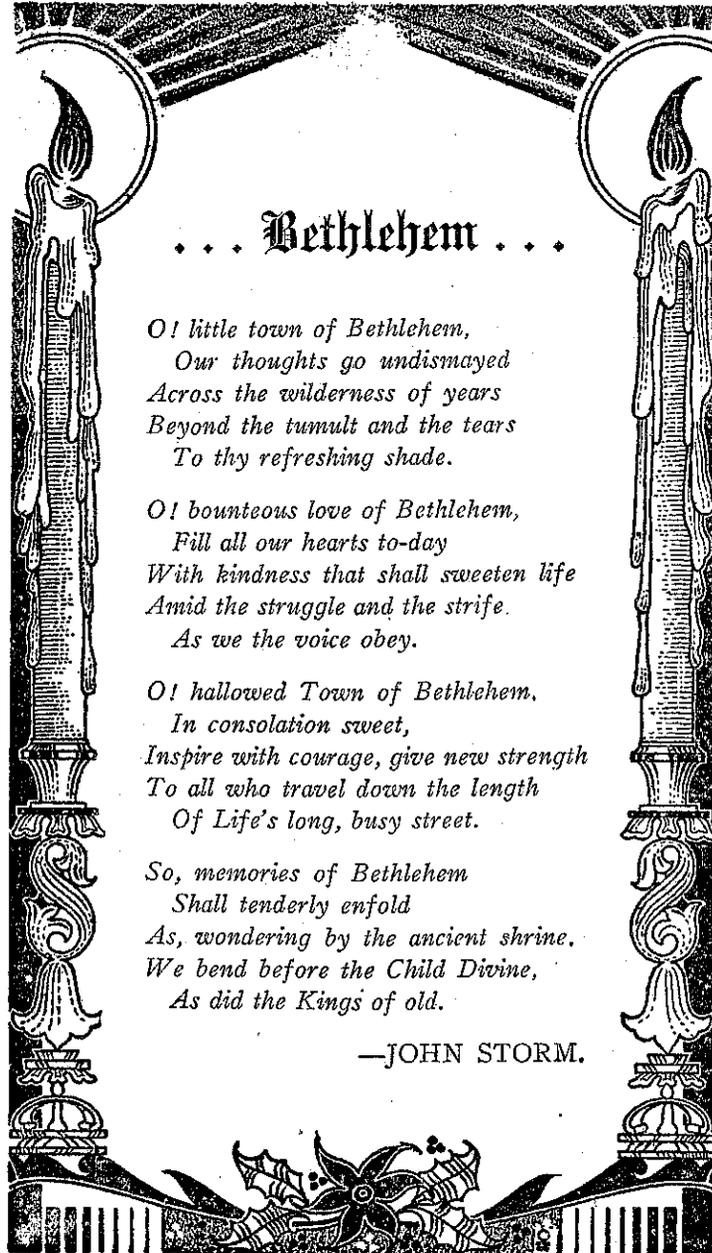
THE coils and condensers, transformers, and wires were exposed in the early receivers, so that it was easy for the set owner to lift up the cabinet lid, glance in, and juggle anything that looked out of order or out of place. But today the parts are protected and hidden in metal cans and compartments, so that Mr. Listener has no lurking invitation to go after the set with a screw-driver or pair of pliers. The radio instrument of to-day is foolproof. It calls for one who understands it to operate on the delicate parts should some ill develop.

So Professor Einstein has the right picture of the 1930 radio listener. The listener merely tunes in, and on many occasions continues to read or talk while the loudspeaker plays or talks on in a vain effort to attract attention. 'Tis true that as the cow munches the hay, the clover, and the grass, so the radio listener listens with little appreciation of "the God-given curiosity of the toiling experimenter and the constructive fantasy of the technical inventor," as Professor Einstein remarked.

186,000 Miles in a Second.

HOW many of the millions in the radio audience ever pause to think that the radio music is reaching them at the speed of sunlight, 186,000 miles in a second! That millions of tiny specks of electricity called electrons are jumping around inside their valves in an effort to assist in the entertainment; that the ether or whatever it may be occupies all space; that while the listener is in tune with WEAJ the music of hundreds of other stations, of WABC, WJZ, or WOR, is shooting through the walls of their homes, right through their own bodies in the twinkle of an eye with apparently no effect on the human system.

It has been calculated that the electrons leaving the filament of a valve leap at the rate of approximately 50,000 miles in a second. To-day this is of little interest to the radio listener. He wants to hear entertainment, but he cares little or nothing about the antenna, the ground, or what purpose they serve in the life and performance of a radio set. The programme is what counts.



... Bethlehem ...

O! little town of Bethlehem,
Our thoughts go undismayed
Across the wilderness of years
Beyond the tumult and the tears
To thy refreshing shade.

O! bounteous love of Bethlehem,
Fill all our hearts to-day
With kindness that shall sweeten life
Amid the struggle and the strife.
As we the voice obey.

O! hallowed Town of Bethlehem,
In consolation sweet,
Inspire with courage, give new strength
To all who travel down the length
Of Life's long, busy street.

So, memories of Bethlehem
Shall tenderly enfold
As, wondering by the ancient shrine,
We bend before the Child Divine,
As did the Kings of old.

—JOHN STORM.

KNOW the time all over the world
with a
DX Clock. 9d. each.

Our D.X. Club

Identification Wanted

STATION on a frequency near that of 2YB (dial readings 10.0 and 24.0), with dials reading 10.0 and 23.0. On December 15, at 10.45 p.m., I heard a bugle call and band music. At 10.55 the "Last Post" on bugle, followed by singing of "Tipperary" by soldiers. 11.00 p.m. "Abide With Me" played by band, followed by order, "Stand at Ease," and beating of drums. More orders and drums followed. I was getting a good deal of static and couldn't get the announcement, but at the end heard what appeared to be "BC, Brisbane or Gisborne.

[Probably 4BC, Brisbane, 233 metres (1290 k.c.).—Ed.]

Another station heard on same date at fair speaker strength. Items heard (gramophone records): 10.20 p.m., "Tiptoe Thru' the Tulips"; 10.22 p.m., "Sunny-side Up"; 10.25 p.m., "Singin' in the Bath-tub." Announcer's voice was drowned by static, but call-sign was always preceded by "Hullo, hullo." Dial readings 13.5 and 23.5. Closed down at 10.40 p.m.—"Jacon-seck" (Christchurch).

WHAT station operates on approx. 6WF, Perth's, frequency? Would it be KPO, San Francisco? He was broadcasting what sounded like either a hockey or football match. Time, about 10.30 p.m. on December 9.—"Willie" (Timaru).

KNOW the time all over the world with a
DX Clock.
9d. Each.

D.X. Topics

A New B Class Station.

I RECEIVED 2ZU, Dannevirke, on December 13 at 8.25 p.m. between 2ZM and 1ZB. Volume moderate, fading bad.—"Clemates" (Raurimu).

News from KGMB.

I HAVE received verification from KGMB offering me the use of his station for purposes of education and for the bettering of public speaking, etc., but not for abusive use or for political means! His station is situated on the beach at Waikiki in the Alexander Young Hotel, of which some photos were sent. He also asked me for photos of Timaru and information about New Zealand. I sent him some views of Timaru and a copy of the "Radio Record," and asked him for a copy of their programme newspaper.—"Willie" (Timaru).

[Yes, we would be pleased to receive any interesting literature and photos, etc. Everything will be returned.—Ed.]

A Wireless Unemployment Appeal

A NEW use of wireless for practical purposes has recently been found at Ottawa, where the Ontario unemployment service has been broadcasting weekly appeals for jobs for the workers. Leading business men are contributing brief talks on the problem, and the unemployment bureau remains open during the broadcasts to take any telephone calls which might result from the broadcasts.

Our Mailbag

Christmas Music.

IT was with feelings of very keen enjoyment that we listened to the broadcasting of "Handel's Messiah," which was rendered by the Lower Hutt Methodist Church Choir on December 7. Although fading occurred several times during the performance, the solos and choruses came through very distinct, and the choir and orchestra deserve great credit for their effort. Now that Christmas is here, we sincerely hope that the R.B.C. will give us some more of this very fine music, which gives enjoyment to such a large number of listeners.—"Nine-valve" (North Auckland).

Radio Advertising in Germany

Under Strict Control

THROUGHOUT Germany radio is being utilised for advertising purposes, though the amount permitted is strictly controlled. Only thirty minutes of the entire day at each station is devoted to the purpose of exploitation, this taking the form of business information, hints to listeners, the quotation of prices, and industrial news.

The Post Office authorities, in cooperation with private companies, are in charge of the management of the broadcasting system. Programme material is prepared by the former, while the technical administration lies in the hands of the Government.

Wireless Direction Finder

Again Proves Its Worth

THE Marconi direction finder played a valuable part in accurately indicating a distressed ship's position when a Swedish motor-vessel caught fire recently on the Brazilian coast. Her wireless distress calls brought immediate reply from the liner Vandyck, which was 45 miles south of the position given in the distress call, but proved to be 70 miles from the actual position of the ship.

The position given was regarded as doubtful by the Vandyck, and full reliance was placed on the ability of the direction finder to determine accurately the bearing of the distressed vessel. After steaming more than half an hour from the time of receiving the distress call, a further message was received from the Swedish ship that assistance was no longer required, but this in turn was cancelled by a further urgent request for help. Once again the Vandyck turned to the rescue, and the direction finder was constantly used to verify the bearing of the Swedish ship.

When eventually the direction finder bearings brought her into sight dead ahead the inaccuracy of the position originally given was proved.

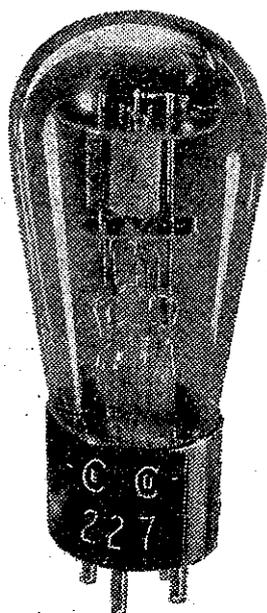
HAVE you renewed your subscription to the—

"Radio Record and Electric Home Journal"?

12/6 in Advance; 15/- Booked.
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30-50% Better tone ..

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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.

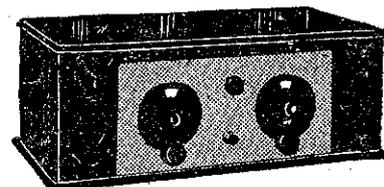
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Write to-day for free booklet "X."
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Price of Kit, with full instructions and diagrams for construction,

£6

Or complete with Speaker, Valves, and Batteries (no cabinet or aerial)—

£13/12/-

Purchase a Lissen Screen-Grid Three Kit Set from your nearest radio dealer, and in two or three hours you can build a receiver that anyone would be proud to own.

It costs so little, and is so easy to assemble, yet its results will give you reception to rival ANY set. New Zealand, Australia, and Japan can be received with wonderful strength and volume on the loud speaker.

See your radio dealer to-day, and get full particulars. If you have any difficulty write to the

New Zealand Distributors: **ABEL, SMEETON LTD.**—27-29, Customs St. E., AUCKLAND.

LISSEN SCREEN-GRID THREE

Short-wave Notes

Trans-Pacific Telephone Service.

A RADIO-PHONE service between America and Manila, Philippine Islands, was opened last month. KBK, the Manila terminal, was operating on 31 and 25 metres from Radio Manila, and was picked up by KEV, the American terminal, at Bolinas, California, and placed on the local network from there. KEV was operating on 29 metres. The opening transmission (on November 26) was rebroadcast by KZRM, the Manila broadcast station on 485 metres, and by KIXR, the short-wave sister station.

NRH Again.

IN another letter just received from Senor Amando Cespedes Marin, he reports that his little NRH, with only 7 1/2 watts, has now been reported as having been heard in Australia, which is his best DX, New Zealand being the best prior to this.

Reception During the Week.

AS it was necessary to write these notes much earlier in the week than usual on account of the holidays, only a brief summary is given. Reception generally is still about the same as the past few weeks, the regular stations being received about the same strength. I have not yet heard 3RO, Rome, on 80 metres since changing from their lower wavelength. The station reported as possibly W9XF each morning about 6 a.m. is still unidentified, but I do not think it is an American.

VE9CL, Winnipeg, 48.5 metres, was heard again on Wednesday at about 6 p.m., when a relay from a theatre at Winnipeg was transmitted. Reception was spoiled by static and local interference.

On about 31 metres, a station was heard on Wednesday evening at R9 with musical items, news and at intervals calling "Hullo, Discovery." This was probably an Australian, 2ME or 3ME, but no call was heard while I listened to them.

On 30.1 metres (about), on Tuesday at 7.35 a.m., a station was calling "Hullo, Buenos Aires" repeatedly at R6. No call, or anything else was heard.

NRH, Heredia, Costa Rica, 30.5 metres, was picked up on Sunday at

A Boon and Companion it will prove to be throughout the coming Year.

MACK'S FAMOUS ADD-A-PHONE

Its small size permits you to carry it with you on your holidays WHEREVER YOU MAY GO

And always prove AN EFFICIENT LITTLE SET WITH A WORLD-WIDE RADIUS

For Reception. Yes Sir! It's New Zealand-made—that makes you.

So Wire, Write, Ring or Call MACK'S RADIO SERVICE,

76-77 Kent Terrace, Wellington. Phone 23-448.



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.

3.45 p.m. at R4. The call, NRH, was all that could be understood of his talk. At 4 p.m. a familiar American tune was transmitted. The station went off the air at 4.7 p.m.

The writer of these notes is always glad to hear from any reader at any time. News of reception not reported here (it is impossible for one listener

to hear but a small fraction of what is "on the air," some good reception or a new station may be missed through listening to something else, or, perhaps, giving the dials a rest) and notes on reception in other districts and countries, which often vary considerably from Wellington are welcomed. With best wishes for the festive season and better DX for the coming year.

American Short-Wave Stations

The Latest Listings

MR. RAYMOND M. BELL, State College, Penna., U.S.A., who is a very keen short-wave listener, has kindly forwarded a revised, up-to-date list of American and Canadian short-wave stations, with the schedules of each, together with the broadcast station whose programmes they transmit. The hours given are New Zealand summer time:—

- W9XF—WENE, Chicago, 49.83 metres. Mon., 4 a.m.-6.30 a.m.; 9.30 a.m.-12 noon; 2 p.m.-7 p.m. Tue., Wed., Thur., Fri. and Sat., 4.15 a.m.-5.45 a.m.; 9.30 a.m.-1 p.m.; 2.30-7 p.m. Sun., 4.15 a.m.-5.45 a.m.; 9.30 a.m.-1 p.m.; 6 p.m.-8 p.m.
- W2XAL—WRNY, New York, 49.67 metres. Mon., 9.30 a.m.-12.30 p.m.; Tue., Wed., Fri. and Sun., 2.30 a.m.-6.30 a.m. Tue., 10.30 a.m.-2 p.m.; Wed., 10.30 a.m.-4 p.m.; Fri., 2.30 p.m.-4.30 p.m. Sat., 8.30 a.m.-2 p.m.; Sun., 1 p.m.-4.30 p.m.
- W8XAL—WLW, Cincinnati, 49.50 metres. Daily, 11.30 p.m.-3.30 a.m.; 6 a.m.-9 a.m.; 11 a.m.-6.30 p.m.
- W3XAU—WCAU, Philadelphia, 49.50 and/or 31.28 metres. Daily, 12noon-5 p.m.
- W9XAA—WCFL, Chicago, 49.34 metres. Mon., 4 a.m.-6 a.m.; 10 a.m.-1 p.m.; daily except Monday, 12 p.m.-2 a.m.; 12 noon-3 p.m.

- VE9GW—CKGW, Toronto, 49.22 metres. Daily, 11.45 p.m.-5 a.m.; 9 a.m.-5 p.m.
- W3XAL—WJZ, New York, 49.18 metres. Daily except Monday, 10 a.m.-11 a.m.; 3 p.m.-6 p.m.
- W2XE—WABC, New York, 49.02 metres. Daily, 12 noon-6 p.m.
- W8XK—KDKA, Pittsburgh, 48.86 metres. Thur. and Sun., 10 a.m.-5 p.m.
- VE9CL—CJRW, Winnipeg, 48.5 metres. Daily, 10.30 a.m.-1.30 p.m.
- W2XAF—WGY, Schenectady, 31.48 metres. Daily, 10.30 a.m.-4 p.m.
- W1XAZ—WBA, Springfield (Mass.), 31.35 metres; WBZA, Boston. (All three have same programme.) Daily, 12.30 a.m.-5 p.m.
- LSX, Transradio, Buenos Aires, 28.98 metres. Daily, 1 p.m.-3 p.m.
- W8XK—KDKA, Pittsburgh, 25.25 metres. Daily, 5 a.m.-3 p.m.
- XDA, Mexico, 20.5 metres. Daily, 7.30 a.m.-8 a.m.
- W8XK—KDKA, Pittsburgh, 19.72 metres. Thursday and Sunday, 1 a.m.-5 a.m.
- W2XAD—WGY, Schenectady, 19.56 metres. Daily except Sun., 6 a.m.-8 a.m.

A list of television stations, with schedules, are also given, but don't think it much use for New Zealand listeners. Five stations are given, each with daily, and some twice-a-day

programmes. Wavelength ranges from 108.44 to 146.34 metres. Mr. Bell gives the Buenos Aires station the call LSX. Mr. Sessions, U.S.A., wrote recently giving it as LSS. The International Short Wave Club's journal give it both LSH and LSN in different parts of the paper, so the last letter may be anything; it certainly sounds like H to me.

Overloading the Radio Stage

A COMMON fault in these days of powerful locals is the overloading of the first valve in the set. Many listeners possess efficient aerials and powerful receivers, and when wanting a local programme tune full in to the station. In all probability, when a signal of such strength is supplied to the first valve, a screen-grid, for example, either grid current flows or anode rectification takes place. Distortion is, therefore, introduced in the first stage, even though the volume control is turned down to soften the output.

The latter statement appears to be a contradiction, but is nevertheless true, as most types of volume control do not stop this form of overloading, as they are associated with the first valve, instead of with the aerial or grid circuit. An effective way of surmounting the difficulty is to reduce the length of the aerial or fit a condenser in the aerial circuit for the purpose of reducing the input. Easier still, take off the aerial.

Wrongly-connected "A" Supply

AN easily-made mistake, but one fortunately without serious consequences, is the connecting of an A battery to the set with polarity reversed. In a set having a screen-grid valve the mistake is usually noticed immediately because of the loss in amplification. The tuning is broadened, also, and the reaction control may seem to act differently.

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 For the Operation of A.C. Electrical Apparatus in D.C. Areas.
 Compact, Trouble-free, Filtered Type for Radio use—No Hum.
 32-volt type for Delco Lighting Plants for A.C. Radio Sets
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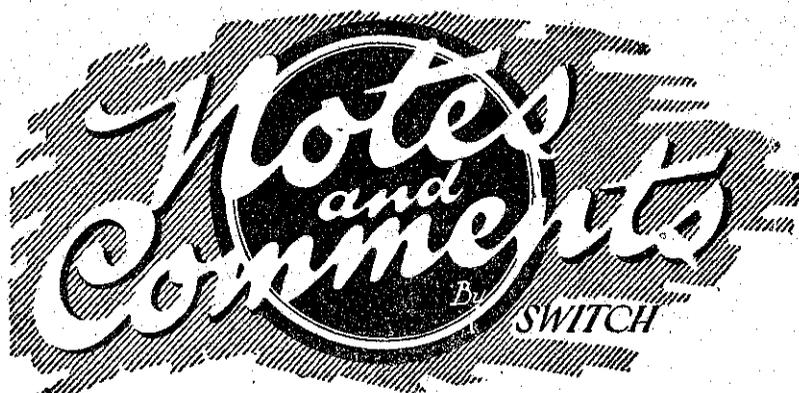
THE Wellington Pioneer Club's singing circle, which gave a concert from 2YA recently, merits a special word of praise. The solos, trios and quartets sounded delightful over the air.

4YA has been coming in with plenty of vigour lately, and has shown little inclination to fading or distortion. 1YA has also been at its peak of late. 3YA has always given Wellington as much volume as could be desired night or day. In the daytime 3YA, as usual, comes in at Wellington without the slightest symptom of fading.

"TRAMPER" (Lower Hutt) writes: "Mention was made in your column recently of the advantage of using homing pigeons when search parties go looking for lost trappers. A radio transmitter is far too heavy to be packed over rough tracks, but the wonder is that the search parties have not used pigeons more than has been the case. In the Wellington district there are many homing pigeon fanciers who would gladly lend their birds."

A BEGINNER asked "Switch" recently why he did not hear any static when he tuned in to the local broadcast station. The explanation given was that the greater the sensitivity of a receiving set the more static it brought. To tune in the local station the sensitivity of the set is reduced to a minimum, thus rendering static inaudible. If the sensitivity of the set were increased to the maximum for the local station, reception from that station would be so loud as to overwhelm the static excepting when static is particularly bad.

RECENTLY a short-wave broadcast from London and rebroadcast throughout America by the Columbia network of stations included a talk



directly to the American people by George Bernard Shaw. Hitherto Shaw had curtly refused all invitations either to visit America or address Americans by radio, declaring he had nothing sufficiently important to say on a subject which not only would interest Americans but would interest Shaw! Professor Einstein, author of the relativity theory, was also heard speaking at a dinner at the Savoy Hotel, London, given by the joint British committee for the promotion of physical and economic welfare of Eastern Jews.

AN Island Bay correspondent, "Spider," says: "The other night when there was a steady rain I found reception had dropped considerably in audibility, and I could not account for it. Next morning I made an examination of my aerial and found that spiders had woven a heavy festoon around my lead-in wire and insulated tube where it enters the window. It occurred to me that the rain running down the lead-in wire poured over the cobweb and then ran down the side of the house, offering an easy path to earth for the radio-frequency current. I removed the cobweb and when rain fell again reception was excellent. I pass the hint along to your readers." Verb. Sap!

A S.M. (City) wants to know whether something cannot be done to move the frequencies of three or four Japanese stations which are close to 2BL, 3LO, and 4QG. "A.S.M." is evidently of recent vintage as a listener, as the trouble caused by the Japanese stations has persisted for five or six years. "Switch" wrote to the Japanese Broadcasting Company three or four years ago, reporting the position, but

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	9
4QG, Brisbane	8
2GB, Sydney	7½
3LO, Melbourne	4½
2UE, Sydney	3
3AE, Melbourne	3
3UZ, Melbourne	3
3DB, Melbourne	3
7ZL, Hobart	1
5CL, Adelaide	1
6WF, Perth	1
2KY, Sydney	1

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

Reception has decreased from 40 to 50 per cent. as compared with midwinter reception.

the reply stated that the Japanese Government would not agree to any alteration in wavelengths. This sort of trouble was minimised in Europe by an international broadcasting conference at Geneva.

"SWITCH" has been asked to assess the decrease in volume of the Australian stations as heard in Wellington at the present period (mid-summer) as compared with mid-winter, at 11.30 p.m., New Zealand daylight-saving time. Two influences are at work at the present time which make for a greatly decreased volume in reception of these stations. They are the added half-hour difference in time and the extended daylight effect due to the lengthened days of midsummer. "Switch" estimates the decrease in volume at about 40 to 50 per cent. 5CL, Adelaide, and 7ZL,

Hobart, have decreased 50 per cent., but the Japanese stations have been coming in with greatly increased volume lately.

FROM the Chicago "Herald-Examiner" radio page comes the following:—

"Question: Is it true that colder weather brings clearer radio reception?"
"Answer: Yes; there is practically no atmospheric static in the winter. Also, the ether seems to transmit signals much more efficiently, enabling fans to tune for distance with more certainty."

Fortunate Yankees! Here in New Zealand we get a considerable amount of static in the winter, although long-distance reception of Australian stations is much louder than in summer, but the earlier abatement of daylight effect, due to the shorter days, and the elimination of the daylight-saving half-hour are the main factors in securing better reception from Australia in the winter.

FOR the first time in the history of broadcasting in this part of the world, individual subscriptions to a national loan were notified to the various A class stations when the recent Commonwealth loan was being raised. The Australian A class stations had special telephones set apart for those subscribers who desired to record their purchases of bonds and to have their names and the amounts subscribed put on the air. The record was broken when 2FC, Sydney, announced that a £10 bond had been purchased for an infant only 2 hours old!

THOSE listeners who tune-in the Australian stations late at night must have been surprised at the clarity of the relays by 4QG, Brisbane, of the talks given at 5CL, Adelaide, on the Australia v. West Indies Test cricket match. The link-up of 4QG, Brisbane and 5CL, Adelaide, involved the use of something like 1500 miles of land line. There was, of course, a little hum on the line, and other parasitic noises, but the voice level was well above that of line noises. Stations in Melbourne and Sydney were also linked up, but 4QG was quite as clear as the intermediate stations.

IT seems certain now that an Empire short-wave broadcast station is to be established in England. A Press cable has gone so far as to announce that the news service will be purchased and broadcast three times daily. This should overcome the difficulty with regard to the differences in time of this "far-flung Empire." Doubtless the station will be of a much greater power than the existing 5SW, Chelmsford, and the YA stations will have a better chance of rebroadcasting.

LOOKING back through his "log" of five years ago "Switch" noticed that on May 2, 1925, 2FC, Sydney, broadcast a lecture by the New Zealand Government Agency in Sydney entitled "A Travelogue on New Zealand." It was put on the air by 2FC just before 8 o'clock. The use of broadcasting for enticing Australians to spend their holidays in New Zealand should not be lost sight of by the present regime.

DE FORREST VALVES

"Made by the man who invented Broadcasting"

The right selection of radio valves makes an amazing difference in the pleasure you get from radio.

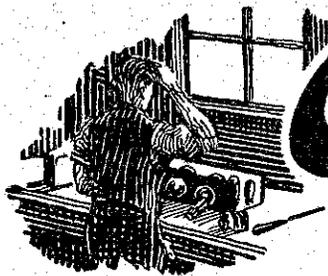
De Forest Audions have set the world standard for 24 years. They are made in the laboratories of Dr. Lee De Forest, inventor of the first radio valve.

Write for descriptive Leaflets.

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Factory Agents.



Questions and Answers



"LIGHT" (Christchurch): The primary of my L.W. power transformer has a break in it, but the secondary and filament wires are intact. Could I wind another primary on the outside?

A.: Another primary on the outside will in all probability not be satisfactory. In our laboratory experiments burnt out

primaries are quite common, and we find the best way is to remove all iron and lift off the spool end. It will be found that if care is taken they will come away quite easily without wires dropping. The primary then can be pulled out; another one can be carefully wound and slipped back in the place of the defective one. It is not necessary to place the spool ends back on the transformer again. Battery compound or wax can be run over the wires to protect them. This operation is not a delicate one, although it requires a reasonable amount of care. We have done it many times, and never had a failure.

2. Can the secondary of the transformer be used as an output choke?

A.: It could, but it would have a low inductance.

"DIE-HARD" (Seddonville): What is the best valve combination for my set?

A.: Four 221's or 201A's, and one semi-high gain power valve of the B605 or UX 112A type.

2. I cannot get any station before 8 p.m., and there is a continuous crackling in the set.

A.: This sounds like a defective transformer. Have these tested (you could do it yourself by the phones and cell method, so frequently described in these columns). Try another grid-leak and tug the joints for dry or loose connections.

M. E. (Nelson): I have connected the wire from the Daniells cell charger and the lead to the set to the same battery clip. Am I not putting excess voltage on my valves?

A.: There should be two wires from the charger and two from the battery. As we pointed out before, this excess voltage is cut down by the parallel battery. However, if you do not feel too sure about the connections take an ordinary torch bulb and connect one wire to the screw thread and one to the soldered tip. Place these across the filament terminals of one of the sockets and remove all the valves. Now turn on your set. If the torch bulb is the same voltage as your valves on 1/2-volt below, it should light brightly, but if you have excess voltage it will burn out. In practice we have found that the charger does not affect the voltage of the set. However, it will be an easy matter to borrow a voltmeter.

2. If I have to connect the wire from the charger separately how am I to connect it to the terminals? There is no room for another battery clip so far as I can see.

A.: There is no need for the extra room if you want to connect the battery charger when the set is not operating. Take off the clips from the set and put the clips of the charger on the terminals to which the set clips were attached.

3. Would it keep my 30 amp. accumulator fully charged if I disconnected it when the set is working? It consumes just over one-fourth of an amp.—Yes.

4. When I turn the set on there is a loud roaring noise which continues when the aerial was disconnected. In a short time this cleared up. Would this be the result of adding fresh bluestone to the charger?

A.: It is most unlikely that that was the cause, but without further particulars it would be impossible to say. If it has stopped the cause is now immaterial.

O. C. (Mataura): Can a pick-up and short-wave adapter be added to my six-valve set?

A.: Yes; the pick-up can be taken in at the detector valve by using a special adapter, if special pick-up terminals are not provided. Short-wave adapter either of the super-het. type described a little time back or the type that is going to be described in the 1931 "Guide" would be suitable.

G. M. (Auckland): My four-valve B.D. works better by reversing the wiring to B- and A+ and by placing a .001 condenser across the primary of the first audio and the by-pass condenser of .1 mfd. from B+ r.f. to A+.

Does the set use more B battery this way? A.: Providing your set is working well you are not bringing any trouble upon yourself. It will not use more B battery by making the alterations you suggest, as they are quite in order.

Note: We looked in your letter quite a long time for a coupon, but could not find one. We presume it dropped out in the post.

"SIMPLEX" (N. Auckland): What is the number of r.p.m. of talkie sound discs?—33.1/3.

2. What is the correct film footage per minute per revolution of the disc?

A.: There cannot be a film footage per minute per revolution. The normal speed is 90 feet per minute. Film footage per revolution would be this number divided by 33 1/3.

3. What is the correct gear ratio to give me correct disc speed?

A.: There are too many factors, depending on your equipment, for us to discuss this. Your best plan would be to study the periodical "Projection Engineering." You should be able to obtain a copy from the Te Aro Book Depot.

F. W. (Hamilton): I have an electric receiver which uses the mains for an aerial. Every time a switch is turned on or the automatic telephone rings a buzz comes through. What can I do?

A.: The best plan would be to use a separate aerial and earth. This would probably get over most of your trouble. Probably a very impromptu aerial, such as the spring mattress of a bed, would be sufficient.

2. There is a welding plant in the vicinity. Would this cause a continual click followed every two or three minutes by a harsh grating sound?

A.: It sounds very much like it, and it would not be a bad idea to see if anyone in that vicinity suffers with it. If anyone in the locality of the Waikato Hospital, Hamilton, should read this note and has any comments to pass about any similar interference we would be only too pleased to publish it for your benefit.

W. M. (Otorohanga): Tuning in my six-valve set is very flat. Could I use a better valve combination? I am using a 201A in all stages except detector, in which I am using a PM.6.

A.: Are you sure your PM.6 is not in the power stage, for that is where it should be? Trace out the wiring from the plate and it should go to the speaker, or, better still, if you cannot recognise the plate wire, trace back from your speaker terminals and you will find one goes to the B battery and one goes to the power valve. This should be PM.6, with a bias of about 9 volts. How-

N.Z.'S OWN RADIO BOOKSHOP

The TE ARO BOOK DEPOT, Wellington.

At Last We Have It.—"Wireless, the Modern Magic Carpet," by Ralph Stranger. 4/9 posted. Simple language anyone can follow.

"Handy's Handbook," 7th edition, 5/3 posted.

"Theory of Radio Communication," by Filgate, 12/-.

"Principles of Radio Communication," by Morecroft, 41/6.

"Direction Finding," by Keen, 27/-.

"Radio Data Charts," by Beatty, 7/6.

"Seeing by Wireless" (Television), by Ralph Stranger, 1/6.

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

"Radio Trouble Finder," 1/10.

(Published by "Radio News" Co.)

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

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

"Radio Engineering," (a monthly), 21/- per annum.

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

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

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

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

Also all leading English, American and Australian wireless magazines.

Mr. F. W. Sellens' list of Shortwave Broadcasting Stations, 7d.

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

"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).

Blue prints and complete instructions on following—1/9 each:—

- 7-Valve Super-Het,
- 6-Valve Neutrodyne,
- 5-Valve Neutrodyne,
- Batteryless Neutrodyne,
- Selective Crystal Set, 2-stage Audio Simple Wave Trap and Clarifier,
- 14-foot Step-plane,
- 10-foot Outboard Speedster,
- 16-foot Sailing Canoe,

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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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ever, for quality PM256 would be better. It would need a higher bias. You cannot do much to improve the flat tuning, but you could try a formo-densar in series with the aerial, varying the capacity for the best effect.

2. Could you recommend any correspondence school or person who would give me a little practical instruction in radio, and is there any book on sale which would explain the radio terms?

A.: You could receive instruction from Johnson's Wireless School, Wellington, and you would find the "Radio Listeners' Guide" a good help for learning the terms. The 1931 publication is on the way now.

"FAIRY" (Palmerston North): Results are disappointing when my four-valve B.D. set is used with an inductor dynamic speaker. A horn speaker goes splendidly with easily twice as much volume.

A.: Have you had the inductor dynamic speaker and your own tested on another set? The comparison should be interesting and will tell you more than you can find out by experimenting with your own set.

2. Will the baffle 2ft. 9in. x 2ft. have anything to do with the efficiency?

A.: No, the tone will be affected slightly, but that is all. The baffle is quite efficient.

3. Are 90 volts sufficient?
A.: No; to get the best of tone from the inductor dynamic you need 125 volts at the least.

NOTE.—"I am quite agreeable to wait a week or so if you have a large batch of inquiries," says our correspondent. Thank you very much. We wish

all our correspondents would adopt the same attitude. Quite a number get quite annoyed if they do not receive an answer in a week when, especially at this time of the year, replies are likely to be held up.

"RADIO-STUTTERS" (Southland). The speaker appears to stutter, but the eliminator still hums and I get a squeal from the grid-leak when touched. If I turn the set off and then on again it goes all right for a while, and then repeats the performance. It goes quite satisfactorily at night.

A.: We cannot understand why it should go all right at night and not during the day. On the surface the trouble appears to be in the radio stages. It may be a fault in the radio plugging from your eliminator. Possibly there is a broken down or defective condenser there. Concentrate upon the radio frequency stages and look for defective or dry joints, loose connections, valve pins not making proper contact. Try bringing the aerial into the grid of the grid-leak. If this set works satisfactorily in this division, then the trouble is definitely in the radio stages.

G. T.C. (Wellington): What is your opinion of the enclosed circuit?

A.: We cannot tell; you have sent the theoretical diagram but not the layout. If you want a real good set build the Differential One or Two, which we will be describing this and next week.

2. Will a five to one and a three to one transformer be satisfactory?

A.: Yes; use the five to one for the last stage.

3. Would the valves be satisfactory, two L210, and P215?—Yes.

4. What would be the resistances in ohms?

A.: Which resistances? If the impedances of the valves L210 is 12,000 and P215, 5000.

J. E.W. (Lower Hutt): What power pack voltage is needed to supply the L.W. with two 245 valves in parallel?

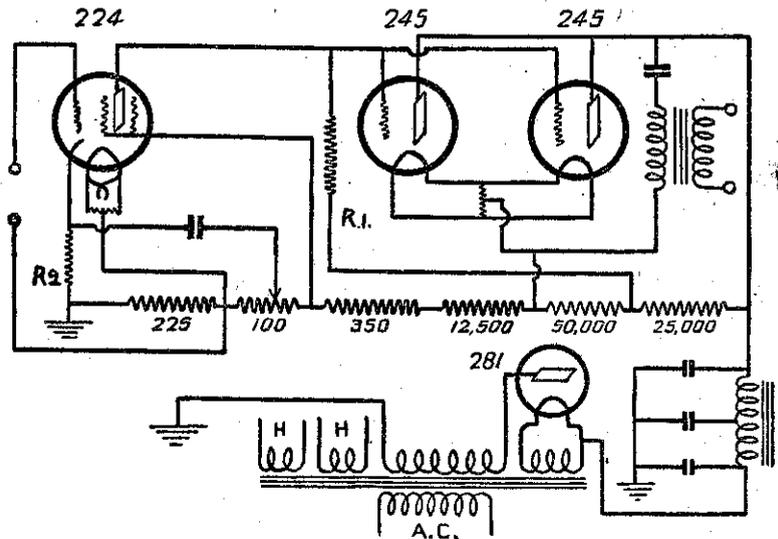
A.: The same as for a single 245, that is 425 volts, but your power pack must be capable of supplying 60 mamps.

2. What is the actual voltage on the plates of the 245's after allowing for the voltage drop to the 245?

A.: We had quite a good deal to say about this when we were describing the "Home-made Three" in our issue of December 6 last year. From this description you should be able to manufacture your resistances without any difficulty.

R. H. (Avondale): I submit a sketch of two alternate situations for an aerial. Which do you think would be the better?

A.: The second aerial (the one you have marked "D"). It is more direct and does not pass over the house. Furthermore, your lead-in would be shorter.



Amended diagram of parallel output for 245 valves in the Loftin-White amplifier. The bucking condenser has a capacity of 1 mfd.

A.: There are 250 volts or thereabouts on the plate of the 245's, and 180 on the screen grid plate.

3. Could I use Ferranti wire wound resistances so long as they were of the value specified?

A.: Yes, providing they will pass 60 mamps.

4. Should there be a condenser between the arm of the potentiometer and the cathode of the screen-grid valve?

A.: Yes; it was inadvertently missed out by our draughtsman. It is the same as for the single 245 output valve.

5. What is the value of the blocking condenser in the primary lead of the output transformer?

A.: 2 mfd.

6. I take it that the parallel circuit is quite safe to build and is practical and not theoretical?

A.: It is perfectly safe, for it is practical as well as theoretical.

"DENTACOLL" (Dunedin): I am troubled with crackling in my set, and I have tried almost everything, including changing the transformer to eliminator. This occurs when the aerial and the earth is not being used. I am using a home-built eliminator.

A.: You seem to have tackled all the usual troubles and we are really at a loss to give you any help. The C battery could cause the trouble, and we presume you have tried replacement. Furthermore, the first stage jack is not past giving trouble. Cut it out of the circuit altogether and then try it. The C—voltage should not be equal on both valves. Try the eliminator on another set. It may be a troublesome condenser in that. Failing all these, rebuild the set along modern lines. It is really very old-fashioned.

2. What six-volt valves should I use?

A.: Use a g.p. valve in the r.f. and first a.f. stages, a special detector, and a power valve of the 605 type.

"RADIO" (Shannon): I wish to construct temporary resistances in cardboard. Could you give me the dimensions?

2. I have not been able to get any Australian stations yet.

A.: You have not stated the type of set you are using. In any case Australian stations are very weak at the time. They cannot be picked up until very late at night, and even then they are not very satisfactory.

3. What is the significance of the dial numbers?

A.: They are only degrees of a circle, and have no connection with the frequency or wavelength.

4. My set has a tendency to whistle or growl.

A.: If this is the case you should contact the dealer from whom you bought it. Some commercial sets will do this if forced, but it should not be strong enough to interfere with the tuning.

5. Is there any literature available on the number of stations and their whereabouts, and what is the best radio book for a beginner to buy?

A.: You will find the "Listeners' Guide" is an excellent publication on both these scores. The 1930 has been sold out, and the 1931 is in preparation. It should be out in the beginning of April.

6. Should the aerial be continuous to the set or the lead-in soldered to the aerial?

A.: It would be better continuous.

A. B. (Wellington): Where can I obtain a copy of the R.R. of March 7?

A.: If you cannot get one from a book-stall you can get it from our office.

2. I have built R. the W. Three, but I can only pick up two American stations.

A.: You should be able to do better than this as most of our correspondents have been able to get a very wide range. Try increasing the detector or use another valve in this position. Try the effect of a higher grid-leak.

3. I am about three hundred yards from a very high hill. Would this cause poor reception of American stations?

A.: In all probability, yes. Hills have peculiar effects upon reception, and one

RADIO DIRECTORY

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- ACE and HAMMARLUND SETS,** Johns, Ltd.
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- KING RADIO RECEIVERS** ... F. J. W. Fear & Co.,
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- LOFTIN-WHITE AMPLIFIERS** Stewart Hardware Ltd.,
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- MAJESTIC RADIO RECEIVERS** Kirkcaldie & Stains,
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- MULLARD VALVES** All Radio Dealers.
- PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and AT-WATER KENT SETS** Harrington's, N.Z., Ltd.,
138-140 Queen St., Auckland.
40-42 Willis St., Wellington.
- RADIOLA RECEIVERS and Expert Radiola Service.** Farmers' Trading Co., Ltd.,
Hobson Street. Auckland.
- STEINITE RADIO** G. G. Macquarrie, Ltd.,
120 Willis St., Wellington.

COUNTRY TOWNS

- MAJESTIC** Radio House, Hamilton,
G. S. Anchor. Manager.
- PHILIPS VALVES AND APPARATUS** All Good Radio Dealers.

not infrequently finds that a shadow can be cast right across the aerial to completely spoil reception of stations in the shielded direction.

"REACTION" (Nelson): Will the iron I have on hand, the dimensions of which I give, be suitable for a small audio choke? How many turns of 40 or 36 gauge wire will be used?

A.: Use 40 gauge and you will require about 3/5lb. The gap should be about .03. Wind on all this wire, which should take up most of the space available. Actually you need about 15,000 turns.

2. What is the dielectric constant of paraffin paper of medium weight? Will it stand 150 volts?

A.: Dielectric constant 2 to 2.5. It should stand 150 volts.

"NORTH-WEST" (Rawene): We cannot get any result when the short-wave adapter is plugged into the second valve socket of my 1926 model H.R.

A.: There is probably something wrong with your adapter because the plug-in to the valve socket should act quite well. It would not be a bad plan to have your set brought up to date.

2. Why do we have space-wound coils for both long and short wave?

A.: These are really most efficient coils though the modern practice is to make them smaller and sacrifice some of the efficiency for the sake of neatness and convenience. Valves now are more efficient than they were in those days, consequently a little loss in the coils can be tolerated.

3. Would a small coil be used to tune the adapter in a similar way to the one in the broadcast set? If so, what are the specifications?

A.: We cannot quite see the point of your question. The adapter should have a set of short-wave coils which are plugged in according to the waveband required. There should be no need to interfere with the broadcast coils.

4. Would the distance between coils required to be altered for the different wavebands?—No.

"PAROLE" (Oamaru).—Does a sagging aerial affect results?

A.: Slight sagging does not have any effect upon results, but where it sags sufficiently to cause sway, artificial fading quite frequently results. It is more noticeable on short-wave.

2. My lead-in runs back from the set. Is this efficient?

A.: It would be more efficient if it ran forward under the aerial. However, it is quite a small point.

3. The earthwire is of fine copper, and is connected to the waterpipe underneath the house. Is this efficient?

A.: The wire should not be very fine; in fact, it should not be less than 14 gauge

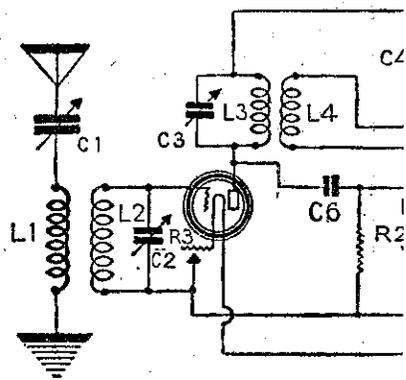
copper, or better still, stranded wire. It should be tightly affixed to the water pipe (soldered if possible), and preferably the ground round about it should be damp.

4. Occasionally there is a crackling in my set. How can it be remedied?

It may be due to interference. Remove the aerial, and see if it persists. If not, you have no control over the cause, except to let your radio inspector know. If it does, one of your valves, probably the detector, is at fault.

"EXPERIMENTER" (Nelson).—I have been saving up the following questions for the past two months. They are sixteen in number.

A.: What about sending them in every week? They would be easier for us to handle.



L1 and L2 comprise a tuned aerial circuit. L3 is a tuned primary or tuned anode.

1. Does a tuned aerial circuit consist merely of a condenser across the coil?

A.: The condenser is really across the primary coil. In its simplest form a tuned aerial circuit consists of two coils, one between the aerial and the earth (this is the primary), and the other (the secondary) close to it, but not in contact with it. It is across this secondary coil that the condenser, is usually shunted. A sketch shows a good example of a tuned aerial circuit.

2. Will thin wire be better than thick for shortwave coils?

A.: Thick wire is generally the better for shortwave, and slot-wound primaries are rarely, if ever, used.

3. How is the Beverage aerial erected and is it better than 100 feet aerial 30 feet high?

A.: Full instructions were given for this type of aerial a month or so back. For stations to which it points it is decidedly superior to the ordinary aerial.

4. What is the best soil for an earth?

A.: That question was fairly fully discussed about the middle of this year. Moist loamy earth.

5. Would an anode bend detector be better than a leaky grid for either broadcast or short-wave?

A.: The anode bend would not be suitable for short-wave, but it gives good results on broadcast.

6. Would a battery of small Leclanche cells maintain a three-valve set drawing 10 m.amps.?

A.: Yes, if you built up a battery using for central elements the manganese and carbon rod from an old torch cell you would get a battery which would keep your set charged indefinitely.

7. With my three-valve set I have received American stations on the broadcast. Can Indian stations be received in New Zealand?

A.: Yes, usually at about three o'clock in the morning.

8. If every component of a set were screened from the rest would it promote better efficiency?

A.: In a set such as yours, no.

9. If a fixed three-coil tuner with condenser reaction was totally screened would it make the reaction easier?—No.

10. Would two five to one transformers produce distortion or howl?

A.: They would produce distortion and in all probability howling. It is not

wise to use two high ratio transformers. 11. Should an ordinary two-valve amplifier with a pick-up give more volume than the average cabinet gramophone?

A.: It will give slightly improved signal strength but greatly improved tone.

12. Would a pentode in the last stage give me more volume than a 112A using the same plate voltage?

A.: Yes, but generally speaking the pentode unless properly matched is not very satisfactory. A high gain power valve would be better.

13. I have a crystal set which receives 2YA. Would a full-wave set give double the volume?

A.: It is questionable. Some full-wave sets have given excellent results, while others have been most disappointing. Generally speaking it is a dubious experiment.

14. Where can I obtain particulars about amateur transmitting?

A.: This week we are commencing a series of articles on that subject.

15. Where can I obtain the circuit of an eight-valve Tada?

A.: Try the National Electric Engineering Co., Wellington.

16. Could any other valves be used to replace the two 171A's in the above set?

A.: Not without making several alterations in the power pack.

E. W. (Raukokore).—It seems to me that with the Daniells cell charger the cells should not be connected directly to the set, as they are of higher voltage than the valve.

A.: See our reply to a previous correspondent.

2. I cannot receive any station during the day, but get good reception at night. Why?

A.: This is quite a reasonable complaint. It is caused by the sunlight. Your locality may have something to do with it.

3. I can get nothing on the low wave except a broken buzz, which I take to be Morse.

A.: This is probably Morse, and your failure to get telephony may be due either to your not having become accustomed to the set or to be detector voltage being too low. Try removing the earth when searching for shortwave stations.

4. Would you suggest a change in my valve combination?—No, it is excellent.

5. I was told that it would be improved if I added a third B battery and a half a C, but results have been inferior. The diagram shows the wiring and the alterations.

A.: We cannot understand why this is. Your diagram is correct, only it would be better to use the full 9 volts C instead of the half battery. It may be an advantage to take the connection that usually goes from 87 1/2 to 90, instead of 112.5. It may be an improvement too, to bring the lowest tapping up to 45.

"INTERFERENCE" (Blenheim): During what hours can Morse amateurs operate their transmitters, and what wavelength are they allowed?

A.: This subject will be fairly fully dealt with in a series of articles which commence this week. They can operate at any time and are confined to low wavelengths. Those who wish to go on to the broadcast wavelength must not operate during ordinary broadcast hours.

Note: Your coupon was missing.

"ENTHUSIAST" (N.P.): Could I use the super-het, short-wave adapter on my four-valve set?—Not satisfactorily.

2. Can a stage of r.f. amplification be added to the adapter?

A.: It would be a risky experiment for anyone who has not had considerable practice in experimenting.

3. Would a better method be to cut out the audio stages and add an oscillator after the detector and use this as an adapter in conjunction with a three screen-grid valve set?

A.: No, you are really looking for trouble in attempting an ambitious thing like this. Super-hets, although very

powerful, are not as easy to make as they appear, and to avoid disheartening readers we have left them alone in our columns.

"DIRECT" (Auck.): Do you know of any d.c. sets on the market?

A.: We do not happen to know of any particular makes, though it is possible that Stewart-Warner might have one.

2. Are they dependable, as I am told they are very hard on valves?

A.: It would be, almost essential to have a voltmeter across the filament supply and this would have to be watched very carefully and the voltage regulated. If this were done the set would be no harder on valves than the battery or the a.c. set.

3. What type of set would you advise me to use in the d.c. area?

A.: Either a good battery set with a B eliminator and a trickle charger, or an a.c. set with a rotary converter. Probably one of the dealers would build one of the eliminator type to order and you would operate it from the wall as you would an a.c. set. When you turned off the set the trickle charger would be turned on automatically and you would not have to worry about charging batteries. Of course both eliminator and trickle charger would have to be specially made. Another plan would be to have a d.c. set built up following out one of the circuits we published a short time back.

O. C.S. (Hamilton): Is my sketch of the Loftin Four with a 245 in the last stage correct?

A.: Yes, the amplifier end is the same as for the Loftin Three.

2. Will a 280 be satisfactory with two 245's in parallel?

A.: Yes, but an Osram U8 would stand a higher voltage and perhaps it would be safer.

3. Are two 245's as good as a single 250?—Yes.

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

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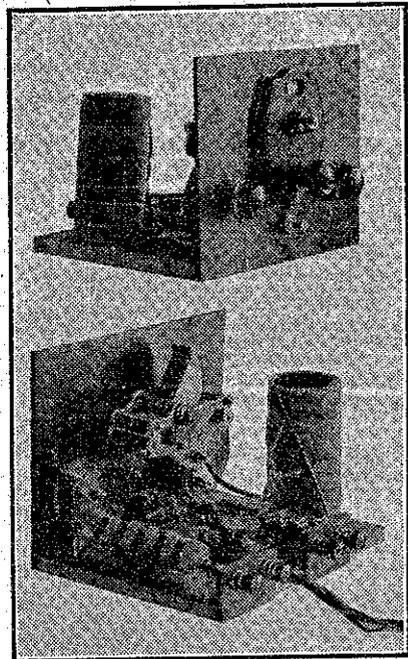
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ties if tackled all at once. It will be seen how easy is the construction of the "differential" one, and we promise the reader that the future additions will be equally easily made.

That is not all, however. If the programme is carried out in its entirety, the constructor will be possessed of a first-class four-valve receiver. He can equally well stop when he has brought it to the three-valve stage, or the two-valve stage, or he can even rest content with the one-valve set as here described; there is no better one-valver. The only thing to remember is that it is as well to decide once and for all to just what stage the receiver is to be carried, as for a three-valve version the panel and baseboard can be considerably shortened, the space left for the addition of a high-frequency stage no longer being necessary, while if only the one-valver is contemplated a still further shortening is permissible. We publish a photograph showing the layout of a one-valve set.

BEFORE commencing on the description of this receiver, there are two or three little points which should be brought prominently to the notice of the prospective constructor. The first is that the single-valve receiver now to be described is intended to form the nucleus of a larger receiver. The additions to the set will be described one at a time in future articles, so that the opportunity is offered the comparatively unskilled constructor of eventually constructing a receiver which would be beyond his capability-

The receiver is to be "all-wave." In this present article only the broadcast coil is described, but the short-wave coils will be described in due course. The difficulty of adjusting the tuning capacity to long and short bands has been surmounted by arranging a plug with alternative sockets, one of which places a fixed capacity of .0001 mfd. in series with the tuning condenser, so reducing the tuning capacity to something suitable for short-wave work. If a word of advice is permissible, we are inclined to recommend that if the receiver is to be used primarily for short-wave reception, the constructor should not trouble to add the high-frequency

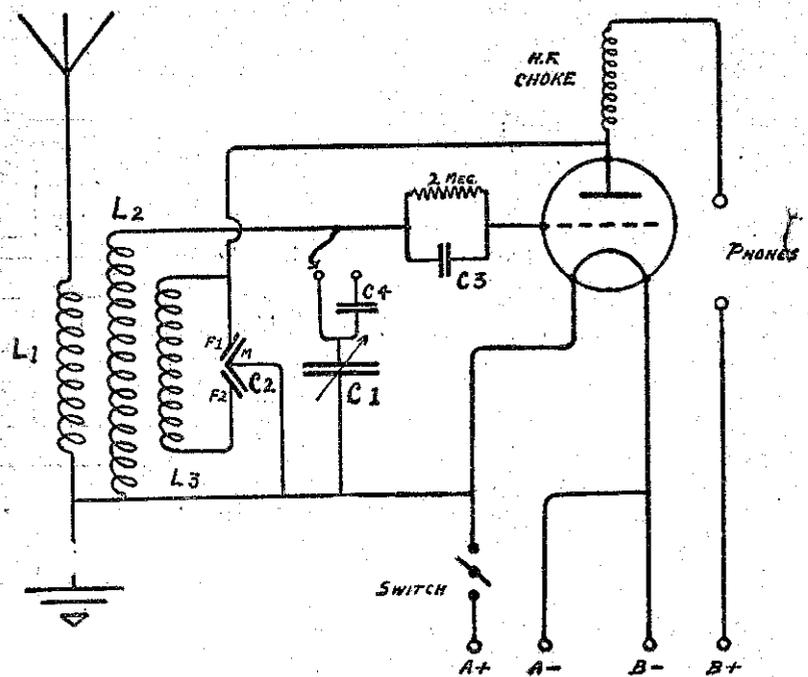


FIG. 1

- FIG. 1.
 C1. .00035 or .0005 m.f.d. Tuning Condenser.
 C2. .0001 to .00015 Differential Condenser.
 C3. .00025 m.f.d. Fixed Condenser.
 C4. .0001 m.f.d. Fixed Condenser.

stage; if, on the other hand, broadcast reception is the primary consideration then the addition of the fourth valve is well worth while.

We do not intend to infer that the four-valve version is unsuitable for short-wave reception—far from it; the only thing is that the extra valve hardly "carries its weight" at the higher frequencies.

Special Reaction Employed.

THE feature which is principally responsible for lifting this receiver out of the rack is the special form of reaction control employed. To appreciate fully the advantages of this control it is necessary to delve into ancient history a little.

Most of us remember the days of the old "swinging-coil" reaction control; this was capable of providing good signal strength apart from the difficulty of control, as this type of circuit was very sensitive indeed. Its great disadvantages were the effect the reaction control had on the tuning—a station could be tuned in or

out by this means—and the exceeding coarseness of the control.

We were then provided with the Reinartz and similar capacity-controlled reaction circuits. Once the initial difficulty of hand capacity had been overcome these were a great improvement on the older circuit. There was a certain loss in sensitivity as compared with the older circuit, however, and the tuning effect of the reaction control, though reduced sufficiently for broadcast reception, was still very pronounced in short-wave reception.

Both these drawbacks have been very largely eliminated in the present design. It has been found that the reduced sensitivity of capacity-controlled reaction as compared with the swinging-coil control is principally due to the lack of an adequate by-pass for high-frequency currents in the plate circuit of the detector. The first effort at combating this condition comprised an additional by-pass condenser which had to be of just such a size as to provide sufficient by-passing additional to the reaction condenser, yet

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not large enough to rob the reaction coil of too much of its current. This was quite effective as a compromise, but nevertheless left something to be desired as regards simplicity, while the reaction control still had some effect on the tuning.

With the introduction of the differential type of condenser, the much better scheme employed in the "Differential One" became practicable. If reference is made to the circuit diagram in Fig. 1 it would be seen that with the reaction condenser at its minimum set-

between condenser C4 and the coil socket. It actually consists of a scrap of ebonite on which two valve sockets are mounted, and should be supported above the baseboard so that the valve sockets are clear of the wood; alternatively, the baseboard may have a couple of good-sized holes drilled under the sockets so as to clear them.

A valve-pin is used to make contact with one or other of the sockets, and this is attached by means of a short length of good flex or thin wire to the grid terminal on the five-pin valve

The windings comprise three in number. The aerial coil L1 occupies the topmost position on the former, and consists of 35 turns of No. 30 D.S.C. The next winding down in the tuning coil varies according to the capacity of the tuning condenser used. If a condenser having a maximum capacity of .00035 mfd. is used, this coil should comprise 120 turns of No. 30 D.S.C.; if the condenser has a maximum capacity of .0005 mfd., then 104 turns of No. 23 D.S.C. should be wound on. It will be noted that the bottom ends of these two windings are connected to the same pin on the valve base, this being the only pin to which two wires are connected. The last coil, L3, that at the bottom, is the reaction coil and comprises 40 turns of No. 30 D.S.C. or smaller wire; the precise gauge is not important in this instance.

The arrangement of the windings is shown more clearly in Fig. 3, which also shows the connections to the valve base.

Other Considerations.

THERE are just one or two other little details which must be mentioned in connection with the construction. It will be noticed that in the practical wiring diagram C+ is shown connected to A- and B-. This may seem a very useless proceeding seeing that no C battery will be used for the present, but the connection will have to be made eventually, so may as well be made now. Similarly the whole twelve terminals are shown mounted, although some of them will be unused until the receiver grows up.

The fixed condenser sometimes inserted in series with the reaction condenser has been omitted, as most modern condensers are too well aligned for there to be any possibility of the plates touching. If the constructor feels doubtful about the point, however, there is no reason why a fixed condenser should not be inserted in the lead between plate terminal and reaction coil: this should be of .001 mfd., or larger.

So soon as the wiring has been completed, following the wiring diagram

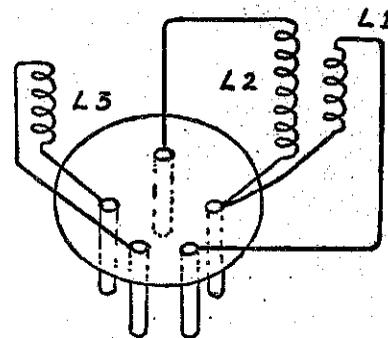
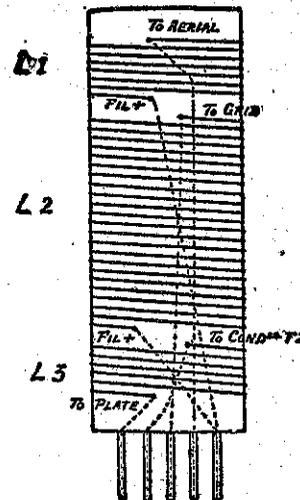


FIG. 3

given in Fig. 2, the receiver may be tested and adjusted. As this process will consist of putting the receiver in and out of oscillation, adjusting the B voltage until the control is as smooth as it can be had, be careful that the receiver is not tuned in to any broadcast station or interference may be caused to other listeners. Once the

(Concluded on page 30.)

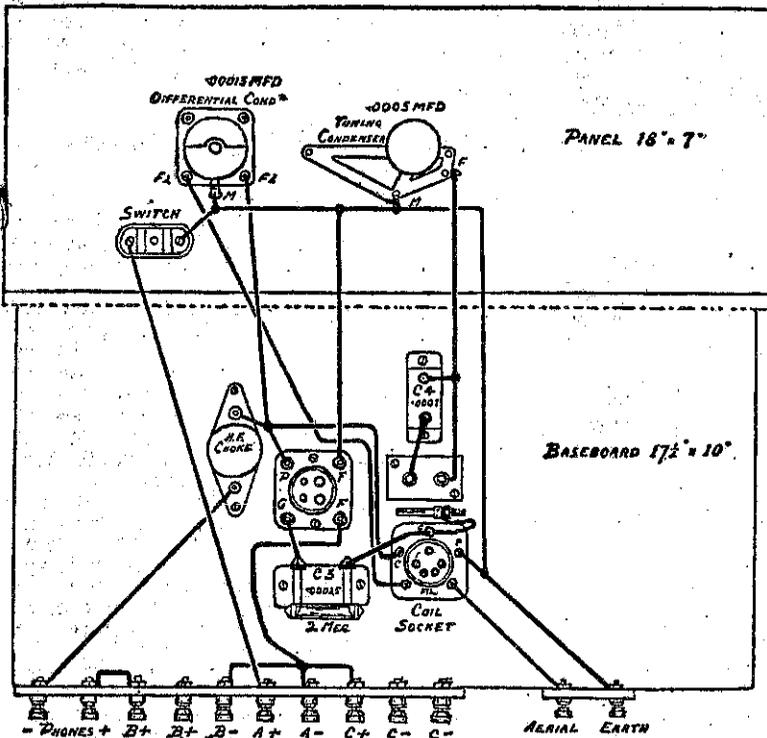


FIG. 2

ting (that is, with the moving vanes fully interleaved with that set of fixed vanes marked F1), the effect is merely to provide a by-pass from plate to filament. As the setting of the reaction condenser is increased so as to bring the moving vanes into engagement with the other set of fixed vanes marked F2, more and more of the current passes through the reaction coil instead of being by-passed via F2.

The reaction effect is thus obtained in more or less normal fashion, but we have secured two notable improvements. Firstly, there is present at all times an adequate by-pass for high-frequency currents in the plate circuit of the detector valve; and, secondly, the capacity between plate and filament is practically constant, so that the tuning effect of the reaction control is reduced to quite negligible proportions even when reception is on the higher frequencies. It will also be noticed that, as distinct from the older system of differential reaction control, the moving plates of the reaction condenser are at earth potential, so that hand capacity effects are entirely absent.

The Coils.

THE construction of the receiver is so simple as to render any very detailed description quite unnecessary. One little point that deserves a word of explanation is the plug and socket arrangement for bringing a fixed condenser in series with the tuning condenser for short-wave work. In the practical wiring diagram (Fig. 2) the little "distributor board" can be seen

between, which does duty as a coil socket; thence a wire goes to one end of the grid condenser and leak.

The only other point which may require a little thought on the part of the constructor is the making of the plug-in coil. The reader will have guessed from the use of a five-pin valve-holder as a coil socket that the coil is to be wound on the base of a disused valve of the five-prong 227 or 224 types. As the coil former will have to be nearly four inches long to accommodate the windings, some extension will have to be arranged to fit over the valve base.

After the bulb of the defective valve has been loosened by methylated spirits or brute force and the wires leading from bulb to pins removed, a couple of thicknesses of thin celluloid may be wound over the base and cemented together and into position with the usual celluloid cement. "Cathode" is bound to confess that his own junkbox did not run to celluloid so that a couple of thicknesses of horn fibre well shellaced and baked were made to suffice without any apparent ill result. If this alternative is used, however, be sure that the former is well dried, as if wet shellac is allowed to soak into the windings and fill the interstices between turns, up goes distributed capacity and down goes efficiency.

Coil Windings.

ONLY the windings for the broadcast coil are being given this week.

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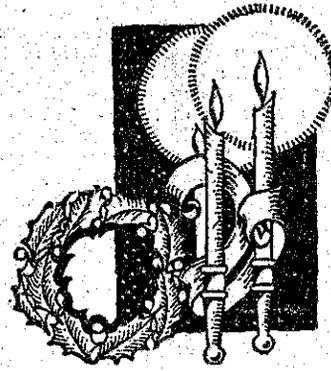
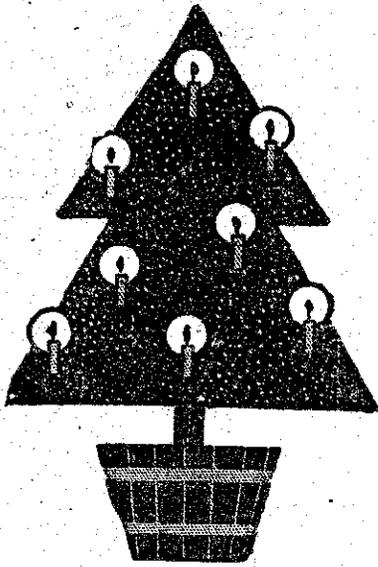
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Feature Peeps

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Future Programmes



MONDAY From Auckland

FROM 11.30 a.m. 1YA will relay results of the Auckland Racing Club's meeting at Ellerslie.

A very interesting feature of 1YA's programme will be items by the Jazz Band of the R.M.S. Rangitiki. The Bohemian Duo have returned to Auckland for the holidays, and are making two appearances this week, the first being this evening.

The remainder of the artists on the evening's programme are all popular performers from 2YA, Wellington. They are Mr. S. Evelyn Rodgers (a very fine baritone) and Mr. Sam Duncan, lyric tenor, a member of the famous

Mr. Ernest Short, a baritone singer, who is known throughout New Zealand as a soloist for the leading Choral Societies. Mr. Clement May, the eminent English elocutionist and Dickensian artist, is also appearing on this programme in a recital from the works of Dickens, O. Henry, and A. A. Milne.

The other supporting artists will be Mrs. Mai King and Mr. Les Stapp, both artists of merit. The orchestra, under Signor A. P. Truda, will play as supporting items the overture to Weber's "Oberon," three compositions by Wagner—a selection from "Lohengrin," "O Star of Eve" from "Tannhauser," and the famous "Tannhauser March"—the "Ballet Music Suite" from "Meyerbeer's Operas," and Schubert's "Marche Militaire."

From Christchurch

A RECITAL by Mr. Rex Harrison, baritone, will be featured on 3YA's programme. He will sing "Tangi," "Waiata Maori," "The Lute Player," and "The Way Home."

On the same programme will be Miss Gladys Brooks, who was the soprano soloist in the presentation of "Messiah" by the Royal Christchurch Musical Society in the Civic Theatre recently. She will broadcast "Bend Low Thine Ear," "The Second Minuet," and "Go Down to Kew."

One of the songs to be sung by Mr. C. R. Williamson, tenor, will be "I Gave You a Gift," by the Christchurch composer the late Mai Burnes-Loughnan. Mr. Harold Shaw will recite "A Fallen Star" and "I Understood." On the instrumental side of the entertainment, a capital programme will be provided by the Woolston Band under Conductor R. J. Estall. Bandsman Ohlsen will contribute a cornet solo.

Dunedin Notes

AN instrumental trio, consisting of Misses Holmes, Judd, and Moffat, will provide a series of very pleasing items from 4YA. Miss E. McPeak will give elocutionary numbers, one of which will be the description of "Mar" from "The Sentimental Bloke." Violin solos, "Paradise" and "Liebeslied," will be played by Miss E. Judd.

THE WEEK

Jazz Band from S.S. "Rangitiki"
1YA, Monday
"Wagner"
2YA, Tuesday
New Year's House Party
1YA, New Year's Eve
Night Watch
2YA, New Year's Eve
From Cathedral Square
3YA, New Year's Eve
Highland Pipe Band
4YA; New Year's Eve
Special Holiday Music
ALL STATIONS
New Year's Day

TUESDAY

Auckland's Programme

FROM 11 a.m., 1YA will be broadcasting the results of the Auckland Trotting Club's meeting from Alexander Park. The evening programme will consist of vocal and instrumental items, and a topical talk to be given by Mr. A. B. Chappell, M.A. Madame Mary Towsey, mezzo-soprano, has included among her items "Beautiful Beatrice," by Mallinson. This composer is certainly one of England's greatest composers, and it is a pity that his works are not more generally known. The accompaniments to his songs are excellent, and the study of these will repay any aspiring accompanist. The Orchestral Octet, under the direction of Mr. Harold Baxter,

SUNDAY

Auckland Notes

DIVINE service held in the Baptist Tabernacle will be broadcast by 1YA. The Rev. Joseph Kemp will preach and Mr. Arthur E. Wilson will be at the organ. The evening studio concert programme at 8.30 p.m. should prove a treat to music lovers.

Mr. Ralph N. Eskrigge, tenor, a newcomer to 1YA, returns to Auckland with an Australian reputation, having spent three years at the Sydney Conservatorium. He has recently played the leading tenor roles in "Madame Butterfly" and "Rigoletto." Mr. Eskrigge has done a great deal of broadcasting in Australia, and recently rendered items from "The Rogue Song" at station 2GB, Sydney, with great success.

From Wellington

THE service at St. Thomas's Anglican Church, Wellington, will be relayed by 2YA. The preacher will be Rev. C. V. Rooke, and the organist and choirmaster Mr. W. Gatheridge. The studio concert will be presented by the Artillery Band.

3YA Notes

THE Rev. T. W. Armour will be the preacher at Knox Presbyterian Church, when the service will be broadcast by 3YA. Afterward the 4YA concert will be relayed.

Dunedin Features

THE service in St. Andrew Street Church of Christ will be broadcast by 4YA. Pastor W. D. More will be the preacher. Members from the Empire Theatre Orchestra, which is the only large picture theatre orchestra at present in the Dominion, will be playing. It will be conducted by Mr. A. H. Pettitt, who is the organist at the theatre. The selections presented will all be of a classical type.



JOAN LAIRD,

A charming soprano, singing from 1YA.
—Steffano Webb Photo.

Melodié Four of Wellington. Two comedy sketches will be given by Miss Linnie Nicholas and Mr. Vryn Evans, of Wellington. They have enjoyed popularity at the southern station, and no doubt Auckland listeners will be pleased to hear some of Wellington's best artists.

2YA Notes

THE Wellington station will feature items of a classical nature.

Mrs. Daisy Basham, who appears regularly from 1YA, will speak on "Wagner," and will be assisted by



GEO. TITCHENER,
Whose humorous items have stirred the risible faculties of many 3YA listeners.
—Steffano Webb Photo.

will play three groups of numbers, including a selection from "The Gondoliers," by Sir Arthur Sullivan.

From Wellington

THE Salon Orchestra will play this evening Delibes' "Coppelia Ballet," a "Meditation" (by Clifford), the suite "Myrtles of Damascus," and the selections "Thais and Tahnae" and "Reconciliation." Mr. W. Haydock will play the violin solo "Reverie," by Vieuxtemps.

Reno and Arta are making a welcome reappearance. Their items on this occasion will be xylophone duet arrangements of the "Slavonic Rhapsody," "Carolina Moon," and polka "Ida and Dot," and Brahms' "Hungarian Dance No. 5."

From 4YA

THE Dunedin Tramways Band, under Mr. Charles Morgan, will be heard from 4YA. A well-varied programme will be presented, comprising marches, a selection of Scottish songs, a humoresque, waltzes, and a foxtrot.

WEDNESDAY

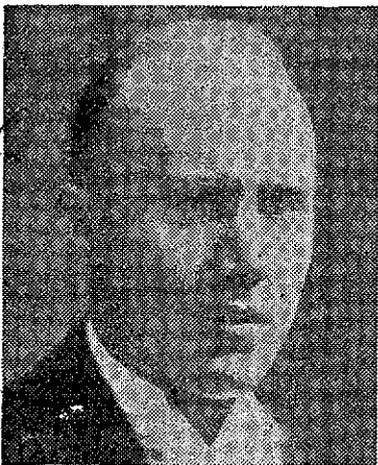
From Auckland

STATION 1YA will open up at 11 a.m. to broadcast trotting results. At 7.40 Mr. Norman Kerr will give another talk on "Physical Culture."

For New Year's Eve at 1YA a special programme has been arranged. Ernest and Wendy Luks will present "Merry Moments at the Piano." These two artists have proved extremely popular since their first appearance at this station a few weeks ago. The Trivolian Trio, consisting of piano, banjo, and saxophone, will make their first appearance in several numbers.

The Mati Trio are already very welcome, and they will be heard in several popular songs. Miss Phyllis Gribben has returned to Auckland on holiday, and the many admirers of her voice will be glad of having the opportunity of hearing this very fine contralto once again.

The second part of the evening's programme will be devoted to a special presentation of a novelty programme entitled "A New Year's



C. R. WILLIAMSON,
A very pleasing light tenor. Mr. Williamson is a member of the Christchurch Leidertafel.
—Steffano Webb Photo.



THE BOHEMIAN DUO,
A very popular and talented 1YA vocal and instrumental combination, who are always appreciated by their audiences.
—Andrew, photo.

Eve House-party," to be produced by Mrs. Zoe Bartley Baxter and her company. Dance music will follow, to be succeeded by a relayed description of the New Year Eve festivities which always take place round about the Ferry Building.

2YA Notes

A BRIGHT programme has been arranged for this evening. Three new radio artists will appear for the first time. They are Mr. and Mrs. C. W. Edwards and Mr. A. H. Outtrim. Mr. Edwards is a powerful bass singer, while Mrs. Edwards has a voice of very pleasing contralto quality, and also sings artistically. Mr. Outtrim is an outstanding artist with a voice of a pleasant, robust tenor quality, and should soon prove popular with listeners.

Messrs. J. H. Thomas and B. French, a new novelty instrumental duo, will also appear on the programme. Their items will comprise popular songs and ballads arranged by themselves.

The combination consists of a mandolin and Spanish guitar, the latter being an instrument which is very popular in America, but is not heard very often in this country.

Mr. Cedric Gardiner, a popular entertainer, will recite two humorous excerpts by the famous Farjeon. The Orchestrina, under Signor A. P. Truda, will play suitable supporting music. From 10 to 11.55 p.m. a dance programme will be given, after which a relay of the Watch Night Service from St. John's Presbyterian Church will be carried out.

dispense Scottish humour, while there will be selections by the Studio Octet

From 10 to 11.45 dance music will be broadcast, after which the microphone will be taken to Cathedral Square to let listeners know how Christchurch welcomes the New Year.

From Dunedin

APPROPRIATELY enough, 4YA has engaged the Dunedin Highland Pipe Band for this evening. The pipers will contribute extensively to the concert programme from 8 to 10, and at midnight the strains of "Auld Lang Syne" will float over the air accompanied by the bagpipe music.

THURSDAY

1YA Notes

THE results of the Auckland Racing Club's meeting at Ellerslie will be relayed.

Two excellent singers have been engaged for 1YA's programme—Mrs. Laetitia Parry (who has included in her items "Ring Out, Wild Bells") and Mr. Albert Gibbons Taylor (who is also singing some popular songs, including the old favourite, "Simon the Cellarer.")

A group of instrumental items will be given by Ingall's Hawaiian Quartet, one of the most entertaining and popular turns at 1YA, and Mr. Robert McKnight will play several numbers on the English concertina. Mr. Reg Morgan and his orchestra will have a very busy evening supplying items during the concert session, and dance music until 11 p.m. They will commence the programme with "Community Land," which is a medley of many of the songs which were popular many years ago.

From Wellington

THE songs presented this evening will include a number of old favourites such as "Bedouin Love Song," "Ailsa Mine," "Forging the Anchor," "Eriskay Love Lilt," "Maid of Malabar," and "Nirvana." Two humorous sketches will be given by the "Sketchers," and jazz piano solos by Mr. Allan Shand. The Salon Orchestra will play suitable incidental music of a light nature, the items including "Plymouth Hoe," "Trovatore Fantasia," "My Son John," and the latest dance novelties.

(Concluded on page 30.)

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CHRISTCHURCH

Full Programmes for Next

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Sunday, December 28

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, DECEMBER 28.

- 3.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
- 6.0 : Children's session, conducted by "Uncle Bert."
- 6.55 : Relay of Divine Service from Baptist Tabernacle. Preacher, Rev. Joseph Kemp; Organist, Mr. Arthur E. Wilson.
- 8.30 (approx.) : Selection—Light Symphony Orchestra, "The Merry Wives of Windsor" (Nicolai).
- Tenor—Mr. Ralph N. Eskrigge, (a) "Macushla" (MacMurrough), (b) "I Heard You Singing" (Coates).
- Piano—Miss Margot St. L. Toner, (a) "Ionate" (Scarlatti), (b) "Finale—Carnival Fest of Venice" (Schumann).
- Soprano—Miss Joan Laird, (a) "At Dawning" (Cadman), (b) "April is a Lady" (Phillips).
- Flute—Mr. David Whisker, (a) "Serenata" (Moszkowski), (b) "Allegretto" (Godard).
- Choral—Choir of H.M. Chapel Royal, (a) "Welcome Yule" (arr. Stainer), (b) "Infant So Gentle" (arr. Stainer), (c) "Across the Desert Sands" (arr. Stainer), (d) "The Holly and the Ivy."
- Tenor—Mr. Ralph N. Eskrigge, (a) "An Eriskay Love Lilt" (Kennedy Fraser), (b) "The Star" (Rogers).
- Piano—Miss Margot St. L. Toner, (a) "Danse d'Olaf" (Pick-Mangracalli), (b) "Shanghai Tragedy" (Chassins).
- Soprano—Miss Joan Laird, (a) "Look Down, Dear Eyes" (Howard Fisher), (b) "When Song is Sweet" (Sans Souci).
- Flute—Mr. David Whisker, "Norwegian Dance" (Grieg).
- Selection—Band of H.M. Royal Air Force, "Gondolier and Nightingale." God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, DECEMBER 28.

- 3.0 : Afternoon session of selected gramophone records.
- 6.0 : Children's Song Service, conducted by Uncle George, assisted by the children's choir from the Vivian Street Church of Christ.
- 7.0 : Relay of Evening Service from St. Thomas' Anglican Church, Wellington South. Preacher: Rev. C. V. Rooke. Organist and Choirmaster: Mr. W. Gatheridge.
- 8.15 (approx.) : Studio Concert by the Wellington Artillery Band (Conductor Captain T. Herd) and 2YA artists.
- March—Band, "Etheloids" (Plater).
- Descriptive selection—Band, "In the Chapel" (Ellenberg).
- Soprano—Miss Nora Gray, "Ave Maria" (Mascagni).
- Selection—Royal Opera Orchestra, (a) "Anitra's Dance"; (b) "In the Hall of the Mountain King" (Grieg).
- Baritone—Mr. Ray Kemp, "Mother O' Mine" (Tours).
- Gavotte—Band, "Loving Hearts" (Beyer).
- Contralto—Mrs. Ray Kemp, "Harbour Night Song" (Sanderson).
- Selection—Band, "Lilies at Dawn" (Beyer).
- Weather report and station notices.
- Soprano—Miss Nora Gray, (a) "Lullaby" (Scott), (b) "Hidden Treasure" (York-Bowen).
- Organ—Dr. Albert Schweitzer, "Prelude and Fugue in E Minor."
- Duet—Mr. and Mrs. Ray Kemp, "Hold Thou My Hand" (Briggs).
- Selection—Band, "Oberon" (Weber).
- Choral—Don Cossack's Choir, (a) "In the Church" (Tschaiakowsky); (b) "Korsaken Wiegenlied" (Gretchaninoff).
- Christmas Carol—Band "O Come All Ye Faithful" (arr. Herd).
- Chorus—"Hallelujah Chorus" (from "The Messiah") (Handel).
- Baritone—Mr. Ray Kemp, "Sea Fever" (Ireland).
- 'Cello—Beatrice Harrison, "Melody" (Dawes).
- Contralto—Mrs. Ray Kemp, "Tired Hands" (Sanderson).
- March—Band, "Defenders" (Moorhouse).
- God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, DECEMBER 28.

- 3.0 : Afternoon session—Gramophone recital.
- 4.25 : Sports results.
- 5.30 : Children's Song Service.
- 6.15 : Chimes from studio.
- 6.30 : Musical recordings from studio.
- 7.0 : Relay of Evening Service from Knox Presbyterian Church, Bealey Avenue. Preacher: Rev. T. W. Armour. Choir conductor: Mr. A. G. Thompson.
- 8.0 : (Approx.)—Musical recordings from studio.
- 8.15 : Relay of Evening Programme from 4YA, Dunedin.
- 9.30 : (Approx.)—God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, DECEMBER 28.

- 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. Andrew Street Church of Christ. Preacher: Pastor W. D. More.
- 7.45 : Selected recordings from the studio.
- 8.15 : Studio programme by Salon Orchestra, under direction of Mr. A. H. Pettitt, assisted by 4YA artists.
- Selections—Salon Orchestra, (a) "Japanese Wedding March" (Translater); (b) "The Evening Hour" (Kussner).
- Soprano—Mrs. D. Carty, (a) "Ave Maria" (Gounod); (b) "Off in the Stilly Night" (Moore).
- Piano—W. Murdock, (a) "Waltz in A Flat" (Brahms); (b) "Spring Song" (Mendelssohn); (c) "Liebestraume" (Liszt).
- Suite—Orchestra, "Land of Fancy" (Tapp) 1. "A Swing Song at Morn"; 2 "Sprite's Lullaby"; 3 "The Pixie's Parade."
- Bass—Mr. W. B. Lambert, "The Curfew" (Gould).
- 'Cello—Mr. P. Palmer, "La Danse" (Gloterman).
- Weather report and station notices.
- Choral—Don Cossack's Choir, (a) "Dance Song" (arr. Dobrowen); (b) "Song of the Cossacks" (arr. Dobrowen).
- Suite—The Orchestra, "Jevington Suite" (Loughborough).
- Descriptive Fantasy with vocal accompaniment—Orchestra, "A Dream of Christmas" (Ketelbey).
- Soprano—Mrs. D. Carty, "Solveig's Song" (Grieg).
- Selection—The Orchestra, "Merry Wives of Windsor."
- Bass—Mr. W. B. Lambert, (a) "Merry Monk" (Bevan); (b) "The Last Call" (Sanderson).
- Band—National Military Band, Grand March from "Tannhauser."
- 9.30 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, DECEMBER 28.

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

Monday, December 29

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, DECEMBER 29.

- 11.30 : Results of Auckland Racing Club's meeting at Ellerslie, interspersed with gramophone items.
- 5.0 : Children's session, conducted by "Cinderella."
- 6.0 : Dinner music session.
- Albert W. Ketelbey's Concert Orchestra, "Cockney Suite" Nos. 1 to 4 (Ketelbey) (05052/3). 1—State Procession (Buckingham Palace); 2—The Cockney Lover (Lambeth Walk); 3—At the Palais de Danse (anywhere); 4—Elegy (Thoughts on passing the Cenotaph).
- 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) (05029).
- 6.30 : Albert W. Ketelbey's Concert Orchestra, "Jungle Drums—Patrol." Organ—Emil Velasco, "Estrellita." Debroy Somers Band, "Hungarian Medley, Parts 1 and 2."
- 6.45 : Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawaiian Waters" Parts 1 and 2 (Ketelbey). Organ—Emil Velasco, "La Golondrina." Band—Regimental Band of H.M. Grenadier Guards, "Fighting Strength" (Jordan).
- 7.0 : News and market reports.
- 8.0 : Chimes. Overture—Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey). Selection—"The Clock and the Dresden Figures."
- 8.9 : Baritone—Mr. S. Evelyn Rodger, (a) "Under the Rose" (Hawley); (b) "A Sprig of Boronia" (Hull).
- 8.15 : Orchestra—The "Rangitikei" Jazz Band, "Popular Melodies."
- 8.25 : Sketch—Miss Linnie Nicholas and Mr. Vryn Evans, "The Baggage."
- 8.27 : Vocal and instrumental—The Bohemian Duo, (a) "E Parl Ra" (Trd'l); (b) "Take Tarunga Ake" (Trd'l).
- 8.36 : Selection—Herman Finck's Orchestra, "Old and New" Potpourri of Popular Memories (arr. Finck).
- 8.44 : Lyric tenor—Mr. Sam Duncan, (a) "Mignon" (D'Hardelot); (b) "Alice, Where Art Thou?" (Ascher).
- 8.50 : Orchestra—The "Rangitikei" Jazz Band, "Further Popular Numbers."
- 9.0 : Evening weather forecast and announcements.
- 9.2 : Selection—B.B.C. Wireless Military Band, (a) "Le Reve Passe."
- 9.6 : Baritone—Mr. S. Evelyn Rodger, (a) "A Castilian Lament" (Del Riego); (b) "Slave Song" (Del Riego).

Week-all Stations-to Jan. 4

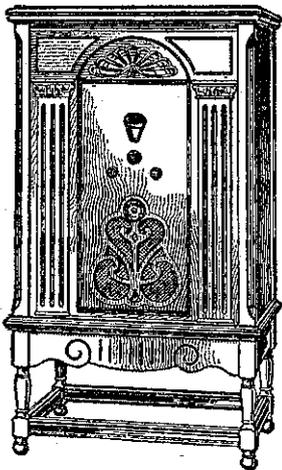
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- 9.12: Vocal and instrumental—The Bohemian Duo, (a) "Aroha Pumai" (Trad'l); (b) "Matangi" (Trad'l).
 9.20: Sketch—Miss Linnie Nicholas and Mr. Vryn Evans, "The Art of Love" (from "The Hunchback") (Knowles).
 9.30: Novelty—Jessica Dragonette, (a) "Moonbeams" (Blossom-Herbert); (b) "L'Amour Toujours L'Amour" (Cushing-Friml).
 9.36: Orchestral—The "Rangitikei" Jazz Band, "Latest Hits."
 9.48: Lyric tenor—Mr. Sam Duncan, (a) "Sally Horner" (Old English); (b) "O Murr'ring Breezes" (Jensen).
 9.50: Accordion—Pietro, (a) "Broadway" (Chieco-Valverde); (b) "The Kiss" (Arditi).
 March—United States Marine Band, "Semper Fideles" (Sousa).
 10.0 : God save the King.

2X WELLINGTON (720 KILOCYCLES)—MONDAY, DECEMBER 29.

- 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.
 Royal Opera Orchestra, Covent Garden, "Faust Ballet Music—First-Fourth Movements" (Gounod).
 San Francisco Symphony Orchestra, "Rosamunde Entr'acte."
 6.15: National Symphony Orchestra, "Stradella Overture" (Flotow).
 Organ—Reginald Foort, "The Riff Song" (Romberg).
 Philadelphia Symphony Orchestra, "Samson and Deilah"—Bacchanale.
 6.30: Royal Opera Orchestra, Covent Garden, "Faust Ballet Music—Fifth-Seventh Movements" (Gounod).

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- Organ—Reginald Foort, "The Desert Song" (Romberg).
 Philadelphia Symphony Orchestra, "Damnation of Faust" (Berlioz).
 6.45: National Military Band, "Ballet Egyptien" (Luigini).
 National Symphony Orchestra, "Norma Overture" (Bellini).
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—2YA Orchestrina (conductor, Signor A. P. Truda), "Oberon" (Weber).
 8.9 : Mezzo-soprano—Mrs. Mai King, (a) "Morning" (Speaks); (b) "The Fuchsia Tree" (Quilter).
 8.14: 'Cello—Pablo Casals, "Spanish Dance" (Popper).
 8.17: Lecture Recital by Mrs. Daisy Basham, assisted by Mr. Ernest Short, on "Wagner" Part 1.
 8.32: Selection—Orchestrina, "Lohengrin" (Wagner).
 8.40: Tenor—Mr. Les Stapp, "Speak Music" (Elgar).
 8.43: A humorous interlude by Mr. Jock Lockhart, 3YA's well-known Scottish comedian.
 8.53: Ballet music—Orchestrina, "Ballet Suite from Meyerbeer's Operas."
 9.1 : Weather report and station notices.
 9.2 : Mr. Clement May, the eminent English elocutionist and entertainer, will entertain with a recital from the works of Dickens, O. Henry and A. A. Milne.
 9.16: Selections—Orchestrina, (a) "Star of Eve" (Wagner); (b) "Marche Militaire" (Schubert).
 9.24: Continuation of the Lecture Recital on "Wagner" by Mrs. Daisy Basham and Mr. Ernest Short.
 9.39: Mezzo-soprano—Mrs. Mai King, (a) "Thoughts Have Wings" (Lehmann); (b) "The Curtain Falls" (D'Hardelot).
 9.44: Further Scottish songs and patter by Mr. Jock Lockhart.
 9.54: Tenor—Mr. Les Stapp, (a) "My Heart is a Haven" (Steinel); (b) "Sweet Lady" (Sprott).
 10.0 : March—Orchestrina, "Marche de Tannhauser" (Wagner).
 10.4 : Dance Programme.
 Foxtrots—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "When the Little Red Roses get the Blues for You" (Dubin, Burke); "Puttin' on the Ritz" (Berlin); "Leven-Thirty Saturday Night."
 Waltz—Regent Club Orchestra, "It Happened in Monterey."
 10.12: Foxtrots—Ben Bernie and His Orchestra, "To My Mammy" (Berlin).
 Slatz Randall and His Orchestra, "What a Perfect Night for Love" (Lenzen, Cameron, Bontsema).
 10.21: Vocal—Chester Gaylord, "Any Time's the Time to Fall in Love."
 Foxtrots—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Courtin' Time" (Stoddard, Coburn, Burnett).
 Meyer Davis' Hotel Astor Orchestra, "Oh! How I Adore You" (Stoddard, Klauber).
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Song of the Dawn" (Yellen, Ager).
 Roger Wolfe Kahn and His Orchestra, "Dark Night"
 Waltz—Meyer Davis' Hotel Astor Orchestra, "Farewell."
 10.36: Foxtrots—Ben Bernie and His Orchestra, "Looking At You."
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "There's Danger in Your Eyes, Cherie!"
 Slatz Randall and His Orchestra, "Sweetheart Trail."
 10.45: Vocal—Chester Gaylord, "Blue is the Night" (Fisher).
 Waltz—Colonial Club Orchestra, "Why Don't You Love Me?"
 Foxtrots—"Into My Heart" (Turk-Ahlert).
 Louis Panico and His Orchestra, "Wabash Blues."
 Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "With You" (Berlin).
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, DECEMBER 29.

- 3.0 : Gramophone recital.
 4.25: Sports results.
 5.0 : Children's hour—"Cousin Margot and The Mystery Man."
 6.0 : Dinner music session.
 New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai).
 Waltz—Marek Weber's Orchestra, "Moonlight on the Alster" (Fetras).
 6.15: Intermezzo—New Light Symphony Orchestra, "Hearts and Flowers."
 Waltz—Marek Weber's Orchestra, "Wine, Women and Song" (Weber).
 Wurlitzer organ solo—Reginald Foort, "By the Blue Hawaiian Waters."
 6.30: New Light Symphony Orchestra, "The Glow-worm Idyll" (Lincke).
 Victor Salon Orchestra, "Indian Love Call" (from "Rose Marie") (Friml); "The World is Waiting for the Sunrise" (Lockhart).
 de Groot and His Orchestra, "When Summer is Gone."
 6.45: de Groot's Orchestra, "The Merry Widow" (Lehar).
 Wurlitzer organ—Reginald Foort, (a) "Leave Me Alone," (b) "Songs My Mother Taught Me" (Dvorak).
 7.0 : News session.

- 8.0 : Chimes. Band programme by the Woolston Brass Band (Conductor, Mr. R. J. Estall), and assisted by 3YA artists. March—Band, "Harlequin" (Rimmer); overture—"Nabucodenosor" (Verdi).
 8.12: Tenor—Mr. C. R. Williamson, (a) "I Hear a Thrush at Ewe" (Cadmán); (b) "O Flower Divine" (Haydn Wood); (c) "Down the Vale" (Moir); (d) "I Gave You a Gift" (Burnes-Loughnan).
 8.24: Organ—Quentin MacLean, "Incidental Music to the Merchant of Venice"
 9.40: Duo d'amour—Band, (a) "Gallantry" (Kettelbey); cornet solo—Bandsman R. Ohlsen, (b) "The Caledonians" (Allison).
 8.51: Soprano—Miss Gladys Brooks, (a) "Bend Low Thine Ear" (Besly); (b) "The Second Minuet" (Besly); (c) "Go Down to Kew" (Peel).
 9.1 : Weather forecast and station notices.
 9.3 : Selection—Debroy Somers' Band, "The Desert Song" (Romberg).
 9.11 : Baritone—Mr. Rex Harrison, (a) "Tangi" (Alfred Hill); (b) "Waiata Maori" (Alfred Hill); (c) "The Lute Player" (Allitsen); (d) "The Way Home" (Liddle).
 9.26: Humoresque—Band, "The Coster's Courtship" (McKenzie).
 9.34: Récitations—Harold Shaw, (a) "A Fallen Star" (Albert Chevalier); (b) "I Understood" (MS.).
 9.44: Chorus—Light Opera Company, vocal gems from "No, No, Nanette."
 9.52: Dance intermezzo—Band, "Wedgwood Blue" (Kettelbey).
 March—Band, "Imperial Echoes" (Safroni).
 10.2 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, DECEMBER 29.

- 3.0 : Chimes—Selected recordings.
 5.0 : Children's session, conducted by Big Brother Bill.
 6.0 : Dinner music session.
 Grand Symphony Orchestra, "Suite Orientale" (a) "March"; (b) "On the Shore of the Ganges" (Francis Popy).
 Edith Lorand's Orchestra, "Toreador and Andalous" (Rubenstein).
 Grand Symphony Orchestra, "Naila" (Delibes).
 6.15: Dajos Bela Orchestra, "Woodland Peace" (Favilla).
 Berlin State Opera House Orchestra, "The Barber of Seville" Overture" (Rossini).
 Edith Lorand's Orchestra, "Minuet" (Boccherini).
 6.30: Grand Symphony Orchestra, "Suite Orientale" Pt. 4 The Patrol (Francis Popy); "Lustspiel Overture" (Kela Bela).
 Dajos Bela Orchestra, "The Court Ball" (Josef Lanner).
 Grand Symphony Orchestra, "Japanese Lantern Dance."
 6.45: Grand Symphony Orchestra, "Suite Orientale" Pt. 3 "The Dancers."
 Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).
 Grand Symphony Orchestra, "Chinese Street Serenade."
 7.0 : News session.
 8.0 : Chimes. Overture—Regal Cinema Orchestra, "Show of Shows."
 8.9 : Contralto—Miss I. Hornblow, (a) "Waters of Minnetonka" (Lieurance); (b) "Who Knows" (Ball).
 8.15: 'Cello—Beatrice Harrison, "Harlequinade" (Popper).
 8.19: Recital—Miss E. McPeak, "Mar" (from "Songs of a Sentimental Bloke" (Dennis).
 8.24: Tenor—Mr. H. A. Johnston, "The Pipes of Pan" (Elgar).
 8.27: Trio—Miss Holmes, Miss Judd and Mrs. Moffat, (a) "Syncopation" (Kriesler); (b) "Spring Song" (Mendelssohn); (c) "Spanish Dances" (Moszkowski).
 8.37: Soprano—Miss Mae Matheson, (a) "The Bird That Came in Spring" (Benedict); (b) "The Cuckoo" (Lehmann).
 8.43: Organ—Terence Casey, (a) "Crazy Pirouette" (Frisk); (b) "Love Everlasting" (Friml).
 8.49: Songs at the piano—Jack Blair, (a) "Telling It To The Daisies" (Warren); (b) "Vagabond Lover" (Zimmerman).
 8.55: Violin—Miss E. Judd, "Paradise" (Kreisler).
 9.0 : Weather report and station notices.
 9.2 : Selection—Band of the Garde Republicaine, "Clarinet Concerto."
 9.10: Soprano—Miss Mae Matheson, "I Know Not Why" (Bingham).
 9.13: Selections—Instrumental Trio, "Hungarian Dance No. 6" (Brahms); (b) "To Spring" (Grieg); (c) "Nina" (Kriesler).
 9.23: Recital—Miss E. McPeak, (a) "The Coward" (Service); (b) "The Conversation Book" (Punch).
 9.30: Tenor—Mr. H. A. Johnston, (a) "A Song of the Open" (Forze); (b) "Five Eyes" (Gibbs).
 9.36: Violin—Miss E. Judd, "Liesleid" (Wagner).
 9.41: Contralto—Miss I. Hornblow, "Three Green Bonnets" (D'Hardelot).
 9.45: Selections—Instrumental Trio, (a) "Second Waltz in B Flat" (Godard), (b) "Simple Aveu" (Elgar).
 9.53: Song at the piano—Jack Blair, "What Have I Done" (Jurman).
 9.56: Selection—Boston Symphony Orchestra, "Frublingsstimmen."
 10.0 : God save the King.

5YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, DECEMBER 29.

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

Tuesday, December 30

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, DECEMBER 30.

- 11.30: Results of Auckland Trotting Club's Meeting at Alexandra Park, interspersed with gramophone items.

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

- 6.0 : Dinner music session.

- Berlin State Opera Orchestra, "Polonaise" (Liszt).
 Violin—Isolde Menges, "Nocturne in E Flat, Op. 9, No. 2" (Chopin).
 6.15: Band—H.M. Coldstream Guards, "La Fille de Madame Angot."
 Piano—Mark Hambourg, "Rakoczy March" (Liszt).
 John Barbirolli's Chamber Orchestra, "A Little Night Music—First Movement" (Mozart).
 6.30: John Barbirolli's Chamber Orchestra, "A Little Night Music—Second, Third and Fourth Movements."
 Piano—Mark Hambourg, "On Wings of Song" (Mendelssohn).
 6.45: Virtuoso String Quartet, "Londonderry Air" (arrgd. Bridge).
 Violin—Isolde Menges, "Air on G String" (Bach).
 Virtuoso String Quartet, "The Emperor," Op. 76, No. 3 (Haydn).
 7.0 : News and market reports.
 8.0 : Chimes. March—Orchestral Octet, under direction of Harold Baxter, "Old Faithful" (Holzmann). Selection—Octet, "The Gondoliers."
 8.15: Baritone—Mr. John Bree, (a) "Gloriana" (Mallinson); (b) "The Light of the Moon" (Loughborough); (c) "The Fortune Hunter" (Willeby); (d) "To Mary" (White).
 8.27: Orchestral Octet, (a) "Punchinello" (Ansell); (b) "The Box of Soldiers"; (c) "The Story Book"; (d) "The Fairy Doll."
 8.45: Tenor—Mr. J. A. Daglish, (a) "An Ocean Night Song" (Gounod); (b) "When Twilight Comes" (Strelezki); (c) "Just Because the Violets"; (d) "The Rose of Tralee" (Schneider).
 9.0 : Evening forecast and announcements.
 9.2 : Reverie—Orchestral Octet, "Souvenir d'Une Valse" (de Leva); Serenade, "Serenade Espagnole" (Glazounov); Characteristic, "Down Peacock Alley" (Hay).
 9.16: Mezzo-soprano—Madame Mary Towsey, (a) "Beautiful Beatrice" (Mallinson); (b) "I Know a Bank" (Shaw); (c) "The Early Morning" (Peel); (d) "Wanderlust" (Peel).
 9.23: Programme of dance music until 11 p.m.
 Foxtrots—Ben Selvin and His Orchestra, "Around the Corner."
 Gil Dech and His Syncopators, "You Can't be Unhappy if You Sing" (Barry and Carr).
 Paul Specht and His Orchestra, "Santiago."
 Stellar Dance Band, "Minnie's Yoo-hoo!" (W. Stalling).
 9.42: Waltz—The Four Bright Sparks, "Eleanor" (McCarthy-Hanley).
 Foxtrots—Van Phillips and His Band, "Just Like in a Story Book."
 Gil Dech and His Syncopators, "Bridge of Our Dreams Come True" (Monk).
 9.51: Vocal duet—Sweet and Low Duettists, "By the Waters of Killarney."
 9.54: Foxtrots—Ipana Troubadours, "Cooking Breakfast for the One I Love."
 Columbia Photo Players, "Leave it that Way" (Fisher-Rice).
 Ipana Troubadours, "Kickin' a Hole in the Sky."
 Columbia Photo Players, "The Whole Darned Thing's For You" (Ahlert and Turk).
 10.6 : Waltz—Frank Ferera's Hawaiian Trio, "Lazy Louisiana Moon."
 Foxtrots—Paul Specht and His Orchestra, "Into My Heart."
 The Four Bright Sparks, "High Society Blues."
 10.15: Vocal—Cavan O'Connor, "The Sunshine of Marseilles" (Gilbert-Nicholls).
 10.18: Foxtrots—The Columbia Photo Players, "The 'Free and Easy'."
 Frank Ferera's Hawaiian Trio, "Pale Blue Waters."
 Stellar Dance Band, "The Toy Farmyard."
 Paul Whiteman and His Orchestra, "Livin' in the Sunlight."
 10.30: Waltz—Stellar Dance Band, "I Feel You Near Me" (McCarthy-Hanley).
 Foxtrots—The Columbia Photo Players, "It Must Be You."
 Ben Selvin and His Orchestra, "With My Guitar and You."
 Paul Whiteman and His Orchestra, "You Brought a New Kind of Love to Me" (Fain, Kahal and Norman).
 Stellar Dance Band, "A Pair of Blue Eyes" (Kernell).
 10.45: Vocal duet—Sweet and Low Duettists, "Just an Old Refrain."
 10.48: Foxtrots—Van Phillips and His Band, "I'm in the Market for You."
 Gil Dech and His Syncopators, "Johnnie, Our Aeroplane Girl."
 Debroy Somers' Band, "Figaro" (Mitchell and Motzan).
 Gil Dech and His Syncopators, "A Lone Girl Flyer."
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, DECEMBER 30.

- 3.0 : Chimes. Selected studio items.
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by Uncle Toby and Jumbo.
 6.0 : Dinner music session.
 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).
 6.15: Piccadilly Orchestra, "The Waltz Dream" (Strauss).
 Marimba Band, "Morales Lopez" (Bolanos).
 Royal Opera Orchestra, "Prelude 'The Huntress'" (from "Sylvia Ballet") (Delibes).
 6.30: Band of H.M. Coldstream Guards, "The Geisha" (Jones).
 Mark Weber and Orchestra, "Menuett No. 1" (Paderewski).
 Organ—Jesse Crawford, "I Loved You Then As I Love You Now."
 Salon Orchestra, "Aloha Sunset Land" (Kawelo).
 6.45: Marek Weber's Orchestra, "Coeur Brise" (Gillet).
 Salon Orchestra, "Chanson Boheme" (Boldi).
 Marimba Band, "Agua Dormides" (Bolanos).
 Band of H.M. Coldstream Guards, "The Belle of New York" (Kerker).

- 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—Salon Orchestra (Conductor Mr. M. T. Dixon), "Coppelia Ballet" (Delibes); "Meditation" (Clifford).
 8.16: Quartet—Melodie Four, "I Love You Truly" (Carrie-Jacobs-Bond).
 Tenor—Mr. Frank Bryant, "I Heard You Singing" (Coates).
 Bass—Mr. W. W. Marshall, "The Floral Dance" (Moss).
 Duet—Messrs. W. W. Marshall and Frank Bryant, "Watchman, What of the Night" (Sargent).
 8.31: Xylophone Duo—Reno and Arta, (a) "Slavonic Rhapsody" (Friedman); (b) "Carolina Moon" (Davis and Burke); (c) "Ida and Dot" polka (Losey); (d) "Hungarian Dance No. 5" (Brahms).
 8.44: Humour—Mr. C. P. McKenzie, "Casey's War Experiences" (original).
 9.59: Weather report and station notices.
 9.0 : Violin—Mr. W. Haydock, "Reverie" (Vieuxtemps).
 Selection—Salon Orchestra, "Myrtles of Damascus."
 9.15: Quartet—Melodie Four, "Request Item."
 Tenor—Mr. R. Walpole, (a) "Ma Little Banjo" (Dichmond); (b) "Jest Her Way" (Aitken).
 Baritone—Mr. R. S. Allwright, "Hawaiian Love Song" (Hayes).
 9.26: Selections—Band of H.M. Grenadier Guards, "La Benediction - Des Poignards" (Meyerbeer); "The Two Little Finches."
 9.36: Soprano—Mrs. R. S. Allwright, (a) "Dreams" (Chenoweth); (b) "Her Dreams" (Waller).
 Duet—Mr. and Mrs. R. S. Allwright, "Ring Out Wild Bells."
 9.48: Selections—Salon Orchestra, "Thais and St. Talmac" (Campbell).
 "Reconciliation" (Drigo).
 10.3 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, DECEMBER 30.
 SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, DECEMBER 30.

- 8.0 : Gramophone items.
 5.0 : Children's session, conducted by Uncle Bert.
 6.0 : Dinner music session.
 Military Band (of specially selected musicians) "Ever or Never."
 Sir Hamilton Harty conducting the Halle Orchestra, "An Irish Symphony—Scherzo" (Sir Hamilton Harty).
 New Concert Orchestra, "Life in Vienna Pts. 1 and 2" (Karl Komzak).
 6.15: New Concert Orchestra, "Life in Vienna Pts. 3 and 4" (Karl Komzak).
 Military Band (of specially selected musicians) "The Guards' Patrol."
 Dinicu and His Orchestra, "Crepuscle-Tango" (Bianco).
 6.30: J. H. Squire's Celeste Octet, "Traume" (Wagner, arr. Willoughby).

- Gustav Holst conducting the London Symphony Orchestra, "Marching Song" (Gustav Holst).
 J. H. Squire's Celeste Octet, "Albumblatt" (Wagner, arr. Willoughby).
 The Elite Dance Orchestra, "In Einer Konditorei-Tango" (Raymond).
 6.45: Regimental Band of H.M. Grenadier Guards, "Sylvia Ballet Pts. 1 and 2" (Delibes, arr. Kappey), (a) "Valse Lente"; (b) "Pizzicato"; (c) "Barcarolle"; (d) "March."
 Halle Orchestra, "Londonderry Air" (Hamilton Harty).
 7.0 : News session.
 8.0 : Chimes. Studio Concert by the Dunedin Tramways' Band, under the direction of Mr. Chas. Morgan, and assisting artists. March—Band, "Waverley" (Turner); selection, "Scotch Songs."
 8.14: Contralto—Miss G. Burt, (a) "The Bird With a Broken Wing" (Golsen); (b) "The Soul of You" (Bond); (c) "Arise, O Sun" (Day).
 8.24: Selection—Eddie Thomas' Collegians, "The Missouri Waltz" (Logan and Eppel); Debroy Somers' Band, "Hungarian Medley."
 8.34: Tenor—Mr. E. Drake, (a) "Come Into the Garden Maud" (Balfe); (b) "Passing By" (Purcell); (c) "A Song Remembered" (Bond).
 8.44: Waltz—Band, (a) "The Hustler" (Williams); Foxtrot—(b) "Lolita" (Lithgow); Characteristic Piece, (a) "Good Luck" (Goldman).
 9.0 : Weather report and station notices.
 9.2 : Organ—Arnold Greer, F.R.C.O., "Medley of National Airs" (Stanley MacDonald); (a) "Nicolette" (Batten); (b) "Was it a Dream?" (Coslow); Arthur Meale, "Yellow Sands" (Ewing).
 9.18: Bass—Mr. F. E. Woods, (a) "The Blind Ploughman" (Clarke); (b) "The Silver Ring" (Chaminade); (c) "The Yeoman's Wedding Song" (Poniatowski).
 9.28: Humoresque—Band, "Lassies and Lads" (Truman); Waltz—Band, "Mandy's Wedding" (Hilton).
 9.45: Soprano—Miss F. Elmes, (a) "Love's a Merchant" (Carew), (b) "June Music" (Trent); (c) "My Heart Ever Faithful" (Bach).
 9.56: March—Band, "Home Again" (Hutton).
 10.0 : God save the King.

Wednesday, December 31

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, DECEMBER 31.

- 11.30: Results of Auckland Trotting Club's meeting at Alexandra Park, interspersed with gramophone items.
 5.0 : Children's session.
 6.0 : Dinner music session.
 Philadelphia Symphony Orchestra, "Carmen—Soldiers Changing Guard" (Bizet).
 Zonophone Salon Orchestra, "Evensong" (Easthope-Martin).
 New Symphony Orchestra, "Minuet" (Boccherini).
 Philadelphia Symphony Orchestra, "Carmen—March of the Smugglers" (Bizet).
 6.15: National Military Band, "The Flying Dutchman Overture" (Wagner).
 De Groot and Piccadilly Orchestra, "Waldfenfler Memories."
 6.30: Marek Weber's Orchestra, "I Pagliacci" (Leoncavallo).
 Zonophone Salon Orchestra, "Eleanor" (Deppen).
 New Symphony Orchestra, "Neil Gwynn Dance No. " (German).
 6.45: New Symphony Orchestra, "Le Cid Ballet Music" (Massenet) 1. Castillane; 2. Andalous; 3. Arragonaise; 4. Madrilene; 5. Navaraise.
 7.0 : News and market reports.
 7.40: Talk—Mr. Norman Kerr, "Physical Culture."
 8.0 : Chimes. Overture—National Symphony Orchestra, "Zampa."
 8.9 : Musical Comedy—Ernest and Wendy Luks, "Merry Moments at the Piano."
 8.19: Novelty Instrumental—The Trivolian Trio, (a) "Chant of the Jungle" (Brown); (b) "Should I?" (Brown).
 8.29: Novelty vocal—Flotsam and Jetsam, "P. C. Lam!" (Flotsam and Jetsam).
 8.31: Novelty Instrumental—The Mati Trio, (a) "Laughing Rag" (Kalli); (b) "Kohala" (Kalli); (c) "To-night You Belong To Me."
 8.39: Novelty Vocal—Flotsam and Jetsam, "The Modern Diver."
 8.41: Contralto—Miss Phyllis Gribbin, (a) "St. Nicholas Day in the Morning" (Martin); (b) "Betty's Garden" (Sanderson).
 8.47: Novelty Instrumental—Trivolian Trio, (a) "If I'm Dreaming" (Burke); (b) "Campus Capers" (Broones); (c) "When I'm Looking at You" (Stohart).
 9.0 : Evening weather forecast and announcements.
 9.2 : Selection—International Novelty Orchestra, "Emperor Waltz."
 9.6 : Musical Comedy—Ernest and Wendy Luks, "Merry Moments at the Piano."
 9.16: Novelty Instrumental—The Mati Trio, (a) "Cradle of Love" (Gilbert), (b) "Hula Girl" (Kalli); (c) "Latest Hit."
 9.24: Contralto—Miss Phyllis Gribbin, (a) "My Dearest Heart" (Sullivan), (b) "To My First Love" (Lohr).
 9.30: Special presentation of one hour novelty entertainment by Zoe Bartley Baxter and Company—"A New Year's Eve House Party."
 10.30: Programme of dance music until midnight.
 Foxtrots—Cova Cavaliers, "Right or Wrong I'm Still in Love With You" (Gillespie-Sizemore).
 New Yorkers, "Go Get 'Em Caroline" (Cremare-Myer).
 Cova Cavaliers, "Have a Little Faith in Me."
 New Yorkers, "Love" (Goulding-Janis).
 10.42: Waltz—Al Hopkins Buckle Busters, "Marosovia Waltz" (Belcher).
 Foxtrots—New Yorkers, "Ev'rything's Rosey Now."

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- Jack Montrose's Orchestra, "Egypt" (Costello-Seamon).
New Yorkers, "Harmonica Harry" (Phil Baxter).
- 10.54: Vocal—Mildred Grizelle, "Under the Spell of the Moon."
Foxtrots—Zenith Knights, "Should I?" (Freed-Brown).
Cova Cavaliers, "Those Old Sweethearts of Mine."
Zenith Knights, "My Blue Ridge Mountain Home."
Cova Cavaliers, "Like a Dream" (Rose-Russell-Soloman).
- 11.9: Polka—Al Hopkins and His Buckle Busters, "Polka Medley."
Foxtrots—Carl Fenton and His Orchestra, "Sing You Sinners."
Zenith Knights, "We'll Be Married in June."
George Posnack and Orchestra, "Black Horse" (Tartò).
- 11.21: Vocal—Tommy Weir, "Waiting Through the Night."
11.24: Foxtrots—Broadway Players, "Watching My Dreams Go By."
Carl Fenton and His Orchestra, "Keep on the Sunny Side."
Zenith Knights, "Where the Golden Daffodils Grow."
George Posnack and Orchestra, "Whippoorwill" (De Voll).
- 11.36: Waltz—Eight Radio Stars, "Always in My Heart" (Drew-Perry).
Foxtrots—Carl Fenton and His Orchestra, "Apart From You."
The New Yorkers Orchestra, "Because I'm Lonesome."
- 11.45: Vocal—Mildred Grizelle, "So Sympathetic" (Kahn-Archer).
11.48: Foxtrots—Cova Cavaliers, "Telling It To The Daisies."
Carl Fenton and His Orchestra, "Exactly Like You."
George Dobkins and His Orchestra, "Love Me In My Dreams" (Lillich).
The New Yorkers, "Ro, Ro, Rolling Along."
- 11.55: Description of New Year Festivities relayed from the Ferry Building.
12.5: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, DECEMBER 31.

- 3.0: Chimes. Selected studio items.
3.30 and 4.30: Sporting results to hand.
5.0: Children's session.
6.0: Dinner music session.
Milan Symphony Orchestra, "Semiramide Overture" (Rossini).
Symphony Orchestra, "Tales from the Vienna Woods" (Strauss).
- 6.15: Herman Finck and His Orchestra, "Old and New" (Potpourri of popular melodies), Parts 1 to 4 (arr. Herman Finck).
- 6.30: Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
Columbia Symphony Orchestra, "Al Fresco" (Herbert).
Symphony Orchestra, "Artist's Life" (Strauss).
Milan Symphony Orchestra, "Cavalleria Rusticana" (Intermezzo).
- 6.45: Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
Columbia Symphony Orchestra, "Badinage" (Herbert).
Royal Philharmonic Orchestra, "Blue Danube" (Strauss).
- 7.0: News session, market reports and sports results.
8.0: Chimes. Overture—2YA Orchestra (conductor, Signor A. P. Truda), "Knight Errant" (Gruenwald).
8.9: Soprano—Mrs. R. D. Potts, "My Prayer" (Squire).
8.13: Novelty duo—Messrs. J. H. Thomas and B. French, (a) "My Song of the Nile" (Bryan and Meyer); (b) "Home, Sweet Home."
8.18: Bass—Mr. C. W. Edwards, (a) "The Windmill" (Nelson); (b) "Youth" (Allitsen).
8.24: Selection—Orchestra, (a) "In a Chinese Temple Garden" (Ketelbey); (b) "In a Clock Store" (Orth).
8.32: Humour—Mr. Cedric Gardiner, "How's Your Mother" (Farjeon).
8.37: Selection—Band of H.M. Grenadier Guards, "Wine, Women and Song."
8.41: Contralto—Mrs. C. W. Edwards, (a) "My Dear Soul" (Sanderson); (b) "Cradle Song" (Kreisler).
8.48: Tenor—Mr. A. H. Outtrim, "My Dreams" (Tosti).
8.52: Selection—Orchestra, "The Bohemian Girl" (Balfé-Finck).
9.0: Weather report and station notices.
9.1: Soprano—Mrs. R. D. Potts, (a) "June Rapture" (Lehmann); (b) "Lovers in the Lane" (Lehmann).
9.7: 'Cello—W. H. Squire, "Sicilienne" (Faure).
9.11: Mr. C. W. Edwards, (a) "The Bellringer" (Wallace); (b) "Bois Epais" (Lully).
9.17: Novelty duo—Messrs. J. H. Thomas and B. French, (a) "Dancing with Tears in My Eyes" (Dubin-Burke); (b) "Old Kentucky Home" (Foster).
9.22: Humour—Mr. Cedric Gardiner, "Poor Pussy" (Farjeon).
9.27: Novelty—Orchestra, (a) "The Maurice Tango" (Hein); (b) "The Scarecrow" (Ringleben); (c) "Without You Emmaline" (de Rose).
9.37: Contralto—Mrs. C. W. Edwards, "The Swallow" (Brahms); "The Birth of Morn" (Leoni).
9.42: Organ—W. G. Webber, "Fantasia of Old Song" (arr. Webber).
9.50: Tenor—Mr. A. G. Outtrim, (a) "I Pitch My Lonely Caravan at Night" (Coates); (b) "Mountain Lovers" (Squire).
9.56: Concert waltz—Orchestra, "Pluie D'Or" (Waldteufel).
10.1: Dance Programme.
Foxtrots—Waring's Pennsylvanians, "With You" (Berlin).
Leo Reisman and Orchestra, "Charming" (Grey, Stothart).
Waring's Pennsylvanians, "There's Danger in Your Eyes, Cherie" (Richmond, Meskill, Wendling).
Nat Shilkret and His Orchestra, "Caribbean Love Song."
10.12: Waltz—Leo Reisman and His Orchestra, "Shepherd's Serenade."
Foxtrots—Rudy Vallee and His Connecticut Yankees, "Celebrated Stein Song" (Fenstad, Colcord, Vallee).
Jack Hylton and His Orchestra, "Bunkey Doodle-I-Doh."
10.21: Vocal—Chick Endor, "Singin' in the Bathtub."
10.24: Foxtrots—The High Hatters, "In My Little Hope Chest."
Jack Hylton and His Orchestra, "We're Uncomfortable."
The High Hatters, "Sing You Sinners" (Coslow, Harling).

- Waltz—George Olsen and His Music, "Romance."
10.36: Foxtrots—Nat Shilkret and His Orchestra, "When I'm Looking at You" (Grey, Stothart).
George Olsen and His Music, "After a Million Dreams."
Nat Shilkret and His Orchestra, "The Rogue Song."
10.45: Vocal—Chick Endor, "Lady Luck" (Perkins).
10.48: Foxtrots—George Olsen and His Music, "I'm on a Diet of Love."
Jack Hylton and His Orchestra, "House on the Hill Top."
George Olsen and His Music, "Mona."
Jack Hylton and His Orchestra, "Dreamy Honolulu."
11.0: 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 Louisiana Moon" (Donaldson).
11.12: 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).
11.21: Vocal—Art Leonard, "Ten, Twenty, Thirty Years Ago" (O'Hagan).
11.24: Foxtrots—Ipana Troubadours, "Blue is the Night" (Fisher).
Rhythmic Troubadours, "I'm in the Market for You."
Ipana Troubadours, "Whippoorwill" (de Voll).
11.33: Waltzes—Stellar Dance Band, "I'll Always Be Dreaming of Me."
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."
11.45: Vocal—Art Leonard, "Around the Corner" (Kahn and Kassel).
11.48: 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."
11.15: Relay of Watch Night Service from St. John's Presbyterian Church.
God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, DEC. 31

- 3.0: Gramophone recital.
4.25: Sports results.
5.0: Children's hour, conducted by Aunt Pat.
6.0: Dinner music session.
Finck's Orchestra, "Gaiety Echoes" (Caryll-Monckton).
Sandler's Orchestra, "Las Lagarteranas" (Guerrero and Foulkes).
Violin—Lipschultz, "La Golondrina" (Sorradello).
6.15: J. H. Squire's Celeste Octet, "Everybody's Melodies" (arr. J. H. Squire).
Organ—John Hassel, "By the Waters of Minnetonka" (Lieurance).
Sandler's Orchestra, "Raphaellito" (Guerrero and Foulkes).
6.30: Regal Cinema Orchestra, "Broadway Selection" (Gottler).
Violin—Lipschultz, "Estrellita" (Ludlow).
Romani and Italian Orchestra, "Old Comrades March" (Teike).
6.45: Berlin State Orchestra, "Die Fledermaus" (Strauss).
Nullo's Romani's Orchestra, "Canto al Inverno."
Russian Novelty Orchestra, "Tesoro Mio" (Becucci).
7.0: News session.
8.0: Chimes. Overture—Orchestré de la Societé des Concerts, "In the Steppes of Central Asia" (Borodine).
8.8: Avonside Male Quartet, "Comrades in Arms" (Adams).
Tenor—Mr. Mark Woodward, "She is Far from the Land" (Lambert).
8.16: Instrumental—Studio Octet (Conductor, Mr. Harold Beck), (a) "Plymouth Hoe" Overture (Ansell); (b) "Canzonetta" (O'Donnell).
8.29: Bass—Mr. A. E. Ward, "In the Depths of the Coral Caves" (Leigh).
8.33: Humour in song and story—Mr. J. Lockhart, "Buying a Stamp."
8.38: Waltz—Nat Shilkret's Orchestra, "Dream Lover" (Grey).
8.41: Avonside Male Quartet, "In Absence" (Buck).
8.44: Soprano—Miss A. Campbell, (a) "Ave Maria" (Gounod); (b) "When We Meet" (Hope Temple).
8.51: Orchestral—Rudy Vallee and His Connecticut Yankees, "A Little Kiss Each Morning" (Woods).
8.54: Baritone—Mr. D. Davies, "The Midshipmite" (Adams).
8.57: March—Sousa's Band, "Golden Jubilee" (Sousa).
9.0: Weather report and station notices.
9.2: Instrumental—Studio Octet, (a) "Pizzicato" (O'Donnell); (b) "Tom Jones Dances": (1) Morris Dance, (2) Gavotte, (3) Jig (German).
9.12: Avonside Male Quartet, (a) Rest, Dearest, Rest" (Kucken); (b) "Ye Shepherds, Tell Me" (Mazzinghi).
Baritone—Mr. A. Kinvig, "Queen of Angels" (Piccolomini).
9.28: Mouth organ—P. C. Spouse, (a) "Medley of Scotch Reels"; (b) "Hornpipe Medley."
9.29: Soprano—Miss Addie Campbell, (a) "The Mother Song" (McGeoch); (b) "You're First, Wee Lassie" (McGeoch).
Baritone—Mr. D. Davies, "Devonshire Cream and Cider" (Sanderson).
9.37: Humour in song and story—Mr. J. Lockhart, "There's Nothing Like Jolly Good Health" (Weston Lee).
9.43: March—Sousa's Band, "Riders of the Flag" (Sousa).
9.45: Avonside Male Quartet, (a) "Spring's Delight" (Muller); (b) "Mozart's Quittos" (Paul Bliss).
9.50: Selection—Studio Octet, "The Gondoliers" (Sullivan).
10.0: Dance music until 11.45 p.m.
Foxtrots—Hal Swain's Cafe Royal Band, "Dance of the Paper Dolls."
Ted Wallace and His Campus Boys, "Jericho" (Meyers).
Hal Swain's Cafe Royal Band, "Petticoat Lane."

- Waltz—The Columbians, "Christina" (Gottler, Mitchell, Conrad).
 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 and Whiting)
 10.21: Foxtrots—Jan Ralfini and His Band, "Deep Night."
 Stellar Dance Band, "Honey."
 Jan Ralfini and His Band, "Fashionette."
 The Harmonians, "Little Pal."
 10.33: Waltzes—Rudy Vallee and His Connecticut Yankees, "Bye and Bye
 Sweetheart" (Valentine, Ford and Yellen).
 Bar Harbour Society Orchestra, "Celia."
 Foxtrots—Rudy Vallee and His Connecticut Yankees, "Caressing You."
 Will Prior and His Stage Band, "I Paw Down an' go Boom."
 10.45: Vocal duet—Billy Jones and Ernest Hare, "Spring is Here."
 Foxtrots—Paul Specht and His Orchestra, "The Things that Were
 Made for Love" (Tobias and de Rose).
 Ted Wallace and His Campus Boys, "I've Got a Feeling I'm
 Falling" (Link, Waller and Rose).
 Ipana Troubadours, "Old Fashioned Lady."
 The Columbians, "Pagan Love Song" (Brown and Freed).
 11.0: Foxtrots—George Posnack and His Orchestra, "Punch and Judy."
 Zenith Knights, "Eyes of Blue."
 Carl Fenton and His Orchestra, "What is this Thing Called
 Love" (Cole-Porter).
 Waltz—Cova Cavaliers, "Louisiana Moon" (Walter Donaldson)
 11.12: Foxtrots—New Yorkers, "If I Were King."
 Zenith Knights, "Get Yourself a Sweetie."
 Carl Fenton and His Orchestra, "The Stein Song."
 Jack Montrose and Orchestra, "Valparaiso."
 11.24: Vocal—Tommy Weir, "That's When I Learned to Love You."
 11.27: Foxtrots—New Yorkers, "Happy Days Are Here Again" (Ager-Yel-
 len); "Kicking a Hole in the Sky" (Rose, MacDonald-
 Greer); "Fireworks" (Williams).
 11.36: Waltz—Cova Cavaliers, "Sweet Kentucky Nights."
 Foxtrots—Carl Fenton and His Orchestra, "Won't Cha" (Razaf-Den-
 niker); "That's When I Learned to Love You."
 11.45: Relay from Cathedral Square of the New Year Celebrations, including
 Anglican Cathedral peal of bells ringing out the old and ringing
 in the New Year.
 12.5: From the studio—The Avonside Male Quartet, "The Bill of Fare."
 For Auld Lang Syne.
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, DECEMBER 31.

- 3.0: Chimes. Selected recordings.
 5.0: Children's session conducted by Big Brother Bill.
 6.0: Dinner music session:
 New Light Symphony Orchestra, "Scene de Ballet—Marionettes."
 Berlin State Opera Orchestra, "Polonaise No. 2" (Liszt).
 Violin—Mischa Elman, "Vocalise" (Rachmaninoff, arr. Press).
 6.15: National Symphony Orchestra, "Fra Diavolo" Overture (Auber).
 Piano—Vladimir de Pachmann, (a) "Mazurka in C Sharp Minor,"
 Op. 63, No. 3; (b) "Mazurka in A Minor," Op. 67, No. 4 (Chopin).
 Trio—De Groot (violin), David Bor (piano), H. M. Calve ('cello),
 "El Religario" (Padilla).
 6.30: Band of H.M. Coldstream Guards, "Martha" Selection (Flotow).
 Violin—Mischa Elman, "Caprice in E Flat Major" (Wieniawski).
 New Symphony Orchestra, "Air on G String" (Bach).
 6.45: New Light Symphony Orchestra, "Persiflage" (Francis).
 New Symphony Orchestra, "Londonderry Air" (arr. Grainger).
 Trio—De Groot (violin), David Bor (piano), H. M. Calve ('cello),
 "Selection in Hebrew Melodies" (arr. Saunders).
 Piano—Vladimir de Pachmann, "Nocturne in E Minor," Op. 72 (Chopin).
 7.0: News session, sports results and market reports.
 8.0: Studio concert by the Dunedin Highland Pipe Band under the conduc-
 torship of Pipe-Major McMillan and assisted by 4YA artists.
 Selections—The Band, (1) "Jenny's Bawbee," (2) "Lochanside," (3)
 "Blue Bonnets are Over the Border," (4) "Because He was a
 Bonny Lad," (5) "High Road to Linton" (MSS.).
 8.11: Tenor—Mr. J. Simpson, (a) "Afton Water" (Hume), (b) "Who Is
 Sylvia?" (Schubert).
 8.17: Selection—J. H. Squire's Celeste Octet, "Perpetuum Mobile" (Weber).
 8.21: Soprano—Miss S. Couper, "Legend" (Tschalkowsky).
 8.24: Marimbaphone—Mr. R. M. Stewart, (a) "Tackle the Ivories" (Herzer),
 (b) "When We Come to the End of the Day" (Westphal).
 8.31: Selections—The Band, (1) "Mackenzie Highlanders," (2) "Corporal
 Crighton," (3) "Tel-el-Kebir," (4) "Lady Mackenzie," (5) "Sandy
 Duff" (MSS.).
 8.41: Baritone—Mr. L. J. Neilson, (a) "Youth" (Allitsen), (b) "Only the
 River Running By" (Hopkins).
 8.45: Selection—J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein).
 8.49: Selections—The Band, (1) "79th Farewell to Gibraltar," (2) "Green
 Hills of Tyrol," (3) "Gordon's March," (4) "Bob of Feticairn,"
 (5) "Sleepy Maggie" (MSS.).
 9.0: Weather report and station notices.
 9.2: Selection—Paul Whiteman's Concert Orchestra, "Rhapsody in Blue."
 9.10: Soprano—Miss S. Couper, (a) "Easter Flowers" (Sanderson), (b)
 "Pale Moon" (Logan).
 9.16: Accordion—Pietro, "Tres Jolie" (Waldteufel).
 9.19: Tenor—Mr. J. Simpson, "She is Far from the Land" (Lambert).
 9.22: Marimbaphone—Mr. R. M. Stewart, "I Want to Meander in the
 Meadow" (Woods).

- 9.26: Selections—Band, (a) "Heroes of Flodden," (b) "Heroes of Vittoria,"
 (c) "Dovecote Park" (MSS.).
 9.36: Baritone—Mr. L. J. Neilson, (a) "You in a Gondola" (Clarke), (b)
 "Annie Laurie" (Traditional).
 9.42: Selections—The Band, (a) "Earl of Mansfield," (b) "Robina's Waltz,"
 (c) "48th Canadians" (MSS.).
 9.52: Chorus—Ray Starita's Ambassadors' Band and Chorus, "The Five
 O'Clock Girl" (Kahnar).
 10.0: Dance session:
 Foxtrots—Paul Tremaine and His Orchestra, "Hand Me Down My
 Walkin' Cane" (arr. Tremaine).
 Paul Whiteman and His Orchestra, "Happy Feet."
 Ray Starita and His Ambassadors Band, "Ev'ry Little Mo-
 ment" (Newman, Grey, Ellis).
 Paul Whiteman and His Orchestra, "A Bench in the Park."
 10.12: Waltzes—Russian Novelty Orchestra, "Greetings of Spring."
 Novelty Dance Orchestra, "Sobbing Waltz."
 10.18: Vocal—James Melton, "Neapolitan Nights."
 10.21: Foxtrots—Ben Selvin and His Orchestra, "The Woman in the Shoe."
 Paul Whiteman and His Orchestra, "Should I?" (Brown).
 The Rhythmic Troubadours, "On Her Doorstep Last Night."
 10.30: Waltzes—Paul Whiteman and His Orchestra, "A Bundle of Old Love-
 Letters" (Brown).
 Moana Orchestra, "Tini Au Ia Oe" (King).
 Foxtrots—The Rhythmic Troubadours, "Fairy on the Clock" (Myers).
 Ben Selvin and His Orchestra, "Only Love Is Real."
 10.42: Vocal—Ernest Hastings, "Perverted Placards" (Bateman-Hastings).
 10.45: Foxtrots—Paul Specht and His Orchestra, "The Harbour of My Heart."
 Gil Dech and His Syncopators, "Let's Be Common."
 Paul Specht and His Orchestra, "Keepin' Myself for You."
 Ray Starita and His Ambassadors Band, "Spread a Little
 Happiness" (Grey, Newman, and Ellis).
 10.57: Waltzes—Russian Novelty Orchestra, "The Love of a Gipsy."
 Novelty Dance Orchestra, "First Love Waltz."
 11.3: Foxtrots—Ben Selvin and His Orchestra, "Song of the Islands" (King).
 Moana Orchestra, "For You a Lei" (Noble, Hyatt).
 Gil Dech and His Syncopators, "Nobody's Using It Now."
 11.12: Vocal—James Melton, "Dear Little Mother of Mine" (Jayne, Sterling).
 11.15: Foxtrots—Guy Lombardo and His Royal Canadians, "With You."
 Will Osborne and His Orchestra, "I Knew We Two Were
 One" (Denniker, Osborne).
 Guy Lombardo and His Royal Canadians, "There's Danger
 In Your Eyes, Cherie" (Richman, Meskill, Wendling).
 Waltzes—Moana Orchestra, "My Hawaiian Souvenir" (King).
 Vic Meyer and His Band, "If I'm Dreaming" (Burke).
 11.30: Relay from the Octagon of the New Year street celebrations.
 12.0: Midnight. New Year chimes.
 Pipes and chorus—Pipe-Major McMillan and New Year Chorus Party,
 (a) "Auld Lang Syne" (traditional), (b) Selections (traditional).
 12.10: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, DEC. 31.

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

Thursday, January 1**1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, JANUARY 1, 1931.**

- 11.30: Results of Auckland Racing Club's Meeting at Ellerslie, interspersed
 with gramophone items.
 5.0: Children's session, conducted by "Peter Pan."
 6.0: Dinner music session.
 Waltz—Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde); (b)
 (Mignonette) (Nicholls).
 Dajos Bela Orchestra, "Eldgaffeln" (Landen).
 6.15: Frank Westfield's Orchestra, "Classica" (arrgd. Tilsley).
 Organ—Sigmund Krungold, "Indian Love Call" (Friml).
 Waltz—Dajos Bela Orchestra, "You, Only You" (Arnold).
 6.30: Selection—Raie da Costa Ensemble, "Funny Face" (Gershwin).
 Waltz—Dajos Bela Orchestra, "The Sphinx" (Popy).
 6.45: Instrumental—Orchestra Mascotte, (a) "The Flowers' Dream"
 (Translateur); (b) "Whispering of the Flowers" (Von Blon).
 Organ—Sigmund Krungold, "Gypsy Love Song" (Herbert).
 Instrumental—Dajos Bela Orchestra, "Electric Girl."
 7.0: News and market reports.
 8.0: Chimes. Selection—Reg. Morgan's Orchestra, "Community Land."
 Saxophone duo—Messrs. C. and V. Hoffman, "La Golondrina" (Ser-
 radell). Novelty—Reg. Morgan's Orchestra, "Anchor's Aweigh"
 (Zimmerman); "When the Little Red Roses" (Barke).
 8.17: Bass-baritone—Mr. Albert Gibbons Taylor, (a) "The Dear Homeland"
 (Slaughter); (b) "Ould John Braddlem" (Lyal Johnson); (c)
 "The Wreck" (Little); (d) "Simon the Cellarer" (Hatton).
 8.31: Instrumental—Ingall's Hawaiian Quartet, (a) "Wallana" (Kilau);
 "Maori Melodies" (arrgd. Ingall); (d) "Hilo March" (Lilikalani);
 (e) "Kallma Waltz" (Awai).

- 8.46: Soprano—Mrs. Laetitia Parry, (a) "The Wreath" (Ray); (b) "Ring Out, Wild Bells" (Blockley); (c) "The Meeting of the Waters" (Old Irish); (d) "Kate O'Shane" (Old Irish).
- 8.58: Evening weather forecast and announcements.
- 9.0 : Novelty—Reg. Morgan's Orchestra, "I'm in the Market for You."
Violin—Mr. G. Fowler, "Hej Haj" (Drda).
Piano solos—Mr. Reg. Morgan, (a) "O Sole Mio" (Di Capua); (b) "Just a Song at Twilight" (Molloy).
Novelty—Reg. Morgan's Orchestra, "Just Like a Story Book" (Hanley).
Baritone—Mr. Reg. Morgan, "Folks Who Live Beside the Sea."
- 9.18: English concertina—Mr. Robert McKnight, (a) "The Manhattan March" (Sousa—arrgd. Seymour); (b) "Londonderry Air" (arrgd. Reeves); (c) "Life Let Us Cherish" (with variations).
- 9.30: Programme of dance music by Reg. Morgan and His Orchestra.
- 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, JANUARY 1, 1931.

- 3.0 : Chimes. Selected studio items.
- 3.30 and 4.30: Sporting results to hand.
- 5.0 : Children's session, conducted by Uncle George and Big Brother Jack.
- 6.0 : Dinner music session.
Royal Italian Band, "Marcia Reale" (Gabetti).
Court Symphony Orchestra, "In Venice" (Sellars).
Organ—Stanley MacDonald, "Was it a Dream?" (Coslow).
Royal Italian Band, "Garibaldi's Hymn" (Olivieri).
- 6.15: Ketelbey's Concert Orchestra, "Sanctuary of the Heart" (Ketelbey).
Cello—W. H. Squire, "Melody in F" (Popper).
- 6.30: W. H. Squire's Celeste Octet, "Mignon": (1) Introduction and Romance, (2) Polonaise (Thomas).
Cello—W. H. Squire, "Silver Threads Among the Gold" (Danks).
- 6.45: H.M. Grenadier Guards, "Turkish Patrol" (Michaelis).
Organ—Stanley MacDonald, "Nicolette" (Batten).
Jaque Jacobs' Ensemble, "Weiner Blut" (Strauss).
H.M. Grenadier Guards Band, "Smithy in the Woods" (Michaelis).
- 7.0 : News session, market reports and sports results.
- 8.0 : Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Jolly Fellows" (Suppe).
- 8.9 : Soprano—Miss Myra Sawyer, "Adrift" (Bantock).
- 8.12: Selection—Band of H.M. Grenadier Guards, "Lo, Here the Gentle Lark."
- 8.20: Bass-baritone—Mr. William Boardman, "Bedouin Love Song."
Saxophone—Mr. W. J. Haines, "In an Old-Fashioned Town" (Squire).
- 8.24: Selection—Salon Orchestra, "Trovatore Fantasia" (arrgd. Lange).
- 8.33: Humorous sketch—The Sketchers, "Artistic Temperament" (Herbert).
- 8.38: Jazz at the piano—Mr. Allan Shand, (a) "Sleepy Piano" (Mayerl); (b) "Kewpie" (Rose).
- 8.43: Contralto—Miss Evelyn Robinson, "The Bitterness of Love" (Dunn).
- 8.46: Cello—W. H. Squire, "Gavotte" (Mehul).
- 8.49: Tenor—Mr. Harry Phipps, "Ailsa Mine" (Newton).
- 8.52: Selection—Salon Orchestra, "Three Light Pieces" (Somervell).
- 9.0 : Weather report and station notices.
- 9.2 : Soprano—Miss Myra Sawyer, "Oh, Erin, My Country" (Traditional).
- 9.6 : Violin—Frank Quinn, "The Temple House Reel."
- 9.9 : Bass-baritone—Mr. William Boardman, "Forging the Anchor" (Rodney).
- 9.12: Jazz at the piano—Mr. Allan Shand, (a) "What a Wonderful World" (arrgd. Lee Sims); (b) "Latest Popular Hit."
- 9.17: Humorous sketch—The Sketchers, "The Black Cat" (Elliott).
- 9.23: Musical comedy selection—Salon Orchestra, "My Son John."
- 9.31: Contralto—Miss Evelyn Robinson, (a) "Eriskay Love Lilt" (Kennedy-Fraser); (b) "I Heard You Singing" (Coates).
- 9.38: Organ—Quentin Maclean, (a) "Lily of Laguna" (Stuart); (b) "Little Dolly Daydream."
- 9.44: Tenor—Mr. Harry Phipps, (a) "Maid of Malabar" (Adams); (b) "Nirvana" (Adams).
- 9.51: Dance novelties—Salon Orchestra, "Latest Dance Novelties."
- 10.1 : Dance programme.
Foxtrots—Jesse Stafford and His Palace Hotel Orchestra, "Sophomore Prom" (Klages-Greer).
Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Reach Out for a Rainbow" (Conrad-Mitchell-Gottler).
Irving Mills and His Hotsy Totsy Gang, "My Little Honey and Me" (Hackforth).
Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Parade of the Blues" (Conrad-Mitchell-Gottler).
- 10.12: Vocal—David McAlpine, "Paddy McGinty's Goat" (Weston).
Foxtrots—Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "I Could do it for You" (Conrad-Mitchell-Gottler).
Dan Russo and His Oriole Orchestra, "Wouldn't it be Wonderful?" (Clarke-Akst).
Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "Hard to Get" (Meyer-Bryan-McLaughlin).
- 10.42: Waltz—Carter's Orchestra, "Missouri Moon" (Parish Lodge).
Eddy Shaw's Hawaiians, "Sweetheart of the Tropical Sea."
Foxtrots—Hal Kemp and His Orchestra, "Hi'lo, Baby."
Red Nicholls and His Strike-up-the-Band Orchestra, "Strike Up the Band" (Gershwin).
- 10.86: Vocal—David McAlpine, "The Garden Where the Praties Grow."
Foxtrots—Hal Kemp and His Orchestra, "A Little Kiss Each Morning."
Red Nicholls and His Strike-up-the-Band Orchestra, "Soon."
Waltzes—Eddy Shaw's Hawaiians, "Under the South Sea Moon."
- 20.48: Carter's Orchestra, "Daddy's Lullaby" (de Voll-Gene-Gord-Glen).

Foxtrots—Bob Haring and His Orchestra, "Love Made a Gypsy Out of Me" (Phillips-de Costa—Zimmerman).

Hal Kemp and His Orchestra, "I Love You, Believe Me, Love You" (Cowan-Bartholomae-Boutelje).

Bob Haring's Orchestra, "Georgia Pines" (Trent-de Rose).

11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, JANUARY 1.

- 11.45: Results of Canterbury Trotting Club's meeting at Addington, interspersed with gramophone records.
- 5.0 : Children's Hour, conducted by Aunt Pat.
- 6.0 : Dinner music session.
Suite—Ketelbey's Concert Orchestra, "In a Fairy Realm" (Ketelbey),
1. The Moonlit Glade; 2. The Queen Fairy Dances; 3. Gnomes March.
- 6.15: Columbia Symphony Orchestra, "March of the Bojaren."
Cello—Gaspar Cassado, "Melodie Arabe" (Glazounov).
New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates).
- 6.30: New Queen's Hall Light Orchestra, "Summer Day Suite" (Coates):
1. "In a Country Lane"; 2. "On the Edge of the Lake"; 3. "At the Dance."
- 6.45: J. H. Squire's Celeste Octet, "Memories of Mendelssohn" (arr. S.).
Columbia Symphony Orchestra, "Bridal Procession" (Grieg).
- 7.0 : News session.
- 8.0 : Chimes. Overture—The Rhythmic Troubadours, "Song of the West" selection (Youmans and Robinson).
- 8.3 : Baritone—Mr. T. D. Williams, "Here's to Love" (Rubens).
Salon Quartet—"Land of Long Ago" (Lillian Ray).
Soprano—Miss Mary O'Connor, (a) "Morning and You" (Aylward); (b) "All in a Garden Green" (Lidgey).
- 8.13: Instrumental—Studio Octet (Harold Beck, Conductor), "Faust" Overture" (Gounod. arr. Schlegel).
- 8.19: Tenor—Mr. H. J. Francis, "On With the Motley" (from "Pagliacci").
Soprano and baritone—Salon Duo, "As I Went A' Roaming" (Brahe).
- 8.26: Humour—Mr. George Titchener, "It's Lovely To Be in Love."
- 8.31: Instrumental—Studio Octet, (a) "Hindoo Song" (Bemberg); (b) "At Evening" (Debussy); (c) "Open Thy Blue Eyes" (Massenet).
- 8.40: Contralto—Miss Dulcie Mitchell, "My Ain Folk" (Lemon).
Baritone—Mr. T. D. Williams, "Lads of Devon" (Loughborough).
Salon Quartet—"Believe Me If All Those Endearing Young Charms."
- 8.50: Studio Octet, (a) "Russian Dance No. 2" (Borthiewicz); (b) "Valse Lente" (Luigini); (c) "Second Minuet" (Besly).
- 9.0 : Weather forecast and station notices.
- 9.2 : Soprano—Miss Mary O'Connor, (a) "When All The Bonny Birds" (Speaks); (b) "The Blackbird's Song" (Sanderson).
Tenor—Mr. H. J. Francis, (a) "Ah! Moon of My Delight" (Lehmann), (b) "Life" (Curran).
- 9.10: Humour—Mr. George Titchener, "Bed, Beautiful Bed" (Borny-Cash).
- 9.15: Studio Octet, (a) "Scene De Ballet" (Tscherepnine); (b) "Vecchio Minuetto" (Sgambati); (c) "Russian Dance No. 4."
- 9.27: Contralto—Miss Dulcie Mitchell, "My Ships" (Barratt).
Contralto and Tenor—Salon Duo, "Rose of My Heart" (Lohr).
- 9.32: Dance music until 11 p.m.
Foxtrots—Tom Clines and His Music, "Miss Wonderful"
Roger Wolfe Kahn and His Orchestra, "Cooking Breakfast For The One I Love" (Rose, Tobias).
Tom Clines and His Music, "Somebody Mighty Like You."
Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "You Can't Believe My Eyes" (Bryan-Meyer).
Abe Lyman and His California Orchestra, "The Rogue Song" (Grey-Stohart).
- 9.45: Vocal—Dick Robertson, "Singin' in the Bathtub."
Foxtrots—Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "If I Can't Have You" (Bryan-Meyer).
Isham Jones' Orchestra, "Nine Rosa" (Caesar-Romberg).
Abe Lyman and His California Orchestra, "When I'm Looking at You" (Grey-Stohart).
Waltz—Isham Jones' Orchestra, "Your Smiles, Your Tears."
- 10.0 : Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad-Mitchell-Gottler); "Beside an Open Fireplace" (Denniker-Osborne); "Hangin' on the Garden Gate" (Kahn-Fiorito); "Just Can't Be Bothered With Me."
- 10.12: Vocal—Belle Baker, "I'm Walking With the Moonbeams."
Foxtrots—Roger Wolfe Kahn and His Orchestra, "When a Woman Loves a Man" (Rose-Rainger).
Bob Haring and His Orchestra, "Do Ya' Love Me?"
Waltz—Carter's Orchestra, "California Sunshine" (Ford-Earl).
- 10.24: Foxtrots—Bob Haring and His Orchestra, "Where You Are."
Ben Bernie and His Orchestra, "West Wind."
- 10.30: The A and P Gypsies, "Gypsy Dream Rose."
Colonial Club Orchestra, "Why Do You Suppose" (Hart-Rodgers).
Bob Haring and His Orchestra, "Under a Texas Moon" (Perkins).
- 10.39: Vocal—Dick Robertson, "Lady Luck" (Perkins).
Foxtrots—Colonial Club Orchestra, "My Man Is On The Make."
Ben Bernie and His Orchestra, "The One Girl" (Youmans).
Waltz—Carter's Orchestra, "Old Virginia Moon" (Crawford-Kahn).
Foxtrots—Abe Lyman and His California Orchestra, "Lucky Me Lovable You" (Yellen-Ager).
Fred Hamm and His Orchestra, "We Love Us."
Abe Lyman and His California Orchestra, "Love Ain't Nothin' But The Blues" (Goodwin-Alter).
- 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, JANUARY 1.

- 3.0 : Selected recordings.
 6.0 : Dinner music session.
 New Symphony Orchestra; "Toy Symphony" (Romberg).
 Concert Orchestra, "Minuet" (Boccherini).
 International Novelty Orchestra, "Lazy Pete" (Kersten).
 6.15: Zonophone Salon Orchestra, "Old Rustic Bridge" (Skelly).
 International Novelty Orchestra, "Sya" Waltzes (Lehar).
 Organ—Sidney Gustard, "Cuckoo" (Jonasson).
 International Novelty Quartet, "Over the Waves" (Rosas).
 8.30: International Novelty Orchestra, "Carmen Sylva" (Ivanovici).
 Zonophone Salon Orchestra, "Killarney" (Balfe).
 International Novelty Orchestra, "Parade of the Wooden Soldiers."
 International Novelty Quartet, "See Me Dance the Polka."
 6.45: Concert Orchestra, "Sous Bois" (Staub).
 Organ—Sandy Macpherson, "I Promise" (Hirsch, Wilhite).
 National Symphony Orchestra, "Zampa" Overture (Herold).
 7.0 : News and sporting results.
 8.0 : March—Band of H.M. Grenadier Guards, "Marche Slav."
 8.9: Baritone—Mr. B. Rawlinson, (a) "A Wee Drappie O't" (Anon); (b) "Flat-footed Jean" (Boothby); (c) "Ta Clerk in Ta Offish."
 8.1: Trio—Miss Holmes, Miss Judd and Miss Moffatt, "Poupee" (Poldini); "The Swan" (Saint-Saens).
 8.31: Ten minutes of Scottish humour in song and story by Mr. Jock Lockhart, 3YA's Scottish Comedian.
 8.41: Soprano—Miss A. Young, (a) "L'Ete" (Chaminade); (b) "Go Down to Kew in Lilac Time" (Peel); (c) "Blackbird's Song" (Scott).
 8.51: Light baritone—Mr. D. Wrathall, "Uncle Rome" (Homer); "A Fat Lil Feller wid His Mammy's Eyes" (Gordon); "Lorraine, Lorraine, Loree" (Capel).
 9.1 : Weather report and station notices.
 9.3 : Contralto—Mrs. E. Stone (a) "Bubble Song" (Friml); (b) "Praise of God" (Beethoven); (c) "Sink Red Sun" (Del Riego).
 9.18: Selections—Instrumental trio, "Three Pieces" (Pache). 1—"Serenade"; 2—"Barcarolle"; 3—"Pizzicato Gavotte."
 9.25: Irish dialect—Miss E. M. Holland, (a) "The Drive" (Anon); (b) "Michael Dooney Writes a Letter" (Wigin).
 9.36: Further Scottish humour from Mr. Jock Lockhart.
 9.46: Violin—Miss Eva Judd, "Allegretto Grazioso" (Schubert); "Serenade" (Haydn).
 Selections—Instrumental Trio, "The Marionettes" (Mann).
 10.0 : Dance session.
 Foxtrots—Victor Arden-Phil Ohman and Their Orchestra, "How Am I to Know?" (Parker King).
 New Mayfair Dance Orchestra, "Mickey Mouse" (Carlton).
 Waring's Pennsylvanians, "Alma Mammy."
 Jack Hylton's Orchestra, "House on the Hill-top" (Mayer).
 Leo Reisman's Orchestra, "At Close of Day."
 10.15: Vocal—Mildred Hunt, "Sleepy Valley" (Sterling-Hanley).
 Foxtrots—Bernie Cummins and His Hotel Orchestra, "When a Woman Loves a Man" (Rose-Rainger).
 Nat Shilkret's Orchestra, "Georgia Pines" (Trent-de Rose).
 Waltz—Irving Aaronson and His Commanders, "The Land of Going to Be" (Goetz-Kollo).
 10.27: Foxtrots—Arcadians Dance Orchestra, "If I Had My Way."
 Ted Weems' Orchestra, "Miss Wonderful" (Bryan-Ward).
 The Rhythmic Eight, "Welcome Home" (Clarke-Akst).
 Vocal—Mildred Hunt, "S'posin'" (Razaf-Denniker).
 10.39: Foxtrots—Leo Reisman's Orchestra, "Charming" (Grey-Stothart).
 Henry Busse's Orchestra, "I Came to You."
 Waltz—Leo Reisman's Orchestra, "Shepherd's Serenade."
 10.48: Foxtrots—New Mayfair Dance Orchestra, "The Doll's House."
 Leo Reisman's Orchestra, "A Year from To-day."
 Jack Hylton's Orchestra, "Dreamy Honolulu."
 Bernie Cummins and His Hotel Orchestra, "Cooking Breakfast for the One I Love" (Rose-Tobias).
 11.0 : God save the King.

Friday, January 2

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, JANUARY 2.

- 11.30: Results of Auckland Racing Club's meeting at Ellerslie, interspersed with gramophone items.
 5.0 : Children's session, conducted by Uncle Nod and Aunt Jean.
 6.0 : Dinner music session.
 Reginald King and His Orchestra, "Song O' My Heart" selection.
 Organ—Edward O'Henry, "Dream Lover" (Schertzing).
 Marek Weber and His Orchestra, "Rustle of Spring" (Sinding).
 6.15: Band of H.M. Coldstream Guards, "Faust" selection (Gounod).
 Marek Weber and His Orchestra, "Die Fledermaus" selection.
 6.30: Marek Weber and His Orchestra, "The Beggar Student" (Millöcker).
 Organ—Edward O'Henry, "Just As We Used to Do" (Rulli).
 International Novelty Quartet, "Merry Widow Waltz" (Lehar).
 6.45: Marek Weber and His Orchestra, "My Darling Waltz."
 National Symphony Orchestra, "The Barber of Seville" (Rossini).
 International Novelty Quartet, "The Veleta" (Morris).
 7.0 : News and market reports.
 8.0 : Chimes. Overture—Band of H.M. Grenadier Guards, "Poet and Peasant" (Suppe).

- 8.9 : Mezzo-contralto—Mrs Pearl Owen, (a) "Pale Moon" (Logan); (b) "Sometimes in Summer" (Bennett).
 8.16: Overture—The Monte Carlo Orchestra, under direction Mr. F. K. Cunningham—"Raymond" (Thomas); Foxtrot—"Gee, It Must Be Love" (Richards).
 8.27: Baritone—Mr. Arthur Simpson, (a) "The Sailor's Paradise" (Richards); (b) "The Bassoon" (Ashlyn).
 8.33: Vocal and instrumental—The Neiafu Duo, (a) "Hawaiian March Medley" (Own arr.); (b) "My Waikiki Mermaid" (Cunha).
 8.41: Melodie—The Monte Carlo Orchestra, "Pensee D'Amour" (Ely).
 Selection—Monte Carlo Orchestra, "Sally" (Kern); foxtrot, "Lonesome Little Doll" (Cowan and Boutelje).
 8.58: Evening weather forecast and announcements.
 9.0 : Selection—J. H. Squire's Celeste Octet, "Memories of Mendelssohn."
 9.8 : Mezzo-contralto—Mrs. Pearl Owen, (a) "Cradle Song" (Kreisler); (b) "Four Leaf Clover" (Willeby).
 9.14: Vocal and instrumental—The Neiafu Duo, (a) "Fair Hawaii" (Kutz), (b) "A Perfect Day" (Jacobs-Bond).
 9.22: Selection—The Monte Carlo Orchestra, "No, No, Nanette."
 Foxtrot—"When I'm Looking at You" (Stothart).
 9.33: Baritone—Mr. Arthur Simpson, (a) "Adelai" (Spurin); (b) "When Song Is Sweet" (Sans Souci).
 9.40: Chorus—Ray Starita Ambassadors Band and Chorus, "The Five O'Clock Girl" (Kulmar and Ruby).
 9.48: Selection—The Monte Carlo Orchestra, "Rose Marie" (Friml and Stothart); Idyll, "Summer Nights" (Roberts); foxtrot, "Carissima."
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, JANUARY 2.

- 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:
 The Classic 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.
 6.15: 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.
 6.30: London Theatre Orchestra, "Maid of the Mountains" Selection.
 Rhythmic Troubadours, "Puttin' on the Ritz" Selection.
 Rio Novelty Orchestra, "Spaventa—Tango" (Pares and Can Parys).
 6.45: Herman Finck's Orchestra, "Schubertiana," Parts 3 and 4.
 Piano with orchestra—Gil Dech, "Ragamuffin Romeo."
 Rio Novelty Orchestra, "Mientras Lloro El Tango."
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Note: This programme is subject to interruption to permit of a relay of a sound film feature from the Majestic Theatre.
 Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Jolly Robbers" (Suppe).
 Tenor—Mr. Stewart Nelson, (a) "On Billow Rocking" (Planquette), (b) "That Night I'll Ne'er Forget" (Planquette).
 Banjo—Mr. F. Walker, (a) "The Swanee River" (Foster), (b) "Rio Rita" (Tierney-McCarthy).
 Popular songs—Miss Flora Mackenzie, (a) "Hawaiian Memories" (Heagney), (b) "A Little Kiss Each Morning" (Woods).
 Selection—Orchestra, "My Cinderella Girl" (Peters).
 Humour—Miss Fanny Kutner, "The Boy on the Stairs" (arr. Flohm).
 Musical comedy selection—Orchestra, "No, No, Nanette" (Youmans).
 Tenor—Mr. Stewart Nelson, "Boat Song" from "Jhelum River."
 Banjo—Mr. F. Walker, (a) "Girl of My Dreams" (Clapp), (b) "Darkies' Jubilee" (Morley).
 Weather report and station notices.
 Selection—Orchestra, medley, "The Girlie with the Baby Stare" (Bloom); "Rain Beau Medley" (arr. Saddler).
 Humour—Miss Fanny Kutner, "Proposals" (Clarke).
 Popular songs—Miss Flora Mackenzie, (a) "All Alone Monday" (Ruby), (b) "High, High Up on the Hills" (Abraham).
 Waltz—Orchestra, "Love Sparke" (Holzmann); one-step, "As You Please" (Larmon).
 9.30: Dance programme:
 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" (Kahn, 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 Daisies."
 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" (Leslie, Warren).
- 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" (Kalmar Ruby); "Sweepin' the Clouds Away" (Coslow).
- 10.42: Vocal trio—Earl Burnett's Biltmore Trio, "A Year from To-day."
Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunny Side the Street" (Fields).
The Jungle Band, "Sweet Mama" (Ellington, Mills).
Waltz—Earl Burnett 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.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, JANUARY 2.

- 11.45: Results of Canterbury Park Trotting Club's meeting interspersed with gramophone records.
- 4.25: Sports results.
5.0 : Children's hour, "Aunt Pat."
6.0 : Dinner music session.
March—American Legion Band, "The Conqueror" (Telke).
Selection—Savoy Orpheans, "Lido Lady" (Rodgers).
- 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."
- 6.30: 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."
- 6.45: Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli).
Wurlitzer organ—Reginald Foort, "Love Lies" (Kellard).
March—American Legion Band, "Iowa Corn Song" (arr. Beeston).
- 7.0 : News session.
8.0 : Chimes. Overture—Debroy Somers Band, "Mister Cinders."
8.9 : Bass—Mr. R. S. H. Buchanan, (a) "A Smuggler's Song" (Mortimer); (b) "The Ballad of the Knight" (Lohr); (c) "The Tavern Song."
- 8.19: Instrumental trios—Miss Thelma Cusack, Miss Marjorie Chapman and Mr. Fred Page, (a) "Serenade" (Haydn); (b) "Berceuse de Jocelyn" (Godard); (c) "Moment Musical" (Schubert).
- 8.29: Soprano—Mrs. J. A. Edwards, (a) "Sylvia" (Herbert) (from Opera "Sweethearts"); (b) "My Old Piano and Me" (Roberts); (c) "Me and You" (Huerta).
- 8.41: Humour—Mr. Jack Darragh, (a) "What a Life" (Anon); (b) "The Coster at the Races" (Anon).
- 8.51: Selections—B.B.C. Wireless Military Band, (a) "Dance of the Tumblers" (Rimsky-Korsakov); (b) "Golliwog's Cake Walk" (Debussy).
- 8.59: Weather forecast and station notices.
- 9.1 : Cello—Miss Marjorie Chapman, "Aria" (Pergolesi).
Instrumental trios—Misses Thelma Cusack, Marjorie Chapman and Mr. Fred Page, (a) "Second Valse in B Flat" (Godard); (b) "Poupee Valsante" (Poldini).
- 9.11: Contralto—Miss Nancy Bowden, (a) "Fisherland" (Day); (b) "Storm Lullaby" (Sanderson); (c) "Ye Banks and Braes" (Scottish).
- 9.21: Accordion—Mr. W. Sumner, "Medley of Popular Airs" (own arrgt.).
9.31: Tenor—Mr. H. Blakeley, (a) "The Rose of Tralee" (Spencer); (b) "Mary of Argyle" (Scottish); (c) "The Death of Nelson."
- 9.43: Cello—Miss Marjorie Chapman, "Dance Rustic" (Squire).
Instrumental trio—Misses Thelma Cusack, Marjorie Chapman and Mr. Fred Page, (a) "La Lisonjera" (Chaminade); (b) "Hungarian Dance, No. 5" (Brahms).
- 9.52: Selection—Band of H.M. Grenadier Guards, "Merrie England."
- 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, JANUARY 2.

- 3.0 : Chimes. Selected recordings.
5.0 : Children's session, conducted by Aunt Sheila.
6.0 : Dinner music session.
London Symphony Orchestra, "Czar Sultan" Suite.
International Concert Orchestra, "Waltz Dream" (Strauss).
- 6.15: New Light Symphony Orchestra, "Peer Gynt Suite" (Grieg). 1—Ingrid's Lament; 2—Arabian Dance.
New Light Symphony Orchestra, "Prelude in G Minor."
- 6.30: New Light Symphony Orchestra, "Peer Gynt Suite" (Grieg). 1—Return of Peer Gynt; 2—Solweig's Song; "Prelude in C Sharp Minor" (Rachmaninoff).
- 6.45: Philadelphia Symphony Orchestra, "Danse Orientale" (Glazounov).
International Concert Orchestra, "Sari" (Kalman).
Philadelphia Symphony Orchestra, "March of the Caucasian Chief."
- 7.0 : News session, sports results and market reports.
8.0 : Chimes. Overture—Kirilloff's Balalaika Orchestra, "Medley of Old Time Songs."
8.9 : Mezzo-soprano—Miss T. C. Blackman, (a) "Pansy" (Darewski); (b) "Adoree" (West).

- 8.15: Selection—Instrumental Quintet, (a) "Beauty Prize" (Kern); (b) "Bells of St. Mary" (Adams).
8.25: Scottish humour by Mr. Jock Lockhart.
8.35: Selection—Instrumental Quintet, (a) "Blue Kitten" (Friml); (b) "Berceuse" (Karganoff).
8.45: Soprano—Mrs. J. Marshall, "Oh Love, I Will Thy Shepherd Be."
8.48: Piano—Mrs. C. Drake, (a) "Asphodel" (Scott); (b) "Shepherds Hey."
8.54: Contralto—Miss M. Somerville, (a) "Friend o' Mine" (Sanderson); (b) "Scotch Lullaby" (Bunter).
- 9.0 : Weather report and station notices.
9.2 : Selection—Band of H.M. Coldstream Guards, "H.M.S. Pinafore."
9.10: Soprano—Mrs. J. Marshall, (a) "Believe Me, if all Those Endearing Young Charms" (Moffat); (b) "My Garden of Dreams" (Hewitt).
9.16: Selection—Instrumental Quintet, "Hullo America" (Finck).
9.26: Scottish humour by Mr. Jock Lockhart.
9.36: Selection—Instrumental Quintet, (a) "Bronze Horse" (Alba); (b) "British Patrol" (Asch).
9.44: Mezzo-soprano—Miss T. C. Blackman, "Sweet Mary" (Asphinall).
9.47: Cornet—James Compton, (a) "At Dawn" (Code); (b) "At Sunset."
9.53: Contralto—Miss M. Somerville, "The Everlasting Love" (Brahe).
9.56: Selection—Instrumental Quintet, "Country Girl" (Monckton).
10.2 : God save the King.

Saturday, January 3

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, JANUARY 3.

- 3.0 : Selected gramophone recordings.
3.30: Literary selection.
5.0 : Children's session, conducted by "Cinderella."
6.0 : Dinner music session.
March—National Military Band, "National Emblem" (Bagley).
Cello—W. H. Squire, "The Broken Melody" (Van Biene).
Albert Sandler's Orchestra, "I Kiss Your Hand, Madame" (Erwin).
Cinema organ—G. T. Pattman, "Cherie Waltz" (Valentine).
- 6.15: Court Symphony Orchestra, "The Gondoliers" (Sullivan).
Paul Whiteman's Orchestra, "Gypsy" (Gilbert).
- 6.30: Albert Sandler's Orchestra, "Chalita" (Schertzinger).
Padilla's Marimba Serenaders, "Paree" (Padilla).
Piano—Gil Dech, "Sometimes I'm Happy" (Youmans).
Royal Serbian Tambouritzza Orchestra, "Serbian Melody."
- 6.45: Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadow."
Rio Marimba Serenaders, "Dolores Waltz" (Waldteufel).
Organ—G. T. Pattman, "Worryin' Waltz" (Fairman).
March—National Military Band, "Stars and Stripes" (Souza).
- 7.0 : News session and reports.
8.0 : Chimes. Overture—London Theatre Orchestra, "Lilac Time" (Schubert-Clutsam). Selection—Debroy Somers Band, "The Singing Fool" (arr. Connelly).
- 8.16: Popular songs—Miss Eileen Smithson, (a) "In the Garden of Your Heart" (Dorel); (b) "Silver in My Mother's Hair" (Courtney); (c) "Waiting" (Croke); (d) "Your Eyes Have Told Me So."
- 8.28: Selection—Orchestral Octet, under direction of Mr. Harold Baxter, "Student Prince" (Romberg); Phantasy, "In a Chinese Temple Garden" (Ketelbey).
- 8.44: Vocal and instrumental—The Bohemian Duo, (a) "Where the Sweet For-get-me-nots" (Dixon-Warren); (b) "Since I Found You" (own arrgt.); (c) "Na Lei o Hawaii" (King); (d) "Blue Hawaii."
- 9.0 : Evening weather forecast and announcements.
9.2 : Bass-baritone—Mr. Arthur Wright, (a) "Mountain Lovers" (Squire); (b) "Keep on Keeping On" (Longstaffe); (c) "The Three Bachelors" (Russell); (d) "The Gay Highway" (Drummond).
- 9.16: Suite—Orchestral Octet, "Three Famous Pictures" (Wood); (a) "A Village Wedding"; (b) "The Doctor"; (c) "The Laughing Cavalier."
- 9.31: Soprano—Miss Phyllis Martin, (a) "June is Calling" (Sanderson); (b) "Spring's Awakening" (Sanderson); (c) "Farewell" (from "Maid of the Mountains") (Fraser-Simson); (d) "My Hero" (from "The Chocolate Soldier" (Strauss)).
- 9.44: Waltz—Orchestral Octet, "Nights of Gladness" (Ancliffe); Intermezzo, "Licheslied" (Klay); Intermezzo, "The End" (Schumann).
- 9.58: Programme of Dance Music until 11 p.m.
Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "How Am I to Know?" (Parker, King).
Arcadians Dance Orchestra, "Pepita" (Mascheroni).
Bernie Cummins and His New Yorker Hotel Orchestra, "Livin' in the Sunlight—Lovin' in the Moonlight."
The Rhythmic Eight, "Figaro" (Mitchell, Motzan).
- 10.12: Waltz—Jean Goldkette and His Orchestra, "Can You Blame Me?"
Foxtrots—Henry Busse and His Orchestra, "I Came to You."
Gus Arnheim and His Orchestra, "I'm Feathering a Nest."
- 10.21: Vocal—Olga Albani, "It's You I Love" (Davis, Coots, Swanstrom).
10.24: Foxtrots—New Mayfair Dance Orchestra, "There's Room in My Heart" (Gibbons); "Cuban Nights" (Salvato); "I'll Be Getting Along" (Gibbons).
Waltz—Bob Haring and His Orchestra, "Bye and Bye, Sweetheart."
- 10.36: Foxtrots—Nat Shilkret and His Orchestra, "Congratulations."
New Mayfair Dance Orchestra, "Cuckoo in the Clock."
George Olsen and His Music, "The Moon is Low."
- 10.45: Vocal—Grace Hayes, "In the Sunny Side of the Street" (Fields).
10.48: Foxtrots—The High Hatters, "You Brought a New Kind of Love to Me" (Kahal, Fain).

Nat Shilkret and His Orchestra, "Into My Heart."
 Herman Klein and His Orchestra, "I'm Doing What I'm
 Doing For Love" (Yellen, Ager).
 Nat Shilkret and His Orchestra, "Dark Night."

11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, JANUARY 3.

- 3.0 : Chimes. Selected studio items.
 3.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session.
 6.0 : Dinner session:
 Edith Lorand's Orchestra, "Johann Strauss" Fantasia (Strauss).
 Piano and orchestra—Raie da Costa and Orchestra, "When Day is
 Done" (De Sylva).
 6.15: Hawaiian—David Kalli, "Honolulu March."
 Organ—Leslie Harvey, "Where the Shy Little Violets Grow."
 Dajos Bela Orchestra, "The Grenadiers" (Waldteufel).
 Saxophone—Arnold Brillhart, "Fascination" (Bernie).
 6.30: Dajos Bela Orchestra, "Polish Life" (Nedbal).
 Piano and orchestra—Raie da Costa and Orchestra, "Sweetheart, I'm
 Dreaming of You" (Carter).
 Dajos Bela Orchestra, "Dancing Demoiselle" (Fall).
 6.45: Selection—Edith Lorand's Orchestra, "Dollar Princess" (Fall).
 Dajos Bela Orchestra, "Casino Tanze" (Gungl).
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon),
 (a) "Selection of Stephen Adams's Songs" (arr. Henley); novelty,
 Salon Orchestra, (a) "Funeral March of a Bumble Bee" (Marsden)
 8.16: Quartet—The Lyric, "Sing Me a Shantey with a Yo-Heave-Ho."
 Tenor—Mr. Chas. Williams, "Song of Songs" (Moya).
 Baritone—Mr. Will Goudie, (a) "The Christening" (Fisher), (b)
 "What the Red-Haired Bosun Said" (Harrhy).
 8.28: Mandolin—Mr. Lad Haywood, (a) "Liebeslied" (Kreisler), (b) "Little
 White Lies" (Donaldson), (c) "Swingin' in a Hammock" (Wend-
 ling), (d) "A Cottage For Sale" (Robison).
 8.40: Humour—Mr. Len Ashton, "Otherwise She's Mother's Kind of Girl"
 (Long); "Our Village Concert" (Bond-Andrews).
 8.49: Selections—Australian Commonwealth Band, "Slidin' Thro the Rye."
 Band of H.M. Coldstream Guards, "Light Cavalry Overture" (Suppe).
 9.0 : Weather report and station notices.
 9.1 : Xylophone with orchestra—Mr. L. Probert and Salon Orchestra, "Fav-
 ourite Polka" (Beyersdorfer).
 Selections—Salon Orchestra, "Pale Moon Paraphrase" (Logan);
 "Violin Song" (Rubens).
 9.16: Soprano—Mlle. Pola Schea, (a) "La Serenata" (Toselli), (b) "Only
 a Rose" (from "The Vagabond King"—Friml), (c) "I Wonder if
 Love is a Dream" (Forster).
 Quartet—The Lyric, "The Desert Song" (Romberg).
 Duet—Messrs. Chas. Williams and Will Goudie, "Wyoming Lullaby."
 9.26: Sea shanties—The Lyric Quartet, (a) "Shanadar," (b) "A-Roving,"
 (c) "Blow the Man Down" (all arr. Sharpe).
 9.38: Organ—Edward D'Evry, (a) "Meditation" (D'Evry), (b) "Album
 Leaf" (D'Evry).
 9.46: Selection—Salon Orchestra, "My Lady Molly" (Kelfert).
 Dance novelties—Salon Orchestra, "The Latest Dance Novelties."
 10.1 : Dance programme:
 Foxtrots—Six Jumping Jacks, "The Whoopee Hat Brigade" (Siegel).
 The Cotton-Pickers, "No Parking" (Chase).
 Six Jumping Jacks, "Piccolo Pete" (Baxter).
 Waltz—Bob Haring's Orchestra, "I Love You" (Fisher).
 10.12: Vocal—Harold Lambert, "When the Real Thing Comes Your Way."
 Foxtrots—Cotton-Pickers, "St. Louis Gal"; "Moanin' Low."
 Lyman and His California Orchestra, "Susanna" (Ward).
 Al Goodman's Orchestra, "After Thinking It Over" (Davis).
 Bob Haring's Orchestra, "Song of Siberia" (Lewis).
 10.30: Organ and vibraphone—Lew White, "Honey" (Simons).
 Foxtrots—Lyman's California Orchestra, "Junior" (Donaldson).
 Bob Haring's Orchestra, "The Moonlight March" (New-
 man); "At Close of Day" (Klages).
 Waltz—Colonial Club Orchestra, "My Song of the Nile" (Bryan).
 10.45: Vocal duet—The Dixie Stars, "Sweet Mandy."
 Foxtrots—Carl Fenton's Orchestra, "The World's Greatest Sweet-
 heart" (Razaf).
 Colonial Club Orchestra, "If You Believe in Me" (Gilbert).
 Carl Fenton's Orchestra, "Smiling Irish Eyes" (Ruby);
 "Love is a Dreamer" (Green).
 11.0 : Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, JANUARY 3.

- 3.0 : Gramophone recital.
 4.25: Sports results.
 5.0 : Children's Hour, conducted by Aunt Pat.
 6.0 : Dinner music session.
 Herman Finck and His Orchestra, "Waldteufel Memories."
 Cello—W. H. Squire, "Gavotte" (Mehul).
 Mandolin Band, Circolo Mandolinistico, "Torna a Surriento."
 6.15: Band—B.B.C. Wireless Military Band, "Dance of the Tumblers."
 Octet—Squire's Celeste Octet, "Funeral March of a Marionette."
 Saxophone—Chester H. Hazlett, "Valse Inspiration" (Hazlett).

- Plaza Theatre Orchestra, "Pearl o' Mine" (Fletcher).
 9.30: Waltz—New Concert Orchestra, "Nights of Fragrance" (Ziehrer).
 Quartet—Squire's Celeste Octet, "Air on G String" (Bach).
 Saxophone—Chester Hazlett, "To a Wild Rose." (MacDowell).
 Plaza Theatre Orchestra, "Bal Masque" (Fletcher).
 6.45: Selection—Circolo Mandolinistico, "Stephanie Gavotte" (Czibulka).
 Band—B.B.C. Wireless Military Band, "Goliwog's Cake Walk."
 Cello—W. H. Squire, "Madrigale" (Simonetti-Squire).
 Waltz—New Concert Orchestra, "Vienna Maiden" (Ziehrer).
 7.0 : News session.
 7.30: Sports results.
 8.0 : Chimes. Selection—Band of H.M. Coldstream Guards, "Florodora."
 8.9 : Mezzo-contralto—Mrs. Anita Ledsham, (a) "Whistle and I'll Come tae
 Ye Ma Lad" (Scottish); (b) "We Sway Along the Ridges."
 8.15: Clarinet—Mr. E. Withers, "The Ashgrove" (Clarke).
 8.20: Vaudeville Entertainment—The Four Rascals, Opening Chorus,
 "Hello, Everybody"; duet, "Weeping Willow" (D. Mitchell); vio-
 lin—waltz, "Waiting"; "Ragging the Piano"; "Song and Dance";
 "The Dorktown Strutters Ball" finale, "Popular Melodies."
 8.40: Mouth organ—Mr. J. Woodham, (a) "In a Little Spanish Town" (arr.
 Self); (b) "My Blue Heaven" (arr. Self).
 8.45: Soprano—Miss Monica O'Connell, "I Sing a Song to Suit the Day."
 8.49: Baritone—Lawrence Tibbett, (a) "The White Dove" (Stothart); (b)
 "When I'm Looking at You" (Stothart).
 8.55: Banjo—Mr. Arthur Hodgson, (a) "Rendezvous" (Aletter); (b) "La
 Paloma" (Yradler).
 8.59: Weather forecast and station notices.
 9.1 : Selection—Colonial Club Orchestra, "Rio Rita Medley."
 9.9 : Mezzo-contralto—Mrs. Anita Ledsham, (a) "The Sweetest Flower
 That Blows" (Hawley); (b) "Love the Jester."
 9.15: Clarinet—Mr. E. Withers, "Le Rieve" (Muller).
 9.19: Vaudeville entertainment—The Four Rascals, "Irish Revels," "Irish
 Jig" (arr. Company); "Irish Emigrant" (Barker). Piano Impro-
 visations, "Mother Machree" (Ball), "Popular Irish Melodies Pat-
 ter and Finale."
 9.39: Mouth organ—Mr. J. Woodham, (a) "Pack Up Your Troubles" (arr.
 Woodham); (b) "Good-Bye" (arr. Woodham).
 9.44: Soprano—Miss Monica O'Connell, (a) "Big Lady Moon" (Col-Taylor);
 (b) "Coming Home" (Willeby).
 9.50: Banjo—Mr. Arthur Hodgson, "Darkeyland" (arr. Read).
 9.55: Chorus—Grand Opera Company, Vocal Gems from "Mignon."
 9.59: Dance music until 11 p.m.
 Foxtrots—Rhythmic Eight, "Don't Be Like That" (Gottler).
 Jack Hylton's Orchestra, "Sweetheart of All My Dreams."
 Arcadians Dance Orchestra, "Pokee-Okee-Oh" (Butler).
 Jack Hylton's Orchestra, "I Lift Up My Finger and Say
 Tweet Tweet" (Sarony).
 10.12: Comedian—Eddie Cantor, "If I Give Up The Saxophone."
 Foxtrots—Geo. Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn).
 Nat Shilkret's Orchestra, "One For All, All For One."
 Heidt's Orchestra, "I'm Ka-Razy For You" (Jolson).
 Waltzes—Arcadians Dance Orchestra, "Anita" (Pollack); "That Old
 Time Organ Melody" (Carlton).
 10.30: Contralto—Lupe Velez, "Mi Amado" (Warren, Lewis, Young).
 Foxtrots—Geo. Olsen's Music, "Come West, Little Girl, Come West."
 Nat Shilkret's Orchestra, "I'm Thirsty For Kisses, Hungry
 For Love" (Davis); "Some Sweet Day" (Shilkret).
 Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert).
 10.45: Comedian—Eddie Cantor, "Hello Sunshine, Hello."
 Foxtrots—Kassels in the Air, "He, She and Me" (Newman).
 Park Central Orchestra, "Sally of My Dreams" (Kernell).
 Waltzes—Connecticut Yankees, "Coquette" (Berlin).
 Shilkret's Orchestra, "Lady Divine" (Shilkret).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, JANUARY 3.

- 3.0 : Chimes. Selected studio items.
 4.25: Sporting results.
 5.0 : Chimes. Children's hour, conducted by Big Brother Bill and Uncle
 Sambo.
 6.0 : Dinner music session.
 Selection—Edith Lorand's Orchestra, "The Vagabond King" (Friml).
 Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss).
 6.15: Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton).
 Orchestra—Dajos Bela Orchestra, "O Sole Mio" (arrgd. Lindeman).
 Organ—Leslie Harvey, "Absent" (Metcalf).
 6.30: Waltzes—Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art"
 (Lincke); (b) "Songs d'Amour Apre le Bal" (Czibulka).
 Dajos Bela Orchestra, "Humoresque" (Dvorak).
 6.45: Dance orchestra—Dorsey Bros.' Orchestra, "Was it a Dream?"
 Organ—Leslie Harvey, "Until" (Sanderson).
 Waltz—Dajos Bela Orchestra, "Faust" (Gounod).
 7.0 : News session.
 8.0 : Overture—Marek Weber's Orchestra, "Potpourri of Waltzes."
 8.9 : Baritone—Mr. S. Kershaw, (a) "Friend o' Mine" (Sanderson); (b)
 "I Come to Thee" (Caro Roma); (c) "God Touched the Rose."
 8.19: Popular melodies—Novelty Syncopators, (a) "Around the Corner"
 (Kohn); (b) "Any Time's the Time to Fall in Love" (Janis); (c)
 "All I Want is Just One" (Robin).
 8.30: Recitals—Miss Anita Bowler, (a) "Making Ruben Propose" (Anon.);
 (b) "The Limitations of Youth" (Field); (c) "Grandma" (Anon.).

- 8.40: Contralto—Miss S. McCready, (a) "Three Fishers" (Hullah); (b) "Over the Meadow" (Carew); (c) "When the Rooks Fly Homeward" (Rowley).
- 8.50: Popular melody—Novelty Syncopators, "Sweeping the Clouds." Saxophone—Mr. J. McCaw, "Slap'in' Sax" (Craig). Waltz—Novelty Syncopators, "Jasmine" (Kussner).
- 9.0 : Weather report.
- 9.2 : Organ—Edward O'Henry, (a) "Chant Sans Paroles" (Tschalkowsky); (b) "Ca C'est Madrid" (O'Henry). Jesse Crawford, (a) "Diane" (Rapee-Pollack); (b) "Souvenirs."
- 9.14: Soprano—Miss Dorothy Dagg, (a) "The Life of a Rose" (Lehmann); (b) "The False Prophet" (Scott); (c) "The Cuckoo Clock."
- 9.24: Piano—Carroll Gibbons, (a) "Moonbeam Dance" (Gibbons); (b) "Body and Soul" (Green).
- 9.31: Tenor—Mr. J. B. Hamilton, (a) "I Heard You Singing" (Coates); (b) "Temple Bells" (Woodforde-Finden); (c) "Kashmiri Love Song."
- 9.41: Saxophone—Mr. J. McCaw, "Nola" (Arndt). Waltz—Novelty Syncopators, (a) "Desert Rose" (Terese); Foxtrots, (b) "My Guitar and You" (Harris); (c) "Telling it to the Daisies."
- 9.56: Novelty vocal—Singing Sophomores, (a) "My Ohio Home" (Donaldson); (b) "Chloe" (Moret and Kahn).
- 10.0 : Dance session. Foxtrots—Abe Lyman and His California Orchestra, "Another Night." Meyer Davis's Hotel Astor Orchestra, "If I Had My Way." Abe Lyman and His California Orchestra, "I'm Only Making Believe" (Davis-Coots). Chic Scroggin and His Pla-mor Orchestra, "If I Could write a Song" (Fulcher). Waltz—Meyer Davis's Hotel Astor Orchestra, "There Must be Somebody Waiting for Me" (Donaldson).
- 10.15: Foxtrots—Jesse Crawford and His Orchestra, "The Prep Step." Irving Mills and His Hotsy Totsy Gang, "Manhattan Rag." Jesse Stafford and His Orchestra, "My Sweeter than Sweet." Vocal—Chester Gaylord, "Dance Away the Night" (Thompson-Stamper) Foxtrots—Irving Mills and His Hotsy Totsy Gang, "What King of a Man is You" (Carmichael). Tom Gerun and His Orchestra, "One Sweet Kiss." Jack Denny and His Mount Royal Hotel Orchestra, "The End of the Lonesome Road" (Ruby-Perkins). Waltzes—Abe Lyman and His California Orchestra, "If I'm Dreaming." "The Shepherd's Serenade" (Grey-Stothart).
- 10.42: Vocal—Chester Gaylord, "Just You, Just Me" (Klages-Greer). Foxtrots—Tom Gerun and His Orchestra, "Some Day Soon." Jack Denny and His Mount Royal Hotel Orchestra, "Scotchie." (White). Abe Lyman and His California Orchestra, "Sally" (Dubin-Burke); "If He Cared" (Grey-Stothart). Chic Scroggin and His Pla-mor Orchestra, "She Chills Me."
- 11.0 : God save the King.

Programme Features

(Continued from page 19.)

3YA Notes

THE Christchurch station will broadcast trotting results this afternoon.

The Salon Quartet of 3YA will be featured on the evening programmes. The members of the quartet—Miss Mary O'Connor, Miss Dulcie Mitchell, Mr. H. J. Francis and Mr. T. D. Williams—will be heard in concerted numbers and solos and duets, comprising classical and operatic numbers and popular ballads.

From Dunedin

SILENT day will not be observed this week. A bright and varied programme has been arranged.

FRIDAY

Auckland Features

A FURTHER relay of the Auckland Racing Club's meeting, interspersed with gramophone items, will take place.

During the programme from 1YA the Monte Carlo Orchestra, under the direction of Mr. F. K. Cunningham, will give several items. Mrs. Pearl Owen, mezzo-contralto, is singing the well-known ballads,

"Pale Moon" and "Cradle Song" by Kreisler.

Mr. Arthur Simpson, baritone, will also be heard. He has included among his items the novelty number entitled "The Bassoon." Vocal and instrumental numbers will be given by the Neiafu Duo, another popular combination at this station.

Wellington Notes

THIS evening's programme will be bright and varied. Circumstances permitting, a relay of a sound film feature showing at the Majestic Theatre will be carried out.

From 3YA

ITEMS to suit all tastes will be included in this evening's entertainment.

Dunedin Notes

An instrumental quintet which will play Kern's "Beauty Prize," "Bells of St. Mary," "Bits and Pieces," "Bronze Horse," "British Patrol" and a selection from Monckton's "Country Girl" will be featured this evening.

SATURDAY

From Auckland

THE 1YA Orchestral Octet, under the direction of Mr. Harold Baxter, will supply some interesting items,

including the suite, "Three Famous Pictures" by Wood. Miss Eileen Smithson, a very young singer, is making her first appearance at this station in a group of popular songs. This young lady possesses a very sweet voice and a definite interpretative ability.

2YA Notes

THE members of the Lyric Quartet will sing solos and duets and a group of sea chanties, and Mdlle. Pola Schea will present light ballads.

From Christchurch

THE Four Rascals will provide 40 minutes of 3YA's variety programme. Their items will comprise vocal and instrumental music, patter and humour. Mrs. Anita Ledsham, well known on the radio as Miss Anita Graham, will present the following mezzo-contralto solos: "Whistle and I'll come tae ye, ma lad," "We Sway along the Ridges," "The Sweetest Flower that Blows" and "Love, the Jester."

Dunedin Notes

FEATURED on this evening's programme will be the "Novelty Syncopators," who will present popular melodies.

KNOW the time all over the world with a
DX Clock.
9d. Each.



Watch Night Service

will be Relayed from

St. John's
Presbyterian
Church
by 2YA
New Year's Eve

The "Differential" One

(Continued from page 17.)

control is nicely adjusted, the local station may be tuned in, being careful to keep the reaction control well away from the oscillation point.

The valve used should preferably be of the H.F. or R.C. type (A.C. resistance of 20,000 to 30,000 ohms), and may be of any filament voltage. Nowadays two-volters are practically as efficient as four and six-volters, so they need not be avoided for fear of impairing the performance of the set. The B voltage to be applied to the plate of the detector valve is best ascertained by experiment as it varies somewhat with the valve employed. Some valves will be found to work really well with no more than 20 volts or so, while others are not at their best until 70 or 80 volts are applied. Generally speaking, though, a voltage of 40 to 60 will be found to give the best results.

The next article in this series will describe the addition of an audio stage to the receiver. In addition, the construction of short-wave coils and of those for the broadcast band only will be fully described.

Complete One-Valve Set.

THOSE who have no intention of increasing the number of valves and who want broadcast reception only should make certain adaptations in the set. Two photographs in this article illustrate the neat little receiver that can be made up. The base board measures 8in. x 6½in. with a 6in. panel. The placement of the components can be seen very clearly from the photographs. In explanation one point may be stressed, and that is that the battery cable wires do not run to terminals, but go directly to the proper points in the set: thus A— is connected with the switch, A+ and B— directly with the valve holder, and B+ is taken by a cable to speaker + terminal. As will be seen from the photographs, there are only four terminals on the back, one each for the aerial and earth, on the right-hand side, and two for the speaker on the left. One of these, of course, is connected with B+, as was mentioned above. The other connects directly with the top of the choke.

It will be noted that the choke is mounted horizontally. This is a splendid idea to keep the leads short. It will be found quite simple if a bracket is used.

The front panel needs possibly a little explanation. It will be noticed that there are three controls. In the centre is a tuning dial, a .00035 condenser, while to the right is a differential reaction condenser. Now, on the left is a rheostat, but it will be noticed also that there is an amperite used in the set. The rheostat has been placed in this position merely that those who have a rheostat on hand or wish to use one in preference to the amperite may have some idea of the layout. Of course, if a rheostat is used, the amperite is not used; that is to say, A— connects to one side of the rheostat, the other side of which connects with the switch. It will be remembered that the other terminal on the switch is connected directly to cable to A—.



A CORRESPONDENT from Hawera writes to me on the subject of a paragraph in recent notes. She says: "I notice you very thoughtfully advise readers in the event of a watch becoming wet in the sea to flood it with oil to stop the rust, and I would like to say we have found that quite useless—often worse, as the oil prevents evaporation. The best remedy is to wash it thoroughly with methylated spirits, as that dilutes the water, and then bake in a slow oven like gingerbread for some hours. Needless to say, the watch should be hurried to a watch-maker."



A MINISTER officiating at a wedding in a Scottish village heard what he described as the finest bridegroom's speech he had ever encountered. It ran thus: "Me an' the wife thank ye a' for comin' here the day an' seein' us safely mairrit. We thank ye, tae, for a' the fine presents ye ha'e given us. I may say we ha'e done very much better than we ever expectit."

subject. A writer in the "Daily Express" gives a masculine opinion which, however, sounds much too sensible to be universal: "There is no such thing," he says, "as a woman whose beauty is unquestioned. Real beauty will be found by a thousand different people in a thousand different women. It is an entirely personal matter. My own opinion is that when a man proclaims a woman to be beautiful he is paying least attention to her features. What appeals to him is her expression, and this shines like a jewel in the setting of her facial lines."

feet in height in one hand, and a stalk of wheat four feet high in the other. This result was attained after treating the crop with the Christoffean earth-current apparatus.

AT Easter and Christmas time there always seems an epidemic of kitchen teas and weddings. I was the guest last night at a kitchen tea, and knowing the trouble I had had in thinking of something to take, I made a mental note of the gifts there within

and game should be hung by the legs. One important item to remember is never to put cooked meat in the larder on a dish with gravy on it, as this so often turns sour in hot weather.

AT a recent wedding in England a unique note was introduced by the pageboys being dressed in hunting costumes, carrying horns; while the little girls wore Kate Greenaway dresses of white lace with pink cloth hunting jackets. Needless to say the parties most concerned are keen followers of the hounds.

A KITCHEN can be made very attractive by using a pale green paint for the upper part of the walls and a darker shade below, with a wide line of very dark green between the two shades. This not only makes a fresh, restful kitchen, but a practical one, and on a hot day makes one feel positively cool.

GREAT libraries are buying or are being bequeathed a kind of modern wizard's box. This is an ultra-violet fluorescence cabinet. It appears that these wonderful ultra-violet rays cannot only cure disease but they can also make old manuscripts readable when they have been darkened by smoke or stains, or even by having another text written over the original.



THOUGHT FOR THE WEEK

"When you are in the right, you can afford to keep your temper, and when you're in the wrong, you can't afford to lose it."

—G. H. LORIMER, in

"Letters from a Self-made Merchant to His Son."



COLONEL P. S. Lelean, Professor of Public Health at Edinburgh University, declared to a scientific audience that the frying-pan bakes and dries up the food and makes it hard and indigestible, and it is also one of the causes of decayed teeth. In fact, he says that digestion is ruined by the frying-pan.

A FRIEND just back from America tells me that the baby car is having a great vogue over there. The usual crop of jokes has arisen inevitably, and being new to the Americans, everybody you meet has a fresh one to tell. The appearance of the baby car creates so much interest that policemen are kept busy moving on the crowds, when one is parked at the kerb and the owner, when finally found, usually drives off amid cheers.

THERE is nothing simple or clearly defined about the standard of feminine beauty. It is rare to find two people with similar ideas on the

A SEAKER at a conference of lighting engineers recently suggested that we should light our streets with concealed illumination from houses and shops and do away with lamp-posts. In Japan every house and shop is supposed to have an electric lamp outside the gate, or over the front door. The entrances, of course, of many shops are illumined with Japanese lanterns. Just recently, the roadways outside of Wellington City have been well lit by electricity. Not far distant on a winding road there is a light at every bad bend. Whether this is an advantage to motorists is debatable, because it is now difficult to determine whether there is another car coming casting its light ahead, or whether it is the glare from the corner light; while before night driving was safe round bends as any light showing told of the approach of another car.

the means of the average woman's pocket. Dish-cloth, dish-mop, three oven cloths, half a dozen drying cloths, floorcloths, a chopping-board, rolling-pin, aluminium saucepans, casseroles, aluminium frying-pan, kettle, grater for all kinds of grating and slicing, colander, strainer, fish-slice, wire sieve, flour barrel, bread tin, set of basins, jelly mould, wooden spoons, corkscrew, tin-opener, baking tins, sandwich tin, one dozen patty pans, brooms, brushes, floor-mop, dustpan, kneeling mat, mincer, jugs and egg-beater. A cookery book is always an acceptable gift, and more tactful to present before marriage than as a gift after you have dined there.

WE hear that smoking has been prohibited in every theatre and cinema in Italy, on account of the danger of fire—yet every night hundreds of burning matches and cigarette ends are thrown down in theatres in London, and every day our shops are selling inflammable celluloid toys for children, and we have built a smoking-room in an airship filled with five million cubic feet of inflammable gas.

THE shops at this time of the year are filled with toys for Christmas. Gone are the days when a vague resemblance to the original was satisfactory to a child—but the rising generation is of a critical disposition and the producers have to be artists to meet the demand for life-like resemblances. The results are excellent. Even the indestructible and washable rag books are works of art, and are brought to a state of perfection.

HERR LION FEUCHTWANGER, the author of "Jew Suss," has written a new novel entitled "Success" which is being translated into English by Mr. Edwin Muir. It is long enough to be compiled into three separate books.

THE best way to light a fire is to first put on the bottom of the grate three or four lumps of coal, then comes the paper, which should be torn and crumpled. The sticks are then placed in criss-cross fashion, and

YOU CAN STOP IT!

If you smoke you are shortening your life. You can stop it in a very short time. Ask for particulars free. Home Welfare Pty., A.M.P. Buildings, 36 R. Hunter Street, Wellington.

IN a recent issue of the well-known French newspaper, "Le Petit Parisien," a photograph appears of a man standing, holding a stalk of oats of six

RAW meat should be hung as soon as it arrives, not placed on a dish. An excellent idea is to hang it in a muslin bag, for by this means it is safe from flies, and has the necessary current of air round it. When fastening a hook into meat to hang in a safe, always put it through the fat of the meat, never through the lean. Poultry

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finally a generous number of rather small lumps of coal on the top. Laid like this a fire burns at once, and lights up brightly in a very short time.

THOSE of you who are interested in music will be glad to know that the almost forgotten opera "Idomeneo," by Mozart, is being revised by Richard Strauss and will be performed in the Vienna Opera House during the next season.

ONLY a few days now before Christmas, and we suppose that most of our readers are trying to find suitable gifts for their friends. May I make a suggestion? To-day I had some plants and several packets of seeds given to me and I am sure there is nothing I could appreciate better. I am trusting they will live year after year to remind me of the donor and the thought.

ELECTRICITY has become the workman's friend, for so easy have become the working conditions that the present generation has improved in health and happiness a thousandfold. A farm servant was asked how he liked making cake with an electric egg-beater, and he replied: "It is splendid! I can do in a few minutes what used to take some hours of hard work, and now I have all that time longer to attend to my other jobs." He added that he hoped he would never have to work on any farm again where electricity was not used.

WHEN onion flavouring is wanted, cut the onion into slices and sprinkle with sugar, and then leave for a short time. The sugar causes the juice to flow freely, and this juice is useful for flavouring salads.

AT the race meeting in England the prominent colour to be seen on those who are the leaders of fashion is red in all hues. Brick-colour, cherry, scarlet, strawberry, tweed costumes of a red mixture, gladioli red, cerise, and Bergundy.

IF milk curdles when boiling, add to it a small piece of washing soda (about the size of a pea) and stir while the milk is still on the fire. It will then lose all its curdliness, and be quite fit to use.

—ALISON.

SORE THROAT?

Pulmonas

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Prize Poem Competition

THE prize of half a guinea for the current competition is awarded to U.C. for her poem entitled "From a Train," which will find many admirers by reason of skilful versification and poetic handling of the passing show by a traveller possessed of ability to record evanescent beauty as it flies. "Oh Mack" sends two attractive poems, "Fairies' Christmas," though a pretty, rippling number, is unsuitable for our pages, but we hope room will be found for "Another Chance."

"Thur" skilfully manages her immense theme of the mosaic of humanity, and arrestingly conveys her conception of life's evolution.

"John Storm": Though not prize-winners, each of your three poems, in its metier, is charming. "Bethlehem" is published this week.

"Marion": We do not like the split infinitive, though your lines are appealing, but the sentiment is a trifle cloying.

"New Zealand Cities," with utmost impartiality, bestows honour where honour is due. Of Wellington we are told

"And there our worthy Gov'nors dwell."

Dunedin

*"Claims the University
Where students learn Anatomy."*

In Christchurch, fair city,

*"The willow trees
Do fringe the Avon's banks and please
Me more than Halls and Structures fine."*

All indisputable, no doubt, but nothing but the truth does not always make poetry.

"Flotsam": Cheer up! The lady may relent.

"Long John" sends the lay of a larrikin, and a good one, too.

H.R.T.: Your verses do not quite scan, but are arresting in their poignant impression of human loss, and we hope some time to publish them.

From a Train

*Suddenly, after wastes of wild
Grey and sullen brown,
We came upon a quiet field
Where the sheep lay down—
Snow-white sheep on a wet, dark field,
With a still tree beyond,
And the fat bodies of four ducks
Ruffling a golden pond.*

*All suddenly, out of the hushed
Thick darknesses of night,
A carillon of bells we heard
In a gleaming flight,
Shaking their rhythm down the sky.
In a bright cloud of sound,
Like the soft beat of breasting doves
Over the muffled ground.*

*And suddenly all else was gone
Save Beauty aching on and on.*

—U.C.



Anti-noise Campaign

Commenced in Europe

IN some big cities on the Continent the authorities are becoming very particular about noise and untidiness in their streets. In one or two cases the laws are now so strict that people can be arrested for throwing a cigar-end on the pavement. In Berlin it is proposed to set up an anti-noise investigation department in the big towns, and a new science is coming into being for the measurement of noise in thoroughfares. In Budapest, back-firing of motor-cycles is prohibited. Workmen building houses are not allowed to shout to each other on the scaffolding, even the noise of beating carpets must not be heard. (What a field for salesmen with vacuum cleaners!) Laws also forbid the continuous sounding of motor horns, suburban train whistles, and tramcar bells. Music lessons must be given in sound-proof rooms, and with the windows shut, and itinerant musicians are extinct. The use of wireless loudspeakers are only tolerated until 10 o'clock. This is indeed a modern Utopia.

Electrified Dairies

A DAIRY farm owned and operated by Mr. Mathias Turner, at Madison, Ohio, has electrical equipment throughout. This includes electric light, electric motor for vacuum milking, a motor-driven water pump, electric clippers, electric bottle and utensil washer, electric strainer-cloth and towel washer. There is also an electric hot-water system, electric heat for sterilising holding tank, and the buildings are all heated electrically during the cold winter months.

A special steriliser is used to dry and sterilise the cooling tank from which milk is bottled. Mr. Turner is most satisfied with his electrical equipment, and believes that every large dairy farmer will follow suit, as soon as they realise the advantage of dry heat and automatic control.

One special point that would appeal to a woman is that the utensils when taken from the oven sterilisers are as bright as though they had been polished.

Character Colours

DR. HOOKER and many others are very engrossed in the radiation of colours from the human body. These radiations they say vary according to the character. There are good and bad colours, just as there are good and bad bumps. The purple ray indicates a noble character—while the dark grey indicates mental or physical depression. Dark green is a bad colour.

ARE YOU A 100% MAN?

You are not even a 50 per cent. man if you are slave to the smoking habit. We can help you quit it quickly. Home Welfare Pty., A.M.P. Buildings, 36 R. Hunter Street, Wellington.

COOKERY NOTES

FRANK KEE

Seasonal Puddings and Miscellaneous Recipes



An Excellent Plum Pudding

Ingredients: 3 cups of flour, 1 cup of dried breadcrumbs, 1 large cup sugar, 2 large cups grated suet, 1½ cups raisins, 1½ cups sultanas and 1½ cups currants, 2 pieces lemon peel, spice to taste, and, if liked, a few drops of essence of lemon and pinch of salt; 2 tablespoonsful of treacle, 2 teaspoonsful carbonate of soda dissolved in milk.

Method: Mix fairly moist with milk and either boil or steam; this quantity requires over two hours even when divided into two puddings. This proportion of flour, crumbs, sugar and suet is a good foundation for any dark fruit pudding; then use treacle, soda and milk in proportion.

Snow Pudding.

Method: Arrange nicely in a glass dish ½lb. prunes washed and stoned, 1 small tin pineapple chunks, a few grapes, 2 sliced bananas, 1 orange sliced and cut small, 2 passion fruit (squeezed), 1oz. sweet chopped almonds. Soak 1oz. gelatine in pineapple syrup, adding a little warm water if necessary. Cool and pour over fruits. Allow to set, pile on top half pint whipped cream and decorate with cherries and angelica. This makes an excellent addition to Christmas dinner, or a party.

Marmalade Pudding.

Ingredients: 2 tablespoons of butter, 2 large tablespoons of brown sugar, 4 tablespoons of marmalade, 1 egg, 2 full cups of flour (breakfast), 1 teaspoon of baking powder, 1 breakfast cup of milk.

Methods Mix butter and sugar, add egg, then marmalade and milk. Lastly flour and baking powder. Steam four hours.

Caramel Pudding

Method: Cut ½lb. stale bread into dice and put into basin with ½lb. currants, 2oz. peel, cut small, and half of ½lb. sugar. Burn the other half of the sugar in a saucepan, pour 1½ pints of milk over it, and stir till it boils again, then pour over 2 beaten eggs. Pour this over the pudding bowl and stir. Boil two hours, and

serve with custard sauce, made as follows:—

Custard Sauce: 1 egg, ½oz. sugar, ½ pint milk, essence vanilla. Put milk and sugar into stewpan, beat egg, and when milk boils take pan off fire and pour egg in and beat well. Flavour with vanilla and cook till it thickens, but do not let it boil or the egg will curdle.

Iris Pudding.

Ingredients: 2oz. butter, 2oz. sugar, 2½oz. flour, 1 teaspoon powdered chocolate, 1 egg, ½ teaspoon baking

spoon; add currants and almonds blanched and chopped, a little milk if needed. Mix fruit thoroughly into pudding, add baking powder last. Grease a mould, put mixture in, twist a piece of greased paper over top, steam for two hours. Serve with coffee sauce.

Coffee Sauce: 2 teacups water, 2 desertspoons coffee essence, 4 table-spoons sugar, ½ teaspoon vanilla essence. Boil water and sugar for seven minutes, add essence and flavouring, boil 2 minutes, pour into sauce jug.

fairly thin on an oven shelf and spread with the following mixture: Mix ½oz. butter with ½ cup sugar, add 1 egg and some currants and sultanas. About 2 tablespoons treacle, a little pepper, 2 tablespoons breadcrumbs, and 1 small tablespoon flour. Mix well. Cover with the other piece of pastry and bake half-hour or little more. Cut in squares when cooked.

Cocoanut Balls

Ingredients: ½lb. butter, 2 level cups flour, 1 small cup sugar, 1 cup cocoanut, 1 egg, 2 teaspoons baking-powder, 1 teaspoon vanilla.

Method: Mix in the usual way, but have mixture very stiff. Form into little balls, dip in sugar and bake in moderate oven.

Wagga Macaroons

Ingredients: One cup sugar, whites of 2 eggs, ¼ cup chopped almonds, pinch salt, 1 teaspoon vanilla, 2 table-spoons melted butter, ¼ cup cocoanut, 4 cups cornflakes.

Method: Beat sugar and whites of eggs very stiff, add everything but cornflakes, beat. Then, lastly, add cornflakes. Bake in a moderate oven until a nice brown.

MORNING GLORY

*A WIDE expanse of ocean with the quiver of a sail,
Where the waves were lashed to fury by the strength of last
night's gale.
But now they lie, a-dimpled and a-dreaming in the sun,
Mirroring deep the bursting glory of a day that's just begun.
The little yacht glides swiftly and its wings are caught in gold;
And to me, though seldom changeful, 'tis a scene that ne'er grows old.
—“Wild Rose.”*

powder, little milk, essence of vanilla.

Method: Cream the butter and sugar, add the egg, flavouring, flour and baking powder and milk. Divide the mixture into three parts. Place one-third into a greased pudding basin. Colour half of the remainder with a few drops of cochineal and pour on top of the first portion. Then add the chocolate to the remaining portion and add to the others. Steam for one hour. Turn out and serve with custard powder sauce.

Coronation Pudding.

Ingredients: 4oz. butter, ½lb. flour, 3 tablespoons coffee essence, 3oz. currants, 2oz. almonds, 4oz. sugar, 1 teaspoon baking powder, 2 eggs, ½ teaspoon vanilla essence, little milk if necessary.

Method: Beat butter and sugar to a cream, mix in coffee essence, beat eggs, add by degrees along with flour, beat mixture well with a wooden

Apple Wells.

Method: Peel as many large cooking apples as required and core them with a corer. Bake them carefully so that they do not break. Place on a deep dish and fill in where cores were with raspberry jam. Make two packets of raspberry jelly crystals and pour round the apples. Set, then serve with little piles of whipped cream on the top of each apple.

Salad Dressing

A CREAM dressing for salads is simple to make, but it will not keep.

Sieve and put into a basin one hard-boiled yolk of an egg, one mustard-spoonful of dry mustard, half a teaspoonful of salt, a quarter of a teaspoonful of pepper, and one teaspoonful of castor sugar. Mix these ingredients, then add gradually a quarter of a pint of thick cream or condensed milk, beating the while. Finally, stir in one tablespoonful of vinegar. If the condensed milk is sweetened already omit the sugar. Lemon juice may, if desired, be substituted for the vinegar.

Spotted Dick

Method: Prepare some pastry and divide in two. Roll one piece out

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A FRENCH radio journal recently organised a competition during which twenty-three musical selections were played by various instruments. In the results the accordion headed the list, closely followed by the violin, while the saxophone was placed last.

the old-fashioned magic lantern to the latest talking film and television equipment, were exhibited.

FROM an aeroplane in flight, words and music were broadcast recently in Canada from eight loud-speakers extending from the sides of the plane. The entire apparatus weighed only 600 pounds, and was clearly audible on the ground from an altitude of 4000 feet.

A UNIQUE exhibition of mechanical aids to learning was recently held in London. All the various devices that have been employed as visual and auditory aids in education, from



RECENTLY the lights fell in the Manchester studio when the orchestra was in the middle of a concert. With commendable coolness the conductor lighted a cigarette and conducted his orchestra with the glowing end of it.

WIRED wireless appears to be growing in popularity in England. The Postmaster-General recently stated that there were 56 licensed private radio exchanges, with roughly 12,172 subscribers, operating in the country.

BROADCASTING books are being balanced by the American radio authorities in an attempt to learn what it costs to give to the nation its broadcasting entertainment, and to see how much money the service as a whole is making or losing. This information is being obtained through forms sent to some 600 stations by the Federal Radio Commission.

STATISTICS from U.S. Government departments indicate that radio is comparatively unaffected by the world trade depression. The Department of Labour reports that forty-four radio manufacturers employed 32,103 workers in August, an increase of 25.8 per cent. over the figures for July.

THE Soviet Government is preparing a special five-year programme for the development of communications, including wireless. The scheme includes a network of sixty-two radio-telegram stations situated at strategic points, besides a system of "wired wireless" for the distribution of broadcast programmes. The complete communications scheme will involve a capital outlay in excess of £135,000,000.

THE wireless audience in America now numbers 52,581,840, with 12,824,800 families, or 43 per cent. of the total population owning sets, according to a recent revised survey. Among other interesting points in the survey are the following: Over 75 per cent. of the sets in use have more than five valves; 81 per cent. of listeners use their sets two hours daily; the most popular listening period is between 8 and 10 p.m.; more than 52 per cent. of listeners own sets over two years old. The N.B.C. estimates that it has a nightly audience of 7,000,000.

A MAN said to be known internationally as a "radio wizard" and "wanted" by France and England for infraction of radio laws, was among the persons apprehended by the Brooklyn police when they raided a rum-runners' wireless station at Coney Island recently. The transmitting apparatus, valued at £3000, was used for regular communication with rum-running vessels outside the twelve-mile radius.

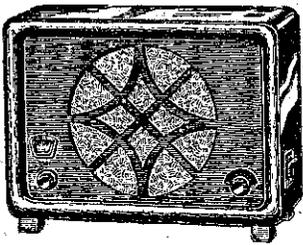
A RECENT announcement in England to the effect that someone had discovered an ether wave with a velocity greater than that of light has excited the disciples of Einstein. One of them regarded the announcement as inspiration for the following limerick:

*There was a young lady named Bright
Whose speed was faster than light.
She eloped one fine day,
In a Relative way—
And returned home the previous night!*

THE interest in simple and multi-valve receiver building in the home is by no means dead. This was revealed by the replies to a questionnaire recently sent out by a well-known American radio manufacturing company. The countless distinctive engineering advancements still being made are an important contributing factor to this sustained interest in home construction.

A BERLIN engineer, after concluding a series of experiments, has decided that fog signals, broadcast on ultra-short radio waves of 20 to 100 centimetres, would be much more effective than lights. The waves are readily concentrated in searchlight fashion, penetrating mists with but little absorption. They are of short range, require but little transmitting energy and are immune to atmospheric influences such as rain, snow and other factors that limit the usefulness of overhead conductors. The engineer believes that they might also be adapted to the use of police and fire department units.

"TRAFFICKING" in radio transmission licenses is strongly suspected by the American Federal Radio Commission as a result of the unusually large number of recent applications for changes in the ownership of broadcasting stations. Since the wavelength band is congested already, the commission is disposed to eliminate stations of doubtful status and to scrutinise carefully the financial repute of the proposed new owners. The commission eyes askance the trend of church and educational stations toward new commercial owners. In the last year at least a dozen church stations have "gone commercial."



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