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AND

ELECTRIC HOME JOURNAL

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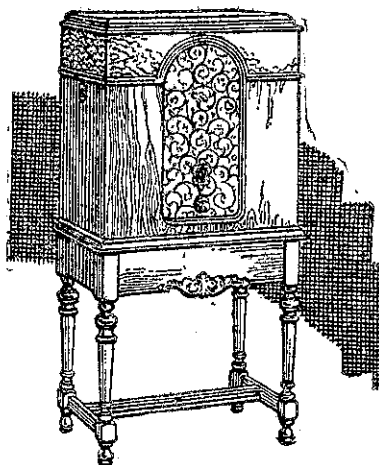
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WELLINGTON

REAR-ADMIRAL EVANS, of the Australian Navy, whose famous exploit with the Dover Patrol will ever be a feature in the history of the Great War, is a frequent figure before the 2FC (Sydney) microphone. He recently broadcast an address vitally affecting the education of Australia's youth, the title being "Train Yourself, or Waste Your Education." The Admiral advised every young man to pay attention to manners, ideals, nature studies, religion, sense of proportion, humour, public-spiritedness, generosity, leadership, activity, cleanliness, loyalty, friendship and happiness. It is not known when the Admiral will visit Wellington, but when he does the 2YA officials will be certain to interview him.

WITH the approach of winter, the New Zealand radio "trade" is preparing for the usual increase in business. Owing to the widespread hydro-electric reticulation in the Dominion, the a.c. type of set is now in favour, and very few battery sets are being sold for ordinary broadcast reception. In Australia, with its great inland population spread over vast distances remote from electric lighting systems, there is still a big demand for battery sets.

Notes of the Week

(By "Switch.")

THOSE listeners who obtain good reception of 3LO, Melbourne, will have noticed a continuous whistle not unlike that of a howling valve. A number of listeners during the past few weeks have complained to "Switch" that some inconsiderate listener tunes into 3LO every night and permits his set to oscillate. The true cause of the whistle is the wave of a Japanese broadcast station being on a wavelength too close to that of 3LO, thus creating a heterodyne whistle. There is no method of eliminating this. Numerous Australian listeners have written to the Press complaining about the interference.

THE annoying intrusion of advertising announcements from 4QG, Brisbane, which has harassed listeners for some years, is now relegated to the things that were. The Australian Broadcasting Company, having taken over 4QG from the Queensland Government, has eliminated all advertising matter of any description, direct or indirect, from the station's sessions. 4QG has also been linked up by land-line with Sydney, and now there are relays between Brisbane and Sydney.

"T.H.P." (Petone) complains of a crackling sound heard from his loudspeaker, but he does not forward any particulars about his set and equipment. It is almost impossible to diagnose the case without such particulars. Exhausted or defective "B" batteries are commonly the cause of crackling sounds which are not unlike static in some cases. Dirty or corroded "B" battery terminals are also apt to create noises. A cloth dampened with household ammonia, procurable at any grocer's shop, will easily remove corrosion. Vaseline smeared thinly on battery terminals will prevent corrosion.

A SOUTH AUSTRALIAN listener, Mr. E. Maro, residing at Largs Bay, reports to the Melbourne "Listener In" that he receives 1YA, Auckland, at weak loudspeaker strength on his home-made A.C. set. As South Australia is 2½ hours behind New Zealand it is only 7.30 p.m. at Largs Bay when 1YA closes down at 10 p.m.

"SWITCH" can quite realise why the English short-wave station 5SW is not quite all that a station of its type should be. The station is operated and owned by the British Broadcasting Corporation, whose income is derived from listeners and the radio "trade" for the specific purpose of providing a broadcast service for the listeners of Great Britain. A short-wave station, owing to the phenomenon known as "skip-distance," is of little or no use to the listeners at Home, and the B.B.C. is under no obligation to provide entertainment for the listeners in other countries. The same set of conditions exists in New Zealand, and none of those who advocate short-wave transmissions by the New Zealand company seems to know the position.

NOW that the atmospheric conditions have improved considerably, the Australian stations are back again with some of their old-time "pep." Interest, therefore, turns to trans-Tasman programmes again. The N.S.W. Professional Musicians Orchestra of 60 players, recently commented upon favourably by "Switch" for their performance broadcast from the Sydney Town Hall by 2FC, will be heard again under the same conditions from 2FC on Saturday nights, March 8 and 15. These musicians, with the exception of one, are unemployed owing to the invasion of the talking pictures.

SO our New Zealand scientists are about to investigate the subject of static experienced in New Zealand by radio listeners, associated with cyclonic disturbances in the Tasman Sea. Special measurements of strength of reception from Australia are being conducted to ascertain the conditions causing absorption, and whether meteorological factors enter into the matter. Beginners need not entertain any hope of alleviation from the attacks of static; it is incurable. However, much will be learnt from the research which is about to be carried out.

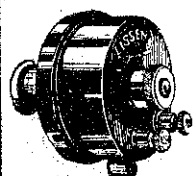
A GOOD "stunt" was put over the air on a recent night by 2FC, Sydney, when a moonlight harbour excursion concert was broadcast from the steamer, picked up and rebroadcast by 2FC. The programme was very fair, but the voices of the merry-making excursionists provided a form of interference which would not be tolerated under ordinary circumstances. The vessel was the Manly ferry steamer Burra Bra. Cec. Morrison's dance band supplied the dance music, and community singing and vocal items broke up the group of dance numbers.

THE late Frank Morton, formerly of Wellington, a newspaper contributor of not a little versatility and originality, and a "rhymers," as he dubbed himself, was for eighteen years associate-editor of "The Triad," with C. N. Baeyertz. On February 28 Mr. Baeyertz will give excerpts from Morton's best humorous and serious poems, from 2BL, Sydney. Mr. Baeyertz has been heard quite often from the two Sydney stations. He formerly resided in Dunedin and Wellington, and has acted as judge at various New Zealand competitions.

SOME Melbourne shortwave listeners recently picked up duplex radio telephone tests between the R.M.S. Olympic and both the English and American sides of the Atlantic Ocean. The conversation was quite clear, and the wavelengths used were on the 20 to 35 metre band. The R.M.S. Leviathan has been similarly equipped, and passengers crossing the Atlantic are now able to talk with their friends ashore in either England or America.

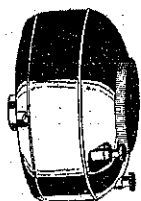
VARIATIONS in voltage from the household electric mains are considerable in various areas, and members of the New Zealand radio trade when installing an a.c. receiving set in the home of a purchaser should provide themselves with an a.c. voltmeter. The base of a broken a.c. detector valve should be connected to the voltmeter. The base of the valve should then be plugged into the detector valve socket in the set so as to obtain a reading of the exact voltage being applied to the detector valve. If it is found to be too high a resistance should be inserted between the set and the wall socket, and so wound that it permits only the correct voltage to be fed into the set. This would prevent valves burning out, and causing dissatisfaction on the part of purchasers.

HARE HONGI (whose Pakeha name is Henry Matthew Stowell) is a grandson of Maunau, a former chief-tainess of the Ngapuhi tribe, in the Bay of Islands. He was first educated at Singer's School, Parnell, Auckland, and when a mere youth came under notice of Sir George Grey. Young Hare was addressing a number of Maoris in Queen Street, Auckland, and Sir George, who could speak Maori, was so impressed with Hare's intelligence and fluency that he sent the youth to the Three Kings' Maori College, three miles from Auckland, Sir George paying for his tuition. For several years Hare Hongi was attached to the Native Department head office, Wellington, and retired on superannuation six years ago. He was at one time Native interpreter for four years under the late Sir James Carroll, then Native Minister.



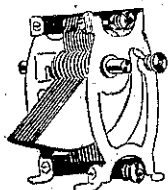
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LISSEN SUPER LOUD SPEAKER UNIT. Fitted with control for fine adjustment.

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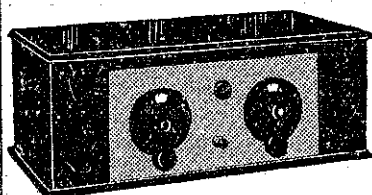
.00035 Price 8/6 each.

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... They Lead the World ...

Listen radio parts have a name, famous in radio circles all over the world—a name that stands for better value, better parts, and better radio.

So when you're wanting radio parts just ask for Lissen.



Lissen Screen Grid Three

A kit set for long and short-wave reception, with a splendid range and volume. Very compact and easily constructed. Price £6

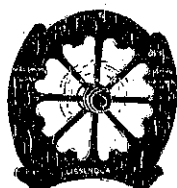
Short-Wave Coils and Accessories Extra.

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Your radio dealer can supply Lissen Parts ... or send direct to

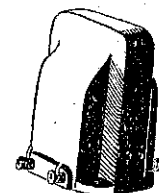
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Price £2/10/-

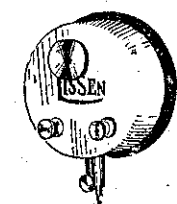


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LISSEN ELECTRIC PICKUP. External and Internal fitting.

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Radio Programmes Discussed



THE 1YA Musical and Dramatic Committee had an animated and interesting discussion at its last meeting concerning the alleged dearth in radio programmes of new songs and recitations and the repetition of the same numbers.

It was a very useful discussion, for it showed the difficulties which confront a station manager and his programme organiser in preparing programmes for broadcasting. The station management explained that there was a black list of items at the station and that they endeavoured at all times to prevent the broadcasting of the same items too often. The trouble was that 300 concerts (comprising about 3000 vocal solos) had to be arranged every year, that the number of artists in Auckland was very limited and that these artists had very limited repertoires. It was difficult to get artists to learn new items and they would sing only the things they knew.

The *modus operandi* at the stations is for artists to submit lists of the songs they know and from these lists the station selects the items to be

1YA Musical and Dramatic Committee offers Suggestions

given. The Station Director quoted an incident which happened the day before the meeting at which the discussion took place. Two ladies brought in the same song. On the list submitted by another, out of eight songs only three were suitable. The trouble was that teachers taught the same songs.

It was pointed out during the discussion that singing occasionally before a limited audience in a theatre was different from singing regularly for radio's vast audience. In the former case a small repertoire would not be noticed, for the same audience would not be hearing the same song when sung over and over again.

The broadcasting stations have in the main a roll of regular performers. These are the pick of the local talent and they form the basis of the programmes. About half of the lists of items received from artists comprise the same songs.

During this discussion on the limited repertoires of many singers, Mr. Frank Sutherland was quoted as an object-lesson to all radio performers. It was stated that when Mr. Sutherland first came to 1YA he could sing five songs, but he now has a repertoire of 100 or so. Every night he sings he brings along at least one new song. From the very outset he made it a practice to do this. That is one of the reasons he is so popular—he always has something fresh. The committeeman who mentioned this said that if it was possible for an amateur to do this it was surely possible for a professional, but professionals seemed to be the ones who were most frequently guilty of singing the same songs repeatedly.

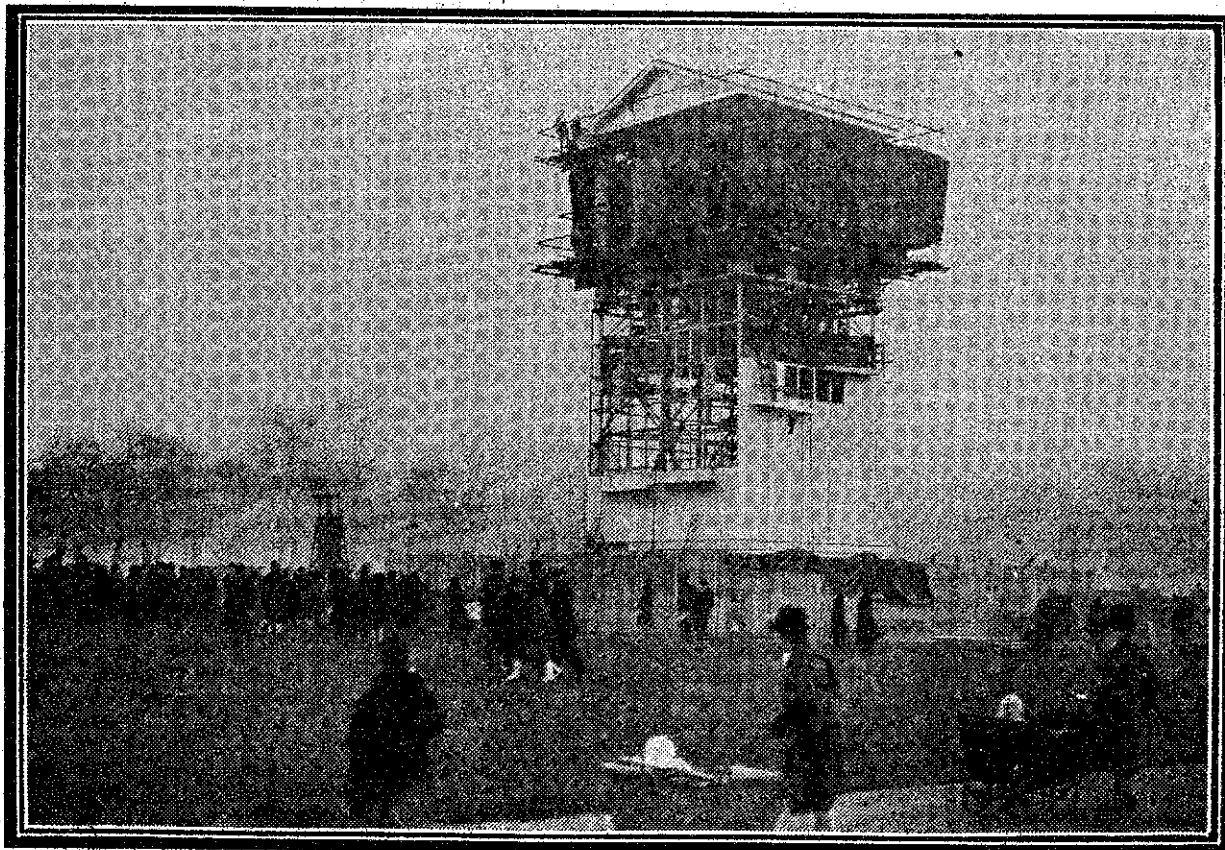
The chairman (Mr. Karl Atkinson) remarked, "Can you wonder that music is in the doldrums when you can't get the people whose living it is to make a little effort." In connection

with this discussion, the following resolutions relating to songs and recitations were carried: "That a sub-committee consisting of Messrs. Atkinson, Taft, and Montague go through the full catalogue of items contained in Head Office library, with a view to bringing down a report at next meeting which will assist artists and the Company to vary the items which are being put on."

"That it be a suggestion to the Company in respect to elocutionary items at Station 1YA that they be submitted once or twice each week to the official announcer, Mr. Bell, to be confirmed or rejected."

"That the Company be asked to consider the advisability of tabulating in alphabetical order items performed on the air during the last six months at 1YA, and that this list be kept up to date."

It may be mentioned in respect to the music teachers of Auckland that a number of the leading ones are closely co-operating with 1YA and have undertaken to organise whole-night programmes for broadcasting. In this way new artists and new items will be brought to the microphone.



The Wellington War Memorial Carillon Tower at Hyde Park, London. It has been urged that these should be rebroadcast by short-wave for the benefit of N.Z. listeners.

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Quiet!
The NEW and
Startling
Majestic
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Has no A-C Hum!

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**POWER
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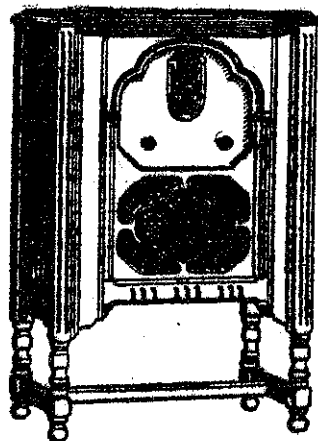
QUEEN STREET, AUCKLAND,
And at 15 Karangahape Road, Auck-
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Model 91
PRICE £48

(Outside 4 Main Centres
£50)

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MODEL 91.—Power detection and the new 45 valves plus four tuned stages of radio frequency. Absolutely no hum and no oscillation at any wavelength. Improved Majestic Super-Dynamic Speaker. Early English design cabinet of American walnut. Instrument panel overlaid with genuine imported Australian lacewood. Escutcheon plate and knobs finished in genuine silver.

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Please send me full particulars of Majestic Radio models and arrange for a demonstration in my home.

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RR 28/2/30

THOUGH a few years ago the average Japanese listener was not over-enthusiastic about wireless, probably because the programmes transmitted then were rather of the cut-and-dried variety, of late, broadcasting in Japan has developed by leaps and bound. An official Japanese Broadcasting Bureau was created some time ago, and the greatly-increased interest taken in radio in "the land of the Rising Sun" dates from its inception.

One of the first plans of this Broadcasting Bureau, or Chuo Hosokyoku, as it is called, was the rebuilding of the existing station at Tokyo on a larger and more organised scale. European methods of broadcasting were introduced, and the whole of the programme placed on a new basis. Some eighteen months ago the newly-erected station at Tokyo, JOAK, was opened, and its inception constituted a very definite step forward in the progress of Eastern radio.

The studios of this station are, as one would expect, situated in the heart of the Japanese capital, Tokyo, but the transmitting equipment proper is located at Shingo-Mura, a village some ten or eleven miles north of the city.

Here the 200ft. twin lattice masts tower above the countryside, and mark the progress of Japanese radio in no uncertain manner. The station has a power of 10 kw., and its normal wavelength is 345 metres (870 k.c.). That the power of this station is ample for supplying Japanese listeners with adequate programmes may be borne out by New Zealand listeners, many of whom regularly receive a large proportion of the nine stations at present operating in Japan.

THE main studio at the station is by no means an out-sized one as far as modern studios go. It is capable of accommodating comfortably a decent-sized orchestra, in addition to a dozen or so artists or performers. The studio is semi-draped only, in order that a certain degree of echo effect may be obtained in the transmission. The new transmitter is of the usual type, and is situated in a specially-designed concrete hall, adjoining which are the various power plants used for supplying the current, in addition to several workshops and experimental rooms.

QUITE apart from the large number of outside broadcasts which are made by the station authorities, the normal working day of the JOAK station is eight hours. On Sundays and special holidays ten or twelve hours of broadcasting are given. It is considered by Japanese broadcasting officials that the popularity of radio in Japan is due mainly to the outside broadcasts of sporting events that are frequently arranged. Broadcast descriptions of wrestling and baseball matches are, in particular much appreciated, and this is no doubt due to the great love of sport which the Japanese people, as a whole, possesses.

The radio play is also being developed, and from all accounts it bids fair to rival in popularity our English broadcasting product of that nature.

C. FRANCIS JENKINS, the well known American television expert, has seen the fruits of his labours brought to a successful conclusion with the opening of his own high-power television broadcasting station. The station, the first of its kind so far as its power is concerned, is located at Washington, and broadcasts visual images on a wavelength of 103.4 metres with a power of 5 kilowatts.

The aerial system is supported between two lattice steel masts each 128 ft. high, spaced 200 ft. apart, and is of the cage type with a counterpoise earth system.

The station is actually functioning at the present time with a daily schedule, transmissions being given between the hours of 8 p.m. and 9 p.m. Moving pictures are broadcast by means of the Jenkins system. The whole station and studio are housed in a building of the bungalow type. In the studio there is a motion-picture projector with its film reels, together with the usual television scanning discs, photo-electric cell equipment, and radio amplifier.

The last is employed for the purpose of magnifying up the feeble electric impulses produced by the photo-electric cell from the light variations falling on it from the moving film.

In the adjoining room is located the actual radio transmitter, which is capable of dissipating 5,000 watts. Its design is slightly different from the ordinary broadcast transmitter in that special care has been taken to meet the particular requirements desired for the faithful transmission of images on carrier waves as compared with those necessary for sound transmissions. A 5-kilowatt water-cooled valve is employed for generating the wireless waves, and it is anticipated that with this valve signals will be received over the whole of the eastern half of the United States.

The first broadcast establishing this new service was the transmission of a silhouette showing a small girl bouncing a ball. Apparently this scene depicted a romantic side of Jenkins' work in that this was one of his first efforts in connection with the television art. This was followed by a long film entitled "Call It Love."

A further studio is being erected at the station, whence it is hoped that by means of his latest apparatus, likeness of living objects will be able to be broadcast.

Wireless for Railways

PASSENGERS on the State railway between Paris and Havre are now entertained en route by broadcast concerts. The aerials are carried on the roofs of the carriages, and above each seat in the train is a socket for a head-phone's plug. The passengers, however, are compelled to accept whatever programme is being received by the main set, because as yet there are no facilities provided for the reception of more than one station.

£250 for Literary and Artistic Work.



AN intensely interesting story lies behind the announcement of our contemporary and associate, "The N.Z. Dairy Produce Exporter," that it is allocating the sum of £250 in prize money for literary and artistic work to be embodied in its forthcoming annual publication. This number, to be issued about October next, will be the fourth of its kind, each showing a remarkable growth over its predecessor.

The first Annual was issued three years ago, and although entering a crowded field, was of such an original character that it succeeded in establishing itself and laying a foundation which has been improved upon in each successive year.

The second number showed an increase in size over the first, and a wider scope of literary matter. Last year's issue, the third, showed still further improvement, and met with such success that the full issue of 30,000 copies was completely sold out.

The plan underlying this Annual is that it is wholly comprised of original matter contributed by readers of the "Exporter." Contributions are confined to "Exporter" readers, thus calling upon the originality and innate talent of a section of the community not usually regarded as literary. In point of actual fact, however, experience has shown that, amongst the wives and daughters of the 60,000 dairy farmers reached by the "Dairy Exporter," there is a remarkable quantity of real talent. The opportunity to give expression to that talent has therefore been fully availed of, with a quite striking effect.

THE procedure adopted has been to issue early in the year a detailed schedule of competitions, and to invite entries for the different sections. This matter is carefully perused by members of the literary staff, headed by Tui, the lady editor of the "Exporter," whose taste in selection has done so much in establishing a definite standard for the publication. The schedule of competitions covers Short Stories, both serious and humorous, with a limit of 2000 words, for which first prizes of five guineas each are given. Second prizes of three guineas each are awarded for the three next best in each class. There is, in addition, liberal prize money for descriptive articles: "Any Incident or Experience," "The Funniest Thing I Ever Saw," "Nature Notes," "Between Ourselves" paragraphs—these giving scope for items grave and gay, philosophical reflection, or the record of any unusual happening. Another section calls for thought in the challenge, "My Inspiration—From what do you draw your inspiration for carrying on the daily round?"

IN the Photographic Section, abundant opportunity is offered for those skilled with the camera. A prize of two guineas is awarded for the best entry in a section entitled "Our Country Homes." A similar prize of two guineas is awarded for the winner in the section "My Garden Beautiful." Other sections call for the best in farm or

rural scenes, artistic animal or bird studies, and beautiful childhood. In each class valuable secondary prizes are given as well as the premier award. Scope is also afforded for Pen and Ink Work, Decorative Designs, Humorous Sketches, Cartoons, etc.; while the handsome prize of twelve guineas is offered for a Special Cover Design in up to four colours.

THE "Exporter Annual" does not confine its awards solely to literary

To be Won by Readers

THE outcome of the interest evoked in country life by the work of the "Exporter" and the "Exporter Annual" over recent years has been a rather remarkable feeling of kinship and sympathy between residents of the country, particularly on the feminine side. This feeling cannot perhaps be better expressed than in the introductory poem of last year's Annual, contributed by a writer who has established a degree of fame for herself under the nom de plume of "Slim Jim."

Exporter Comrades

Once more we meet together in this, our "Annual," friends,
Remain we still united by virtue of our pens,
A happy band of women, of men a stalwart breed,
Who labour that the country may meet the city's need.

The towns could never hold us, for we are freedom's spawn,
To pastures wide and verdant, and windy hilltops born.
'Tis ours in rain or sunshine, from dawn till dark to toil,
The flocks and herds to care for; 'tis ours to till the soil.

But tho' our tasks be heavy, and tho' our days be long,
We're recompensed by nature with bodies lithe and strong,
And in wide sunlit spaces, in outdoor life and free,
And sturdy independence we revel mightily.

and artistic matter, however, but recognising the important part that domestic science and cookery play in farm life, embodies a remarkable collection of original recipes from the capable cooks of the countryside. The schedule set out for next year's entry comprises in itself a practical and comprehensive cookery book, in which over 200 recipes will be given. The classes are:—

1. Simply-made soups.
2. Attractive ways of cooking fish.
3. Out-of-the-ordinary meat dishes.
4. My most popular pudding.
5. Favourite cakes:
 - (a) Small cakes.
 - (b) Large cakes.
6. Hot and cold beverages.
7. Useful vegetarian dishes.

IN pursuance of the objective of the paper of providing fare for all sections of the farm home, articles are also included for the children, liberal prize money being given in this section as well for the best Short Story, best Essay on "Should Every Country Home Have a Garden?" the best Original Poem, the best Original Drawing, and suitable paragraphs on the subject "Something Interested Me," recording incidents arising out of country life.

A section is also set aside for dealing with the serious side of farm life, and providing fare for the farmer himself.

Her introductory poem was as shown on this page:

AN interesting feature in connection with the "Exporter Annual" is the fact that effort is made out of the profits to make substantial donation to various organisations working for the benefit of country women. Donations have been made from the profits of various issues to the Women's Division of the Farmers' Union and the Women's Institute, for the prosecution of their activities. Both of these organisations undertake active work in country districts for increasing the amenities of life. The Women's Division, for instance, maintains a number of bush housekeepers, whose purpose is to relieve farm women in their duties when occasion arises to go to hospital, and also conducts a particularly interesting and progressive book club to supply literature to backblock settlers. The Women's Institute aims to provide a meeting-point for its members at least once a month, and enable them to enjoy social intercourse, as well as exchange ideas and acquire hobbies of special appeal. From the profits of the 1928 Annual £50 was donated to the Women's Institute, and from the 1929 Annual probably £100 will be distributed.

THE detailed schedule of competitions for next year's Annual is published in the February issue of the "Exporter," to which readers who are

interested may be referred. The annual subscription to the "Exporter" is 5/- per annum, and as it is a two-in-one paper of marked originality, those interested in the expression of New Zealand native literary talent will find much to attract, particularly in its Home Section. Entries for the Annual are receivable from readers of the "Exporter," the aim of the promoters being to encourage the spontaneous expression of the talent of the country-side.

WATCH Next Week's Issue for particulars of **MIRACO** TENTH ANNIVERSARY MODELS

THE RADIO SENSATION of the SEASON

Nine Valves.
Screen Grid.
Electro-dynamic
Power Detection.
245's in Push-pull.
Solid Walnut Consoles.
AND THE PRICE!!!

Factory Representatives:

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LIMITED
MASTERTON
P.O. Box 147.

The Auckland Private Stations

(By "Call Up.")

THERE are two "B" class stations which broadcast regularly in Auckland, and whose programmes are greatly appreciated by a large number of listeners.

Station IZB is operated by the La Gloria Gramophone Company, at Karangahape Road, Mr. D. Shepherd being in charge. This station is on the air every Monday night from 7.30 p.m. till 10 p.m. The programmes consist entirely of gramophone music, the first Monday in each month being devoted to special request numbers. The wavelength is 275 metres and the output 30 watts. They also wish to increase their power, and are waiting for an opportune time to do this. Even if station IYA becomes no longer silent on Monday nights IZB will continue to operate.

THE second Auckland "B" class station is 1ZQ, operated by Keith's Radio Shack, from Mount Albert. This is an extremely popular station with Auckland listeners, and gives an ex-

cellent and regular service six nights a week. Although it only aims at giving efficient service within a radius of a hundred miles of Auckland it is listened to regularly by people in Wellington and the South Island, and is also heard quite often in Australia. An inspection of their correspondence files also shows that it has been heard in Chicago, and Japan, and in Christchurch in daylight.

"We began operating in 1922," says Mr. Roy Keith, "with a 5-watt plant, but at that time Sunday was our only broadcasting day. Since then we have given a regular service without a break, and now broadcast every night except Friday. Our wave-length is 251.5 metres, and our power 50 watts, although we are licensed up to 250 watts. We have a regular programme schedule which is arranged four weeks ahead, and quite often engage outside artists whom we pay. Our aim is not to compete in any way with IYA, but to provide a subsidiary service for listeners. We always try to have a different type of programme from that of IYA, so that listeners have always a choice of two. For instance, we never have sacred items on Sunday, nor dance music when IYA has it."

The following are the broadcasting hours of station 1ZQ and the types of programme:—

Sundays.—4 to 5 p.m.: Popular music. 5 to 5.30 p.m.: Children's session. 5.30 p.m.: Tea time music. 5.45 p.m.: Special request numbers. 9.10 p.m.: Band music. 10 to 10.30 p.m.: Dance music. 10.30 p.m.: Good night number.

Mondays and Thursdays.—8 to 10 p.m.: General programme, including radio talk and distant station report and request items. 10 to 10.30 p.m.: Dance music.

Tuesdays and Saturdays.—8 to 10 p.m.: General programme.
Fridays.—Silent.

Radio Boosting Sun Spots and Static

American Press Stations Listeners' Divergent Views

IN the United States the daily Press is utilising radio in several outstanding directions. For the distribution of news promptly, there has been established a special organisation under the name of "Press Wireless." To this organisation the Federal Radio Commission has granted permits to establish a chain of shortwave radio stations, to be used in the dissemination of news matter. The first two of these stations are KOP at San Francisco and WJN at Little Neck, Long Island. The San Francisco station will range from 1500 to 5000 watts of power, and the Little Neck station from 1000 to 5000 watts. These stations have now been built and approved. This organisation is capitalised at 1,000,000 dollars, and its purpose is to communicate news matter exclusively for the exclusive use of the Press.

In addition to that development, many prominent newspapers themselves maintain their own radio stations. These stations give not only news and entertainment to their clientele, but are utilised by the proprietorial newspapers to boost their own advertising service. For instance, an article in an American technical journal states that a special hour is given by the "Oakland Tribune" to impress upon listeners the value of its classified advertising columns. The procedure is for the announcer and two pianists to partake in dialogue, into which as much humour as possible is incorporated. The following two examples may be quoted:—

Announcer: "Lost, you've often heard of advertisements under male help wanted for live wires and dynameters?"

Lost: "Yes, and for steady reliable men who earn their pay the year round."

Found: "So long as you get your pay the year around why worry about earning it? Let the boss do that."

Lost: "And, believe me, he does."
Announcer: "Here's something different."

Lost: "Impossible."
Announcer: "Listen to this, this firm wants a volcano."

Lost: "What?"
Found: "What is it, a steel mill?"
Announcer: "Furniture factory."

Found: "Ah, they don't want a volcano, they're afraid of fire around furniture factories."

Announcer: "Well, this ad., male help, Thursday Tribune, states they want a crater."

No. 14 Personals.
Announcer: "The truck got off the street car."

Lost: "You mean it got off the street car track."

Announcer: "No, not according to the advertisement."

Lost: "Then the advertisement is wrong."

Found: "I saw that ad., kind of funny, under Personals yesterday."

Announcer: "Yes, sir, the ad. says, 'The party struck by truck getting off street car.' That's plain English, isn't it?"

The hour at which this service is given is now from 11 a.m. till noon, and it is claimed by the newspaper concerned that housewives and early lunchers at city restaurants appreciate the service.

DO sun spots cause static or prevent it? Reports sent in by official listeners of the Broadcasting Company leave it an open question. One official listener on the East Coast states that during the summer he has experienced a minimum of atmospheric interference. Listeners on the other side of the island and in North Auckland declare that static was never worse on New Zealand and on Australian stations.

In each instance the phenomenon was attributed to sun spots, the one in praise, the other in condemnation. The reports of official listeners always furnish interesting comparisons upon analysis. The diverging views expressed are an indication of the difficulties confronting the four New Zealand stations in their efforts to provide all parts of the Dominion with a high standard of radio reception throughout the complete schedule of transmitting hours.

An Oversight.

IN announcing through our trade personal columns last week that the Stewart Hardware Co. were introducing the "Courtenay" local station receiver it was not stated that this is all-electric.

NOTICE to all Battery Users.

—THE— EXIDE Service Station

Under the New Management
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For all Battery Troubles, Service, Repairs and Recharging.
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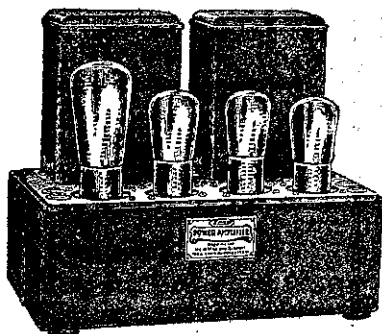
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For purified reproduced tone qualities Emmco's Amplifying Units are unequalled. The Home Type offers endless enjoyment by re-creating the gramophone records beyond recognition. PRICE £18/10/.

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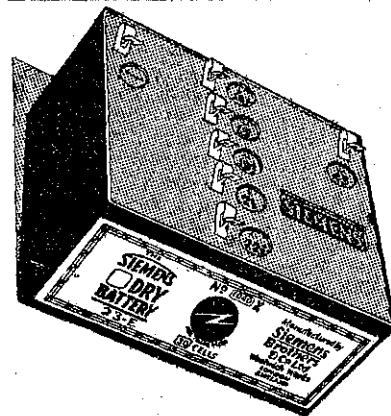
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Choose a British Battery to give you complete satisfaction. Siemens Batteries ensure perfect reception, giving you an evenness and clarity of tone that no other will do.

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Radio Plays and the Talking Pictures



PERHAPS because it lacks the mathematical exactitude of a mechanical process, the technique of an art is usually left to those who practise it. Most of us know something of how a kinema works, or how a radio valve functions. But until we see a film, or hear a broadcast in which the story or the acting "creaks" in its efforts to impress, it may not dawn on us that technique is more than a "high-brow's" chimera.

The youngest technique at present is that of the talking film. To some may seem that the "talkies" are merely the result of superimposing radio on the silent picture. In the case of the first talking films, this idea might be said to be partly true.

Graduating from a Novelty.

BUT in order to graduate from a novelty to a form of art, and to justify its existence when the newness has worn off, the talking picture is nowadays developing a special technique of its own—and one which is becoming more and more foreign to broadcasting.

It is sometimes said that the radio play is first cousin to the film. But by "film" is meant the silent picture. A swift succession of impressions, seen or heard, a rapid transition from one location to another, characterisation through a single medium which in the case of the film is visual expression and in the case of radio, sound—all these things are common characteristics both of the silent screen and the microphone.

The talking pictures on the other hand have much more in common with the theatre. In time, relationship may

WITH the advent of talking-films in the motion-picture world, and with the possible adoption within a few years of television as an aid to broadcasting, it may appear to many that these two modern forms of entertainment will ultimately merge into one coincident art, with an identical technique. This is not so. The reverse, if anything, is taking place, and the following article reveals the gradually widening difference between the technique required for each art.

become so close that, with the development of stereoscopy and improved elocution, the former will be almost indistinguishable from the latter. "Almost," but not quite, since the diffusion of that mysterious quality known as the "human element" seems to be limited to the stage, and perhaps, to radio.

It may be argued that, since the talking picture has photography at its service, there is nothing to prevent its using that variety of setting which is found in broadcasting, and in the silent film. And it is true, moreover, that the out-of-doors recording of voices has been more or less satisfactorily achieved.

But just as some authorities maintain that the only way to get the best out of Shakespeare is to play him before a patternless curtain, in order that nothing visible detracts from the beauty of the spoken word, so it is possible that exquisite photography in a sound-film may detract from the dialogue.

If this is the case (and it seems likely, unless there arises some author who can write "lines" more compelling than the natural pictorial backgrounds seen in certain films) the producer, in his wisdom, will confine his attention to interiors—and not too magnificent ones at that.

THIS means that sooner or later a still greater difference between the of

talking film and the radio play may appear. The act-division system will operate in the former, not as a convention, but as a necessity.

In the radio play the division of a story into acts is often not only unnecessary, but dangerous to its continuity. It can be as irritating as when, in the old days at the kinema, patrons were informed in the midst of some exciting or moving episode, that "Part Five Follow Immediately." Even though a smart operator could sometimes carry out the promise of the last word in that message, the delay was always dangerous to appreciation.

But with the talking film, breaks of some kind may prove essential rather than harmful to enjoyment. A limitation of scene throws too much strain on one's listening powers. Even a broadcast play is not all listening. The mind sees as many scenes as the author and producer conjure up, and this mental process balances the work of the ears. This compensatory balance is not present to the same extent in the talking film.

Desirable Rest.

THERE being little variation of scene, the viewing of a talking picture becomes a matter of hearing most of the time, and, as in the case of the theatre, a rest at the end of

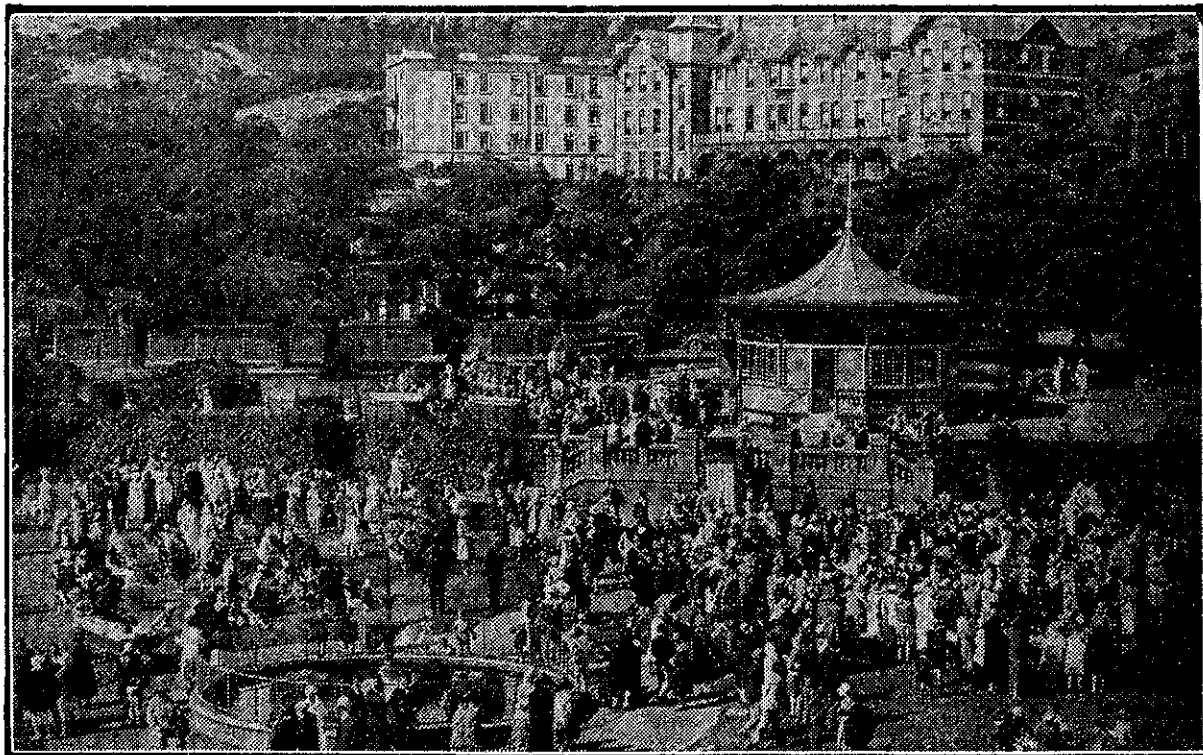
forty or so strenuous minutes becomes very desirable.

It may even be that the technique of the talkies will, in the end, provide for more act-divisions than that of the stage play—and at shorter intervals of time. For in addition to demanding conscious listening attention it further requires, at least at present, that its patrons focus that attention on one spot.

The voices of the film-players do not come from their lips. The ears and eyes of the persons watching are constantly being "pulled into line" as it were by means of efforts which are none the less real in that they are made unconsciously. In the broadcasting of a play this does not happen, since the eye has no work to do, and all the "seeing" is performed by the "mind's eye," which can work in harmony with the ear.

It may appear from what has been said that talking pictures constitute a rather formidable way of enjoying oneself. The object in view, however, has merely been to indicate that they possess a technique which, like that of many other arts, is a bigger thing than is often realised.

What makes a film or a play or a broadcast enjoyable? In nine cases out of ten it is the hidden but intelligent use of a good technique. An interesting story will give pleasure, but the writer knows that there is a technique of story-writing to be mastered before that pleasure can become an accomplished fact. And after the story comes the production with its same need of technique. The acting, setting, even the advertising require it, too, in no uncertain degree.



A scene at the Wellington Public Hospital grounds on Saturday last, when a fete was organised to provide funds to purchase radio equipment for hospital patients.

The New Zealand Radio Record

—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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

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

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N.Z. RADIO PUBLISHING CO., LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, FEBRUARY 28, 1930.

EDITORIAL NOTES.

RADIO listeners will be particularly interested in the news that a special committee, under the auspices of the Department of Scientific and Industrial Research, intends prosecuting inquiry into the question of static, with special reference as to its association with cyclonic disturbances in the Tasman Sea. The whole scope of static will be investigated as far as possible, and as the committee consists of the expert talent represented by Messrs. A. Gibb (chief engineer, Post and Telegraph Department), Professor Jack (Dunedin), Professor Burbidge (Auckland), Mr. Bingham (chief engineer, New Zealand Radio Broadcasting Company), and Dr. Barnett (physicist, Department of Scientific Research), listeners are entitled to expect that at least some interesting data will be secured, and possibly valuable conclusions arrived at. The committee met in Wellington recently, and investigated the lines of research to be undertaken. Special measurements of the strength of transmissions from Australia are to be conducted, in order to ascertain the conditions causing absorption of the strength of the waves, and whether meteorological factors enter into the matter. It is also intended that the New Zealand committee will co-operate in world-wide research into the properties of short-wave transmission from important overseas stations. This departure has merit, and will be appreciated by all interested in radio.

THE special value of radio in the alleviation of the monotony of life suffered in hospital by patients has commanded attention in Wellington recently. A special garden party fete was held on Saturday last, under the auspices of the Red Cross Society, with the object of raising a fund of £200 to equip with wireless the Ewart Hospital, whose inmates so far have not had the privilege of participating in wireless enjoyed by those in the other sections of the Wellington Hospital. The occasion was interesting because of the preliminary publicity voluntarily given to the cause of radio by

patients in Wellington Hospital who have enjoyed its charm. Several patients spontaneously wrote to the daily Press expressing the incalculable benefit derived by them from radio, and appealing to the public to support in worthy fashion the cause for which the appeal was made. The satisfactory outcome of that effort is gratifying.

TALKING PICTURES.

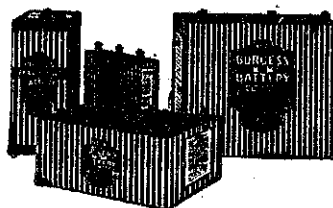
CONCERN is being expressed in all parts of the world at the economic effects upon the class of professional musicians, following upon the introduction of talking pictures in a comprehensive manner. In Australia the subject has attained enough prominence to warrant its discussion by the heads of the State, and the suggestion has even been advanced that effort will be made to protect the professional musicians by the imposition of a tax upon the talking film, either direct or in relation to the number of actors participating in the film. The question raised is certainly important. It is unquestionably true that every modern important mechanical advance has a temporary effect in the displacement of some labour unit. This was first shown in the cotton riots over 100 years ago. The workers of that day protested against the introduction of the power-driven loom, and showed their resentment by smashing the machinery. As time went on a more reasonable view developed, and it became clear that, while individuals might suffer temporary disability, the general class of work was benefited, both by the opportunity of securing higher wages through the manipulation of machinery, enjoying better labour conditions through less arduous work, and enjoying also the greater standard of culture and comfort through the labour margin of real wages being raised. Progress has been made through recognition of the fact that the invasion of machinery could not be resisted, and that in general humanity stood to benefit by the use of mechanics and power in every possible field. In the case of the talkies, this is merely a more poignant application of the same principle in an artistic field. The advent of the gramophone and the mechanical piano-player has not damaged the cause of music; rather they have benefited it. It is true that they have displaced the mediocre amateur and his painful efforts at the private party; but that is definitely a blessing, not a curse. The standard of music and the extent of its appreciation to-day are greater than ever in the past, and that is due in part to the mechanisation of music through the gramophone, the piano-player, and lastly of radio. Mechanisation, plus wide distribution, have benefited the race and the cause of culture.

WHILE those factors are recognised, it is urged against the "talkies" that their displacement factor is so vast as to amount to suppression; that the musicians affected have no opportunity for developing alternative activities. That claim is true only in proportion as perfection is attained by the talkies. Already there has been a slight revival from the overwhelming wave of abandonment of orchestras, and in some cases theatres prefer to maintain the individual touch given by the human performer. That tendency may prevail for a time, but in all probability it will be a losing battle, because of the inevitable increase in efficiency likely to accompany talking picture development. We do not see that much effect would follow human effort to resist the advent of the "talkie." To that extent the scope of activity for the professional musician may be limited. We do not agree, however, that the cause of music will be affected. Those with music in their souls will seek the opportunity for expression as hitherto, and the rewards for superior skill will be greater than ever. To the general populace the benefit will be given of both hearing and seeing the world's best when screened, and in so far as radio can co-operate with the talkies, the circle of influence will be made wider and wider.

HUBBY TOOK THE SYDAL Use Our Booking Offices in Advance.
SAMPLE.

"Please send me a jar of Sydal. You sent me a sample by request a few weeks ago and my husband is so delighted with it for shaving that he will not be without it now. Please send a sample to my sister in Christchurch, as I am sure she would be as pleased with it as we are."

S-O-S

TRAVEL IN COMFORT BY
CARWELLINGTON - PALMERSTON
NEW PLYMOUTH

**BURGESS
RADIO
BATTERIES**

"Outward Bound"**A Repetition Suggested**

ALL 1YA listeners who heard "Outward Bound" when presented by the Auckland Little Theatre Society about a year ago, will be pleased to learn that a repetition is being arranged for. The suggestion that it should be staged again emanates from the 1YA Musical and Dramatic Committee.

At the recent meeting of that committee several references were made to the appreciation which was expressed over the last performance. The date for the next broadcast will probably be at the latter end of April.

1YA Musical and Dramatic Committee

A MEETING of the 1YA Musical and Dramatic Committee was held in 1YA studio on Friday, February 14. Mr. Karl Atkinson (representing the Auckland Gramophone Society) presided over the following members: Mr. A. B. Chappell (Dickens' Fellowship Society), Mr. C. B. Plummer (Auckland Choral Society), Mr. G. T. Lee (Aeolian Orchestra), Mr. John Tait (Society of Musicians), Mr. J. F. Montague (Auckland Comedy Players), Mr. L. E. Lambert (Bohemian Orchestra), Mr. F. McCallum (Little Theatre Society), Miss R. Walker (University Students' Association), Mr. L. C. Barnes (Station Director at 1YA), Mr. O. M. Pritchard (Programme Organizer at 1YA).

Kyoto Conference**Professor Belshaw to Lecture**

ON Thursday, March 20, Professor Belshaw will give a lecture from 1YA on his impressions of the recent conference of the Institute of Pacific Relations held in Kyoto, Japan.

Professor Belshaw is Director of the School of Commerce and Department of Economics at the Auckland University College and was one of New Zealand's representatives at the conference.

Parliamentary**Reminiscences**

AN interesting item on Saturday evening's (March 8) programme at 2YA will be a talk by Mr. Chas. E. Wheeler on "Parliamentary Reminiscences—Mostly Humorous." Mr. Wheeler, who is well known in the Press Gallery at the House, needs no introduction to listeners; his previous Parliamentary talks will be well remembered.

Radio Licenses still Rising**Total Nearly 53,000**

The following return showing number of radio licenses as at January 31, 1930, has been received from the P. & T. Department. It reveals the fact that we are now well past the 50,000 mark even as far as actual receiving licenses are concerned:—

| | Receiving. | Dealers' | Transmitting and Receiving. | Experimental. | Special. | Free Licenses. |
|-------------|------------|----------|-----------------------------|---------------|----------|----------------|
| Auckland | 16,624 | 229 | 61 | — | 2 | 94 |
| Canterbury | 8,936 | 230 | 37 | — | — | 50 |
| Otago | 4,461 | 166 | 26 | — | — | 29 |
| Wellington | 20,989 | 460 | 72 | 1 | — | 40 |
| | 51,010 | 1,155 | 196 | 1 | 2 | 213 |
| Grand Total | 52,577 | | | | | |

British Rugby Team's Visit**No Broadcast of Saturday Matches**

THERE is to be no broadcasting of matches to be played on Saturdays, and on June 3 by the British Rugby team during its tour of New Zealand in the coming season. A decision to this effect was made by the management committee of the New Zealand Rugby Union, held in Wellington on Wednesday evening, February 19, when an application was received for the broadcasting of the two big matches to be played in Palmerston North—the Possibles v. Probables and the British team's match.

"I was inclined in the early stages to think that it would be a good thing to have the British team's matches broadcast," said the chairman (Mr. S. S. Dean). "That was from the New Zealand Rugby Union's point of view, but since looking at the matter from the point of view of the various unions in the Dominion, I am of the opinion that it cannot be done. If we are going to broadcast the four Tests we are going to kill club matches throughout New Zealand on the days of the Tests. The broadcasting of other matches on Saturdays will also have a great effect upon club football. If you are going to broadcast, broadcast the Wednesday matches."

Mr. E. Wylie: "The only other alternative would be to take down a description by dictaphone and broadcast it in the evening." The chairman: "There is no objection to broadcasting reports afterwards, but we have to consider the unions generally, and if we allow the broadcasting during the progress of play it is going to cripple the matches being played elsewhere."

It was decided, on the motion of Mr. Dean, that permission be not granted for the broadcasting of the British team's match in Palmerston North, but that permission be given for the broadcasting of the Possibles v. Probables match. "With regard to broadcasting generally," said Mr. Dean, "I will move that this committee does not approve of the British team's Saturday matches being broadcast, and that the question of broadcasting Wednesday matches may be considered at a later date. If the Wednesday matches are broadcast it may not interfere with football generally. If we make it quite definite about the Saturday matches the people will know where we stand."

Mr. E. McKenzie asked what the position would be regarding June 3. The chairman: "I will include that with the Saturdays." The motion was seconded by Mr. A. C. Kitto and carried without further discussion.

Coo-ee Concert Party**Australian Visitors at 2YA**

THE visit of the Australian Dairy Farmers' Delegation to New Zealand is being taken advantage of for the presentation of a programme at 2YA. The visitors will be in Wellington on Thursday, March 6, and a concert party consisting of members of the party will broadcast what will undoubtedly prove a very enjoyable entertainment, while various speakers will give their impressions of their tour through New Zealand.

Relays will be carried on to 1YA Auckland, and 2YB, New Plymouth, at the following times:—1YA: 8.15 to 8.45 (speeches only), 2YB: 8 to 9 (speeches and music).

Bridge

UNDOUBTEDLY the most popular indoor game at the present time is Bridge and the 1YA Musical and Dramatic Committee suggested at its last meeting that broadcast lectures would be much appreciated. The suggestion will no doubt be given effect to.

Two Plays for 2YA**"Lonesome Like" and "The Happy Hangman"**

TWO one-act plays from the pen of the well-known Lancashire playwright, Harold Brighouse, will be presented at 2YA on Monday, March 3. The first of these plays is a typical Lancashire comedy entitled "Lonesome Like," and is an example of the ideal type of one-act plays, the characters being well drawn and the plot well worked out.

The second play, "The Happy Hangman," is what is called "a burlesque in one act." Concerning it the "Radio Times," of London, says: "Of the many short plays by Harold Brighouse, 'The Happy Hangman' is perhaps one of the most interesting, being based on an incident which occurred in Naples, and the plot, which we shall not disclose, bears some resemblance to Schmitzler's puppet play, 'Gallant Cassion.' There are only four characters, one girl and three men, and the dialogue moves swiftly to a rather curious conclusion."

Both plays will be produced by Mr. Victor S. Lloyd, who will be supported by a strong cast of experienced radio players.

1YA Lectures**Interesting Zoological Talks**

A PARTICULARLY interesting series of talks on zoological subjects is at present being broadcast weekly by 1YA. Last week the Mayor of Auckland, Mr. Geo. Balldon, spoke on "The Auckland Zoological Park and its Place in the City's Amenities."

Next week, on Tuesday evening, Professor J. C. Sperrin-Johnson, president of the Auckland Zoological Society, will speak on "Zoos Abroad." Other talks arranged by the Auckland Zoological Society are:—

March 11.—"Notes on the Health of Wild Animals," by Dr. C. E. Bevan-Brown, who has travelled extensively and made a special study of this subject.

March 18.—"Native Bird Life." The lecturer will be Mr. F. E. McKenzie, president of the Auckland Acclimatisation Society.

March 25.—"Birds of the Kermadec Islands," by Mr. A. T. Pycroft, a gentleman of wide travel and experience, writer of the "Nature Notes" for the Auckland "Star."

April 1.—"The Sacred Ibis of the Egyptians." The speaker will be the Rev. Angus MacDonald, O.B.E., late lieutenant-colonel in the N.Z.E.F., and one of the best known padres with the troops. He has made a special study of the birds and animals of Egypt.

April 8.—"Birds and Seals of the Antarctic," by Mr. C. Reginald Ford, F.R.G.S., F.R.I.B.A., F.N.Z.I.A., the well-known Auckland architect. He was a member of one of the earlier expeditions led to the Antarctic by Captain Scott.

Wellington Carillon Yacht Racing with Radio

Suggestion for Rebroadcast

A CORRESPONDENT recently wrote making the suggestion that effort should be made to secure a short-wave transmission of the Wellington carillon, as now established in Hyde Park, London, and operated on at regular intervals by Miss Watkins, the talented carillonneur.

Inquiry into this suggestion shows that it is hardly practicable, as in addition to the difficulty of effective short-wave transmission and static interference, the fact is that carillons do not broadcast well. In a recent issue of the "Radio Times," the editor in a footnote, commenting on a suggestion of a correspondent that some broadcasts of carillons should be undertaken, said: "During the past few years the B.B.C. has, on various occasions, broadcast the carillons from several places, among which were those of the Malines Cathedral, Croyland Abbey, Gillette and Johnson of Croydon, and quite recently, the forty-nine bells cast for the New Zealand War Memorial from the North-East Coast Exhibition, Newcastle. Further, two broadcasts have already been made of the Bond Street carillons referred to. However, it has been found, in general, that carillons do not broadcast well. Much of the beauty mentioned by the correspondent is lost in transmission, due to technical difficulties which it is not possible to overcome."

Wellington Amateurs' Success

THE recent ocean yacht race conducted by the Royal Port Nicholson Yacht Club over a course between Wellington and Port Underwood, across Cook Strait, marked the first occasion on which short-wave transmission was carried out on a Wellington yacht.

Though it was unfortunately found necessary to abandon the race after part of the course had been completed, enough distance had been covered under racing conditions to determine if the radio equipment carried was working efficiently. This was installed on Mr. W. Mellor's 32ft. cutter-rigged yacht Marangi, one of the competitors in the race. The enterprising achievement was due to Mr. Mellor, owner of the yacht, Messrs. C. Liddell (ZL2BI) and S. Perkins (ZL2GK), the latter accompanying the craft and operating the equipment.

Through this scheme the progress of the yacht was communicated through Mr. C. Liddell's private station at the

In the circumstances, it seems impossible that anything should be done in the way of rebroadcast by 2YA. It may be remembered, however, that some time back 2YA did broadcast a recording of the carillon, and the results in that particular case were poor. However, when the carillon is established here listeners can anticipate regular broadcasts.

suburb of Lyall Bay (operated for the occasion by Mr. V. Roberts (ZL2AH), by land-line telephone to 2YA, Wellington, which station broadcast the progress reports.

The equipment on the yacht, which was for Morse transmission, comprised a short-wave transmitter with a six-volt semi-power radio frequency amplifier valve, and a six-volt valve as an oscillator, to maintain the stability of the wave-lengths used—40 metres and 80 metres.

The aerial on the yacht, which had only one mast, consisted of 66ft. of ordinary 14-gauge single copper wire, the lead-in of which was encased in rubber insulation. The aerial commenced halfway from the top of the mast to the tip of the bowsprit, and thence up to a position close to the top of the mast, down across the deck, being held about one foot away from three steel shrouds by a short insulated stay, and thence down into the cabin. As it was not practicable to use the more desirable counterpoise required for short-wave work, an "earth" was obtained by means of the 5 tons of lead on the keel of the yacht.

The Marangi was allotted the special call-sign ZL2DZ, for the occasion. The necessary transmitting power was obtained from a 90-volt dry B battery, with ordinary six-volt accumulators for the valve filaments. A short-wave ordinary two-valve receiving set, with two pairs of headphones, completed the equipment. A spare broadcast wave-length coil was carried also, and by means of it the occupants of the yacht were able to obtain good reception of 2YA, Wellington, and thus heard the news which had just previously been dispatched from the yacht, and which had been telephoned to 2YA by Mr. V. Roberts from Mr. Liddell's home.

The success of the installation on the yacht may be gauged from the fact that it was heard clearly up in New Plymouth. Messages were dispatched from the yacht every half-hour from the time they had made a good start until the arrival back at the yacht's moorings late at night. Unfortunately the yacht became becalmed in Cook Strait, off Lyall Bay, and as a special weather forecast by Dr. Kidson, Government Meteorologist, for the yacht, which was duly received, showed no promise of better conditions, the Marangi put about for home at 8.30 p.m.

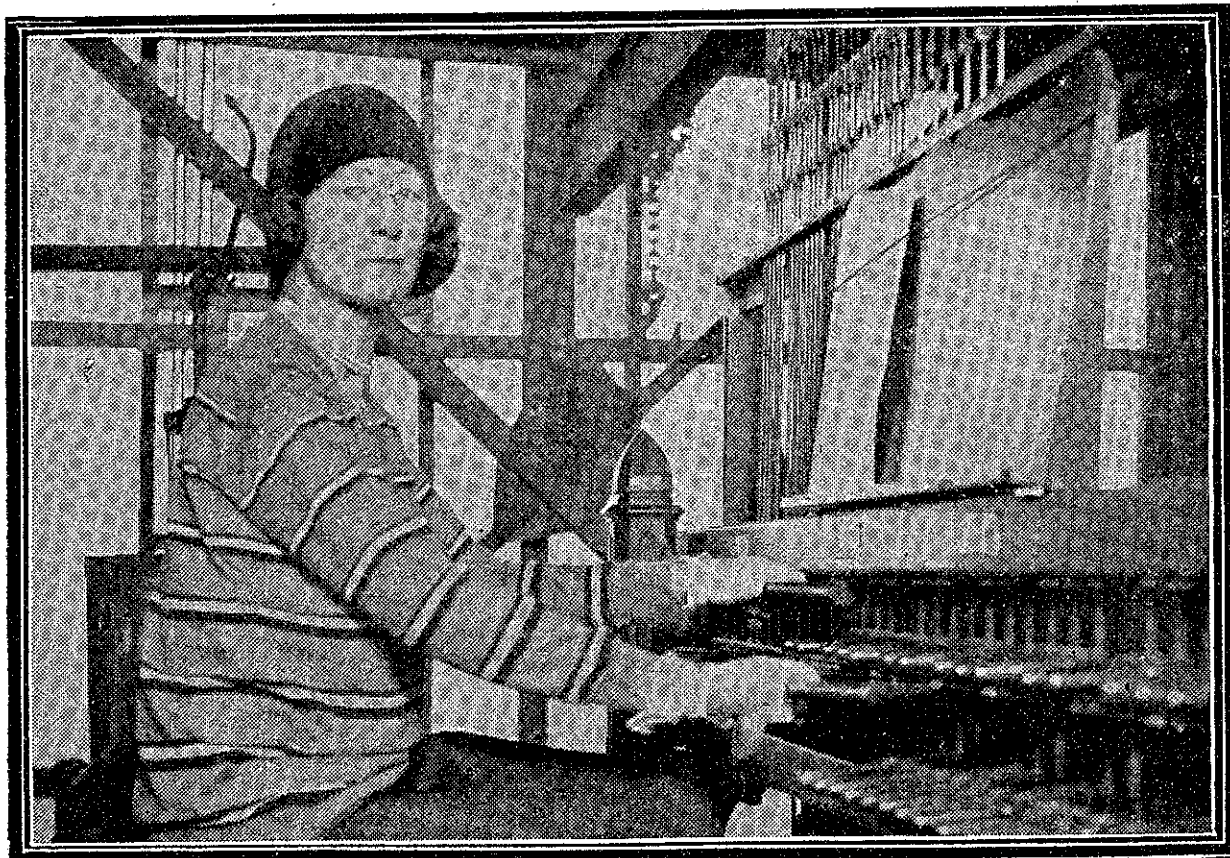
Altogether the enterprise demonstrated how successfully short-wave communication with the land could be maintained from a small yacht on the high seas, with only temporary equipment. The event is a striking tribute to the skill and zeal of Messrs. C. Liddell and S. Perkins, two of Wellington's prominent amateur radio transmitters.

Changes in Population

Shown by Electricity

AN interesting calculating machine is now in use at Census Headquarters of the United States, providing a constant and reliable estimate of the ever-changing population.

It is electrically-operated, a tiny light flashing each 13 seconds to indicate a birth, another every 23 seconds shows a death, and other flashes indicate the arrival of an immigrant, or the departure of an emigrant. A counter at the top of the chart gives an estimate of the total population of the nation at any time.



Miss Gladys Watkins at the keyboard of the Wellington carillon, now at Hyde Park, London, from where she recently broadcast. A gramophone record was made and broadcast from New Zealand stations.

AN excellent innovation in connection with broadcasting has just been introduced in Germany, where the Government have arranged that listeners who through sickness or other cause are totally prevented from leaving their beds or their homes to attend places of entertainment shall be given free listening licenses. In many cases such people, owing to their misfortunes, are in straitened circumstances, and the grant of a free listening license is a concession which should be very much appreciated.

THE police transmitter at Detroit has the appropriate call-sign KOP, and in order that it may live up to its motto it has been arranged for the police in the district to be provided with pocket wireless receivers. These are two-valve sets, and are of the shape and size to fit into the pocket—albeit a policeman's pocket. Bobby's vest is elaborately wired with innumerable strands of fine wire, so that when wearing the same he is virtually a walking frame aerial. This fact, coupled with the little two-valve receiver in his pocket, enables him to keep in touch with Father KOP.

A REPORT from Washington states that the claim is made that television in the home and the theatre will soon be possible. An engineer of the Westinghouse Electric Company is reported to have invented a crystal globe which receives moving pictures transmitted by radio and flashes them upon a screen.

RECENTLY the Prince of Wales purchased a five-valve portable set for his personal use at York House. The Duke of York, who, it is reported by many experts, would have made a very clever mechanic, likes to experiment with his set and tune in foreign stations, whilst the Prince of Wales is interested chiefly in British programmes. It is also reported that the Duke has built his own receiver from a blue print, and is very pleased with the results he is getting. It would certainly be interesting to know what type of receiver this is.

THE announcement made in London a few months ago by the Imperial and International Communications, Ltd., that special rates would be available during the Christmas season for cable or radio messages consisting of Christmas and New Year greetings, draws attention to the remarkable growth in the public use of the telegraphs for this purpose. These special facilities at greatly reduced rates have only been available for the last four or five years, but, in spite of their comparatively recent introduction, they have been welcomed by the public to such an extent that last year over 100,000 of such messages were exchanged between this country and all parts of the world. To those who have missed the Christmas post or who wish to give special pleasure to some relative or friend abroad, the service is an invaluable facility. Some idea of the cheap rates available may be gauged from the fact that messages of ten words may be sent to New Zealand for four shillings. By special arrangement, for the convenience of those engaged in Christmas shopping, greeting telegrams may be handed in at several of the principal London stores, while a service is in operation between London and New York, whereby Christ-



mas cards, specially drawn or written, may be transmitted by wireless and delivered in the senders' own handwriting on the other side of the Atlantic.

THERE is no animosity on the part of the American Press to radio. Rather do they co-operate in every way with it and encourage its development. Many newspapers, in fact, maintain their own stations. Recently the "Chicago Evening Post" assisted radio development by offering 40 radio sets, of a total value of more than 8000 dollars, as prizes for a letter based on the subject, "What has been the Greatest Benefit to Mankind from the Invention of Radio, and Why?" Letters were limited to 100 words, and entries were to be received and the awards made in time for the prizes to be in the winners' homes by Christmas.

THE radio industry in the United States has now reached such colossal dimensions that it is computed to involve capital investment close upon four hundred million dollars, or not far short of £100,000,000. The industry employs directly and indirectly about half a million people.

IN an endeavour to show originality, the announcer of a broadcasting station situated at Lille, France, tried to train a live canary to act as a melodious signal when the studio artists take a breather—or whatever they assimilate between turns—but the feathered protegee did not come up to expectations. He was too unreliable, for either he refused to tweet when requested to do so, or burst into trills as soon as the bandmaster had given the formal two taps on his desk to start off his orchestra. So Lille has given the bird—well, the bird.

OSCILLATORS and radio pirates are all nuisances, but in most cases there is a world of moral difference between the two classes. As the ordinary methods of overcoming piracy are rather slow, the R.B.C. might take a hint from the Polish broadcasting authorities, who are seeking to overwhelm the pirate by appealing to his better nature. With this end in view they recently broadcast from the station at Vilna a programme addressed to "the radio pirates of the world." In a special address to this ignoble fraternity, condemnation was tempered with exhortations to repent. The license statistics are now being watched with great interest.

THAT the oscillator is slowly dying out is shown by some revealing figures collected by the R.B.C. concerning oscillation complaints. In October and November, 1927, complaints concerning this type of interference numbered 2204. In the corresponding

period of 1928 the figure dropped to 1603, while last year it was only 1551. The figures as they stand tell less than the truth, for in October, 1927, there were only 2,337,733 licenses, as compared with 2,852,924 two years later.

OPERATIONS have been commenced on the construction of an up-to-date high-powered broadcasting station in the town of Haarlem, Holland. Three studios have been equipped, the largest of which is 32 feet long by 16 feet wide and 14 feet in height. This provides room for the orchestra and any choir or soloists required for big musical works, while the two smaller ones are available for smaller combinations and for lectures. The technical arrangements are such that allow of an instantaneous transference of power from one studio to the other, so that the awkward waits and waste of time which occur with less up-to-date methods are avoided. The gramophone department is equally up-to-date, and with its double-disc electric gramophone, the two sides of which automatically alternate, it is possible to present complete and lengthy works without any break.

COWS were milked by radio at a Fair held in Wisconsin recently—not merely to the accompaniment of radio music—but by milking machines controlled entirely by a radio transmitter located a few hundred yards distant. Further seemingly miraculous demonstrations were given also. Radio-controlled automobiles were piloted around

a race-track, pianos were played, water was pumped, and various units of farm machinery were operated, all by radio waves! It appears as though in future the up-to-date farmer will do all his farm work—seated in an armchair!

ALTHOUGH there will be no inauguration of regular international programmes in the immediate future, it is almost certain that the Union International de Radio diffusion, known as the "Radio League of Nations," with main offices in Geneva, will effect an exchange of programmes within a year or so. Interchange of programmes from all European countries through a network of the principal European stations is contemplated, and arrangements will be made for short-wave relays for the benefit of America. The plan, for example, would bring an entire German or Italian programme, staged in Berlin or Rome, to the attention of listeners throughout Europe and North America and in succession the music and principal figures in broadcasting of the other nations. This idea, it is hoped by the League of Nations, will be one of the most strikingly effective instrumentalities for mutual understanding and world peace ever devised. Considering the marked success which attended 2YA's rebroadcast of the Naval Conference held in London recently, New Zealand listeners can confidently anticipate further interesting relays in the near future.

TELEPHONE communication between houses and offices on shore and a ship at sea became an actuality recently with the inauguration of a regular service between the s.s. Leviathan and any telephone subscriber in America who cares to use this means of communication. The service is effected by linking land lines with radio telephone stations in New Jersey. Though communication is at present limited as to distance, yet under favourable circumstances it will be possible to handle calls to and from the liner while she is as far away as 1500 miles, or nearly three days' sail from America.

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Identification Wanted

At about 10 p.m. on February 12 I picked up a station operating on 210 metres (1400 k.c.). Music came in at fair volume, but static was very bad that evening and prevented me from hearing the call-sign.—R. G. Marsh (Rotorua).

COULD any listener tell me what American station I picked up on February 11 from 7.45 p.m. till about 8.45 p.m., on about 275 metres (1090 k.c.). The call WTIC, Hartford, Connecticut, was given, and it was stated that the programme was their fifth anniversary concert. As this station is listed as 500 metres, and as stations WBB (or WBW), Boston, Massachusetts, and WB (?), Springfield, Massachusetts, were mentioned, I supposed it was a relay or a rebroadcast. Static was rather bad, and some parts of the announcements were missed. The transmission was one degree below KNX, which was also received well.—J. Burt (Kohu Kohu).

[The frequency of WTIC has recently been changed. This station now operates on 283 metres (1060 k.c.).—Ed.]

ON Tuesday, 18th, on 25.5 metres, from 11 p.m. till 11.20, a ladies' choir was heard, but in the middle of the next item (a band) transmission ceased. One announcement only, and in a foreign tongue. The same station was on the air on the 19th at midnight. Can any of your readers place him? The language sounded similar to UOR2, Vienna, but signals were rather "bubbly."—H. R. Hughes (Greenhithe).

WHILE searching for stations to-night (February 18), at 8.42 p.m., I heard the finish of "Forty-seven Ginger-headed Sailors" at about 2 degrees above Palmerston North (2ZF), which operates on a wavelength of 285.5 metres (1050 k.c.). The station was rather weak (R4) and static was bad. The item I recognised may have been a gramophone record. Though I listened on this frequency for about an hour, I could not hear anything further.—L. Angelini (Pahiatua).

I NOTICED in your issue of February 14 that no mention was made in the DX columns of anyone hearing 6AG,

THE D.X. CLUB

Views and News.

Perth, on February 7, testing on telephony with another station on about 41 metres. Could any reader give me the latter station's call, as I was unable to copy owing to heavy local morse. This station closed at 5.50 a.m. by saying "good-night" to 6AG.—L. Jackson (Wellington).

COULD any listener give particulars of an amateur station which was on the air on February 13. Wavelength about 277 metres (1080 k.c.). Band music was heard at 11 p.m. Music was clear, though speech was distorted. Also a station on the air at 8.45 p.m. on February 14. Wavelength about 250 metres (1200 k.c.). Bagpipe music was heard on tuning-in, and after a final item the station closed down. Music came through with good volume on the loudspeaker. Another station was on the air on February 13 about 11 p.m. on 260 metres approx. (1150 k.c.). Music was just audible.—O. S. McConachie (Gore).

COULD any listener identify a station operating on 725 k.c. (413 metres) which transmits after 2YA has closed down. I have heard it twice lately at approximately 12.30 p.m.—J. A. Stewart (Southland).

Stations Identified

THE station that "Kauspauka" heard was KFVB, Hollywood, operated by Warner Bros. Wavelength 316 metres (950 k.c.), power, 1 k.w. With regard to station 4ZP, this station is owned and operated by Parson's Radio Supplies, 155 Lazard Street, North Invercargill. Transmission times: Monday and Tuesday, 7-10 p.m.; Friday, 7-11 p.m.; Sunday, 4-6 p.m. Wavelength, 250 metres (1160 k.c.). There is no 4ZI in Invercargill. To-night I picked

up WTAM at good speaker strength. In the "All About the All-Electric" this station is marked as not having been heard in New Zealand. Screen Grid Three (Nelson). [Mr. A. Edgecombe has also sent particulars re 4ZP, Invercargill. These are contained in the letter given above.—Ed.]

D.X. Topics

COULD you please supply me with the postal address of WEAR, Cleveland, Ohio, giving frequency as 1070 kilocycles (280 metres) as I picked up this station on February 17, and would like to write for verification. Could you also tell me what time it would be in Ohio when it was 8 p.m. in New Zealand. I notice in the "All-Electric" that this station had, at the time of printing, not been reported as heard in New Zealand.—L. D. Hamlyn (Te Aroha West).

The address you give above will no doubt be sufficient. When it is 8 p.m. in New Zealand it is approximately 2.30 a.m. the same day in Ohio.—Ed.

FOR three night preceding February 18, I received the American station to which "Kauspauka" referred in this week's "Radio Record." The call-sign I took to be WCHI or WTAL, Chicago. To date I have logged 104 stations, 19 of which I have as yet been unable to verify. I have noticed that "Kauspauka" has logged several stations which I have never heard. Would this be due to the difference in our localities? [Probably not, as you both seem able to secure excellent American reception. "Kauspauka" may have received these stations when conditions were exceptionally good for a short period, and when you were not listening-in.—Ed.] Would "Kauspauka" give me per medium of these columns particulars of his set, aerial, earth, etc? My set is a seven-valve all-electric factory-built receiver, with an aerial about 40ft. high and 100ft. long (including lead-in). The earth consists of a number of pipes of various lengths, driven into the ground about 1ft. apart. The station about which "Kauspauka" was inquiring may have been KFVB, Hollywood, but I receive this station on about 315 metres (950 k.c.). Station 3YA often relays American stations just before 8 p.m., so it may have been one of these transmissions that "Kauspauka" heard. Two or three nights ago I heard a station on 3YA's wavelength, which I was unable to find elsewhere on the dial. This was just before 8 p.m., so I concluded 3YA was relaying an American.—W. R. Dakers (Morrinsville).

WE received stations KGU, WEAR and KGO on February 17. WEAR was reported as not heard in New Zealand, so I wonder if any other listener had heard it or KGU. I have also

heard WENR and WBBM at very good strength. Has any listener heard WEJK? I also receive this station on good volume. I have a list of four Japanese, 15 Australian, 10 American and 11 New Zealand, making a total of 40 stations. I have listed 10 of these in the last two weeks.—Ivan Hansen (Mania).

[Mr. S. Ellis, Taranaki, has the largest list of verified stations, numbering 70 odd, while "Kauspauka," Hawke's Bay, has the largest log (102) of stations identified but not verified.—Ed.]

SEVERAL correspondents have recently mentioned a station, KGM, Los Angeles, which they take to be a new station. It is not by any means a new one; the call-sign is KTM and the location Los Angeles. Up till about twelve months ago it was KNRC, Santo Monica, but since the call-sign has been changed the location is always given as Los Angeles. In your issue of February 14, Westrad (Woolston) wishes to know the best time of year for receiving Americans. The best time here is during the spring and summer, from about October until March. Very little can be heard from them during the winter. I picked up WTAM, Cleveland, Ohio, on Monday, February 17, one of the strongest Americans I have heard. The one I consider to be my best reception is WLBW, Oil City, Penn., on a power of 500 watts; this station has been verified. Has any other listener heard him. My set is a four-valve Browning-Drake, but on D.X. work I use three valves and headphones, as I find I get much better results in this way. My log totals 105 stations, 62 American, one Canadian, five Japs, 18 Australian, and 19 New Zealand.—Geo. R. Munro (Auckland).

I HAVE just finished reading the D.X. pages of a recent "Radio Record," and would like to know the position regarding the publication of reception of the present or any of the future international short-wave tests conducted through VK2ME, in so far as the ordinary listener is concerned. Regarding the test last week between W2XAF and VK2ME, when the possibility of two-way communication between Schenectady and Dunedin was being arranged. Mr. Wagner, of the Publicity Department of the General Electric Co., made a special return to the "mike" in order to impress VK2ME with the necessity of keeping pending events as quiet as possible, and to ask 2YA also to be cautious. Now, Mr. Editor, would I be violating the terms of my license by sending reports on these tests to the "Record", or is the secrecy asked for unnecessary?—N. R. Y. Jakeman (Huntly).

THESE tests are being conducted with a view to ascertaining the possibility of a satisfactory programme exchange service. Officials concerned are probably urging secrecy merely to prevent short-wave listeners tuning in to the tests and thus spoiling results by excessive oscillation.

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WELLINGTON

News from Across the Tasman

Recording Music on Wire

I NOTICE that both Mr. Sellens and Mr. Morrison report hearing station WOO on short-waves, conducting word tests with G2GN (s.s. Olympic). I have a call list which gives particulars of WOO as follows:—Wave-length, 500 metres (590 k.c.); name of station, Wanamaker; situation, Philadelphia. Probably this station is now running a short-wave transmitter. I also heard this station on that particular wave-length, and the closing down announcement did not give any indication of situation or frequency—just "WOO closing down now."—H. W. Young (North Auckland).

Our Mail Bag

Power Line Interference.

I OWN a first-class radio set, and, having leased a property at Eastbourne for the summer, transferred it to this new location. Imagine my surprise and disappointment when I discovered that it is absolutely impossible to tune in even Christchurch, let alone more distant New Zealand stations, due to power leaks on the high tension lines passing along the main road. The interference is not merely an occasional crackle, but a continuous nerve-racking clatter, as if a buzzer was doing its best to deafen one. I find that it comes into the picture at about 600 kilocycles, and as one goes up, so it increases, until at 1000 or over it is nothing short of a deafening roar.

Of course, I can get 2YA without any interference, as the reception is perfect without using the aerial, but immediately the aerial is connected, this clatter spoils everything, making it impossible to get Dunedin, Auckland or Christchurch, Australian stations, of course, being absolutely impossible. I have tried during the afternoon, but the noise persists. Once I tuned in after midnight, when the street lights were out, but still the interference was there with usual vigour. In an endeavour to check up the cause, I examined the power lines on the main road by standing alongside the poles and discovered that the leaks are so bad that, in some cases, one can hear and see the leak. The noise is best likened to a cricket—it builds up and then discharges across the insulator, the spark being quite visible from the footpath. In the interest of the many radio set owners in this locality I suggest that the Hutt Power Board be approached and urged to remedy this interference, which is undoubtedly ruining reception from stations outside 2YA.

I have discussed the interference with a radio firm at Rona Bay, and they confirm the state of affairs, in that interference from power leaks—to use their own words—is shocking—"Fed Right Up" (Eastbourne).

Unsigned Correspondence.

A GAIN we wish to draw attention to our request that all correspondence must be signed as proof of its genuineness. This week's "Mailbag" is curtailed because of this neglect on the part of correspondents, and we wish them to understand that this is a rule to which exception cannot under any circumstances be taken.

ON February 27 the A.B.C. Players, under the direction of Mr. Laurence Halbert, will present from 2FC the life-after-death drama, "Outward Bound," by Sutton Veno. The initial production of this play in London in 1923 created a furore among dramatic critics because of its original plot. There is one scene only for the three acts, the lounge and smoke room of a small ocean liner. The success of the play depends on the reading of the lines and the characterisations, as there is very little action throughout the three acts.

A TALK will be given by Mr. George Cowley on February 28 from 3LO on the life work of England's famous statesman, Benjamin Disraeli, Earl of Beaconsfield. Disraeli first came into prominence with the publication of "Vivian Gray," which was so audaciously clever that it at once placed him in the limelight of public attention. He became a prominent and picturesque figure in Parliament, and ultimately became one of the chief leaders of the Tory Party. In 1868 he was made Premier.

STATION 3LO will again celebrate the national day of the patron saint of Wales by broadcasting a Welsh programme on March 1. The Cambrian Glee Party will again provide a programme of Welsh music, but the members of the party are hopeful on this occasion they will sing under better circumstances. Like all good Welsh people, the Glee Party attended the St. David's Day celebration picnic last year, and on the return trip from Queenscliff, the Weeroona experienced particularly bad weather. On arrival at Melbourne, with less than an hour to spare before they were to face the microphone, most of the party were violently seasick, and it was a wan and weary party that sang the songs of Wales that night. As usual, the programme is being arranged by Mr. R. H. Owen, and the soloists will be Messrs. Eric Jones and Owen Griffith, and Misses Mia Morgan and Iris Turner, with Mrs. Stuart Cowan at the piano.

BOB STROTHER and William Everard will sing some of the most popular coon numbers from 2BL on February 28. Mr. Strother was one of the original "White Coons" and has appeared at Buckingham Palace. He is the composer of the popular music roll, "Moonlight Goblins." Mr. Everard has a good tenor voice, well suited to broadcasting. Impressions of Eugene Stratton singing "The Lily of Laguna" and "Walking Home with Angelina" will be included in their forthcoming programme.

ABOUT three years ago the Maori Trio left New Zealand shores for Australia with the Aotea-roa Maori performers, and listeners may possibly remember their initial broadcast from 2FC. They are Bud and Ruahine Thompson, and Riwa Hodge, and the presentation of Maori numbers from 2BL on February 28 should hold a special appeal for New Zealand listeners. "Maori Love Ditties" and "Waeulae Medley" will be included in their programme.

MR SCOTT ALEXANDER, whose plays have been a popular feature of 2FC's programmes for some time, will broadcast on March 1 from 2FC for the last time before leaving for England. His final appearance will be in a radio play "The Smiler," by Codrington Ball, a sketch similar to the brief dramas he has been presenting weekly for some months past.

MR. CHRISTIAN HELLEMAN will broadcast an organ recital through 2BL on February 28. "The Chant Heroique" of Caesar Franck and Borowski's "Elegie" should make a pleasing contrast. "Minuet" (Moszkowski), "In Springtime" (Hollins), "Scherzo" (Helleman), Mendelssohn's "Spring Song" and the "March Militaire" (Schubert) make up a programme which should appeal to all lovers of organ music.

A SERIES of national programmes dealing with the various countries of the world will be broadcast shortly through 2BL at regular intervals. The first of the series will be heard over the air on Thursday, February 27, when M. Marcel Bourguin, Deputy-Consul for France, will give a description of the capital city, outstanding pleasure resorts, and pastimes of his country. The address will be in French, followed by the English translation.

ON MARCH 1 the "Who-Is-It" Revue Company will broadcast a medley of entertaining novelties from 2BL. Miss Stella Lamond's song, "I Am a Woman Who Knows," and the clever chorus "Watson's Walnut Wattlean What-not," by Frank Hastie, the celebrated English comedian, are two numbers which are sure to please, while sketches by D. B. O'Connor and Miss Daphne George are amusing in the extreme.

MISS VIOLET COLLINSON, soprano, will appear in "The Contrasts Revue Company," to broadcast from 2FC on February 28. During the past two years she has given numerous recitals in the Sydney Town Hall, and was a soloist at the Eucharistic Congress Concert in 1928. Included in her next broadcast programme will be the well-known song, "Still as the Night."

A CORRESPONDENT has sent in an inquiry for further particulars of this recording apparatus, evidently with a view to constructing the same. The article was not written with a view to being used as a guide for construction, because, apart from any patent rights considerations, particulars in the writer's possession are insufficient for the purpose, and the diagram given is little more than an elaborated theoretical diagram.

The short article was written with a view to giving readers an idea as to the general method adopted in this system of recording, as it has several times been briefly mentioned in the "Record." There are signs that it is being revived, which of course means also that use will bring rapid improvement.

Proof that the system is capable of high-grade reproduction in its present state is afforded by the fact that in a leading Continental conservatoire of music the singing and playing by students is recorded by this system, and afterwards reproduced for the benefit of the individual student, who is thus able to hear and criticise his own performance and benefit thereby.

The reason for placing the three magnets for different purposes permanently along the path of the wire appears at first to be rather puzzling, but it must be remembered that only the magnet in use is supplied with current, and the others, not being so supplied, have no effect. The demagnetiser will presumably be supplied with alternating current when in use. The recorder will be fed with the output of a good amplifier, connected in the usual way to a microphone or other means of converting sound into electrical impulses.

Many difficulties would beset the attempts of an amateur constructor—the exact method of passing the wire in front of the magnet poles, the quality of steel wire to be used, speed regulation involving the varying diameter of the spool as the wire is wound on, and so on.

A VALVE that will suit one stage in your set may be quite unsuitable for another stage, so valves should not be interchanged unless the manufacturers state specifically that they are suitable for the position in which they will be placed.

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"Hop, Skip, and Jump"

THE following charming little letter was received by Uncle Tom of IYA from two of his little admirers in Radioland:—

DEAR Uncle Tom: I wrote another letter to you but when the bunnies died I put it up. When Uncle Charles Bishop was here we went shooting and one day we found a burrow with three little bunnies in, and I had to run round the paddock for them so I called them Hop, Skip and Jump because they did.

The cat got Hop and Skip died of frite and I called Jump Bun Bun instead and one day I ran a buck down in the calf paddock and we put him in with Bun Bun and called him Buckeroo. Then the cat got Bun Bun and Buckeroo pined and died and after three days Mother said wot is that smell and I said Buckeroo and she said no more rabbits. I was sorry I did like them.

We were sorry we did not hear you last week and the other weeks, and we love Wednesdays. We like Cinderella and the other uncles too but they do not sing. I was walking round the corner. Enid is 6 and I am 8. We go to school. There will be 9 pupils now. We have a sheep dog Jess a cattle dog Sharp and a pup Tip. And 4 cats Feby, Simon Peter, Fatima and a kitten. "Not Long." Daddy said he is not long for this world if he keeps braking the flowers in the garden. Please may we go in the birthday book. Enid is November 29 and mine is October 1. With lots of love to you and Cinderella. From Rex Simpson and Enid.

'This Most Joyous Work'

Uncle George and the Children's Session

THE Rev. George Coats, "Uncle George," who is leaving New Zealand on a visit to England, attended, for the last time prior to his departure, the meeting of the IYA Children's Session Advisory Committee, held on Tuesday, February 18. He then resigned his position as chairman, and in doing so he expressed himself very feelingly concerning his association with the committee, the children's session, and the Broadcasting Company.

In the course of his remarks he said: "I regret very much the necessity which has arisen for my withdrawing, for a period at any rate, from the activities of this committee, and from the very joyous work of entertaining the children. It has been my great privilege and a very great pleasure to me to have been associated with the children's work. I consider it to be the most important part of the listening side of radio, and not the least valuable. Particularly in some parts is radio considered just for the children's session alone, and does matter very much. All those who have been actually engaged in the work of the children's session have realised to the full the responsibility which has devolved upon each of us in turn in catering for the child mind, which is highly imaginative and very susceptible; there is no doubt whatever that they do in time come to look upon us as their uncles and aunts indeed. I regret very much having to break this link, but none the less have been looking forward for years to this trip abroad, and the time has come when one is obliged to lay down this most joyous work, which I do with considerable regret."

Mr. Coats went on to refer to the Broadcasting Company's appreciation of his work, and he added: "I am not going to lose my touch with IYA. I am so interested in children's work that I am going to make it my duty to learn all I can of the work in other countries and with my own limited capacity for writing, put it into words which will be sent forward to the organiser to be given to the children from time to time."

Those present at the meeting were: Rev. George Coats, "Uncle George"; Mr. T. T. Garland, "Uncle Tom"; Miss Jean Begg (National Council of Women); Rev. L. B. Busfield (Sunday School Union); Mr. D. W. Faigan, "Uncle David"; Mr. L. C. Barnes (station director); Miss R. Palmer (children's organiser). Apologies for absence were received from Rev. L. B. Fletcher, Mr. V. T. Drew, Mr. E. V. Hudson and Mr. Abbott.

The Rev. L. B. Busfield was elected chairman in succession to the Rev. G. Coats, and Mr. D. W. Faigan, M.A., was welcomed as a new uncle, "Uncle David."

Radio in the Desert

New Development in Egypt

THE Egyptian Government has recently sanctioned a scheme which will place Cairo in direct communication with the principal oases of the Libyan Desert by means of a chain of fixed and mobile wireless telegraph stations. In view of this a number of young Egyptian engineers have been sent to Europe for training in radio.

The Libyan Desert is in essence a vast elevated broken plateau of rocks, principally limestone and sandstone, with an area of some 360,000 square miles, over which the humble camel caravans plod for months at a time. This immense plateau contains sundry deep pockets or depressions, and in certain of these pockets are oases, which vary in area from 300 square miles, in the cases of the Great Oasis of Dakhla, to the 40 square miles of the Little Oasis of Baharia. It is oases such as these that are to be connected together by radio.

On entering Egypt from foreign territory, the goods carried by camel caravans must pay Egyptian ad valorem Customs dues at the first oases at which the caravan halts. In order to ensure that taxes are collected from every caravan entering Egypt, the Deputy Director-General of the Egyptian Frontiers Administration is equipping the desert motor convoy patrols on the caravan routes with mobile wireless stations mounted on six-wheeled lorries. Thus the Egyptian Frontiers Administration offices in the oases will be kept informed of the positions of caravans, whilst the wireless stations in the oases will be in direct touch with Cairo.

Technical difficulties in the way of securing regular and efficient wireless communication between Cairo, the oases, and the mobile patrol stations, over broken desert country and, in the deep oases, depressions, call for very careful design of the Cairo transmitting station, which has masts 250 feet high and an "earth" system containing twenty miles of copper strips. Work on the Cairo station is nearly completed, but the erection of the oases stations must of necessity be slow and laborious.

The Egyptian Government hopes by means of the new wireless stations to expedite the formidable task it has undertaken of making a detailed survey of the whole of the areas of the Libyan and Arabian deserts which lie in Egyptian territory, and intensive exploration and survey work is proceeding continuously. With the mechanisation and speeding up of desert transport, the glamour and romance of the desert is fast disappearing. Yet the legends of the so-called "lost" oases, such as Zerzura, persist, and it is quite possible that in the immensity of the Libyan Desert there exist oases as yet unvisited.

News of the Week Children's Sessions

DANGEROUS as is motor traffic to children in the New Zealand cities, it does not compare with the menace in the United States where hundreds of youngsters are knocked down by motor-cars every year. Owing to the system of living in flats in the big American cities, the children are compelled to make the streets their playgrounds. In Chicago, "Uncle Bob Wilson," who broadcasts from station KYW, has a "Kerb is the Limit" radio club for children listeners. He broadcasts every evening in the week excepting Sundays, and he constantly warns children against the danger of rushing out on to the roads when playing in the streets. Already 435,000 juveniles have joined the "Kerb is the Limit" Club.

THE motor-cars passing the 2YA studios while Hare Honei was delivering his address greatly disturbed the old gentleman, and he paused to protest on more than one occasion. Unfortunately a broadcast studio is best situated, for general convenience, in as central a position as possible. The city of Wellington is nowadays thickly congested with motor traffic, and no street in the metropolitan down-town area is free from almost continuous motor traffic. The 2YA studios are located on a corner, and the honking of motor horns as the cars reach the corner is almost incessant. It is a pity, but it is unavoidable.

AT IYA.

TUESDAY, MARCH 4.—More of Uncle Dave's jolly stories, recitations from cousin Joy, duets and solos from Cousins June and Eileen.

WEDNESDAY.—Two favourite cousins will be present this evening—Jovee and Lois—and they will have some of their cheery duets, and other music for us. Of course, Uncle Tom will be present with many interesting things to talk about.

THURSDAY.—Miss Sale is bringing a band of entertainers to the studio, so listen in to the many things you will hear. And, of course, listen to the latest experiences that Peter Pan will have to relate.

FRIDAY.—Once again Nod and Aunt Jean will take charge of the Happy Hour, cousins assisting them with recitations and sketches.

SATURDAY.—Aunt Daisy will tell stories and give birthday greetings, Cousin Miriam will play the piano, and Cousin Dorothy will recite.

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

AT 2YA.

MONDAY, MARCH 3.—Uncle Jeff will be here to-night with riddles and puzzles, and Cousin Hilda Gorrie will bring her little pupils to play, sing, and recite. She also will sing to you herself.

TUESDAY.—Here comes Uncle Jim with Jumbo and his stories. Cousins Betty, Eva, Marjorie, and Truda will also entertain.

THURSDAY.—Uncle George with his radio pieces and newbies, Cousin Norah will sing "The Mouse" and "Vespers." Also listen to the whistling of our tin.

FRIDAY.—To-night a wee cousin named June is going to bring five tiny mites, whom she has trained herself to recite. Two piano solos will be played by Cousins Stella and Midge, and two violin solos by Cousin Frank. Of course, Big Brother Jack will be here, too, with Robinson.

SATURDAY.—Uncle Toby, Mr. Pilot, and the aeroplane will arrive, and they will bring with them Cousin Norah, who sings. The Petone Boy Scouts will give a delightful programme, which they have been carefully preparing.

SUNDAY.—The Children's Choir of St. Matthew's Anglican Church under the Rev. Houghton.

Good-bye, Nurse.

Her husband had just come home, and had his first meeting with the new nurse, who was remarkably pretty.

"She is sensible and scientific, too," said the fond mother, "and says she will allow no one to kiss the baby while she is near."

"No one would want to," replied the husband, "while she is near."

Can you solve a difficult problem?

See
"TRIALS IN TACT"
(On page 33 of this issue).

What is Wrong With Broadcasting?

Some Original Views

A JOURNEY in a railway carriage, where the conversation is tuned in to the subject of "What is wrong with Broadcasting?" is usually productive of original views from all quarters. Travelling to the office the other morning, we discovered: (1) That the announcer's is an ideal life, because you don't have to work. (2) That grandmother would have had a fit if she had lived to hear all this broadcasting. (3) That a "radio fan" is an apparatus for keeping the studio cool these warm summer evenings. (4) That if you lose a dog, a parrot, or an umbrella, the R.B.C. will send out an SOS for you—and they don't charge you ANYTHING, my dear! (5) That I am the only man about the house that really understands our wireless set. (6) That if they'd only get a man like Sam Jones, of Woop Woop, to arrange the programmes, well, then we should hear something worth while. (7) That this jazz is teaching our young people to behave like primitive negroes. (8) That according to our kitchen clock, the time signal from 2YA was late last night. (9) That before the appearance of the Electric Section of the "Radio Record" I had at least one book I could call my own. Now it is the wife's cookery guide.

Origin of Static

Expert Committee's Researches

THAT bugbear of all wireless listeners, static, will be one of the problems to be considered by a committee of technical experts recently appointed to carry out wireless research work under the auspices of the Department of Scientific and Industrial Research.

The committee comprises Messrs. A. Gibbs (Chief Engineer of the Post and Telegraph Department), Professor Jack (Dunedin), Professor Burbidge (Auckland), Mr. J. M. Bingham (Chief Engineer, New Zealand Radio Broadcasting Company), and Dr. Barnett (Physicist of the Department of Scientific Research).

The members of the committee conferred in Wellington this week, when various lines of research were formulated, including one of direct interest to all radio listeners, that relating to static. It is intended to conduct experiments into the origin of static disturbances and their possible association with cyclonic disturbances in the Tasman Sea. Signal strength measurements from Australia are being conducted to ascertain the conditions causing absorption and whether meteorological factors enter into the matter.

The New Zealand committee will co-operate in a world-wide research into the properties of short waves by observing transmissions from Arlington, Schenectady, Eindhoven, and a Japanese station.

Mutual Help

A Listener's Thanks

FROM time to time we receive evidence that our efforts to aid listeners are of some definite value, and it has been indicated, too, that enthusiasts are only too willing to help one another. On a recent occasion a correspondent, "Grid Leak," wrote concerning his Hammerlund Roberts set, which he thought was not a good one. We disillusioned him on this point, and recommended him to communicate with the N.Z. manufacturers, Johns, Ltd. However, this step was unnecessary, for three other users of this circuit wrote in offering advice. Two of these we posted on, the third appears below:

I NOTE in your Questions and Answers that "Gridleak," Blenheim, is having trouble with his Hammarlund Roberts 4-valve kitset. He, it appears has not heard of any others of that make being in use. I have had one in constant use nearly three years, possibly he may be interested to know my results. I cannot tell about the American stations I get, because I have not knowingly logged one. I like good reproduction, and can get all we require from the New Zealand and Australian stations. The principal ones I often get using three valves only. All through the summer we have been able to pick up the Sydney concerts, commencing at 8 p.m., Sydney time, and the Sunday evening church services by using head phones, unless static interferes. Using four valves and head phones I often hear 2FC and 2BL during the daytime,

Australian Licences

AN INTERESTING compilation was recently made by the Australian Broadcasting Company ascertaining the ratio of licenses to dwellings in the capital cities and various States of the Commonwealth. The ratio of licenses to dwellings in the cities is as follows:—

Sydney, 1 to 5; Melbourne, 1 to 2; Adelaide, 1 to 5; Brisbane, 1 to 3; Perth, 1 to 22; Hobart, 1 to 10.

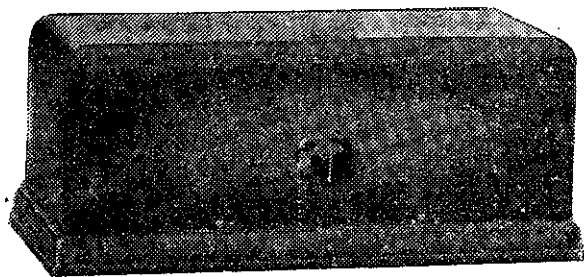
The ratio for the various States differs slightly from that of the cities, and is as follows:—

New South Wales, 1 to 6; Victoria, 1 to 3; South Australia, 1 to 8; Queensland, 1 to 6; West Australia, 1 to 23; Tasmania, 1 to 13.

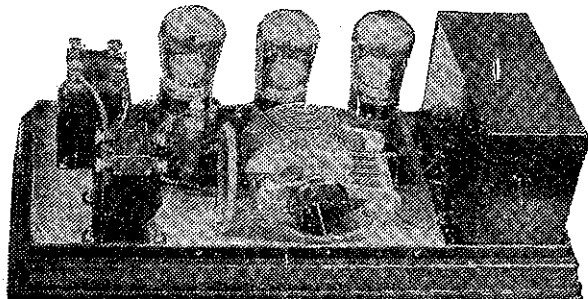
and have often heard Sydney clock at mid-day striking twelve. No doubt locality helps the radio set considerably. My aerial is just above high water mark of the Tasman Sea. I am sure that if "Gridleak" will persevere, he will find his set prove a good one. As you suggest to correspond with Johns, Ltd., this would be wise, for they are an excellent firm in many ways, and always make their explanations full.—George Nicholls (Collingwood).

"GRIDLEAK" writing to acknowledge the two letters, remarks: "One of the letters put me right; the set only needed a slight change in the valves. I can now receive all Australian and New Zealand stations on the loudspeaker, while to-night I heard a Yank at faint speaking strength. It was KMOX, Hollywood, Californian, I think."

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The "Courtenay" Receiver.



The Chassis Interior.

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Next Week's Features

1YA Notes

DIVINE service, will be relayed from St. Matthew's Church on Sunday evening, the preacher being Canon Grant Cowan. A studio concert will follow. The Studio Trio will give items and there will also be included in the programme some very fine recordings.

AT 7.40 on Tuesday evening Professor J. C. Sperrin Johnson, of the Zoological Society, will give a talk about "Zoos Abroad."

Another singer new to 1YA will be heard during the evening programme on Tuesday. Mr. Manly Drake is a brother of Mr. Ernest Drake, the well-known New Zealand singer, and he has included amongst his numbers the "Siciliana" (from "Cavalleria Rusticana"), "Ombra Mai Fu" (from "Xerxes"), and "E Lucevan Le Stelle" (from "Tosca"). Miss Lola Solomon, soprano, is the other vocalist. Of particular interest in this singer's selections is the solo "As When the Dove" (from "Acis and Galathea," by Handel). Mr. A. B. Chappell, M.A., is to give another topical talk, and the Orchestral Octet, under Mr. Eric Waters, will render instrumental selections from many operas. The programme will conclude with another of Mr. Karl Atkinson's very interesting gramophone lecture recitals, entitled "Bach, the Father of Fugue."

AT 7.40 p.m. on Wednesday Madame Mabel Milne will again speak on "Health and Diet," a very popular and interesting series of lectures. Towards the end of last year a very fine programme was given by Mr. Ed. Patterson, Director of the Cornet School. With an orchestra of thirty and the assistance of vocalists and humorists another entertainment has been arranged and will be given this evening. Madame D'Anthreau and Mr. W. Lucas will provide the humour and vocal solos will be rendered by Mrs. J. Frater, her items being "My Ain Folk" and "I Passed by Your Window." Among the orchestral items will be a descriptive piece, "Cathedral Chimes" and "Echoes from the Operas." In addition, Miss Edna Norton will play as a pianoforte solo, "Staccato Caprice."

MR. and Mrs. J. W. Bailey, two Wanganui entertainers now resident in Auckland, who have been heard from 2YA and 3YA, are making their first appearance at 1YA on Thursday evening in two comedy sketches. These two artists will be a very welcome addition to the roll of Auckland radio performers. Miss Hope Asher (mezzo-soprano) will sing several items, and the Bohemian Duo will again delight listeners with their songs to steel guitar accompaniment. The Orchestral Octet will render some delightful selections, including Chaminade's suite, "Callirhoe" and Morrissey's "Handel Wakes." A programme of dance music will be given until 11 p.m.

H. Mount will be at the organ. The Boys' Institute Military Band, assisted by Miss Nora Greene, Mr. William Renshaw, and Mr. Ernest Short, will give another of their bright and entertaining concerts at the conclusion of the church service.

THE latest "Books, Grave and Gay," will be discussed by Mr. H. C. South on Monday evening.

A musical programme will support the two one-act plays on Monday evening. The vocal artists will be Miss Anne Davies (soprano), Miss Hilda Chudley (contralto), and Mr. Stanley Clements (baritone). Mr. Clements will sing two Polish folk

the "Entry of the Boyards" by Halvorsen.

ON Thursday evening a concert will be given by members of the Australian Dairy Farmers' Delegation.

MR. R. Howard Taylor will give a talk on "Foot Health" on Friday evening at 7.40.

FRIDAY evening's programme will consist of vocal gems from opera and musical comedy by the Philharmonic Quartet and suitable numbers by the 2YA Orchestra under Signor A. P. Truda, whose items will be the overture "Tancredi" (by Rossini), the "Faust Suite" by Lizzari, a musical comedy selectoin, "The Beauty Prize," von Blon's "Sizilietta," Helmesberger's "Entr'acte Valse," and a Waldteufel waltz. Elocutionary numbers will be given by Miss Mary Hart, and a relay of items from talking picture features showing at the Majestic Theatre will also be carried out.

A BRIGHT vaudeville programme will be featured on Saturday evening, the vocalists being the Melodie Four and Mrs. R. S. Allwright. Novelty instrumental items will be given by Mrs. Mildred Kenny's steel guitar Trio, and the Salon Orchestra under Mr. Mat Dixon will present an entertaining programme.



One of the most popular and versatile combinations of Radio artists in New Zealand—the 2YA Melodie Four.

—S. P. Andrew, photo.

3YA Notes

A ST. DAVID'S DAY commemorative service, which is to be held in the Christchurch Anglican Cathedral on Sunday afternoon, March 2, will be broadcast by 3YA. The evening service in St. Mary's Church of England, Merivale, when the preacher will be the Ven. Archdeacon P. B. Haggitt, will be relayed. A studio concert will follow, contributed by Miss Merle Miller (mezzo-soprano), Mr. Harry Francis (tenor), Mr. Finlay Robb (baritone), Mrs. Margaret Williams (elocutionist), Mr. Harold Beck (cellist), and the Broadcasting Trio.

THERE will be an admixture of Scottish and Irish items in Monday evening's programme, and the entertainment will in general be a most enjoyable one, marked by interesting variety. Instrumental music will be provided by Derry's Military Band (under the conductorship of Mr. J. M. Scott), the Christchurch Broadcasting Trio, and 3YA vocal artists. Mrs. Maud Wood, a Scottish singer, will sing "Angus McDonald," "Comin' Thro' the Rye" and "Callin' On." Two of the songs to be sung by Mrs. A. E. G. Lyttle (soprano) will be the old favourites, "Rendezvous" (by Aletter) and "It was a Dream" (by Cowen). She will also sing, "You in a Gondola." Baritone solos by Mr. W. H. Inkster will be "Answer," "Friend o' Mine," and "Oh, Promise Me." Mr. Arthur T. Couch, the popular tenor, will sing "Ships of Arcady," "Waiauta Poi," and "The Trumpeter." The Band's programme will include "Tipperary" and "Reminiscences of Ire-

THE relays from the Lewis Eady Hall on Friday evenings in future will be devoted to the rendition of new vocal and instrumental music. The Auckland Comedy Players, under the direction of Mr. J. F. Montague, will perform "The Perfect Butler" and "The Fire Fighters." Miss Molly Atkinson has chosen some splendid solos by Chaminade, Mallinson, and Schumann, and these should suit her mezzo-soprano voice very well indeed. The Studio Trio will play items by Schumann, Schutt, and Wagner. Mr. Eric Waters will be heard in pianoforte solos.

THE Auckland Municipal Band will resume its regular concerts at the Town Hall on Saturday evening. The conductor, Mr. Christopher Smith, has just returned from Dunedin, where he adjudicated at the Band Contest. After the Band Concert there will be the usual dance programme until 11 p.m.

2YA Notes

THE evening service of St. Gerard's Redemptorist Church will be relayed on Sunday evening. The preacher on this occasion will be the Rev. Father J. P. Duggan, C.S.S.R. The choir will be under the conductorship of Mr. F. J. Oakes, and Mr.

songs in the native tongue, as well as "The Muleteer of Malaga" in English. Miss Chudley's items will be negro spirituals. Miss Gladys Morgan will play as a pianoforte solo Coleridge Taylor's "Forest Scenes." The 2YA Orchestra under Signor A. P. Truda will play the overture to "Oberon," a movement from the "Italian Symphony" by Mendelssohn, Glazounov's "Melodie Arabie," and Valverde's "Clavileto."

AT 7.25 on Tuesday evening, Mr. W. J. Fergie will give a talk on "Excursions by Rail," to be followed at 7.40 by the usual weekly talk to farmers by a representative of the Department of Agriculture.

Tuesday evening's programme will serve to introduce two Napier artists to listeners in the persons of Madame Aileen Johns and Mr. Dennis Johns. Madame Johns is well known in musical circles as a soprano soloist of outstanding ability, and is also the fortunate possessor of an excellent radio voice. Mr. Johns is also a well-known figure in Napier entertainment circles as an elocutionist. The other supporting artists will be Mr. W. E. Elliott, who will sing popular songs, and Mr. Cyril McCheyne, who will be heard in baritone solos. The Salon Orchestra, under Mr. Mat Dixon, will play "The May Day Overture." Barrett's "Coronach," Wolstenholme's "The Answer,"

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land." besides a number of items to be heard on the air for the first time. Among these will be the "Grand Processional March," "The King's Bodyguard." Cornet and trombone solos will be played by Bandsman W. C. Joughlin and Bandsman C. Barsby. Humorous recitations will be given by Mr. J. J. Flewellyn.

MISS ALETHIA DAVIES, a new arrival from England, will make her first radio appearance at 3YA on Wednesday evening. She is a brilliant pianist. She plays from memory and gives a masterly interpretation. Miss Davies was a teacher of the pianoforte in the West End of London, and she brings high testimonials as to the success of her method of teaching. One of her items for Wednesday evening will be "Finlandia" (by Sibelius).

There will be splendid variety in Wednesday evening's programme, which will include numerous operatic numbers. The vocalists will be Miss Sylvia Marshall, Mrs. D. W. Stallard, Mr. Harold Prescott, and Mr. Clive Hindle. "Out on the Rocks," a one-time very popular song, will be sung by Mrs. Stallard. It is a song that should suit well her rich contralto voice. Mr. Clive Hindle has chosen a wide range of songs from his extensive repertoire, as also has Mr. Prescott. Two recitations of a humorous nature are to be given by Miss Mavis Ritchie. The programme to be given by the Studio Octet under Mr. Harold Beck will be of a very interesting nature, including as it will a wide variety of items. Special reference may be directed to a "cello solo to be played by Mr. Beck with harp accompaniment by Mr. Glayshier. The item will be "Hamidil," a Hebrew melody.

A TALK on "Roses" will be given on Thursday evening at 7.30 by Mr. John Poulison, of the Christchurch Horticultural Society.

On Thursday evening there will be a classical programme which will be of a popular nature. Two soprano solos by Miss Frances Hamerton, "Lo, Here the Gentle Lark," and "Echo Song," will have flute obligato to each, played by Mr. W. Hay. Miss Belle Renault will sing "Spanish Love Song," "Laburnum," and "A Banjo Song." In "Agnus Dei" she will be heard to an accompaniment played by the Studio Octet. Mr. Russell Sumner's items will include "Glorious Devon" and Coleridge Taylor's "Canoe Song." One of Mr. J. Graham Young's numbers will be Damrosch's setting of Kipling's poem concerning the errant "Daggy Deever." Duets and quartets will also be sung, one of the latter being "Softly Fall the Shades of Evening." The Studio Octet under Mr. Harold Beck will again present an excellent programme. The items will include a "Song Without Words" (Mendelssohn), Moszkowski's "Caprice," three compositions by Cadman, and four dances by Dolmetsch as well as several other bright numbers.

THE vocalists for Friday evening's concert, which will be augmented by a dance session, will be three popular artists, Miss Lottie Colville, Mr. L. C. Quane, and Mr. J. Francis Jones. Mr. Noel Newson, a clever young entertainer, will give humorous recitations at the piano. Mr. Jock Lockhart will broadcast Scottish humour. The dance music will be supplied by the Bailey-Marston Dance Orchestra.

SOMETHING extra special may be expected on Saturday evening in the form of a radio vaudeville. The programme will be given by "The Vagabonds," headed by Mr. Charles Lawrence, the well-known entertainer. The programme will include old-time popular choruses, pre-war choruses, and various choruses. There will be solos, such as "Hail, Caledonia," "Prince Ivan's Song," and "Neapolitan Nights." There will be popular airs and jazz songs, duets, sketches, humorous numbers, and novelty items.

4YA Notes

THE service in Knox Church will be relayed on Sunday evening, to be followed by the broadcast of a concert relayed from 3YA.

THAT very popular musical play, "The Geisha," will be the next operatic presentation by the 4YA Harmonists, occupying the greater portion of the first half of the programme on Monday evening. In the second half the same vocalists—Miss Mea Matheson, Miss M. S. Green, Mr. H. A. Johnston, and Mr. F. M. Tuohy—will sing solos: "Vessi d' Arti," "The Arrow and the Song," "Crown of the Year" and "My Yorkshire Lassie" from "Our Miss Gibbs" respectively. Selections will be played by the 4YA Broadcasting Trio, while Mr. and Mrs. C. Roy Spackman will play pianoforte duets.

THE Kaikorai Band, under Mr. T. J. Kirk-Burnham, will provide a programme on Tuesday evening, including new works by Pridham, Klein and Hume. Assisting vocalists will be Mrs. D. Carty, Miss Netta H. Wilkie, and Mr. B. C. Bellhouse, while elocutionary items will be given by Mr. Lester F. Moiler.

ON Wednesday afternoon at 3.15 there will be a talk to ladies by a representative of the Home Science Extension Department of the Otago University. In the evening at 7.15 Mr. L. W. McCaskill will review, for the benefit of farmers, the principal articles in the February issue of the Journal of Agriculture. Both talks are under the auspices of the 4YA Primary Productions Committee.

Very diversified will be Wednesday evening's programme. Featured on it will be the Novelty Trio, a very popular instrumental combination, presenting the latest foxtrots and waltz songs. The singers will be: Miss Helen Roy (mezzo-soprano), Mrs. A. H. Ritchie (contralto), Mr. Noel H. North (baritone, and brother of the Rev. L. North, also a very popular singer), and Mr. Buster Brown (singing Lauder songs). Elocutionary items will be given by Miss I. M. McGregor.

THERE will be a classical type of programme on Friday evening. The instrumental items will be supplied by a trio consisting of Misses Wallace, Baker, F.T.C.L., and Smith, who will play trios as well as solo items. The vocalists will be Miss Molly Vlckers, Miss S. McCreedy and Mr. L. H. Stubbs. The baritone items will comprise four songs from "Malvern Hills" (by Coningsby-Clark). Mr. D. E. Dall, elocutionist, will present "The Hellgate of Soissons" (a story of the Great War), "Cure's Progress"

Auckland Notes

(By "Call Up.")

MISS DOROTHY YOUDE, a popular IYA artist, will sing from that station for the last time on Tuesday, February 25, as she is being married on March 4. Her fiancé is Mr. D. H. Wrathall, of 4YA, and formerly programme organiser at IYA.

Another IYA artist who is to marry shortly is Miss Ivy Phillips, of the IYA Choir. After the choir rehearsal last Monday evening (February 17) she was presented with a coffee set by Mr. Len Barnes, on behalf of her fellow choir members and the station staff. Miss Phillips intends to continue singing in the choir, which is now rehearsing "The Rebel Maid," by Montagu Phillips.

A NUMBER of listeners who complain that the same old songs are put over by IYA artists with monotonous regularity will be pleased to learn that the IYA Musical and Dramatic Committee and the station staff are doing their utmost to encourage artists to render new songs and numbers. In fact, the programme organiser has been instructed to engage only those artists who will learn new numbers.

WITHOUT a doubt the outstanding artists in last week's programmes were Elton Black and Alice Bennetto, whose half-dozen items on Thursday night were particularly fine to listen to. With all due respect to our gifted amateurs there is no denying that there is something in the touch of the professional which makes a special appeal. The professional knows all "the tricks of the trade." Another professional artist who is to be featured on IYA programmes is Mr. Lew James, a member of the original touring caste of "Potash and Perlmutter." Mr. James, who has broadcast most successfully in Sydney, has his own company of artists and is to present the farce "Give and Take" to listeners on April 9, while on April 12 the com-

and a French sketch, "Alphonse Confides."

SATURDAY evenings' programme will be relayed from 3YA.

pany will give a full vaudeville programme.

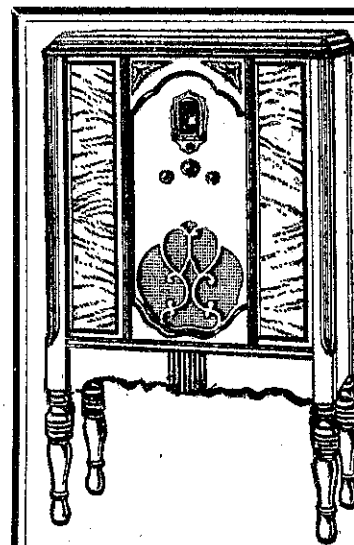
THE radio presentation of Sutton Vane's "Outward Bound" was such a success last year that the Auckland Little Theatre Society, under the direction of Mr. Kenneth Brampton, are to produce the play for listeners again on March 25. This play has proved particularly suitable for broadcasting and 2FO, Sydney, are giving it this month.

TALKS in series are in favour with IYA. A series under the auspices of the League of Nations Union is now nearing its close; a series by members of the Auckland Zoological Society begins on February 25, and a series on art, arranged by Dr. E. B. Gunson, president of the Auckland Society of Arts, is to follow. Three talks relative to the cancer campaign are also to be given shortly.

THE suggestion that the heavy mineral deposits in the Coromandel Range interferes with reception of IYA in the south-eastern part of the Auckland province is discredited by a listener at Patetonga. He lives within three miles of the Range, and has operated a commercial battery set for some time and also an electrically-equipped Superheterodyne of the same make for the past two months, and on both sets has had splendid reception of all New Zealand stations, especially of IYA. The case which I quoted recently of a tested eight-valve set which failed to get IYA satisfactorily in Morrinsville (further from the mineral deposits than Mr. Newdick's sets) was very likely due to some interference in the immediate locality, although it is strange that other New Zealand stations should have come in so well. Can any other Morrinsville reader make a suggestion as to the course of the interference?

"SWITCH" learns from an overseas radio publication that the Chinese language cannot be transmitted by Morse, owing to the fact that the language contains thousands of picture characters which cannot be expressed by dots and dashes. The Japanese, however, apparently have no difficulty in Morsing their language.

Can you solve a difficult problem?
"TRIALS IN TACT"
(on page 33 of this issue.)



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Full Programmes for Next

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Sunday, March 2

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MARCH 2.

- 3.0 : Afternoon session—Selected studio items and literary selection by the Announcer.
 4.30 : Close down.
 6.0 : Children's Song Service conducted by "Uncle Leo."
 6.55 : Relay of Divine Service from St. Matthew's Church (Preacher, Canon Grant Cowan; Organist, Mr. J. H. Philpott).
 8.30 (approx.) : Studio concert.
 March—Budapest Philharmonic Orchestra, "Rakoczy March" (Berlioz).
 Male choir—Don Cossacks, "Tri Piesni" (Tradl) (Columbia 02712).
 Instrumental trio—Studio Trio, (a) "Serenade" (Haydn), (b) "Cradle Song" (Schubert).
 Baritone—Roy Henderson, "The Signpost" (Schubert) (Col. 02711).
 Violin—Miss Ina Bosworth, "Chanson Meditation" (Cottenet).
 Contralto—Sophie Braslan, "Carry Me Back to Old Virginny" (Bland).
 Instrumental trio—Studio Trio, "Extase d'Amour" (Roze).
 Male choir—Don Cossacks, "How Greatly Our Lord is Magnified" (Bortnjansky) (Columbia 02712).
 Violin—Miss Ina Bosworth, "Spanish Dance" (Sarasate).
 Chorus—La Scala Chorus, "La Tempesta," from "Otello" (Verdi).
 Instrumental trio—Studio Trio, Excerpts from the "Beggars' Opera" (Gay-Austin).
 9.30 (approx.) : God Save the King.

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

- 3.0 to 4.30 : Afternoon session.
 Evening Session.
 7.0 : Relay of evening service of St. Gerard's Redemptorist Church, Hawker Street, Wellington. Organ: "There is a Green Hill" (Gounod); Rosary with Choral Responses; Antiphon: "Ave Regina" (Witzska); Sermon: Rev. Father J. P. Duggan, C.S.S.R.; Hymn: "Cast Thy Burden" (Mendelssohn); Motets: "Jesu Andri Nos" (Winter); "O Salutaris" (Waters); "Tantum Ergo" (Oakes); Recital of Divine Praises; Motet: "Adoremus in Aeternum" (Gladstone); Organ: "Finale in C Minor" (Battiste).
 8.15 : Approx. Studio concert by Wellington Boys' Institute Military Band (Conductor Mr. A. Iremonger), assisted by 2YA artists.
 Hymn—Boys' Institute Military Band, "Abide With Me" (trdcl.).
 Overture—"The Golden Star" (Greenwood).
 Contralto—Miss Nora Greene, "Love Not the World" from "The Prodigal Son" (Sullivan).
 Tenor—Mr. William Renshaw, (a) "Like Stars Above" (Clarke); (b) "Red Devon by the Sea" (Squire).
 Intermezzo—Boys' Institute Military Band, "In a Monastery Garden" (Ketelbey).
 Baritone—Mr. Ernest Short, "How's My Boy" (Homer).
 Instrumental—J. H. Squire Celeste Octet, "Polonaise-Mignon" (Thomas, arrgd. Robertson) (Columbia 02749).
 March—Boys' Institute Military Band, "Under the Eagle's Wings" (Brown).
 Weather report and announcements.
 Contralto—Miss Nora Greene, (a) "Evening Boat Song" (Schubert); (b) "O Flower Divine" (Haydn Wood).
 Instrumental—J. H. Squire Celeste Octet, "Introduction and Romance Mignon" (Thomas, arrgd. Robertson), (Columbia 02749).
 Tenor—Mr. William Renshaw, "An Evening Song" (Blumenthal).
 Fantasia—Boys' Institute Military Band, "Favourite Melodies" (Raymond).
 Baritone—Mr. Ernest Short, (a) "Friends Again" (Phillips); (b) "Three" (Weatherley).
 Soprano—Dora Labbette, "Rose Softly Blooming" (Spohr).
 Waltz—Boys' Institute Military Band, "Erin's Isle" (Round).
 Choral—Don Cossacks' Choir, "Monotonously Rings the Little Bell" (Folk song arrg. Jaroff) (Columbia 9085).
 March—Boys' Institute Military Band, "The Harvester" (Evans).
 God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MARCH 2.

- 3.0 : Relay of Welsh Service in commemoration of St. David's Day from the Christchurch Anglican Cathedral: Preacher (Pregethwr), Rev. (Parch) A. Tobin; Organist (Organydd), A. M. Owen; Harpist (Telynor), H. Glaysher; solo (Anawd), Madame Gower Burns; Conductor (Arweinyd), James G. Parry.
 Followed by a short gramophone recital until 4.30 p.m.
 5.30 : Children's Song Service by children of Church of England Sunday Schools, conducted by Miss H. Park, assisted by the children from the Anglican Sunday School.

- 6.15 : Chimes from studio.
 6.30 : Gramophone recital.
 7.0 : Relay of Evening Service from St. Mary's Church of England, Merivale: Preacher, Ven. Archdeacon P. B. Haggitt; Organist and Musical Director, Mr. Alfred Worsley.
 8.15 (approx.) : Tone poem—New Queen's Hall Orchestra, "Finlandia" (Sibelius) (Columbia 02889).
 8.23 : Baritone—Mr. Finlay Robb, "Bois Epais" (Sombre Woods) (Lully).
 8.26 : Cello—Mr. Harold Beck, "Adagio Pastoral" (Handel).
 8.30 : Mezzo-soprano—Miss Merle Miller "Nay! Though My Heart Should Break" (Tschalkowsky).
 8.33 : Instrumental—Christchurch Broadcasting Trio, "Rondo from Trio in B Flat" (Schubert).
 8.43 : Recitation—Mrs. Margaret Williams, "The Pipes of Lucknow" (Noyes).
 8.49 : Tenor—Mr. Harry Francis, "Beloved, it is Morn" (Aylward).
 8.52 : Orchestral—Madrid Symphony Orchestra, "Noche de Arabra" (Arbos).
 9.0 : Mezzo-soprano—Miss Merle Miller, (a) "Ah! Thank Me Not" (Mallinson), (b) "To Music" (Schubert).
 9.4 : Cello—Mr. Harold Beck, "Minuet" (Mozart).
 9.8 : Baritone—Mr. Finlay Robb, (a) "An Eriskay Love Lilt" (Kennedy Fraser), (b) "The Bitterness of Love" (Dunn).
 9.13 : Instrumental trio—Christchurch Broadcasting Trio, (a) "Barcarolle" (Tschalkowsky), (b) "Abenlied" (Schumann), (c) "Autumn and Winter" (Glazounov).
 9.21 : Recitation—Mrs. Margaret Williams, "A Ballad of Splendid Silence" (Nesbit).
 9.24 : Tenor—Mr. Harry Francis, (a) "Sacrament" (Macdermid), (b) "A Spirit Flower" (Tipton).
 9.29 : Orchestral—Mengelberg's Concertgebouw Orchestra, "Valse Serenade for String Orchestra" (Tschalkowsky) (Columbia 04234).
 9.34 : God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MARCH 2.

- 3.0 : Chimes. Selected gramophone items.
 4.30 : Close down.
 5.30 : Children's Song Service, conducted by Big Brother Bill.
 6.15 : Close down.
 6.30 : Evening Service relayed from Knox Church.
 7.45 : Berlin State Opera Orchestra, "Prelude to Act 3, Parsifal" (Wagner).
 Soprano and chorus—Florence Austral, Santa's Ballad Spinning Song from "The Flying Dutchman" (Wagner) (H.M.V. D1517).
 San Francisco Symphony Orchestra, "A Midsummer Night's Dream," Op. 21 (Overture and Scherzo) (Mendelssohn) (H.M.V. D1626-7).
 8.15 : Relay of studio programme from 3YA, Christchurch.
 9.30 : God Save the King.

Monday, March 3

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, MARCH 3.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, MARCH 3.

- 3.0 : Chimes. Selected studio items.
 3.30 and 4.30 : Sports results.
 4.55 : Close down.
 5.0 : Children's session.
 6.0 : Dinner session—"Columbia" Hour:
 Selection—B.B.C. Wireless Symphony Orchestra, "La Boutique Fantasque" (Respighi, arr. Carr) (Regal G30018).
 Cello—W. H. Squire, "Humoresque" (Dunkler-Squire) (04192).
 6.12 : Tacet.
 6.15 : J. H. Squire's Celeste Octet, "Chant Sans Paroles" (Tschalkowsky).
 Suite—Plaza Theatre Orchestra, "Gipsy Suite": (1) Valse, Lonely Life; (2) Allegro, The Dance (German) (02537).
 6.27 : Tacet.
 6.30 : Suite—Plaza Theatre Orchestra, "Gipsy Suite": (1) Menuetto, Love Duet; (2) Tarantella—The Revel (German) (02538).
 Madrid Symphony Orchestra, "Dance of the Neighbours" (De Falla).
 6.42 : Tacet.
 6.45 : Venetian Players String Quintet, (a) "Romanza" (Mozart), (b) "Allegro" (Mozart) (Regal G20467).
 Pianoforte—Ignaz Friedman, "Romance in E Flat" (Rubinstein).
 Basle Symphony Orchestra, "Rosamunde Entr'acte No. 2" (Schubert).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. W. K. F. MacMillan, "The Care of Your Car."
 8.0 : Chimes.

Week-all Stations-to Mar. 9

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- Overture—2YA Orchestrina (Conductor, Signor A. P. Truda), "Bohemian Girl" (Balfe).
 8.9 : Soprano—Miss Anne Davies, "Were My Songs with Wings Provided" (Hahn).
 8.13 : Pianoforte—Miss Gladys Morgan, "Forest Scenes" (Coleridge Taylor).
 8.20 : Baritone—Mr. Stanley Clements, "Two Romances" (Vertinsky).
 8.26 : Contralto—Miss Hilda Chudley, "Were You There?" (Negro Spiritual, arr. Burleigh).
 8.30 : Orchestral—2YA Orchestrina, "Widmung" (Schumann).
 8.35 : Play—Special Radio presentation of the one-act play "Lonesome-like" (by Harold Brighouse), a definite Lancashire comedy.

Cast:

- Sarah Ormerod, old woman Elsie Lloyd
 Emma Brierley, a young woman Florence Render
 The Rev. Frank Alleyne, a curate H. A. Painter
 Sam Horrocks, a young man Victor S. Lloyd
 The scene is the interior of a cottage in a Lancashire village.
- 9.5 : Weather report and announcements.
 9.7 : Instrumental—2YA Orchestrina, "Italian Symphony" (Mendelssohn).
 9.17 : Soprano—Miss Anne Davies, (a) "Snowflakes" (Mallinson), (b) "A Birthday" (Cowan).
 9.23 : Contralto—Miss Hilda Chudley, a bracket of two Negro Spirituals, (a) "Nobody Knows de Trouble I've Seen," (b) "I Stood on the River of Jordan" (arr. Burleigh).
 9.29 : Orchestral—2YA Orchestrina, "Ich Grolle Nicht" (Schumann).
 9.34 : Baritone—Mr. Stanley Clements, "Muleteer of Malagar" (Trotiere).
 9.38 : Play—Special Studio presentation of a grotesque in one act by Harold Brighouse, entitled "The Happy Hangman."

Cast:

- Beppo Victor S. Lloyd
 Pietro H. A. Painter
 Calandro E. R. Render
 Nita Elsie Lloyd
 Scene: The upper room in a poor quarter of Bari, near Naples, in the year 1825.
- 10.8 : Instrumental—2YA Orchestrina, (a) "Melodie Arabe" (Glazounow), (b) "Clavileto" (Valverde).
 10.16 : God Save the King.

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

- 3.0 : Afternoon session, gramophone recital.
 4.25 : Sports results.
 4.30 : Close down.
 5.0 : Children's Hour, "Scatterjoy."
 6.0 : Dinner Session, "Columbia" Hour:
 Band—Royal Italian Band, "Marcia Reale" (Gabetti) (Col. 01182).
 Instrumental—Court Symphony Orchestra, "In Venice" (Sellars).
 Cinema organ—Stanley MacDonald, "Was it a Dream?" (Coslow).
 Band—Royal Italian Band, "Garibaldi's Hymn" (Olivieri) (01182).
 6.12 : Tacet.
 6.15 : Instrumental—Ketelbey's Concert Orchestra, "Sanctuary of the Heart" (Ketelbey) (Col. 02690).
 'Cello—W. H. Squire, "Melody in F" (Popper) (Col. 04178).
 6.26 : Tacet.
 6.30 : Instrumental—W. H. Squire's Celeste Octet, "Mignon." 1—Introduction and Romance; 2 Polonaise (Thomas) (Col. 02749).
 'Cello—W. H. Squire, "Silver Threads Among the Gold" (Danks, arrgd. Squire) (01478).
 6.42 : Tacet.
 6.45 : Band—H.M. Grenadier Guards, "Turkish Patrol" (Michaelis).
 Cinema organ—Stanley MacDonald, "Nicolette" (Batten).
 Waltz—Jacque Jacobs Ensemble, "Vienna Life" (Strauss) (02556).
 Idyll—H.M. Grenadier Guards Band, "Smithy in the Woods" (Michaelis) (Col. 4111).
 6.58 : Tacet.
 7.0 : News session.
 8.0 : Chimes.
 Band programme featuring Derry's Military Band (Conductor, J. M. Scott) and assisted by 3YA Artists.
 8.1 : March—Band, "Tipperary" (Fulton).
 Cornet—Soloist, Bandsman W. C. Joughin and Band, "I Heard You Go By" (Wood).
 8.11 : Scottish song—Mrs. Maud Wood, "Angus McDonald" (Roeckel).
 8.15 : Instrumental—Christchurch Broadcasting Trio, "Rondo" (Reissiger).
 8.25 : Baritone—Mr. W. H. Inkster, (a) "Answer" (Robyn); (b) "Friend of Mine" (Sanderson).

- 8.31 : Valse—Band, "Appassionata" (Ketelbey).
 8.37 : Soprano—Mrs. A. E. G. Lyttle, "Rendezvous" (Aletter).
 8.41 : Recitation—Mr. J. J. Flewellyn, "The Liverwing Testimonial" (Melb. B. Spurr).
 8.46 : Vibraphone—Rudy Star Three, "Diane" (Pollock) (Parlo. A2548).
 8.50 : Tenor—Mr. Arthur T. Couch, (a) "Ships of Arcady" (Head); (b) "Waiata Poi" (Alfred Hill).
 8.56 : Grand Processional March—Band, "The King's Bodyguard" (Raymond).
 9.2 : Weather report and announcements.
 9.4 : Organ—Leslie Harvey, (a) "Sonny Boy" (Jolson); (Parlo. A2696); (b) "There's a Rainbow Round my Shoulder" (Jolson).
 9.8 : Scottish songs—Mrs. Maud Wood, (a) "Comin' Thro' the Rye" (Scottish); (b) "Caller Ou" (Gray).
 9.14 : Trombone—Soloist, Bandsman C. Barsby and Band, "Lend Me Your Aid" (Gounod).
 9.20 : Baritone—Mr. W. H. Inkster, "Oh, Promise Me" (De Koven).
 9.23 : Instrumental—Christchurch Broadcasting Trio, (a) "Song of the Mountains" (Grieg); (b) "Andante Melodique" (Dancila); (c) "Serenade" (Herbert).
 9.32 : Soprano—Mrs. A. E. G. Lyttle, (a) "You in a Gondola" (Clarke); (b) "It Was a Dream" (Cowen).
 9.38 : Selection—Band, "Reminiscences of Ireland" (Godfrey).
 9.48 : Recitations—Mr. J. J. Flewellyn, "The Merchant and the Book Agent" (Anonymous).
 9.53 : Xylophone—Rudy Star Three, "Polly" (Zamecnik) (Parlo. A2548).
 9.56 : Tenor—Mr. Arthur T. Couch, "The Trumpeter" (Dix).
 9.59 : March—Band, "The Last Stand" (Myddelton).
 10.2 : God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, MARCH 3.

- 3.0 : Town Hall Chimes. Selected Gramophone Items.
 4.25 : Sporting results.
 4.30 : Close down.
 5.0 : Children's Hour, conducted by Uncle Allan.
 6.0 : Dinner Music Session, "H.M.V." Hour.
 Orchestral—New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai) (C1260).
 Waltz—Marek Webers Orchestra, "Moonlight on the Alster" (Fetras).
 6.12 : Tacet.
 6.15 : Intermezzo—New Light Symphony Orchestra, "Hearts and Flowers" (Tobani) (Zonophone EF20).
 Waltz—Marek Weber's Orchestra, "Wine, Women and Song" (Weber).
 Wurlitzer Organ—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey) (C1459).
 6.26 : Tacet.
 6.30 : Orchestral—New Light Symphony Orchestra, "The Glow Worm Idyll" (Lincke) (Zonophone EF20).
 Orchestral—Victor Salon Orchestra, "Indian Love Call" (Rose Marie) (Friml) (EA186).
 Orchestral—Victor Salon Orchestra, "The World is Waiting for the Sunrise" (Lockhart) (EA186).
 Orchestral—De Groot and His Orchestra, "When Summer is Gone" (Harrison-Willhite) (B3035).
 6.43 : Tacet.
 6.45 : Orchestral—De Groot's Orchestra, "The Merry Widow" (Lehar).
 Wurlitzer organ—Reginald Foort, (a) "Leave Me Alone"; (b) "Songs My Mother Taught Me" (Dvorak) (C1459).
 6.57 : Tacet.
 7.0 : News session.
 8.0 : Town Hall Chimes.
 Selection—Band of H.M. Coldstream Guards, "The Geisha" (Jones).
 8.9 : Presentation of "The Geisha" by 4YA Harmonists Quartet: Soprano, Miss Mae Matheson. Contralto, Miss M. S. Green. Tenor, Mr. H. A. Johnston. Bass-baritone, Mr. F. M. Tuohy.
 8.35 : Instrumental—4YA Broadcasting Trio, "Waltzes Numbers 1 and 20" (Brahms).
 8.41 : Continuation of Opera, presentation by 4YA Harmonists Quartet.
 9.2 : Weather report.
 9.4 : Dances—New Symphony Orchestra, Henry VIII Dances: 1. Morris Dance; 2. Torch Dance; 3. Shepherd's Dance (German).
 9.12 : Baritone—Mr. F. M. Tuohy, "My Yorkshire Lassie" from "Our Miss Gibbs" (Monckton).
 9.16 : Piano-duets—Mr. and Mrs. C. Roy Spackman, (a) "Le Cortete" (Moscowski); (b) "Valse Caprice" (Nevin).
 9.26 : Soprano—Miss Mae Matheson, "Vissi D'Arti" (Puccini).
 9.30 : Selection—4YA Broadcasting Trio, overture to "The Bohemian Girl" (Balfe).
 9.38 : Tenor—Mr. H. A. Johnston, "Crown of the Year" (Easthope-Martin).
 9.42 : Instrumental—4YA Broadcasting Trio, "Indian Chant" from "Sadko" (Rimsky-Korsakov).

- 9.48: Contralto—Miss M. S. Green, "The Arrow and the Song" (Balfe).
 9.52: Orchestral—Kauffman's Orchestra, "The Gypsy Baron" (Strauss).
 10.0: God Save the King.

Tuesday, March 4

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, MARCH 4.

- 3.0: Afternoon Session—Selected Studio Items, and Literary Selection by the Announcer.
 4.30: Close down.
 5.0: Children's session.
 6.0: Dinner Session, "Parlophone" Hour.
 Selection—Edith Lorand Orchestra, "La Boheme" (Puccini).
 Waltz—Edith Lorand Orchestra, "La Serenade" (Metra) (E10522).
 Violin—Tosy Spiwakowsky, "Turkish March" (Beethoven) (A2561).
 6.12: Tacet.
 6.15: Waltz—Edith Lorand Orchestra, "Venetian Barcarolle" (Leoncavallo) (E10522).
 Trio—Dajos Bela Trio, (a) "Traumerei" (Schumann); (b) "Chant D'Automne" (Tchaikowsky) (E10573).
 Cello—Gregor Platigorsky, "The Swan" (Saint-Saens) (A2628).
 6.28: Tacet.
 6.30: Fantasia—Dajos Bela Orchestra, "La Traviata" (Verdi) (A4027).
 Waltzes—Royal Music Makers, (a) "Kiss Me Again" (Herbert); (b) "Ah, Sweet Mystery of Life" (Herbert) (A2722).
 6.44: Tacet.
 6.45: Suite—Paris Opera Comique Orchestra, "Ballet Egyptien" (Luigini).
 6.57: Tacet.
 7.0: (Close down). News and Market Reports.
 7.15: Talk—George Campbell, Motoring.
 7.40: Talk—Professor J. C. Sperrin Johnson, "Zoos Abroad."
 8.0: Chimes.
 Orchestral—1YA Orchestral Octet, conducted by Eric Waters, "Rosamunde Overture" (Schubert).
 8.10: Tenor—Mr. Manly Drake, (a) "Siciliana" (Cavalleria Rusticana) (Mascagni); (b) "Ombra Mai Fu" (Xerxes) (Handel).
 8.17: Piano—Cyril Towsey, "Impromptu in B Flat" (Schubert).
 8.29: Soprano—Miss Lola Solomon, (a) "As When the Dove" (Acis and Galathea) (Handel); (b) "Cloths of Heaven" (Dunhill).
 8.36: Orchestral—1YA Orchestral Octet, Selection from Mus. Com. "My Nieces" (Talbot).
 8.45: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."
 9.0: Evening Weather Forecast and Announcements.
 9.2: Orchestral—1YA Orchestral Octet, Selection from "La Gioconda" (Ponchielli).
 9.10: Tenor—Mr. Manly Drake, "E Lucevan Le Stelle" (La Tosca) (Puccini).
 9.14: Orchestral—1YA Orchestral Octet, "Dances from Decameron Nights" (Finck).
 9.23: Soprano—Miss Lola Solomon, "Tacea La Notte Placida" (Il Trovatore) (Verdi).
 9.27: Orchestral—1YA Orchestral Octet, Two Rhythmic Opera Transcriptions:—"Maritana" (Wallace-Briegel); (b) "Martha" (Flotow-Briegel).
 9.35: Lecture-Recital—Mr. Karl Atkinson, Gramophone Lecture-Recital, (Bach) "Father or Fugue."
 10.5: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, MARCH 4.

- 3.0: Chimes. Selected studio items.
 3.30 and 4.30: Sports results.
 4.55: Close down.
 5.0: Children's session.
 6.0: Dinner music session—"H.M.V." Hour.
 Instrumental—Royal Opera Orchestra, "Preludium" (Jarnefeldt).
 Cello—Pablo Casals, "Melody in F" (Rubinstein) (DA833).
 Waltz—Royal Opera Orchestra, "Eugin Onegin" (Tchaikowsky).
 Balalaika Orchestra, "Shining Moon" (Russian folk-song) (EA48).
 6.12: Tacet.
 6.15: Suite—Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert):
 (1) Spanish, (2) Chinese, (3) Cuban, (4) Oriental (EB26).
 Waltz—Philadelphia Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (ED2).
 6.27: Tacet.
 6.30: Instrumental—Royal Opera Orchestra, "Berceuse" (Jarnefeldt).
 Cello—Pablo Casals, "Traumerei" (Schumann) (DA833).
 Male Quartet—The Rounders, "Chlo-E" (Kahn) (EA402).
 Instrumental—San Francisco Symphony Orchestra, (a) "Serenade" (Volkman), (b) "Flight of the Bumble Bee" (Rimsky-Korsakov).
 6.42: Tacet.
 6.45: Instrumental—Chicago Symphony Orchestra, (a) "Valse Triste" (Sibelius) (ED5), (b) "Funeral March of a Marionette" (Gounod).
 March—San Francisco Symphony Orchestra, "March Militaire" (Schubert) (ED9).
 6.57: Tacet.
 7.0: News session—Market reports and sports results.
 7.25: Lecturette—Mr. J. W. Fergie, Head Office, New Zealand Railways, "Excursions by Rail."

- 7.40: Lecturette—Representative, Agricultural Department, "For the Man on the Land."
 8.0: Chimes. Overture—2YA Salon Orchestra (Conductor, Mr. Mat Dixon), "Hungarian Lustspiel" (Kela-Bela).
 8.9: Soprano—Madame Aileen Johns, of Napier, (a) "I Hid My Love" (D'Hardelot), (b) "Hine e Hine" (Te Rangī Pā).
 8.15: Baritone—Mr. Cyril McCheyne, (a) "Roumanian Mountains" (Lohr), (b) "Flower of All the World" (Woodforde-Finden).
 8.22: Instrumental—2YA Salon Orchestra, (a) "Coronach" (Barratt), (b) "The Answer" (Wolstenholme).
 8.23: Elocution—Mr. Dennis Johns, of Napier, "My Friends" (Service).
 8.40: Popular songs—Mr. W. E. Elliott, (a) "Where the Bab-bab-babbling Brook" (Nelson), (b) "Sleepy Valley" (Dowling and Hanley).
 8.47: Mezzo-soprano—Madame Aileen Johns, of Napier, "Angus Macdonald" (Roeckel).
 8.51: Instrumental—2YA Salon Orchestra, request item.
 8.59: Weather report and announcements.
 9.1: Baritone—Mr. Cyril McCheyne, "A Memory" (Park).
 9.5: Instrumental—2YA Salon Orchestra, "A Lover in Damascus" (Woodforde-Finden).
 9.13: Humour—Mr. Dennis Johns, of Napier, "The Ice Cart" (Gibson).
 9.19: Popular song—Mr. W. E. Elliott, "Weary River" (Silvers).
 9.23: Instrumental—2YA Salon Orchestra, "Entry of the Boyards" (Hänsel-vorsen).
 9.31: Dance programme—"Brunswick":
 Foxtrot with vocal chorus—Hal Kemp's Orchestra, "You Wouldn't Fool Me, Would You?" (De Sylva) (Brunswick 4212).
 Foxtrot—Harold Stern's Orchestra, "From Sunrise to Sunset" (Miller) (Brunswick 4251).
 Foxtrot—Hal Kemp's Orchestra, "My Lucky Star" (De Sylva) (4212).
 Foxtrot—Arnold Johnson's Orchestra, "Tear Drops" (Davis) (4251).
 9.42: Comedienne with orchestra—Zelma O'Neal, "Button Up Your Overcoat" (De Sylva) (4208).
 Foxtrot—Eight Radio Stars, "My Annapolis" (Weinberg) (4272).
 Foxtrot—Colonial Club Orchestra, "Hittin' the Ceiling" (Gottler).
 Waltz—Eight Radio Stars, "I Found Happiness" (Rapee) (4272).
 Waltz—Ray Miller's Orchestra, "My Angeline" (Wayne) (4233).
 9.57: Old-time orchestra—Al Hopkin's Buckle-Busters, "Polka Medley" (Lind).
 Foxtrot—Red Nicholls and his Five Pennies, "On the Alamo" (Kahn).
 Foxtrot—Ray Miller's Orchestra, "Cradle of Love" (Wayne) (4233).
 Foxtrot—Hotel Ten Eyck Whispering Orchestra, "Then We Canoe-dle-o-dle" (Woods) (4372).
 Foxtrot—Al Goodman's Orchestra, "I'm Still Caring" (Vallee). (4362)
 10.12: Vocal solo with novelty accompaniment—Frank Luther, "Peg-leg Jack" (Robison) (4371).
 Foxtrot—Hotel Ten Eyck Whispering Orchestra, "Jericho" (Robin).
 Foxtrot—Al Goodman's Orchestra, "I'm Just a Vagabond Lover" (Vallee) (4362).
 Waltz—Regent Club Orchestra, "Sleepy Valley" (Sterling) (4370).
 10.24: Old-time orchestra—Al Hopkin's Buckle-Busters, "Marsovia Waltz" (Belcher) (321).
 Organ solo with vibraphone—Lew White, "Mean to Me" (Turk) (4361).
 Foxtrot—Colonial Club Orchestra, "Sing a Little Love Song" (Gottler).
 Foxtrot—Roy Ingraham's Orchestra, "That's Living" (Ryan) (4366).
 Foxtrot—Colonial Club Orchestra, "There's a Four-Leaf Clover in My Pocket" (Colwell) (4247).
 10.39: Vocal solo with novelty accompaniment—Frank Luther, "Barnacle Bill, the Sailor" (Robison) (4371).
 Foxtrot with vocal chorus—Six Jumping Jacks, "Oh, Baby, What a Night!" (Brown) (4351).
 Waltz—Regent Club Orchestra, "My Dear" (Kahn) (4370).
 Waltz—Castlewood Marimba Band, "Wonderful You" (Medkill) (4379).
 10.51: Organ—Lew White, "Deep Night" (Henderson) (4361).
 Foxtrot—Colonial Club Orchestra, "Oh! What a Night to Love!" (Herbert) (4247).
 Waltz—Regent Club Orchestra, "Evangeline" (Rose) (4379).
 11.0: God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, MARCH 4.

SILENT DAY.

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

- 3.0: Chimes. Selected Gramophone Items.
 4.30: Close down.
 5.0: Children's Hour, conducted by Uncle George.
 6.0: Dinner Music, "H.M.V." Hour.
 Overture—H.M. Coldstream Guards Band, "Poet and Peasant" (Suppe).
 Orchestral—Symphony Orchestra, "Love the Magician" (De Falla).
 6.12: Tacet.
 6.15: March—National Military Band, "Liberty Bell" (Sousa).
 Waltz—International Novelty Quartet, "Cuckoo" (Jonasson).
 Waltz—Jack Hylton's Orchestra, "Spanish Rose" (Pearson).
 Xylophone—Sam Herman, "Al Fresco" (Zonophone EE53).
 6.27: Tacet.
 6.0: Orchestral—New Light Symphony Orchestra, "In a Clock Store" (Orth).
 March—Royal Opera Orchestra, "Marche Hongroise" (Berlioz).
 Orchestral—Symphony Orchestra, "Spanish Dance" (De Falla).
 6.42: Tacet.

- 6.45: Schottische—International Novelty Quartet, "Lena" (Mewes).
Pipe organ, piano, trombone and harp—Shilkret's Rhythm Melodists,
"When You're With Somebody Else" (Gilbert) (EA338).
Waltz—Jack Hylton's Orchestra, "The Angelus was Ringing" (Dama-
rell) (B5081).
March—National Military Band, "El Capitan" (Sousa).
6.57: Tacet.
7.0: News session.
8.0: Chimes.
Programme of music to be rendered by the Kaikorai Band, under direc-
tion of Mr. T. J. Kirk-Burnnand, assisted by 4YA artists.
March Serenade—The Band, "Merry Musicians" (Greenwood); "Slum-
ber Song" (Squire).
9.10: Soprano—Mrs. D. Carty, (a) "The Bonnie Wells O' Wearie" (Grieve);
(b) "My Ain Wee Hoose" (Munro).
8.17: Organ—Terence Casey, (a) "Bird Songs at Eventide" (Coates); (b)
"I'm Lonely" (Coates) (Columbia 01501).
8.23: Recital—Mr. Lester F. Moller, "The Ballad of the Bolivar" (Kipling).
8.28: Fantasia—The Band, "Battle March of Delhi" (Fridham).
8.35: Baritone—Mr. B. C. Bellhouse, "When the Sergeant-Major's on Par-
ade" (Longstaffe).
8.39: Concert Valse, The Band, "Sunshine and Shadow" (Kela Bela).
8.44: Chorus and Orchestra, "Gorgeous Alexander" from "The New Moon"
(Romberg) (Columbia 01757).
8.48: Novelty—Xylo Rimba Orchestra, "Sweet Hawaiian Dreams" (Parish).
8.51: Contralto—Miss Netta W. Wilkie, "Slumber Dear Maid" (Handel).
8.55: Selection—The Band, "Maid of the Mountains" (Fraser-Simpson).
9.1: Weather Report.
9.3: Soprano—Mrs. D. Carty, "Home of Mine" (Murdock).
9.7: Selection—Regal Kinema Orchestra, "Broadway Selection" (Gottler
Mitchell-Conrad) (Columbia 02990).
9.7: Selection—Regal Kinema Orchestra, "Broadway Selection" (Gottler
Mitchell-Conrad) (Columbia 02990).
9.15: Recital—Mr. Lester F. Moller, (a) "The Seekers" (Masefield); (b)
"Pat-a-Cake" (Anon).
9.21: Concert Valse—The Band, "Casino Tange" (Gungl).
Intermezzo—The Band, "Zara" (Klein).
9.32: Baritone—Mr. B. C. Bellhouse, (a) "Comrades of Mine" (James); (b)
"My Prayer" (Squire).
9.39: Novelty—Xylo Rimba Orchestra, "Sunny Smiles of Hawaii" (Pala-
laiki) (Columbia 3921).
9.42: Chorus—Drury Lane Theatre, "Try Her Out at Dancing" from "The
New Moon" (Romberg) (Columbia 01757).
9.46: Grand Selection—The Band, "The Trumpeters of the Crown" (Hume).
9.52: Contralto—Miss Netta H. Wilkie, (a) "Rakety Koo" (Friml); (b)
"Eriskay Love Lilt" (Kennedy Fraser).
9.58: March—The Band, "Rimutaka" (Trussell).
10.1: God Save the King.

Wednesday, March 5

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, MARCH 5.

- 3.0: Afternoon session, Selected Studio Items, and Literary Selection by the
Announcer.
4.30: Close down.
5.0: Children's session, conducted by "Uncle Tom."
6.0: Dinner session—"H.M.V." Hour:
Instrumental—Reg. King's Orchestra, "Garden in the Rain" (Gibbons).
Instrumental—Reg. King's Orchestra, "The Song I Love" (de Sylva).
Waltz—International Concert Orchestra, "Gold and Silver" (Lehar).
Instrumental—Victor Olof Sextet, "Cherry Ripe" (Scott).
6.12: Tacet.
6.15: Waltz—International Concert Orchestra, "The Spanish Dancer" (Di
Chiara) (Zono. EF15).
Orchestra—Victor Concert Orchestra, "Romance" (Tschalkowsky).
Violin—Isolde Menges, "Salut D'Amour" (Elgar) (H.M.V. D1313).
6.26: Tacet.
6.30: Instrumental—Piccadilly Orchestra, "Friend o' Mine" (Sanderson).
Instrumental—Piccadilly Orchestra, "None But the Weary Heart"
(Tschalkowsky) (H.M.V. B2857).
Orchestra and grand organ—International Concert Orchestra, "My
Treasure" (Becucci) (Zono. EF15).
Instrumental—Victor Olof Sextet, "Minuet" (Boccherini) (B2697).
6.42: Tacet.
6.45: Instrumental—Jack Hylton's Orchestra, "Melodious Memories" (Finck)
Waltz—International Novelty Orchestra, "Emperor" (Strauss).
6.57: Tacet.
7.0: News and market reports.
7.40: Talk—Madame Mabel Milne, "Health and Diet."
8.0: Chimes.
Programme by the Cornet School Orchestra, conducted by Mr. Edward
Patterson, assisted by Vocal and Instrumental Soloists.
Descriptive—The Cornet School Orchestra, "Cathedral Chimes"
(Arnold and Brown).
8.6: Humour—Madame D'Authreau, "Fizzy Wigs Ball."
8.14: March—The Orchestra, "Washington Post March" (Sousa).
8.19: Mezzo-soprano, Mrs. J. Frater, "My Ain Folk" (Lemon).
8.24: Medley—The Orchestra, Operatic Medley Echoes from the Opera (arrgd.
Mackie Beyer).

- 8.36: Humour—Mr. W. Lucas, "Scottish Humour."
8.44: Waltz—The Orchestra, "Kiss of Spring" (Rofle).
8.54: Humour—Madame D'Authreau, "At the Pictures" (French).
9.2: Weather forecast and announcements.
9.4: March—The Orchestra, "Massachusetts Bay Tercentenary" (Frazee).
9.10: Mezzo-soprano—Mrs. J. Frater, "I Passed by Your Window" (Brach).
9.14: Selection—The Orchestra, "Recollections of Stephen Foster" (arrgd.
Beyer).
9.29: Humour—Mr. W. Lucas, "Scottish Humour."
9.36: Piano—Miss Edna Norton, "Staccato Caprice" (Vogrich).
9.42: Medley—The Orchestra, "Home Songs" (Schumann).
10.0: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, MARCH 5. SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, MARCH 5.

- 3.0: Afternoon Session Gramophone Recital.
4.25: Sports results.
4.30: Close down.
5.0: Children's Hour, conducted by Uncle John.
6.0: Dinner Session, "H.M.V." Hour.
Orchestra—Marek Weber and Orchestra, "Beggar Student" (Moz-
art) (C1528).
Orchestra—Philadelphia Symphony Orchestra, "Carmen" Entr'acte
Act 4 (Bizet) (E531).
Piano—Wilhelm Backhaus, "Bohemian Dance" (Smetana) (DB1130).
6.13: Tacet.
Band—Creators' Band, "Semiramide" (Rossini) (C1420).
Orchestra—Philadelphia Symphony Orchestra, "Soldiers Changing Guard" (Bizet) (D1618).
Orchestra—Marek Weber and Orchestra, "Rustle of Spring" (Sinding).
6.28: Tacet.
6.30: Orchestra—New Symphony Orchestra, "Neil Gwynn Dances No. 1
and 2" (Edward German) (B2987).
Orchestra—Philadelphia Symphony Orchestra, "Carmen" "March of
the Smugglers" (Bizet) (D1618).
Piano—Wilhelm Backhaus, "Caprice Espagnole" (Moszkowski).
6.44: Tacet.
6.45: Orchestra—Marek Weber and Orchestra, "My Darling Waltz" (Wagner)
(C1630).
Band—National Military Band, "Flying Dutchman Overture" (Wagner)
(A364).
Orchestra—Philadelphia Symphony Orchestra, "Carmen Entr'acte
Act 1" (Bizet) (D1618).
6.58: Tacet.
7.0: News Session.
7.30: Addington Stock Market Reports.
8.0: Chimes.
Operatic and Miscellaneous programme.
8.1: Instrumental—Studio Instrumental Octet, (Conductor Mr. Harold Beck)
"Blue Danube Waltz" (Strauss).
8.11: Contralto—Mrs. D. W. Stallard, "The Enchantress" (Hatton).
8.15: Piano—Alethia Davies, "Finlandia" (Sibelius).
8.20: Tenor—Mr. W. H. Prescott (a) "The Sea Hath Its Pearls" (Clutsam);
(b) "La Donna E Mobile" (From "Rigoletto") (Verdi).
8.25: Recitation—Miss Mavis Ritchie, "Melpomenus Jones" (Leacock).
8.32: Cello solo and Harp—Mr. Harold Beck and Mr. Harry Glayshe,
"Hamidil" (Hebrew Melody) (Bantock).
8.38: Mezzo-soprano—Miss Sylvia Marshall, "Can't Remember" (Goatley).
8.44: Organ—Terence Casey, "Annie Laurie" with novelty variations (arrgd.
Casey) (Columbia 02842).
8.48: Baritone—Mr. Olive Hindle, "She Alone Charmeth My Sadness" from
"Irene" (Gounod).
8.52: Selection—Band of H.M. Grenadier Guards, "Ivanhoe Selection" (Sullivan)
(arrgd. Godfrey) (Columbia 02980).
9.0: Weather Report and Announcements.
9.2: Instrumental—Studio Instrumental Octet, (a) "Gipsy Song" (Bizet);
(b) "Intermezzo" from "Cavalleria Rusticana" (Mascagni); (c)
"Waltz of the Flowers" (Tschalkowsky).
9.11: Contralto—Mrs. D. W. Stallard, (a) "Vale" (Kennedy Russell); (b)
"Out on the Rocks" (Sainton Dolby).
9.17: Piano—Alethia Davies, "Andante and Rondo Capriccioso" (Mendels-
sohn).
9.21: Tenor—Mr. Harold Prescott, (a) "Rose Marie" (Friml); (b) "And So
I Made a Villanelle" (Cyril Scott).
9.27: Novelty—Circolo Mandolinistico, "Semiramide Overture" (Rossini).
9.35: Recitation—Miss Mavis Ritchie, "Her Questions" (Weatherley).
9.38: Instrumental—Studio Instrumental Octet, "Faust Ballet Music"
(Gounod).
9.49: Mezzo-soprano—Miss Sylvia Marshall, (a) "Cabbage Roses" from
"Flowers of a Cottage Garden" (McGeoch); (b) "Allah" (Willeby).
9.52: Baritone—Mr. Olive Hindle (a) "When my Ships Come Sailing
Home" (Dorel); (b) "Still in Dreams" (Chuckerbutty).
9.57: Studio Instrumental Octet, (a) "Street in Algiers" (Ansell); (b) "In
a Japanese Garden" (Ansell); (c) "Grasshoppers Dance" (Bauer-
loss).
God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, MARCH 5.

- 3.0 : Chimes.
 3.1 : Selected gramophone items.
 3.15: Home Science Talk, Home Science Extension Department of Otago University, under auspices of 4YA Primary Productions Committee. "How to Use Left Over Foods—Dainty Dishes."
 4.30: Close down.
 5.0 : Children's Hour, conducted by Big Brother Bill.
 6.0 : Dinner Music, "Columbia" Hour:
 Waltz—Symphony Orchestra, "Artists' Life" (Strauss) (02577).
 Instrumental—Columbia Symphony Orchestra, "Al Fresco" (Herbert).
 Foxtrot—La Nuova Orchestra, "Di Napoli" (Romani).
 Band—H.M. Grenadier Guards, "La Paloma" (Tradier) (00987).
 6.13: Tacet.
 6.15: Instrumental—Ketelbey's Orchestra, "In a Monastery Garden" (Ketelbey) (02688).
 Waltz—Jacque Jacobs' Ensemble, "Over the Waves" (Rosas) (02556).
 6.27: Tacet.
 6.30: Instrumental—Columbia Symphony Orchestra, "Badinage" (Herbert).
 Waltz—Royal Serbian Tambouritzza Orchestra, "Kosovo" (01490).
 Waltz—Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (02577).
 March—H.M. Grenadier Guards Band, "Twist and Twirl" (Kottann).
 6.43: Tacet.
 6.45: Waltz—Royal Philharmonic Orchestra, "Blue Danube" (Strauss).
 Waltz—Jacque Jacobs' Ensemble, "Espana" (Waldteufel) (02560).
 6.57: Tacet.
 7.0 : News session.
 7.15: Talk to Farmers: "Review of Principal Articles in Journal of Agriculture," by Mr. L. W. McCaskill, under auspices of 4YA Primary Productions Committee.
 8.0 : Chimes.
 Foxtrot—The Novelty Trio, "What Do We Do, on a Dew, Dew, Dewy Day" (Sherman); (b) "Me and the Man in the Moon" (foxtrot) (Monaco); (c) "Thru the Night" (Logan) (waltz).
 8.11: Baritone—Mr. Noel H. North, (a) "Trees" (Rasbach); (b) "Bird of Blue" (German).
 8.18: Recital—Miss I. M. McGregor, (a) "A French Peasant" (Anon); (b) "Musical Monologue Home Sweet Home" (Anon).
 8.24: Foxtrot—Novelty Trio, "California Here I Come" (Meyer) (waltz); (b) "There Must be a Silver Lining" (Donaldson); (c) "Colorado".
 8.34: Contralto—Mrs. A. H. Ritchie, (a) "Tommy Lad" (Margetson); (b) "Husheen" (Needham).
 8.41: Humour—Buster Brown, (a) "Ta, Ta, My Bonnie Maggie Darling" (Lauder); (b) "The Boss of the Hoose" (Lauder).
 8.46: Waltz—The Novelty Trio, "A Shady Tree" (Donaldson); (b) "Me and My Shadow" (Dreyer) (foxtrot); "Just Like a Melody" (foxtrot) (Donaldson).
 8.56: Mezzo-soprano—Miss Helen Roy, "Sweet and Low" (Wallace).
 9.0 : Weather report.
 9.2 : Foxtrot—Novelty Trio, (a), "Sally on My Dreams" (Kernell); (b) "You're a Real Sweetheart" (Friend).
 9.8 : Baritone—Mr. Noel H. North, "Fat L'il Feller" (Gordon).
 9.11: Recital—Miss I. M. McGregor, Scene from Shakespeare (Shakespeare).
 9.14: Waltz—Novelty Trio, "Dreamy Melody" (Naset); Foxtrot, "Red Lips" (Windling).
 9.20: Contralto—Mrs. A. H. Ritchie, "The Ashgrove" (Traditional).
 9.23: Humour—Buster Brown, "We All Go Home the Same Day" (Lauder).
 9.26: Waltz—Novelty Trio, "I'm Drifting Back to Dreamland" (Sadler).
 9.29: Mezzo-soprano—Miss Helen Roy, (a) "Irish Folk Song" (Foote); (b) "Come Down to Kew" (Deis).
 9.35: Dance session, "H.M.V."
 Foxtrot—Vallee's Connecticut Yankees, "Heigh Ho! Everybody, High Ho!" (Woods) (EA614).
 Shilkret's Orchestra, "Hittin' the Ceiling" (Gottler) (B5662).
 Foxtrot—Weems' Orchestra, "Good Morning, Good Evening, Good Night" (Lewis) (EA615).
 Foxtrot—Shilkret's Orchestra, "Sing a Little Love Song" (Gottler).
 9.42: Vocal duet—Dora Maughan and Walter Fehl, "That Just What I Thought" (B3000).
 Foxtrot—Vallee's Connecticut Yankees, "S'Posin'" (Razaf) (EA582).
 Foxtrot—Arnheim's Orchestra, "Lovable and Sweet" (Clare) (EA608).
 Olsen's Orchestra, "Out Where the Moonbeams are Born" (Davis).
 Foxtrot—Reisman's Orchestra, "When You Come to the End of the Day" (Westphal) (EA581).
 9.57: Piano duet—Arden-Ohman, "Ragamuffin" (Greer) (EE166).
 Foxtrot—Shilkret's Orchestra, "Junior" (Donaldson) (EA599).
 Foxtrot—Waring's Pennsylvanians, "When My Dreams Come True" (Berlin) (EA592).
 Foxtrot—Reisman's Orchestra, "Gay Love" (Clarke) (EA625).
 Foxtrot—Waring's Pennsylvanians, "My Sin" (De Sylva) (EA592).
 10.12: Humour—Leonard Henry, "What Did the Village Blacksmith Say?" (Henry) (B3013).
 Foxtrot—Shilkret's Orchestra, "Used to You" (De Sylva) (EA587).
 Foxtrot—All Star Orchestra, "My Dream Memory" (Clare) (EA608).
 Foxtrot—Shilkret's Orchestra, "Why Can't You?" (De Sylva).
 Foxtrot—The Troubadours, "My Song of the Nile" (Bryan) (EA625).
 Waltz—The Troubadours, "My Heart is Bluer Than Your Eyes" (Bryan) (EA612).
 10.40: Piano duet—Victor Arden, Phil Ohman, "Dance of the Paper Dolls" (Tucker) (EE166).

- Foxtrot—Valle's Connecticut Yankees, "Miss You" (Tobias) (EA614).
 Foxtrot—Reisman's Orchestra, "Ain't Misbehaving" (Razaf).
 Foxtrot—Vallee's Connecticut Yankees, "The One in the World" (Little) (EA582).
 10.42: Foxtrot—George Olsen and His Music, "Reaching for Someone" (Leslie) (EA599).
 Vocal duet—Dora Maughan and Walter Fehl, "Eggs, Toast and Coffee" (Merrill) (B3000).
 Foxtrot—Hylton's Orchestra, "You're the Cream in My Coffee" (De Sylva) (B5650).
 Foxtrot—Vallee's Connecticut Yankees, "Every Moon's a Honeymoon" (Wimbrow) (EA581).
 Foxtrot—Hylton's Orchestra, "To Know You is to Love You" (De Sylva) (B5650).
 Waltz—Reisman's Orchestra, "Evangeline" (Rose) (EA615).
 11.0 : God Save the King.

Thursday, March 6

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, MARCH 6.

- 3.0 : Afternoon Session—Selected Studio Items, and Literary Selection by the Announcer.
 4.30: Close down.
 5.0 : Children's Session—Conducted by Peter Pan.
 6.0 : Dinner Session, "Columbia" Hour.
 Orchestral—"Waldteufel Memories," Herman Finck and His Orchestra (arrgd. Finck) (Columbia 02985).
 Cello—W. H. Squire, "Gavotte" (Mehul) (02646).
 Orchestral—Sandler's Orchestra, "One Kiss" from "The New Moon" (Hazlett) (01758).
 6.13: Tacet.
 6.15: Band—B.B.C. Wireless Military Band, "Dance of the Tumblers" (Korsakov) (02893).
 Octet—Squire Celeste Octet, "Funeral March of a Marionette" (Gounod) (01713).
 Saxophone—Chester H. Hazlett, "Valse Inspiration" (Hazlett).
 Orchestral—Plaza Theatre Orchestra, "Pearl O' Mine" (Fletcher).
 6.28: Tacet.
 6.30: Waltz—New Concert Orchestra, "Nights of Fragrance" (Ziehrer).
 Quartet—Squire's Celeste Octet, "Air on G String" (Bach) (01713).
 Saxophone—Chester H. Hazlett, "To a Wild Rose" (MacDowell).
 Orchestral—Plaza Theatre Orchestra, "Bal Masque" (Fletcher).
 6.43: Tacet.
 6.45: Selection—Sandler's Orchestra, "Softly as in a Morning Sunrise" (Romberg) (01758).
 Band—B.B.C. Wireless Military Band, "Golliwog's Cake Walk" (Debussy) (02893).
 Cello—W. H. Squire, "Madrigale" (Simonetti-Squire) (03646).
 Waltz—New Concert Orchestra, "Vienna Maidens" (Ziehrer).
 7.0 : News and Market Reports.
 7.15: Book Review.
 The following programme will be interrupted so that speeches delivered at 2YA, Wellington, by visiting Australian dairymen may be broadcast on relay.
 8.0 : Chimes.
 Orchestral—1YA Orchestral Octet, conducted by Eric Waters, "Dame Blanche Overture" (Boieldieu).
 8.9 : Sketch—Mr. and Mrs. J. W. Bailey, "The Perfect Pair" (Berenger).
 8.24: Mezzo-soprano, Miss Hope Asher, (a) "Dear Heart" (Tito Mattel); (b) "Five Little Piccininnies" (Anthony).
 8.30: Orchestral—1YA Orchestral Octet, (a) "Japanese Dance" (Pennington); (b) "Dancing Time" (Kern).
 8.37: Novelty Duo—Bohemian Duo, (a) "Hawaiian Girl of Mine" (Perry); (b) "Garden of Paradise" (Douglas).
 8.45: Orchestral—1YA Orchestral Octet, Callirhoe Suite (Chaminade). 1. Introduction and Danse Orientale. 2. Pas des Echarpes. 3. Danse de Callirhoe. 4. Andante. 5. Valse.
 8.54: Mezzo-soprano—Miss Hope Asher, "A Pastoral" (Turner-Malley).
 8.58: Evening Weather Forecast and Announcements.
 9.0 : Orchestral—1YA Orchestral Octet, "Selection Handel Wakes" (Morrissy).
 9.7 : Sketch—Mr. and Mrs. J. W. Bailey, "History Repeats Itself" (Milward).
 9.19: Novelty Duo—Bohemian Duo, (a) "Aloha Land" (Kawelo); (b) "Down Honolulu Way" (Burnett and Bourke).
 9.26: Orchestral—1YA Orchestral Octet, Musical Comedy Selection, "Girl in the Train" (Fall).
 9.33: Programme of Dance Music, "Columbia."
 Foxtrot—Pulais Royal Orchestra, "Louise" (Whiting).
 Foxtrot—Ambassadors' Band, "My Man" (Channing) (01566).
 Foxtrot—Willie Creager's Orchestra, "On Top of the World Alone" (Whiting) (Regal G20527).
 Foxtrot—Ambassadors' Band, "Second Hand Rose" (Clarke).
 9.42: Hawaiian—Milford's Hawaiian Players, "Hawaiian Hotel" (Nainas).
 Foxtrot—The Harmonians, "When My Dreams Come True" (Berlin).
 Foxtrot—Paul Whiteman's Orchestra, "China Boy" (Winfree).
 Foxtrot—Stellar Dance Band, "This is Heaven" (Yellen).
 Waltz—Piccadilly Players, "Lisette" (Major and Andrew) (01568).
 9.57: Soprano—Marie Burke, "I'd Rather be Blue Over You" (Rose).
 Foxtrot—Paul Whiteman's Orchestra, "I'm in Seventh Heaven" (De Sylva) (07023).
 Foxtrot—Paul Whiteman's Orchestra, "Oh Miss Hannah" (Deppen).

- Paul Whiteman's Orchestra, "Little Pal" (De Sylva) (07023).
 Foxtrot—Rhythmic Troubadours, "You're the Cream in My Coffee" (De Sylva) (Regal G20555).
 10.12: Hawaiian—Milford's Hawaiian Players, "Honeymoon Chimes" (Brown) (Regal G20550).
 Foxtrot—Royal Canadians, "This is Heaven" (Yellen) (01632).
 Foxtrot—Royal Canadians, "I Get the Blues When it Rains" (Weaver).
 Waltz—Milford's Hawaiian Players, "Kawaihau" (Hawaiian Air).
 10.24: Soprano—Marie Burke, "You Kiss My Hand, Monsieur" (Erwin).
 Foxtrot—Rhythmic Troubadours, "Jericho" (Robin) (Regal G20532).
 Foxtrot—The Piccadilly Players, "I Found You Out when I Found You In" (O'Flynn-Pence) (01568).
 Foxtrot—Ray Starita's Ambassadors, "Ever so Goosey" (Wright).
 Foxtrot—Rhythmic Troubadours, "Do Something" (Green).
 Foxtrot—Ipapa Troubadours, "To Be in Love" (Turk) (01660).
 10.42: Hawaiian—Milford's Hawaiian Players, "Aloha Land" (Herzer).
 Foxtrot—All-Star Trio, "Dream Mother" (Burke) (01630).
 Foxtrot—Rhythmic Troubadours, "To Know You is to Love You" (De Sylva) (Regal G20555).
 Foxtrot—Corona Dance Band, "Olaf" (Baer) (Regal G20519).
 Waltz—All-Star Trio, "Evangeline" (Jolson) (01630).
 11.0 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, MARCH 6.

- 3.0 : Chimes.
 3.1: An afternoon concert of selected gramophone records and "Mastertouch" player rolls by Messrs. Hamilton Nimmo and Sons, Ltd. The player rolls will be played on the "Gulbrandsen" registering piano by Mr. A. J. Nimmo.
 4.55: Close down.
 5.0 : Children's session.
 6.0 : Dinner session—"Brunswick" Hour:
 Orchestral—Brunswick Concert Orchestra, "Dance of the Hours" (Ponchielli) (4515).
 Orchestral—A. and P. Gipsies, "Herbertiana" (Stone) (4287).
 Violin—Fredric Fradkin, "Le Cygne" (Saint-Saens) (4528).
 Orchestral—Brunswick Concert Orchestra, "Badinage" (Herbert).
 Orchestral—A. and P. Gipsies, "The Far-Away Bells" (Furber-Gordon).
 6.14: Tacet.
 6.15: Orchestral—Brunswick Concert Orchestra, "Wine, Women, and Song" (Strauss) (20088).
 Orchestral—Anglo-Persians, "Cossack Love Song" (Katzman) (4483).
 Violin—Fredric Fradkin, "Nola" (Arndt) (4318).
 Orchestral—Ray Miller and his Orchestra, "Iowa Corn Song" (Lockard).
 6.28: Tacet.
 6.30: Orchestral—A. and P. Gipsies, (a) "White Acacia," (b) "Petite Causerie" (Stone) (4287).
 Orchestral—Brunswick Concert Orchestra, "Thousand and One Nights" (Strauss) (20088).
 Orchestral—A. and P. Gipsies, "Simple Confession" (Thome) (4442).
 Orchestral—Ray Miller and his Orchestra, "Go, You North-Western" (Van Etten) (4579).
 6.43: Tacet.
 6.45: Orchestral—Brunswick Concert Orchestra, "La Dansense" (Von Blon).
 Orchestral—Brunswick Concert Orchestra, "Hungarian Lustspiel" (Keler Bela) (4515).
 Violin—Fredric Fradkin, "A Kiss in the Dark" (De Sylva) (4318).
 Orchestral—Anglo-Persians, "Ragamuffin" (Greer) (4483).
 6.58: Tacet.
 7.0 : News session—Market reports and sports results.
 7.40: Lecturette—Hare Hongi, "Maori Pronunciation."
 8.0 : Chimes.
 8.1 : A Coo-ee Concert by members of Australian Dairy Farmers' Delegation (sixty in number), with speeches recording impressions of tourist resorts and the dairy districts of the North Island. (Note: Station 2YB, New Plymouth, will broadcast this programme on relay from 8 to 9 p.m.; Station 1YA, Auckland, from 8.15 to 8.45 p.m.)

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, MARCH 6.

- 3.0 : Afternoon session. Gramophone recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's Hour, "Uncle Frank."
 6.0 : Dinner session, "Columbia" Hour.
 Overture—Basle Symphony Orchestra, "Der Freischütz" (Weber).
 6.12: Tacet.
 6.15: Instrumental—J. H. Squire's Celeste Octet, "The Grasshoppers' Dance" (Bucalossi) (3608).
 Instrumental—J. H. Squire's Celeste Octet, "The Butterfly" (Bendix).
 Musical Art Quartet—"To a Wild Rose" (McDowell) (01506).
 Violin—Yvonne Curti, "Madrigale" (Simonetti) (01529).
 6.27: Tacet.
 6.30: Instrumental—J. H. Squire's Celeste Octet, (a) "I Love the Moon" (Rubens); (b) "Two Eyes of Grey" (McGeoch) (Col. 01213).
 Instrumental—J. H. Squire's Celeste Octet, (a) "Amoureux" Valse (Berger); (b) "Valse Bleue" (Margis) (3643).
 6.42: Tacet.
 6.45: Instrumental—J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein) (02581).

- 'Cello—W. H. Squire, "Sarabande" (Seitzer) (04283).
 Instrumental—J. H. Squire's Celeste Octet, "Perpetuum Mobile" (Weber—arrgd. Crooke) (02581).
 6.57: Tacet.
 7.0 : News session.
 7.30: Talk—Mr. John Poulsen, Canterbury Horticultural Society, "Roses"; under the auspices of 3YA Primary Productions Committee.
 8.0 : Chimes.
 Octet—Studio Instrumental Octet (Conductor, Mr. Harold Beck), "Song Without Words" (Mendelssohn).
 8.10: Quartet—Melodious Four, (a) "For Music" (Franz); (b) "Request" (Franz).
 Soprano—Miss. E. Hamerton, "Lo, Here the Gentle Lark" (flute obligato by Mr. W. Hay) (Sir Henry Bishop).
 8.17: Violin—Marjorie Hayward, "Canzonetta" (D'Ambrosio) (H.M.V.).
 8.21: Tenor and bass—The Yeomen Duo, "The Two Beggars" (Lane Wilson).
 8.25: Contralto—Miss Belle Renaut, (a) "Spanish Love Song" (Chaminade); (b) "Agnus Dei" (Bizet) (with Studio Instrumental Octet).
 Octet—Studio Instrumental Octet, "Caprice" (Moszkowski).
 8.36: Bass—Mr. J. Graham Young, (a) "I Will Not Chide" (Schumann); (b) "Lorraine" (Sanderson).
 8.40: Trio—Fritz Kreisler, Hugo Kreisler and Michael Rauchersen, "Sanctissima" (Corelli—arrgd. Kreisler) (H.M.V. DB1166).
 8.48: Tenor—Mr. Russell Sumner, (a) "Glorious Devon" (German); (b) "Canoe Song" (Coleridge Taylor).
 Vocal trio—Melodious Trio, "Tempus Fugit" (from "Tom Jones") (German).
 8.50: Octets—Studio Instrumental Octet, (a) "Second Minuet" (Belsey); (b) "Valse Lente" (Ballet Russe) (Simrock); (c) "Hungarian Dance No. 20" (Brahms).
 8.59: Weather report and announcements.
 9.1 : Choir—Russian State Choir, "Storm on the Volga" (Pastshenko).
 9.9 : Violin—Marjorie Hayward, "La Serenata" (B2534) (Brago).
 9.12: Soprano—Miss Frances Hamerton, "Echo Song" (flute obligato by Mr. W. Hay) (Ditson).
 9.16: Tenor—Mr. Russell Sumner, (a) "Like to the Damask Rose" (Elgar); (b) "O Mistress Mine" (Quilter).
 9.20: Octet—Studio Instrumental Octet, (a) "From the Land of the Sky-Blue Water" (Cadman); (b) "The White Dawn is Stealing" (Cadman); (c) "The Moon Drops Low" (Cadman).
 9.28: Contralto—Miss Belle Renaut, (a) "Laburnum" (Phillips); (b) "A Banjo Song" (Homer).
 9.32: Soprano and contralto—Melodia Duo, (a) "Queen Mab" (Rowley); (b) "Winter" (Saville).
 9.35: Flute—Mr. W. Hay, "Serenade" (Schubert).
 9.40: Bass—Mr. J. Graham Young, "Danny Deever" (Damasch).
 9.44: Trio—Fritz Kreisler, Hugo Kreisler and Michael Rauchersen, "Arlésienne Intermezzo" (Bizet—arrgd. Kreisler) (H.M.V. DB1166).
 9.48: Quartet—Melodious Four, "Softly Falls the Shades of Evening" (Hartton).
 9.51: Octet—Studio Instrumental Octet, (a) "Sicilienne" (Dolmetsch); (b) "Bouree" (Dolmetsch); (c) "Minuet" (Dolmetsch); (d) "Canon" (Dolmetsch).
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, MARCH 6.

SILENT DAY.

Friday, March 7

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, MARCH 7.

- 3.0 : Afternoon Session, Selected Studio Items, and Literary Selection by the Announcer.
 4.30: Close down.
 5.0 : Children's Session, conducted by "Nod" and "Aunt Jean."
 6.0 : Dinner Session, "H.M.V." Hour:
 Orchestral—Berlin State Orchestra, "Polonaise" (Liszt).
 Violin—Isolde Menges, "Nocturne in E Flat, Op. 9, No. 2" (Chopin).
 6.13: Tacet.
 6.15: Band—H.M. Coldstream Guards, "La Fille de Madame Angot" (Lecocq).
 Piano—Mark Hambourg, "Rakoczy March" (Liszt) (C1439).
 Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music" 1st movement (Mozart) (C1655).
 6.29: Tacet.
 6.30: Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music" 2nd, 3rd, 4th Movements (H.M.V. C1655/6).
 Piano—Mark Hambourg, "On Wings of Song" (Mendelssohn).
 6.44: Tacet.
 6.45: Quartet—Virtuoso String Quartet—"Londonderry Air" (arrgd. Bridge).
 Violin—Isolde Menges, "Air on G String" (Bach) (D1288).
 Quartet—Virtuoso String Quartet, "The Emperor Quartet, Op. 76, No. 3" (H.M.V. C1470).
 7.0 : News and market reports.
 7.40: Lecturette—Mr. J. C. Woodfin, Vine and Wine Instructor, Department of Agriculture, "Why We Should Grow More Vines in New Zealand and Eat More Grapes."
 Relay—Lewis Eady Hall of latest vocal and instrumental music.

- 8.30: Trio—Studio Trio, (a) "Evening Song" (Schumann); (b) "The Guitar Player" (Schuff).
- 8.37: Mezzo-soprano—Miss Molly Atkinson, "The Silver Ring" (Chaminade).
- 8.41: Trio—Studio Trio, "Contradance" (Gade).
- 8.45: One Act Play—Auckland Comedy Players, under the direction of Mr. J. F. Montague, "The Perfect Butler" (Arkell).
- 9.0: Evening weather forecast and announcements.
- 9.2: Pianoforte—Mr. Eric Waters, "Rhapsody No. 3" (Dohnanyi).
- 9.12: Mezzo-soprano—Miss Molly Atkinson, (a) "Over the Western Sea" (Mallinson); (b) "When At Morn" (Schumann).
- 9.10: Selection—Studio Trio, "The Flying Dutchman" (Wagner, arrgd. Alder).
- 9.29: One Act Play—Auckland Comedy Players, "The Fire Fighters" (Collins).
- 9.54: Orchestral—Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli) (Zono. EF12).
- 10.2: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, MARCH 7.

- 3.0: Chimes. Selected studio items.
- 3.30 and 4.30: Sports results.
- 4.55: Close down.
- 5.0: Children's session.
- 6.0: Dinner music session—"Columbia" Hour:
Orchestra—Orchestre Symphonique de Paris, "L'Arlesienne Suite" (Bizet): (1) Prelude, (2) Entr'acte—Pastorale, L'Etang de Vaccarès, (3) Chœurs—Sulvant la Pastorale (Columbia 01324-25).
- 6.12: Tacet.
- 6.15: Selection—Columbia Symphony Orchestra, "Faust" (Gounod) (02708).
Violin—Toscha Seidel, "Chanson Arabe" (Rimsky-Korsakov) (09505).
- 6.27: Tacet.
- 6.30: Orchestral—Orchestre Symphonique de Paris, "L'Arlesienne": (1) La Cuisine de Castelet, (2) Minuetto, (3) Le Carillon, (4) Adagietto (Bizet) (01326-27).
- 6.42: Tacet.
- 6.45: Orchestral—Orchestre Symphonique de Paris, "Farandole" ("L'Arlesienne"—Bizet) (01328).
Band—Band Garde Republicaine de France, "Carmen" Entr'acte (Bizet) (02747).
- 6.56: Tacet.
- 7.0: News session—Market reports and sports results.
- 7.40: Lecturette—Mr. R. Howard Taylor, "Foot Health."
- 8.0: Chimes. (This programme will be interrupted in order to broadcast excerpts from the Talkie Pictures on relay from the Majestic Theatre.)
Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Candide" (Rossini).
- 8.9: Soprano—Miss Ena Rapley, "Musetta's Song" from "La Boheme" (Puccini).
- 8.15: Bass—Mr. Arthur Brady, "Yo Ho, Little Girl," from "Country Girl" (Monckton).
- 8.17: Pianoforte—Miss Adelaide Long, "Impromptu in B Flat" (Schubert).
- 8.24: Elocutionary—Miss Mary Hart, "Eighteen Hundred and Twenty-two" (Anon.).
- 8.31: Choral—B.B.C. Choir with B.B.C. Symphony Orchestra, "Grand March" from "Tannhauser" (Wagner) (Columbia 02033).
- 8.35: Suite—2YA Orchestra, "Hiawatha Suite" (Coleridge-Taylor).
- 8.43: Tenor—Mr. Edwin Dennis, "Onaway, Awake, Beloved," from "Hiawatha" (Coleridge-Taylor).
- 8.47: Contralto—Miss Madge Freeman, "Ah, Me," from "Quaker Girl" (Monckton).
- 8.51: Cello—W. H. Squire, "Gavotte" (Mehul) (Columbia 03646).
- 8.54: Quartet—The Philharmonic, "Shepherdess and Beau Brocade," from "Rebel Maid" (Phillips).
- 8.58: Weather report and announcements.
- 9.0: Selection—2YA Orchestra, "The Beauty Prize" (Kern).
- 9.8: Soprano—Miss Ena Rapley, "When a Dream of Love," from "Rebel Maid" (Phillips).
- 9.12: Duet—Messrs. Edwin Dennis and Arthur Brady, "Larboard Watch" (Williamson).
- 9.16: Selection—2YA Orchestra, (a) "Sizilietta" (Von Blon), (b) "Entr'acte Valse" (Helmberger).
- 9.21: Elocution—Miss Mary Hart, "Daddy and the Boy" (Anon.).
- 9.31: Band—Band of H.M. Coldstream Guards, "New Sullivan Selection" (arr. Godfrey) (Columbia 02731).
- 9.39: Tenor, Mr. Edwin Dennis, "La Donna e Mobile," from "Rigoletto" (Verdi).
- 9.43: Contralto—Miss Madge Freeman, "I Want My Man," from "Rebel Maid" (Phillips).
- 9.47: Violin—Efrem Zimbalist, (a) "Orientale" (Cui), (b) "Valse Bluetie" (Drigo-Auer) (Columbia 03624).
- 9.53: Bass—Mr. Arthur Brady, "A Joyful Monk Am I," from "La Poupée" (Andran).
- 9.57: Duet—Misses Ena Rapley and Madge Freeman, "Night of Stars" (Lucantoni).
- 10.1: Concert valse—2YA Orchestra, "Acclamation Waltz" (Waldteufel).
- 10.9: God Save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—FRIDAY, MARCH 7.

- 3.0: Afternoon session, gramophone recital.
- 4.25: Sports results.
- 4.30: Close down.
- 5.0: Children's Hour.
- 6.0: Dinner Session, "Parlophone" Hour:
Waltz—Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde); (b) "Mignonette" (Nicholls) (Parlo. E10571).
- Instrumental—Dajos Bela Orchestra, "Eldgaffeln" (Landen).
- 6.12: Tacet.
- 6.15: Instrumental—Frank Westfield's Orchestra, "Classica" (arrgd. Tinsley).
Organ—Sigmund Krumgold, "Indian Love Call" (Frml) (A2339).
Waltz—Dajos Bela Orchestra, "You, Only You" (Arnold) (E10592).
- 6.27: Tacet.
- 6.30: Selection—Raie da Costa Ensemble, "Funny Face" (Gershwin).
Waltz—Dajos Bela Orchestra, "The Sphinx" (Popf) (E10592).
- 6.42: Tacet.
- 6.45: Instrumental—Orchestra Mascotte, (a) "The Flowers' Dream" (Trans-lateur); (b) "Whispering of the Flowers" (Von Blon) (A2559).
Organ—Sigmund Krumgold, "Gypsy Love Song" (Herbert) (A2339).
Instrumental—Dajos Bela Orchestra, "Electric Girl" (Helmberg-Holmes) A4009.
- 6.53: Tacet.
- 7.0: News session.
- 8.0: Chimes.
- 8.1: Overture—Debroz Somers Band, "The Desert Song" (Romberg).
- 8.9: Baritone—Mr. J. Francis Jones, "Song of the Bow" (Aylward).
- 8.12: Humorous recitation at the piano—Mr. Noel Newson, "A Cained Cinema Play" (Kent).
- 8.17: Dance music—Bailey-Marston Dance Orchestra, (a) "I Want to Meander in the Meadow" (Tobias); (b) "Stepping Along" (Kernell).
- 8.25: Mezzo-soprano—Miss Lottie Colville, "Little Lady of the Moon" (Coates).
- 8.31: Organ—G. T. Pattman, "Janette" (Nicholls) (Columbia 01144).
- 8.34: Tenor—Mr. L. C. Quane, "Madelina" (James).
- 8.38: Dance Music—Bailey-Marston Dance Orchestra, (a) "My Dream Memory" (Levant); (b) "O! Man River" (Kern).
- 8.46: Scottish humour in song—Mr. Jock Lockhart, "Bella McGraw" (Lauder).
- 8.51: Reel—O'Leary's Irish Minstrels, "Turkey in the Straw" (Traditional).
- 8.54: Dance music—Bailey-Marston Dance Orchestra, (a) "My Sin is Loving You" (de Sylva); (b) "You're the Cream in my Coffee" (de Sylva).
- 9.2: Weather report and announcements.
- 9.4: Baritone—Mr. J. Francis Jones, (a) "Dawn" (Somerset); (b) "The Crown of the Year" (Easthope-Martin).
- 9.10: Dance music—Bailey-Marston Dance Orchestra, (a) "Am I Blue?" (Akst); (b) "Satisfied" (Caesar).
- 9.16: Accordion—Jerry O'Brien, "Little Judy" (Traditional) (G20454).
- 9.19: Humorous recitation at piano—Mr. Noel Newson, "Love in a Car" (Richmond).
- 9.24: Dance music—Bailey-Marston Dance Orchestra, (a) "In the Land of Make Believe" (Gilbert); (b) "Ten Little Miles from Town" (Kahn).
- 9.32: Mezzo-soprano—Miss Lottie Colville, (a) "A Little Coon's Prayer" (Hope); (b) "Sing, Break into Song" (Mallinson).
- 9.38: Monologue—Gillie Potter, "Mr. Potter Visits Southend" (Potter).
- 9.45: Tenor—Mr. L. C. Quane, (a) "At Parting" (Clarke); (b) "Absent" (Metcalfe).
- 9.50: Organ—G. T. Pattman, "Polly" (Zamecnik) (Columbia 01144).
- 9.53: Scottish humour in song and story—Mr. Jock Lockhart, "Thunthie" (Weston and Lee).
- Dance music—Bailey-Marston Dance Orchestra, (a) "Lovable and Sweet" (Levant); (b) "Song of the Nile" (Meyer).
- Dance music by the Bailey-Marston Dance Orchestra until 11 p.m.
God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, MARCH 7.

- 3.0: Chimes. Selected gramophone items.
- 4.30: Close down.
- 5.0: Children's Hour, Aunt Sheila.
- 6.0: Dinner music, "Columbia" Hour:
Orchestral—Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov)
- 6.13: Tacet.
- 6.15: Orchestral—Menorah Symphony Orchestra, "Bar Korbba" selection (Goldfaden) (02922).
Piano—Ignaz Friedman, "Minuetto from Suite" (J. Suk) (04346).
Orchestral—New York Symphony Orchestra, "Entrance of the Little Fauns" (Pierne) (02907).
- 6.28: Tacet.
- 6.30: Band—B.B.C. Wireless Military Band, "Gathering Peacocks—Folk Dance" (arrgd. Cecil J. Sharp) (01711).
Violin—Yelly D'Aranyi, "Souvenir" (Drda) (03644).
Orchestral—Orchestra de la Societe des Concerts du Conservatoire, Paris, "Le Rouet D'Omphale" (Saint-Saens) (02926).
- 6.42: Tacet.
- 6.45: Band—B.B.C. Wireless Military Band, "Epping Forest Folk Dance" (arrgd. Cecil J. Sharp) (01711).
Piano—Ignaz Friedman, "Berceuse" (Chopin) (04346).
Orchestral—Berlin State Orchestra, "Wiener Blut" (Strauss) (04337).

- 6.58: Tacet.
 7.0 : News Session.
 8.0 : Chimes.
 Overture—New Symphony Orchestra, "Children's Overture" (Quilter).
 8.13: Soprano—Miss Molly Vickers, "Like as the Heart Desireth" (Allitsen).
 8.17: Trios—Misses Ethel Wallace, Baker and Smith, (a) "Barcarolle" (June) (Tschaiakowsky); (b) "Intermezzo Forget Me Not" (Macbeth).
 8.25: Recital—Mr. D. E. Dall, (a) "The Hell Gate of Soissons" (Kaupan); (b) "The Cure's Progress" (Dobson).
 8.30: Baritone—Mr. L. H. Stubbs, Two songs from (a) "Malvern Hills in Spring" (Coningsby-Clark); (b) "The Little Girl from Hanley Way" (Coningsby-Clark).
 8.37: Violin—Miss Ethel Wallace, "Kreutzer Sonata 2nd Movement" (Beethoven).
 8.48: Mezzo-Contralto—Miss S. McCready, (a) "Everywhere I Look" (Carew); (b) "Little Boy Blue" (Del Riego).
 8.55: Trio—Misses Wallace, Baker and Smith, "Largo Con Expressione" from Trio in G (Beethoven).
 9.1 : Weather report.
 9.3 : Selection—Philadelphia Symphony Orchestra, "Dance Macabre" (Saint Saens) (H.M.V. D1121).
 9.11 : Soprano—Miss Molly Vickers, (a) "Awake" (Pellisser); (b) "Wake Up" (Phillips).
 9.18: Trio—Misses Wallace, Baker and Smith, "Grand Trio Concertant" (Vollweiler).
 9.29: Recital—Mr. D. E. Dall, a French sketch, "Alphonse Confides" (Pain).
 9.35: Piano—Miss Sybil Baker, F.T.C.L. "Ballad in A Flat" (Chopin).
 9.41: Mezzo-Contralto—Miss S. McCready, "The Restless Sea" (Hamblen).
 9.45: Trio—Misses Wallace, Baker and Smith, (a) "Romance" (Rubinstein) (b) "Allegro Con Brio" (Beethoven).
 9.54: Baritone—Mr. L. H. Stubbs, two more songs from "Malvern Hills" (C. Clark) (a) "My Girl and I"; (b) "The Ledbury Train."
 9.58: Band—Band of H.M. Coldstream Guards, "Tannhauser March" (Wagner) (Zonophone A358).
 10.2 : God Save the King.

Saturday, March 8

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, MARCH 8.

- 3.0 : Afternoon session—Selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Further studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner session—"Columbia" Hour.
 March—National Military Band, "National Emblem" (Bagley) (01153).
 'Cello—W. H. Squire, "The Broken Melody" (Van Biene) (04180).
 Albert Sandler's Orchestra, "I Kiss Your Hand, Madame" (Erwin).
 Kinema organ—G. T. Pattman, "Cherie Waltz" (Valetine) (01344).
 6.12: Tacet.
 6.15: Court Symphony Orchestra, "The Gondoliers" (Sullivan) (979).
 Paul Whiteman's Orchestra, "Gypsy" (Gilbert) (07505).
 6.27: Tacet.
 6.30: Albert Sandler's Orchestra, "Chalita" (Schertzing) (01467).
 Padilla's Marimba Serenaders, "Paree" (Padilla) (Regal G20344).
 Piano—Gil Dech, "Sometimes I'm Happy" (Youmans) (01205).
 Royal Serbian Tambouritzza Orchestra, "Serbian Melody" (01490).
 6.42: Tacet.
 6.45: Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadow" (Ketelbey) (02695).
 Rio Marimba Serenaders, "Dolores Waltz" (Waldteufel) (Regal).
 Organ—G. T. Pattman, "Worryin' Waltz" (Fairman) (01344).
 March—National Military Band, "Stars and Stripes" (Souza).
 6.57: Tacet.
 7.0 : News and market reports.
 8.0 : Chimes.
 8.1 : Rely of concert from the Town Hall of the Auckland Municipal Band, under the conductorship of Mr. Christopher Smith.
 10.0 : (approx.) Programme of Dance Music, "Brunswick."
 Waltz—Regent Club Orchestra, "Marie" (Berlin) (4257).
 Foxtrot—Hotel Roosevelt Orchestra, "I Kiss Your Hand, Madame" (Lewis-Young) (4315).
 Waltz—Regent Club Orchestra, "Where is the Song of Songs for Me?" (Berlin) (4257).
 Foxtrot—Hotel Roosevelt Orchestra, "I've Got a Feeling I'm Falling" (Rose-Link) (4315).
 10.13: Baritone—John Charles Thomas, "Rolling Down to Rio" (Kipling-German) (15200).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "Stairway of Dreams" (Stone) (4277).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "That's the Good Old Sunny South" (Ager) (4277).
 Foxtrot—Hotel Roosevelt Orchestra, "I'll Tell the World" (Turk).
 Waltz—Hotel Roosevelt Orchestra, "Sweet Suzanne" (Leslie-Gilbert).
 10.29: Vocal—Bob Nolan, "Rose of Mandalay" (Magine-Koehler) (4248).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Do You Ever Think of Me?" (Burnett) (4217).

- Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Floddin' Along" (Caminado) (4217).
 Foxtrot—Colonial Club Orchestra, (a) "Naughty Eyes" (Fork-Locke); (b) "Leave Me with a Beautiful Melody" (Spier-Coslow) (4256).
 10.43: Vocal—Bob Nolan, "Caressing You" (Faziolo-Klages) (4248).
 Foxtrot—Hotel Roosevelt Orchestra, (a) "Mean to Me" (Turk); (b) "My Castle in Spain is a Shack in the Lane" (Caesar-Friend).
 Foxtrot—The Clevelanders, (a) "Shout Hallelujah, 'Cause I'm Home" (Dixon); (b) "There's a Place in the Sun for You" (Green-Fain).
 11.0 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, MARCH 8.

- 3.0 : Chimes. Selected Studio Items.
 3.30 and 4.30: Sports results.
 4.55: Close down.
 5.0 : Children's Session.
 6.0 : Dinner Music Session, "H.M.V." Hour.
 Light Orchestra—Marek Weber and Orchestra, "Lehariana" (Geiger).
 'Cello—Cedric Sharpe, "Air" (Pergolesi) (B3040).
 Band—Coldstream Guards, "Wedding of the Rose" (Jessel).
 6.14: Tacet.
 6.15: Orchestra—Vienna Philharmonic Orchestra, "Morning Noon and Night in Vienna" (Suppe) (C1667).
 Light Orchestra, New Mayfair Orchestra, "Five O'Clock Girl" (Ruby).
 6.27: Tacet.
 6.30: Orchestra—New Mayfair Orchestra, "Love Lies" (De Sylva).
 'Cello—Cedric Sharpe, "Twilight" (Friml) (B3040).
 Organ—Herbert Dawson, "Evensong" (Easthope Martin) (B2263).
 Band—H.M. Coldstream Guards, "Hobomoko Intermezzo" (Reeves).
 6.44: Tacet.
 6.45: Trio—De Groot (violin) A. Gibilaro (piano), J. Pacey ('cello) "O Sole Mio" (Di Capua) (B2588).
 Organ—Herbert Dawson, "Idylle" (Edward Elgar) (B2263).
 Orchestra—Berlin State Opera Orchestra, "German Dances" (Mozart).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Mr. F. M. Ryan, "Fire Protection."
 8.0 : Chimes.
 Overture—2YA Salon Orchestra, (Conductor Mr. Mat Dixon) "Zampa" (Herold).
 8.9 : Quartet—Melodie Four, "The Owl and the Pussy Cat" (De Koven).
 8.18: Tenor—Mr. Sam Duncan, "Where My Caravan Has Rested" (Lohr).
 8.17: Steel Guitar Trio—Mrs. Mildred Kenny's Steel Guitar Trio, (a) "Sweet Hawaiian Girl of Mine" (Green and Williams); (b) "With Thee" (Mexican Dance) (Foden).
 8.24: Bass—Mr. W. W. Marshall, "Gipsy Love Song" (Herbert).
 8.28: Mixed voices with orchestra, "Light Opera Company, "Vocal Gems" from "Whoopie" (Kahn-Donaldson) (H.M.V. EB41).
 8.32: Instrumental—2YA Salon Orchestra, Two popular songs (a) "I Hear You Calling Me" (Marshall); (b) "In an Old-fashioned Town" (Squire).
 8.40: Comedian with orchestra, Sir Harry Lauder, (a) "Rising Early in the Morning" (Lauder); (b) "She is Ma Daisy" (Lauder).
 8.46: Soprano—Mrs. R. S. Allwright, "Flight" (Carew).
 8.50: Quartet—Melodie Four, request number.
 8.54: Instrumental—2YA Salon Orchestra, request number.
 9.2 : Weather report and announcements.
 9.4 : Humour—Mr. Chas. E. Wheeler, "Parliamentary Reminiscences, Mostly Humorous."
 9.14: Steel Guitar Trio—Mrs. Mildred Kenny's Steel Guitar Trio, (a) "Sleepy Valley" (Dowling and Hanley); (b) "Yo Te Amo" (Whitling).
 9.21: Mixed voices with orchestra, Light Opera Company, Gems from "Hold Everything" (De Sylva, Brown and Henderson).
 9.25: Tenor—Mr. Frank Bryant, "The Old Refrain" (Kreisler).
 9.29: Selection—2YA Salon Orchestra, "Cairo" (Fletcher).
 9.37: Duet with male voices, Mrs. R. S. Allwright, Mr. Sam Duncan and Melodie Four, "Miserere Scene" from "Il Trovatore" (Verdi).
 9.41: Organ—Reginald Foort, "The Sacred Hour" (H.M.V. EA623).
 Organ—Leslie James, "Medley of Old Songs" (H.M.V. EA623).
 9.47: Baritone—Mr. R. S. Allwright, "The Village Blacksmith" (Weiss).
 9.51: Quartet—Melodie Four, "Cause I'd Nothing Else to Do" (Parks).
 9.55: Instrumental—2YA Salon Orchestra, "Dance Novelties."
 10.5 : Dance programme, "H.M.V."
 Foxtrot—Nat Shilkret's Orchestra, "Because I Know You're Mine" (Derickson) (H.M.V. EA515).
 Foxtrot—Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin) (EA519).
 10.9 : Banjo solo—Mario de Pietro, "Frivolous Joe" (De Pietro) (B2820).
 Foxtrot—Nat Shilkret's Orchestra, "I Want a Daddy to Cuddle Me" (Eble) (EA515).
 Foxtrot—Waring's Pennsylvanians, "That's How I Feel About You" (Davis) (EA516).
 Waltz—Jean Goldkette's Orchestra, "Can You Blame Me?" (Goodwin).
 10.21: Baritone—Noel Coward, "Lorelei" (Coward) (B2737).
 Foxtrot—New Mayfair Dance Orchestra, "The Egg Song" (Salisbury).
 Foxtrot—George Olsen and His Music, "In a Little Town Called Home Sweet Home" (Donaldson) (EA516).
 Tango—Rio Grande Tango Band, "The Tlle Trot" (Penso) (EA517).
 10.33: Comedian—Frank Crumit, "The Road to Vicksburg" (Crumit).
 Foxtrot—Nat Shilkret's Orchestra, "Broadway Melody" (Freed).

- Waring's Pennsylvanians, "My Castle in Spain" (Caesar).
 10.42: Mandoline solo—Mario de Pietro, "Concert Mazurka" (Calace).
 Foxtrot—Nat Shilkret's Orchestra, "You Were Meant For Me" (Freed).
 Foxtrot—George Olsen's Music, "Makin' Whoopee" (Kahn).
 10.51: Comedian—Frank Crumit, "The King of Borneo" (Crumit).
 Foxtrot—George Olsen's Music, "Until You Get Somebody Else" (Kahn) (EA498).
 Waltz—Rudy Vallee and His Connecticut Yankees, "Sweet Suzanne" (Leslie) (EA523).
 11.0: Sporting summary.
 11.10: God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY MARCH 8.

- 8.0: Afternoon Session, Gramophone Recital.
 4.25: Sports results.
 4.30: Close down.
 5.0: Children's Hour, conducted by Aunt Pat.
 Overture—National Symphony Orchestra, "Light Cavalry" (Suppe).
 Waltz—Chicago Symphony Orchestra, "Roses of the South" (Strauss).
 'Cello—Pablo Casals, "Moment Musical" (Schubert) (DA776).
 6.13: Tacet.
 6.15: Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihau Waltz" (Kaelakai); (b) "My Hula Love" (H.M.V. B2799).
 Medley Waltz—The Troubadours, "Popular Songs of Yesterday."
 'Cello—Pablo Casals, "Le Cygne" (Saint-Saens) (DA776).
 6.27: Tacet.
 6.30: Waltzes—International Concert Orchestra, (a) "The Merry Widow" (Lehar); (b) "Luxembourg Waltz" (Lehar) (Zonophone EF9).
 Violin and Guitar—Giuletta Morino, (a) "Harlequin's Serenade" (Drigo); (b) "Could I?" (Peggis) (Zonophone EE134).
 6.44: Tacet.
 6.45: Instrumental—New Light Symphony Orchestra, (a) "The Dancing Doll" (Poldini); (b) "At Dawning" (Cadman) (B2629).
 Wurlitzer Organ—Jesse Crawford, "Carolina Moon" (Davis) (EA536).
 Instrumental—Royal Opera Orchestra, "The Sleeping Beauty" (Tschai-kowsky) (C1469).
 6.58: Tacet.
 7.0: News Session.
 7.30: Sports results.
 8.0: Grand Vaudeville opening programme of "The Vagabonds," assisted by Miss Amy Peters at the piano.
 8.1: Opening chorus, followed by Old Time Choruses, The Vagabonds, "Hello 3YA," and Old-Time Popular Choruses (Lawrence).
 Harmony Duet—Vagabonds Lawrence and Anderson, "Little Green Valley" (Robinson).
 Baritone—Vagabond Pedler, "Hail Caledonia" (Stroud).
 Sketch—Vagabond Comfort and The Vags, "The Harrassed Comedian" (M.S.).
 Jazz song—Vagabond Hale—"The Babbling Brook" (M.S.).
 Orchestral—Nat Shilkret and Salon Group, "Old Black Joe" (Foster).
 Novelty Item—Vagabond Hegan, "Tap Dancing Novelty."
 Piano Improvisations, Miss Amy Peters, "Piano Improvisations" (M.S.).
 Popular song—Vagabond Cordner, "O! Man River" (Kern).
 Humour—Vagabond Lamb, "The Two to Two to Tooting" (M.S.).
 Banjo—Marie de Pietro, "Frivolous Joe" (De Pietro).
 Harmony Duet—Vagabond Hale and Flattery, "Let's Grow Old Together" (Nelson).
 Choruses, The Vagabonds, "Pre-War Popular Choruses" (arrgd. Lawrence).
 9.0: Weather report and announcements.
 9.2: Choral items, The Vagabonds, "War-time Choruses" (arrgd. Lawrence).
 Piano—Vagabond Amy Peters, "Jazz Improvisations" (arrgd. Peters).
 Humorous duet—Vagabond Lawrence and Comfort, "Did I Do That" (Wood).
 Song—Vagabond Cordner, "Prince Ivan's Song" (Allitsen).
 Orchestral—Nat Shilkret and The Salon Group, "My Old Kentucky Home" (Foster) (H.M.V. EB42).
 Harmony Duo—Vagabonds Lawrence and Anderson, "Carolina Moon" (Davis).
 Novelty Item, Vagabond Hegan, "Sand Jigging."
 Song—Vagabond Flattery, "Neapolitan Nights" (Zammecnick).
 Humour—Vagabond Lamb, "A Proper Coffee Cup" (M.S.).
 Plantation Trio—Vagabonds Lawrence, Comfort and Hegan, "Darkie Melodies" (M.S.).
 Organ—Jesse Crawford, "In the Heart of the Sunset" (Nicholls).
 Duet—Vagabonds Flattery and Hale, "Aloha" (Liliuokalani).
 Finale—The Vagabonds, "Chorus and Auld Lang Syne" (M.S.).
 10.0: Dance music programme, "H.M.V." Hour.
 Foxtrot—Rhythmic Eight, "Don't Be Like That" (Gottler).
 Foxtrot—Jack Hylton's Orchestra, "Sweetheart of All My Dreams" (Fitch) (EA540).
 Foxtrot—Arcadians' Dance Orchestra, "Pokee-Okee-Oh" (Butler).
 Foxtrot—Jack Hylton's Orchestra, "I Lift Up My Finger and Say Tweet Tweet" (Sarony) (EA540).
 10.12: Comedian—Eddie Cantor, "If I Give Up the Saxophone" (Fain-Kahal Raskin) (EA576).
 Foxtrot—George Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn) (EA537).
 Foxtrot—Nat Shilkret's Orchestra, "One For All All For One" (Trent).
 Foxtrot—Heidt's Orchestra, "I'm Ka-Razy For You" (Jolson).

- Waltz—Arcadians' Dance Orchestra, "Anita" (Pollack).
 Waltz—Arcadians' Dance Orchestra, "That Old Time Organ Melody" (Carlton) (Zonophone EE155).
 10.30: Contralto—Lupe Valez, "Mi Amado" (EA535).
 Foxtrot—George Olsen's Music, "Come West, Little Girl, Come West" (Kahn) (EA537).
 Foxtrot—Nat Shilkret's Orchestra, "I'm Thirsty for Kisses, Hungry for Love" (Davis) (EA528).
 Foxtrot—Nat Shilkret's Orchestra, "Some Sweet Day" (Shilkret).
 Foxtrot—Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert).
 10.45: Comedian—Eddie Cantor, "Hello Sunshine, Hello" (Murray-Tobias).
 Foxtrot—"Kassels in the Air"; "He, She and Me" (Newman).
 Foxtrot—Park Central Orchestra, "Sally of My Dreams" (Kernell).
 Waltz—Connecticut Yankees, "Coquette" (Berlin) (EA532).
 Waltz—Shilkret's Orchestra, "Lady Divine" (Shilkret) (EA531).
 11.0: God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, MARCH 8.

- 10.0: Departure of Children's Picnic from 4YA.
 1.0: Description of Picnic at Halfway Bush.
 3.0: Town Hall chimes.
 3.1: Selected gramophone items.
 4.25: Sporting results to hand.
 4.30: Close down.
 5.0: Children's hour, on relay from Halfway Bush.
 6.0: Dinner music—"H.M.V." Hour.
 Waltz—International Concert Orchestra, "Over the Waves" (Rosas).
 Orchestral—Paul Whiteman and His Concert Orchestra, "High Water" (Brennan-McCardy) (C1607).
 Hawaiian—Hilo Hawaiian Orchestra, "My Hula Love" (Kaelakai).
 Orchestral—Zonophone Salon Orchestra, "Simple Aven" (Thome).
 6.13: Tacet.
 6.15: Orchestral—Paul Whiteman and His Orchestra, "Mississippi Suite" (Grofe) (1574).
 Organ—Edward O'Henry, "Chant Sans Paroles" (Tschai-kowsky).
 Orchestral—Zonophone Salon Orchestra, "Narcissus" (Nevin) (Zono.).
 6.29: Tacet.
 6.30: Waltz—International Concert Orchestra, "Danube Waves" (Ivanovici).
 Hawaiian—Hilo Hawaiian Orchestra, "Kawaihau Waltz" (Kaelakai).
 Orchestral—Paul Whiteman and His Concert Orchestra, "Caprice Futuristic" (Malneck) (C1607).
 Organ—Edward O'Henry, "Ca C'est Madrid" (O'Henry) (B3094).
 6.44: Tacet.
 6.45: Orchestral—Hylton's Orchestra, "Good Old Songs" Selection (C1592).
 Orchestral—International Concert Orchestra, "Barcarolle" ("Tales of Hoffman") (Offenbach) (B2377).
 Orchestral—New Light Symphony Orchestra, "Cavalleria Rusticana" (Intermezzo) (Mascagni) (B2377).
 6.59: Tacet.
 7.0: News session.
 8.1: Relay of vaudeville programme from 3YA, Christchurch.
 10.0: Dance programme—"Columbia" Hour.
 Foxtrot—Ipana Troubadours, "Building a Nest for Mary" (Greer).
 Slow Foxtrot—Piccadilly Players, "Bogey Wall" (Wallace) (01567).
 Foxtrot—Ipana Troubadours, "I Used to Love Her in the Moonlight" (Florito) (01617).
 Waltz—Rhythmic Troubadours, "My Irish Paradise" (Tilsley) (Regal).
 Vocal duet—Layton and Johnstone, "Lady Divine" (Shilkret) (01658).
 Foxtrot—Piccadilly Players, "I'll Always Be Mother's Boy" (Green).
 Foxtrot—Paul Whiteman's Orchestra, "When My Dreams Come True" (Green).
 Foxtrot—Piccadilly Players, "There'll Be You and I" (Green).
 Piccadilly Players, "I'm Tickled to Death I'm Me" (Butler) (01567).
 10.27: Kinema organ—Regal Kinema Organ, "Long Ago" (Elliott) (Regal).
 Foxtrot—Lou Gold's Orchestra, "Walking With Susie" (Gottler).
 Paul Whiteman's Orchestra, "Reaching for Someone" (Leslie).
 Foxtrot—Bert Lown's Lounge, "Big City Blues" (Gottler).
 Waltz—Cafe Royal Band, "Forever" (Yellen) (Regal G20551).
 Waltz—The Cavaliers, "My Dear" (Kahn) (01646).
 10.45: Vocal solo—Ruth Etting, "You're the Cream in My Coffee" (de Sylva).
 Foxtrot—Paul Whiteman's Orchestra, "S'posin'" (Razar) (07027).
 Piccadilly Players, "My Mother's Eyes" (Baer) (01646).
 Foxtrot—Paul Whiteman's Orchestra, "Laughing Marionette" (Collins).
 Foxtrot—Lou Gold's Orchestra, "Breakaway" (Gottler) (Regal).
 11.0: God Save the King.

Sunday, March 9

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MARCH 9.

- 3.0: Afternoon session—Selected studio items and literary selection by the Announcer.
 4.30: Close down.
 Evening session.
 6.0: Children's Song Service, conducted by Uncle Leo.
 6.55: (approx.) Relay of Divine Service from St. Andrew's Church. Preacher, Rev. Ivo Bertram. Organist, Dr. Neil McDougall.
 8.30: Selection—Orchestre Symphonique de Paris, Scene Pittoresque; (1), Marche, (2), Air de Ballet (Massenet) (Columbia 01282).

Soprano—Mrs. E. Jean le Pettit, (a) "Night Wind" (Carse); (b) "A Mother's Song" (Clayton).
 Instrumental trio—Studio Trio, "Andante," from "Symphony No. 2" (Mozart).
 Male quartet—The Salisbury Singers, "Early One Morning" (Bullivant).
 Piano—Mr. Eric Waters, "Polonaise in E Major" (Liszt).
 Baritone—Mr. Clinton Williams, "The Lord is My Light" (Allitsen).
 Soprano—Mrs. Le Pettit, "Can't Remember" (Goatley).
 Instrumental trio—Studio Trio, (a) "Song Without Words" (Mendelssohn); (b) "Serenade" (Syckacs).
 Baritone—Clinton Williams, (a) "For He Shall Give His Angels Charge Over Thee" (Jeffers); (b) "How Lovely Are Thy Dwellings" (Liddle).
 Selection—Orchestre Symphonique de Paris, Scenes Pittoresques: (3) Angelus, (4) Fete Boheme (Massenet) (Columbia 20813).
 God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MARCH 9.

3.0 to 4.30: Afternoon session.
 6.0: Children's Song Service, conducted by Uncle George, assisted by St. Matthew's Anglican Sunday School Choir.
 Evening Service.
 7.0: Relay of Evening Service of Trinity Methodist Church, Newtown.
 Preacher: Rev. T. W. Veale. Organist: Miss Lillian Thawley.
 L.A.B. Choirmaster: Mr. W. McClellan.
 8.15 (approx.): Relay from His Majesty's Theatre of Concert arranged by the Combined Theatre Orchestras of Wellington.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MARCH 9.

3.0: Afternoon Session, Gramophone Recital.
 4.30: Close down.
 5.30: Children's Song Service by children of Presbyterian Sunday Schools, conducted by Rev. L. McMaster.
 6.30: Gramophone Recital—Selected Items.
 7.0: Relay of evening service from St. Andrews Presbyterian Church.
 Preacher: Rev. J. Lawson Robinson B.D. Organist: Mr. Robert Lake. Musical Director: Mr. J. Maclean.
 8.15 (approx): Rebroadcast of Studio programme from 4YA Dunedin.
 9.30 (approx): God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MARCH 9.

3.0: Chimes.
 3.1: Selected Gramophone Items.
 4.30: Close down.
 5.30: Children's Song Service, conducted by Big Brother Bill.
 6.15: Organ—Recital from St. Paul's Cathedral by Mr. E. H. Heywood, F.R.C.O.
 6.30: Relay of service from St. Paul's Cathedral, Octagon. Preacher: Canon Neville. Organist: Mr. E. H. Heywood, F.R.C.O.
 8.15: Studio Concert by Kalkorai Band, under conductorship of Mr. T. J. Kirk-Burnnand, assisted by 4YA artists.
 Hymn—"For All the Saints" (Barnby).
 March—"The Southlanders" (Lithgow).
 Soprano—Miss Rae A. C. Stubbs, (a) "Not Understood" (Houghton); (b) "God and God Alone is Love" (Ward Stephens).
 Male Choir—Don Cossacks "Three Folk Songs" (arrgd. Dobrowen).
 Serenade—Selection, The Band, (a) "The Mastersingers" (Wagner); (b) "In This Hour of Softened Splendour" (Pinsuti).
 Baritone—Mr. William Ruffell, "He Heard the Great Sea Calling" (Andrews).
 Organ—Quentin MacLean, "Incidental Music to the Merchant of Venice" (Rosse) 1. Prelude. 2. Intermezzo. 3. Oriental March.
 Weather Report and Announcements.
 Air Varié—The Band, "Simeon" (Rimmer).
 Soprano—Miss Rae A. C. Stubbs, "How Lovely Are Thy Dwellings" (Liddle).
 Male Choir—Don Cossacks "How Great Our Lord is Magnified" (Bortnjarsky) (Columbia 02712).
 'Cello—Felix Salmond, "Kol Nedrei" Op. 47 (Columbia 04190).
 March—The Band, "Machine Gun Guards" (Marchal).
 Cornet—With Band accompaniment, "Lead Kindly Light" (Sir Arthur Sullivan).
 Baritone—Mr. William Ruffell, (a) "Tally Ho" (Leoni); (b) "On Wings of Song" (Mendelssohn).
 Selection—The Band, "The French Maid" (Slaughter).
 Hymn Tune, "Kalkorai" (Kirk-Burnnand).
 9.30: God Save the King.

Topical Notes

A TRAMWAY electrical click which interferes with crystal set reception at a distance of 400 yards is certainly a formidable intruder. A listener at the recent meeting of the Wellington Radio Society reported that the automatic tramway switch which operates the red and green lights near the Wellington North post office, Thorndon, loudly interferes with reception on his crystal set at his home in Burnell Avenue, about 400 yards away from the switch. The honorary secretary of the society was deputed to investigate the matter.

WHILE many people in New Zealand are protesting against the Americans foisting their language on us per medium of the talking pictures, it is amusing to note that even the Americans are sensible of mispronunciation by their radio announcers. The Chicago "Herald and Examiner" publishes a protest by a listener that a certain announcer pronounces "theatre" as "the-ay-ter." It is rather amusing that only one word was objected to; one has only to listen to the American announcers for a few minutes to perceive that pronunciation is not their long suit. Incidentally, why do some people pronounce "cello" as "shello"; why not "chello"?

THE day may not be far distant when photographs will be flashed by radio between Australia and New Zealand. For instance, a photograph of the finish of the Melbourne Cup could, even now, be reproduced in the New Zealand papers on the morning after the race. News from America reports that Mr. W. A. Winterbottom, vice-president in charge of the R.C.A. Communications Ltd., has announced that the most recent developments in photo-radio are simplification of apparatus, greater speed, and the reduction in rates between New York and London. The charge for photos sent by radio across the Atlantic is approximately 8/- a square inch.

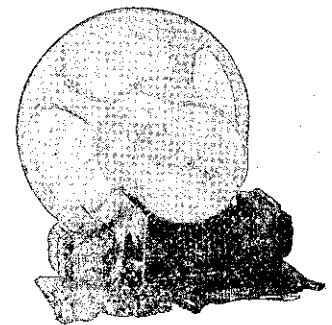
LATELY "Switch" has been listening to his old friend Hare Hongi speaking from 2YA, Wellington, on Maori names and their origins and interpretations. Hongi, who is a quarter-caste, is wonderfully steeped in Maori lore, and is a fluent speaker of the Native language. He has an indescribably engaging manner and his friends, Maori and pakeha, are legion. Hongi is one of the few people remaining who can speak with authority on Maori legend, and his knowledge on this subject would fill a large volume. He has written much, but could write considerably more.

Important Announcement!

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Are now available to all Radio Dealers throughout New Zealand for home, manufacturing, theatrical and public address requirements.

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THE MASTER VALVE



THE ELECTRIC HOME JOURNAL



STRAWS show which way the wind blows, and if we may judge by the letters we are receiving from our readers, week by week, the weather would appear to be set fair for us, so kindly are the appreciations, both of the articles we have been privileged to publish from the pens of those who know, and of our own contributions. We do like to hear from our readers, and to know that our efforts towards the universal appreciation of electricity and all that it means to woman and the home are in their turn being appreciated.

As stated in a former issue, the women of this country, itself noted for progress, are waking up in their thousands to the advantages, hitherto neglected by so many of them, that are knocking at their doors for admittance. Few women there can be to-day, if any, who would not if they could, avail themselves of these advantages. We are here to show you how. Lighting, cleaning, cooking and laundry are all of paramount importance in the home, and what is of paramount importance in the home must necessarily highly interest its mistress.

Our monster washing-machine competition has been instituted with a view to increasing the interest which has been aroused, taking this one appliance only, and it cannot be too strongly emphasised that any and every woman stands an equal chance. All that is required is the expression of seven good, convincing, common-sense reasons of your own which you surely must hold, for wishing for the presence of such an electric servant in your home. We would say, therefore, to one and all, take advantage of this unique opportunity, go in and WIN. "Savoir-faire" is gratified at the sustained intelligent interest with which the "Trials in Tact" competition is being met. One com-

petitor kindly sends a gracious "thank you" and states that the competition is profitable, as well as interesting, apart from the prizes to be won. We are pleased that readers are sending their own problems in for solution, for it interests you to know what others think about them, and your problems interest others.

"Gad-about" and "Electra" are delighted at the opportunities that are being afforded them of being of service to our readers. They hope that they may be asked to extend that service to each of you in turn, to receive your suggestions, and to hear from you of any subject that you would like threshed out in our columns.

One and all, we are here to serve, as interestingly and as usefully as lies in our power. Do your share, readers, and it shall be our honest endeavour to do ours.

The Greatest Invention

Tribute to Electricity

A SPIRITED discussion is being carried on in an American magazine as to the five best inventions. One writer unhesitatingly declares for electricity. He says that electric power is running factories and mills to-day as never before, and goes on to state that the electric lamp alone does things that kerosene lamps could never do. Diminished to a pea-size, it tips the end of a surgeon's instrument to light a delicate operation within the human body, and in thousands of cities controls the traffic.

Another reader, in answer to one who bemoans the fact that inventions have done nothing to make life of man on earth any happier, takes electric light as a single instance, in contradiction. He cites a scientist, working on a great experiment. A few more hours' work and it is done. It grows dark in his laboratory. He switches on the lights, and the experiment, which might have failed if it were broken off in the middle, goes on, is successful, and humanity is bettered by it.

Future Possibilities

Our Undeveloped Market

AN interesting article outlining the tremendous possibilities ahead of power boards in expanding their service to the public, and increasing their revenue, is given in a recent article in the "Manawatu Daily Times." This article took as its text the amusing statement by a business man, who happens to be a member of the Palmerston North Borough Council, that "everybody knows everything about electricity," and that there was consequently no need for the Palmerston North Borough Council to take any steps to secure extra supply or popularise the expansion of electricity.

In a trenchant article the "Manawatu Daily Times" points out that the great electrical firms of Europe and America, where electricity has been in use for many years longer than in New Zealand, still spends hundreds of thousands of pounds every year in educating the public in the varied uses and advantages of electricity. Their very existence as business houses depends upon increasing their consumption of electricity and the sale of electrical appliances.

From that introduction the paper points out that the saturation point in Palmerston North has by no means been reached; that even in houses which are electrified, and contain, say, an electric stove, an electric kettle, hot water system, electric iron, electric cleaner, washing machine, radiator and lights, there are still a dozen other electrical devices not yet installed; and alongside houses so equipped are many others without a single electrical appliance whatsoever.

Then, coming down to figures, the paper points out that in Manawatu-Oroua Power Board's area there are 40,000 persons, or approximately 10,000 households, all potential consumers of electricity. Only 10 per cent. of the present consumers of electricity have electrical ranges, and only 19 per cent. have electrical water heaters. In the face of those figures it is obvious that the potential consumers in this area do not know "all about electricity."

In conclusion, it is pointed out that the supply authority needs revenue, and needs it badly; and that, in the face of inadequate revenue from the sale of power, there had even been talk of striking a rate. So far this is a course which has been taken only rarely in New Zealand, and it is extremely undesirable in the interests of electricity that it should be adopted in any more cases. For full success

every electrical venture should be self-supporting. It should be made self-supporting by increased turnover, and that increased turnover can best be secured by adequate advertising and popularisation of service supplied.

The points from the foregoing article are quite sound, and can be commended to the attention of every supply authority which has not yet given its support to the combined advertising scheme. The time is fully ripe for intensive effort in both rural and urban areas to popularise electricity. The countryside is becoming in many districts completely denuded of timber supplies, and the problem of farm heating is quite intense in many districts. Electricity comes as a timely substitute. For radiators, water heating, and power and light purposes, it is unrivalled, and as the Hon. E. A. Ransom, Minister of Public Works, recently pointed out, this factor alone constitutes a very definite argument in favour of electricity in rural areas.

Fifty Years Ago

AN Australian journal says that we fondly imagine that our fathers could teach us nothing of the art of advertising, but an advertisement of fifty years ago, recently come across, makes one wonder. A good advertisement should first arouse attention, then excite interest, and finally induce a desire to buy. The following, which appeared simply as a letter, seems to measure up to this standard:—

"A Ruined Boarding-Housekeeper" writes: "I was getting on nicely until someone sent one of my boarders a case of Jenkinson's Bathurst sauce. From that time I date my downfall. They ate me out of house and home, and I believe they would have eaten me, too, if the time-payment man hadn't seized all my furniture. I couldn't pay the butcher and him too. I must marry again. A bad man is Jenkinson.—Emilia Stavvein."

With the Optimist

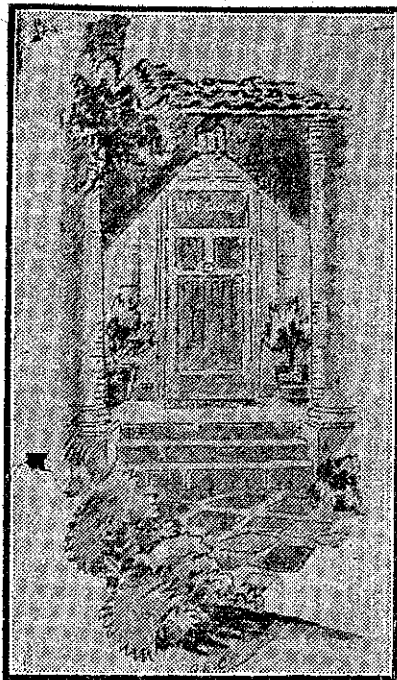
"My wife has eloped with my best friend."

"Who is he?"

"Dunno; never met him."

Mrs. Brown: Your husband always dresses so quietly.

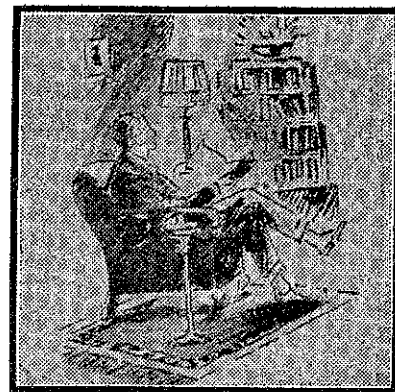
Mrs. Jones: Does he? You ought to hear him when he loses his collar stud.



The Art of

CHANGING HOUSES for HOMES

E. R. BADGERY-PARKER describes
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OME . . . The Mecca of the wanderer. Probably there is no word which conveys so much meaning. The happiest days of our lives are intimately associated with it.

The aspirations of most young lovers are centred in it. Be it the cottage or the mansion—because it is ours we invest it with an atmosphere peculiarly intimate. Apart from sentiment, home spells the practical embodiment of our personality and we utilise various material aids for the expression of our ideas.

While it would be an exaggeration to say that light was the greatest force in our homes, nevertheless its influence in home making is tremendous. After the labour of the day, there is something comforting in the knowledge that we are going home.

APPROACHING the garden gate a welcome glow greets you on your return. Alas! How few homes extend such a welcome! Apart from the psychological effect, there is a practical advantage in having a light over the garden gate and over the threshold. Consider also the advantages to your visitors—no tripping over garden-beds or “ladders” in silken hose through contact with your favourite rose bush, no ghostly candle guttering in the wind as guests are escorted to the gate.

Scientific research shows that grumpiness and irritability are generally the effect of environment. When, for no apparent reason, everything seems wrong, it is safe to say that in the majority of cases the causes can be traced to poor lighting.

We must be careful to let no gloomy shadows intrude on the meal table.

There is something wholesome and inviting where the white napery, shining cutlery and glistening crystal is effectively lighted. Light brings brightness and gaiety and happiness. Brightness must not be glaring. Use a central opal lamp of 100 watts, or preferably a clear gas-filled lamp totally enclosed in a three-ply glass luminaire which not only gives a correctly diffused light, but adds distinction and attraction to the ensemble.

IN that domestic workshop—the kitchen—the best plan is to use a central lighting unit enclosing either a daylight blue or an inside frosted lamp of about 75 watts. A 40 watt inside frosted lamp in a bracket over the sink, and where possible, over the cooking range also are desirable additions.

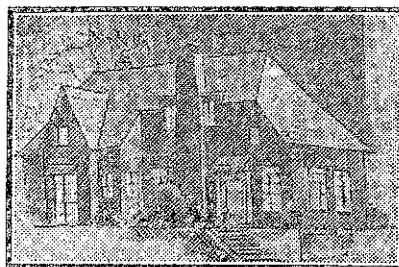
However luxurious the lounge may be, it is not a “place to stay in” unless the lighting has received special attention. Besides central Luminaire enclosing a lamp of 100 watts, wall brackets and standard lamps are essential. It is hard to imagine a more satisfactory condition than to be comfortably seated with the evening paper, a standard lamp at your elbow providing a 25 watt light and leaving the rest of the room but dimly lighted.

With the central light switched off you will have accomplished a saving of 75 per cent. of the current consumption. The use of wall brackets and standards provides considerable scope for artistic home decoration. The fashion of using small strip lights above or below pictures is becoming increasingly popular on the Continent, and it is an idea which lends itself to adoption in this country. Delightful effects may be obtained by using strip-

lights in concealed positions, the light being projected on to the object to be illuminated.

PASSAGES and verandas can be made attractive by the liberal use of inside frosted lamps. In the nursery, sick room, hall, etc., lamps of two filaments should be used. Such lamps give normal lighting of 25 watts, but are fitted with cord attached to a switch in the cap which enables the light to be reduced to 4 watts. A lamp of this type takes 250 hours to consume only one unit of current!

In this country it is the practice to include the boudoir with the bedroom.



AFTER the labour of the day there is something comforting in the knowledge that we are going home.

In fact, the modern flapper considers the bedroom as a place more intimately associated with hair waving and “make-up.” How do we know? We’re only guessing, but from the many beautiful girls we see in the early morning it is certain that trams and buses are by no means the only places where beauty aids are applied.

On either side of the dressing table, small brackets should be erected, fitted with 40 watt opal lamps. These give a clear soft light, ideal for lighting the mysteries of milady’s toilette.

Another Continental practice is the use of 25 watt lamps for wardrobe lighting. By means of a simple arrangement the lamp is automatically switched on or off by the opening or closing of the door. You will readily perceive the advantage of having a wardrobe light—no rummaging for dresses which must not be crushed or rumpled.

“AND so to bed.” Grandmothers and maiden aunts will tell you that it is very wrong to read in bed; and though, of course, they may be more or less correct, in our opinion, bed is quite the best place in which to read.

In that half-hour when you are waiting for the god Morpheus, a chapter from your favourite author is very hard to forgo. To aid you in this wicked purpose, we would suggest either a small standard lamp for your bedside table or bracket lamps fitted immediately over the head of the bed. 40 watt argenta lamps will provide ideal lighting for this purpose. See that the electrician places the switch within easy reach—it is an awful thing to have to get up on a winter’s night to switch off the light.

It is rather surprising to find how many lighting points are needed in the home and almost we hear you say, “it would cost far too much to have so many points installed.” However, it is well to consider the advantages from both the better lighting and also the economy possible through being unable to switch off the central lighting units and use lamps of lower wattage, each for its special purpose.

While writing on the subject of lamps—it is not generally known that
(Concluded on page 28.)

Hints on Choosing a Range

Electricity for Ease Economy and Efficiency

"The measure of choosing well is whether a man likes what he has chosen."—Lamb.

Says Johnson: "No money is better spent than what is laid out for domestic satisfaction." Money spent on an electric range, chosen with due regard to the amount of cooking it will be required to do, the space and place it is to occupy, enables the mother of the family to do better, more healthful cooking, under better conditions; to spend more time with her family, to be something more than "housewife"; gives her time for friendship, time to live.

is known as a cabinet or table model. The extra cost spread over the number of years that the range will be in use is infinitesimal, whereas the comfort of working at a convenient height, with no stooping or stretching, will be even more appreciated as the years roll on. In this connection, too, it should be noticed that there is a proper height for the working surface for each person, and it is as follows:—

| | |
|------------------------|------------|
| 27 inches for a worker | 4ft. 10in. |
| 28 " " " " | 5 " 0 " |
| 29 " " " " | 5 " 2 " |
| 30 " " " " | 5 " 4 " |
| 31 " " " " | 5 " 6 " |

Ranges, as a rule, come with the cooking surface about 30 or 31 inches high, but height can easily and should be adjusted when the range is installed.

POSITION is important, and one should be chosen that will be convenient for the operator, having due regard to other kitchen fittings, such as table, sink, etc., and perhaps, most important of all, light. Cabinet models are supplied with ovens at either the right or left-hand side, so that there is no occasion to work in a bad light.

Where it is likely that many plates and dishes will require warming, or meals to be kept hot, a warming oven, which functions on a low temperature, is a desirable addition.

Whether the range selected is a cabinet model or the type with the oven beneath, care should be taken to see that the range stands absolutely true and level to ensure cakes, sponges, puddings, etc., rising evenly, and a spirit level should be used for the purpose when the range is put in.

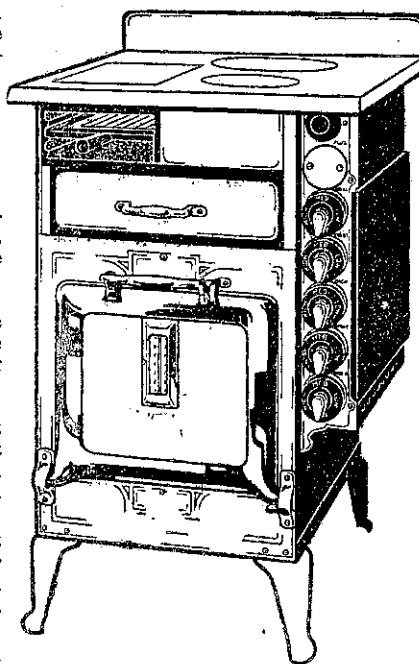
More Leisure Secured.

AUTOMATIC control enables an entire dinner to be put in the oven, dessert and all, and once the time and temperature has been set, the cook can leave the kitchen—the house, if she likes, for all day. The oven will turn itself on at the time for which it has been set, maintain the desired temperature throughout the cooking, turn itself off at the proper time, and keep the food piping hot until the household is ready for it.

Boiling ring elements are of two types, viz., open, which are faster, easier to repair, and, with reasonable care, give quite good service; and iron-clad, which are slower to heat up, but which retain heat longer, are more durable, and are practically trouble-proof in any hands. Probably, the

ideal arrangement, where three boiling units are being considered, is one open and two iron-clad.

It is not necessary to say that ovens should be seamless, both they and cooking-tops should be of porcelain enamel, with no corners to hold grease



or dirt; that elements, shelves, and racks should be easily detachable; that thermometers and heat-indicators should be reliable and placed where they can be read easily, because it will be found that all the leading makers have paid special attention to such points as these, and few of the better makes have anything left out that the heart of woman can desire. Oven doors are strong, made to open downwards, resting on well-cushioned springs, providing a shelf when required.

Redecorate the Kitchen.

WHEN the electric range is chosen is the time to have the kitchen redecorated. Remember that, in future, there will be no need to choose paper, paint, and curtains that "does not show the dirt," because there will be no fumes, smoke, or ashes to spoil anything. Walls can be papered, colour-washed, or painted in any fresh delicate shades preferred, woodwork can match or harmonise, curtains can be light, pretty, and dainty; and, best of all, at a slight extra cost, the electric

range itself can be bought enamelled in two or more colours to tone.

By the peculiar irony of fate, when you find that you can with safety leave the cooking to practically do itself, so attractive will the domestic workshop have become that you will wish to spend more time than ever there, having exchanged unpleasant drudgery in an overheated atmosphere, for cool, comfortable, and profitable occupation, every minute of which can be enjoyed.

Household Hints

Some Useful Ideas

AN electrically-controlled clock, that costs no more than an ordinary timepiece, can be installed in any room of your home and will ensure you always having the right time, without occasion to wind the clock or give it any other attention.

IF you have a piece of silk about eight inches wide sewn from seam to seam inside the knees of trousers, less pressing will be needed to keep that neat crease. The silk takes the strain at the knees and prevents them from bagging.

A SMALL motor attached to your sewing machine, be it hand or treadle, makes short work of long seams or a day's sewing, and eliminates the fatigue incidental to pedalling or turning. Further, if your husband is a handy man, he should be able to attach a buffer to the motor for cleaning silver, or the egg beater for whisking eggs or beating batter. Get one and see.

NO hair can be beautiful, if the scalp is affected with dandruff, and as women seem inclined to grow their hair again and so increase their crowning glory, it is well to know that a solution of a tablespoonful of common salt dissolved in a pint of tepid water, rubbed into the scalp with the aid of a tooth or nail brush, will be found most efficacious. Sage tea, made by pouring boiling water over a handful of sage leaves, and applied when cold to the scalp, will restore the original colour to hair which is going grey prematurely.

AN electric fan will do several odd jobs for you besides keeping your rooms cool and fresh on hot and sultry days. It will air clothes that have just been ironed or just come back from the laundry, dry your hair perfectly after a shampoo, and ventilate a wardrobe that has acquired that musty and shut-up atmosphere.

ARE you one of those who are making use of this column and its writer for personal help, advice and inquiries? If not, why not?

GRATED potato and soft water will clean delicate silk articles better than any other preparation. Grate a large potato into a quart of water a day or two before required. Use only the clear part of the water.

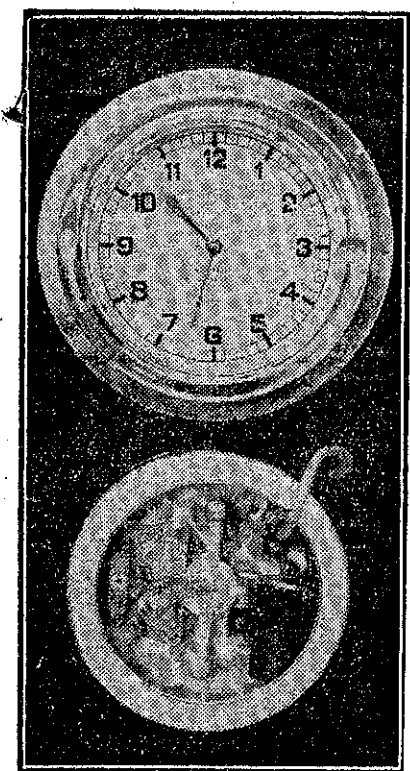


HAT electric cooking is clean, safe, and convenient is now generally recognised. It is the ideal heat to be associated with food, pure, clean and wholesome, giving off no fumes, no soot to discolour utensils, walls, ceilings, or curtains. It is economical, too, for it permits the retention of all the valuable food elements, and with control of time and temperature control, both time and effort are reduced.

It is, however, when one comes to actually choose a range, that the multiplicity of choice is found to be not only marvellous, but somewhat dismaying, so that it may be well to discuss a few points in advance.

THERE are sizes for every purpose, and the first important point to decide is for what size of household the cooker is to provide. The standard size of three boiling rings with an oven measuring approximately 16 x 16 x 15 inches will do all the cooking required for a family of eight people; indeed, with good management, the three boiling rings will sel-

dom be in use at one and the same time—at any rate for any length of time.



A photograph of an electrical clock. These are commonly used by totalisator officials at race meetings throughout New Zealand for ascertaining accurate track timings.

dom be in use at one and the same time—at any rate for any length of time.

Set the Right Height.

NO matter what style you choose, an electric range will give you lasting satisfaction, and in view of its lasting qualities, it is strongly advisable where space permits to invest in what

HOME-CRAFT

GLEANINGS

By "GADABOUT"

Enough, Too!

"SAVOIR-FAIRE" tells me that one competitor in the "Trials-in-Tact" competition states that "if my husband had recently provided me with an electric washing machine, vacuum cleaner, electric refrigerator, or any other such article, I might here find the solution of Mrs. B.'s changed attitude." 'Nuff said, and husbands please note!

Try It

THE pads of metal wool, sold for cleaning pans, etc., will also scrape potatoes, carrots, etc., in half the time and with a quarter of the effort. Keep one for the purpose.

Automatic Ventilation

A NEW automatic ventilator has been placed on the market. It is contained in a neat little cabinet, and by simply opening the glass panelled door the ventilator is set in motion; by closing it, it stops. It should prove valuable in introducing fresh air throughout the house, and ridding the atmosphere of cooking odours.

Shrinking New Flannel

HAVE you ever heard of the man's red flannel vest, that shrunk so continually at each successive wash that he finally presented it to his wife, who wore it for a red coral necklace? To prevent such catastrophes, new flannel should always be shrunk before it is made up. Not only is the grease contained in the wool extracted, thus enabling the garment to be cut out more easily, but once made up it will retain its original size and shape until the days of its usefulness over. It reaches the emergency box to be cut into bands or dusters. Make two strong soap lathers, in separate bowls, using water as hot as the hand can bear. Immerse the flannel in the first bowl and wash it well. Pass it on to the second bowl, and after it has been well soaked, rinse it in warm water to which just enough soap has been added to give the water a bluish tinge. To this water should be added a very little blue. Wring and shake the flannel well, and while it is drying, shake, stretch, and turn it well. When thoroughly dry, beat and stretch it well between the hands and roll it up tightly until it is required for cutting out.

Two-in-One

HAVE you seen the electric irons, sold for travelling, which will work from any voltage? They are sold with a stand, on to which the iron fits upside-down, when the han-

dle, which is detachable, has been removed, and it will then warm any liquid in a little pan, or heat curling irons.

Helping the Invalid

TO save an invalid that irritating, helpless feeling, when taking meals in bed, it is a good plan, if serving a poached egg, to cut the toast in small sections, before placing the egg on top. It will be found much easier to manage.

applying current to the jug, whilst the proper lid is off. These jugs are the quickest means we have of obtaining boiling water, bringing 3½ pints to boiling point in as many minutes.

Worth the Time

A TUBE of artist's flake white oil paint is an excellent cement for china or earthenware. Squeeze out a little of the paint along the edges to be mended, press them together, and bind around if possible. Place the

young man, and that if he is adverse to the study of mathematics, as he says he is, he more than makes up for it by his interest in history. His pen-pictures of prominent English statesmen are graphic.

A Useful Novelty

GLOVE-DRYING frames in the form of wooden hands can be bought quite cheaply, and save shrinking, stretching and pulling into shape after washing.

And Another

A STANDARD electric lamp now on sale, unscrews in the middle, allowing a small, round table to be fixed between the two pieces, before it is screwed up again, making a convenient rest for book, glass, cup of coffee, or cigarettes.

Autumn Wear

THE new tweed coats and skirts for autumn wear are very attractive. The skirts are what look to unaccustomed eyes, quite high-waisted, and quite cover the knees. The so-called three-quarter coats are more like five-eighths, reaching nearly to the hem of the skirt.

Those Taps!

IF you dislike polishing them, and most of us do, and still more dislike their dull, sulky look when you neglect them, get a small quantity of brass lacquer from the oilman, and after giving them one really good polish, paint them lightly with the lacquer, and they will remain bright with a light rub from a duster for weeks and weeks.

Shoe Linings

THE life of an otherwise good pair of shoes is often shortened on account of the lining becoming torn. If found in time, such a tear can be effectually mended with a small strip of adhesive tape. A patch will last for many weeks, and can be renewed when required.

For the Book-shelf

NORMAN EDWARDS presents to us the view of youth on all things past and present under the title of "Through a Young Man's Eyes," and a very readable and interesting book it is. At the same time, we feel that he is something more than the ordinary

Mere Man Once More

IF you find yourself short of a collar-button in an emergency, and have an ordinary brass paper-fastener handy, press that into the service—and also through the collar and shirt-holes from the inside, and then bend the little legs back flat. Such a fastener will also serve as an emergency cuff button.

... The Open Road ...

*White and straight is the road that runs
Over the blue hills far away.
Over the hills where the sun rides up
In golden glory at break of day.*

*The Open Road with its lure of miles,
That call and beckon the traveller on,
Like siren voices in Southern Seas;
Haste, oh haste, ere the day be gone.*

*Haste to the lure of "far beyond,"
Rich in its promise of things unseen,
Mountain and river, dale and glen,
Open moorland and rushing stream.*

*Hark to the voice of the Open Road;
Murmur of winds on the tree-clad hill;
Whisper of leaves and song of birds,
Distant music of flowing rill.*

*Hearken! and answer the magic call,
Gossamer veils the distant bourne.
Who can resist the wide appeal
Of the Open Road on a summer morn!*

—Hubert Turner, in "The Morris Owner."

Fool-Proof

THE newest jugs for boiling water are so designed as to make it impossible to pour while the current is on. This is a great safety-feature, as, if the user neglects to turn off the switch, the process of removing the lid automatically disconnects the current at the jug itself. Another safety guard is that the connector pins are set too wide apart for any other connector to fit, thus preventing anyone

mended object where it will not be disturbed for six weeks, when it will withstand boiling water and daily use.

WIN - A WASHING MACHINE

*With
Seven
little
Reasons*

RULES and CONDITIONS

The Problem is: "Why I Would Like an Electric Washer in My Home."

- (1) Give 7 reasons, sentences or points, using for each one not more than 12 words, in answer to the above problem.
- (2) Write neatly in ink; number the sentences; put name and address at bottom of entry.
- (3) The judge of the competition is the Managing Editor of both papers concerned, A. J. Heighway, and his decision shall be binding and final on all competitors.
- (4) Award will be made on the human value and merit of the reasons given, and not merely on literary expression or verbal cleverness thereof.
- (5) The competition is open to general readers of both papers; employees of newspapers, advertising agencies, and electrical houses are ineligible.
- (6) The official entry coupon, as published in either the "New Zealand Dairy Exporter" of February 20 and March 20, and the "Radio Record" between the dates of February 20 and April 4, 1930, must be used in forwarding entry, together with the entrance fee of 1/- postal note.
- (7) The competition definitely closes with the clearance of P.O. Box 1032, Wellington, at 9 p.m. on Saturday, April 12, and the award will be made as soon as possible thereafter.
- (8) The winner's full name and address, and the winning entry, will be published in both papers, together with the names and addresses of the winners of the 15 consolation prizes.
- (9) The winner must select, within one month of the award being made, the prize from those washing machines which have been advertised in the columns of either paper during the currency of this competition.
- (10) There is no limitation upon the number of entries by any one competitor, provided the official coupon and entrance fee are forwarded in each case.

DO IT ELECTRICALLY!
A Washing Machine for You.
SEND ENTRIES TO
"WASHER"
P.O. BOX 1032
WELLINGTON



IN order to stimulate interest in the comfort, convenience and labour-saving possibilities of electricity in the home, the "New Zealand Dairy Exporter" and "Radio Record" newspapers combined offer as a prize for his or her skill one Electric Washing Machine (to be selected as stated in the conditions), to that person who, in the opinion of the judge, sets out in seven (7) sentences, each of not more than 12 words in length, the seven (7) best points in answer to the question: "Why I Would Like an Electric Washer in my Home." To the five (5) next best entries, orders for One Pound (£1) each will be given, redeemable for a One Pound rebate in the purchase of any electrical apparatus anywhere in New Zealand, and ten (10) cash prizes of 10/- each.

The official entry coupon from either paper must be used in making entry. Employees of newspaper staffs, advertising agencies, and electrical houses are not eligible. The competition closes at 9 p.m. on April 12, 1930. Send entries on official coupon, with specified entry fee, to "Washer," P.O. Box 1032, Wellington.

A. J. HEIGHWAY,
Managing Editor,
"Radio Record."

I enclose my entry for the Washing Machine Competition and I agree to accept your decision as final.

Name

Address

The HOME KITCHEN

By "ELECTRA"

All-oven Dinners

Roast Lamb.
Baked Parsnips. Roast Potatoes.
Baked Custard.
Apples-en-Casserole.

Peel the potatoes, scrape the parsnips, cut both in halves lengthwise, and put in meat tin about half to three-quarter hour before meat will be ready. Peel and core apples, bake in casserole with a little water and some sugar. Bake custard gently in pie-dish.

Hamburg Steak.
Fried Potatoes.
Fruit Pie.

Bake fruit pie first, then put in Hamburg steak, and finally fry potatoes in baking-tin on bottom element of oven. For Hamburg steak finely chop 1½ lb. of raw fresh meat, add two cups of bread, soaked in milk, one small minced onion, salt, pepper and ginger to taste, and two eggs; then roll the mass into a square. Take four hard-boiled eggs, arrange them end to end across the middle of the meat, and roll the latter about them. Place the roll in a baking pan, pour over it a sauce composed of tomatoes, onions, a large piece of butter and a little water, and bake in a moderate oven. Slice the roll crosswise for serving.

Swiss Steak en Casserole.
Mashed Potatoes.
Lemon Pudding.

First prepare the potatoes, place them in a little water, to steam in a covered bowl in the oven, while the rest of the meal is being prepared. When they are cooked, they can be nicely mashed, with a little milk, butter, pepper and salt, and put back into the oven to brown over.

For the Swiss steak, take 2lb. cut 1½ inches thick, and pound it into quarter cup of flour or as much as it will take. Pre-heat the oven to a fair degree, put casserole into oven to heat, and underneath the upper element place a pie-pan containing about 3 tablespoons of bacon fat. When hot, add the steak, turn and brown as in broiling, then put into heated casserole, add salt and pepper, a small onion sliced very thinly, a cup of boiling water, and, if possible, a green pepper chopped fine. Turn upper element to "off," and cover casserole tightly; lower element to "medium" for one hour, and "off" for one hour.

For lemon pudding, cream together 3oz. of castor sugar and the yolks of two eggs until thick and white, and the juice of two lemons, the rinds grated, a gill of cream or milk, a few cake crumbs, and lastly, the stiffly-whisked whites of the eggs. Have ready a pie-dish lined with paste, pour in the preparation, and bake in a moderate oven for about half an hour, or until set.

All Cooked-on-Top Dinners

Fish Pudding.
Boiled Corned Beef. Dumplings and Vegetables.
Aunt Margaret's Pudding.

For the fish pudding, free one pound of any white fish from skin and bone, and pound it well with four ounces of finely chopped suet. Add two ounces of breadcrumbs, a teaspoon of finely-chopped parsley, salt, pepper, and a few drops of anchovy essence, and mix well. Add to a quarter pint of milk or fish stock two slightly beaten eggs, and stir into the mixture. Steam for an hour or more in a basin, covered with a greased paper, and serve with anchovy sauce.

Cook the beef and dumplings and vegetables all together in the boiler of the steamer, adding them at the proper time to allow them to cook by the time the meat is ready.

Aunt Margaret pudding turns out like a delicious, fluffy sponge. For it, mix ½ lb. flour with 2oz. of butter, add a little castor sugar and one egg well beaten, and enough milk to make a thick batter. Beat well, and then turn into a greased basin, at the bottom of which you have placed a few spoonfuls of jam. Don't omit, as I was forgetting to mention, a teaspoonful of baking powder. This pudding rises well, so the basin should not be more than three-quarters full.

Steak and Kidney Pudding.
Cauliflower and Potatoes.
Cabinet Pudding.

Start the steak-and-kidney pudding to cook in the boiler of the steamer. Then, when it is time to put on the cauliflower and potatoes, move the pudding to the first tier of steamer to finish, and cook the vegetables together in the section from which you have taken the pudding.

Steam the cabinet pudding in the top section for about an hour, making it as follows:—Have ready a well-greased basin, decorate it with raisins, and line it with strips of bread one inch wide, stale cake or finger biscuits. Cut all the trimmings into small pieces, put them into the basin, and pour over a custard made by beating one egg, a tablespoon of sugar, about a pint of milk, and a few drops of flavouring essence, stirring until the sugar is dissolved.

Boiled Ham or Bacon.
Green Peas and Potatoes.
Ginger Pudding.

Boil the ham or bacon in the usual way in the bottom section of the steamer, steam the potatoes in the first tier. The peas can be placed around the basin, which contains the ginger pudding in the top tier.

Readers of the "Radio Record and Electric Home Journal" who have cooking difficulties or require help with recipes for electric cooking, or desire special hints in connection with their electric ranges, may write to "Electra," P.O. Box 1032, Wellington. Replies will be published either in these columns or in urgent cases sent direct, provided a stamped addressed envelope is enclosed.

How to Save Electricity

All-oven and All-steamed Dinners

IN all talks on electrical cookery, a point is made, and rightly so, of the economy or saving in the actual current consumed, that can be effected if a little thought and common-sense is brought to bear on the subject. We all know women, who spend less than half on their clothes and personal adornment than their less thoughtful sisters, and yet manage to obtain better results; and exactly the same thing applies to cooking by electricity.

Once it is realised that practically the only time that the top and bottom elements of the oven are working at "high" together, is when the oven is being pre-heated, it will also be realised how immense the saving in current will be, if as much cooking as possible is done at one time, to avoid the expense of again pre-heating, to cook what in many cases could have been done at the same time, if prepared.

To start in a small way, to make toast, turn top oven element to "high," place as many pieces of bread as required on the grilling pan (which is the only one that touches all sides of the oven, and should be left in for no other purpose), put on top shelf below element, leave oven door slightly open, and turn slices of bread when ready. When both sides are toasted, put bacon or bacon and eggs in on the same pan, shut the oven door, turn off the current, and they will be found perfectly cooked in a few minutes. This avoids heating a unit on the top of the range to fry the eggs and bacon.

A little experience will enable you to so time vegetables on the boiling ring that once they have come to the boil the switch can always be turned to "low" and in many cases "off," when they will finish cooking on stored heat.

To Cook the Dinner.

IT is a good plan, when a roast dinner is to be cooked, to start in good time, pre-heat the oven to between 450 and 500 degrees Fahrenheit, and first bake any pastry or scones that may be

Ginger pudding: Mix together 6oz. of flour, 3oz. finely-chopped suet, half a teaspoon of baking-powder, and a pinch of salt. Stir in 6oz. of golden syrup, half a gill of milk, and half a teaspoonful of ground ginger. Turn into a well-greased basin, covered with greased paper, and steam for about two hours. Serve with warm treacle, custard or cornflour sauce.

required. When these are cooked there will be sufficient heat, with the current turned right off, to cook scones, short-bread, or biscuits; and on removing them the oven will still be found quite hot enough to put in a roast. Meringues will cook with the oven temperature at 250 degrees and both elements "off."

For casserole cooking (so delicious and so nourishing, because all the juices and mineral salts are conserved), the casserole can be placed in a cold oven, with the lower element only on. Heat to about 350 or 400, or until the contents of the casserole begin to bubble, depending on the size of the dish, and then turn the element right off and cook entirely on stored heat. Care



The end of a pleasant evening ~

Is always marked by a cosy little supper. Next evening YOU have, serve dainty golden brown cakes and scones of your own baking. A few spoonfuls of—

ANCHOR SKIM MILK POWDER

added while you are mixing them and you'll be ever so proud of the result. More delicious—better appearance—and they keep fresh for DAYS longer.

Price 1/2 per Tin
Your Grocer can supply.

Free Recipe Folder of Tested Recipes—write "Anchor," Box 821, Auckland.

Trials in Tact

or

What Would You Do?

(Conducted by Savoir-Faire)

UNDER this heading, an every-day problem will be set week by week, and readers are invited to send in their solutions, for which marks will be awarded. Prizes are offered to those obtaining the most marks over a series of ten. First prize, £2/2/-; second prize, £1/1/-; and third prize, 10/6 for each series.

Competitors may send in their own problems for publication and solution and a prize of 10/6 will be given for the best one sent in during each series, and 5/- for each contributed problem used.

Problem No. 4.

1st Series.

Miss A. has been numbering among her friends a young man, Mr. B., whom she sees frequently, and who has always been most popular with the younger set.

Through an accident, it comes to the knowledge of Mrs. C. (the mother of Miss A.'s girl friend) of some unseemly behaviour on the part of Mr. B.

Mrs. C. has been fond of Mr. B. for some years, and for the sake of his future and her esteem for his parents, she decides to keep the matter as private as possible, consulting a gentleman of high repute on the matter, who points out to Mr. B. the seriousness of his offences and strongly warns him against any recurrences. At the same time, she feels it her duty to warn her daughter and Miss A. against Mr. B.

How then should Miss A. behave when she next meets Mr. B., as she is doubtful if he is aware of her knowledge?

Suggested by "Ginger."

Problem No. 5.

1st Series.

Mr. A. and Miss B. are at a shop counter, collecting their change. Mr. A. drops several coins, and while he is looking for them Miss C. enters the shop, and seeing a half-crown on the floor at the feet of Miss B., who is standing near the counter, "fiddling" in her bag, picks up the coin, and, thinking Miss B. has dropped it, offers it to her. Miss B., being unscrupulous, takes it.

The girl behind the counter, Miss D., witnesses everything, and knows that Miss B. is perfectly aware that the half-crown belongs to Mr. A. What should Miss D. do or say?

Suggested by Miss R. Baker.

A non-de-plume may be used, but names and addresses must be sent. The same non-de-plume must be retained throughout the series. All replies must bear a postmark dated not later than the Thursday after the date of the journal in which the problem appears, and should be addressed to "Savoir-Faire," "Radio Record and Electric Home Journal," P.O. Box 1032, Wellington.

Savoir-Faire's decision must in every case be accepted as final.

Notes

Jean, Te Puke, and Mary.—I much regret that your solutions to Problem No. 2 were too late to be included—postmarked the 14th—but carry on. You will probably catch up during the series.

Miss Rhoda Green.—Thank you for your letter. The matter is quite in order. I realised that you are one and the same.

Solution of Problem No. 2

Miss A. has, of course, put herself in the wrong by giving Mrs. B. a false excuse. Had she been unwilling to give the real one, she should have contented herself with saying that she was unable to accept for that evening. I do not agree with those correspondents who suggest that Miss A. should ignore Mrs. B.'s presence in the theatre. There is always the possibility that Mrs. B. may lean over and inquire after Miss A.'s health. I am of the same opinion as Miss N. Johnston, that "attack is the best defence." Further, I think Mrs. B. is entitled to an explanation, as she will probably feel wounded. On the other hand, there is no occasion to make a lot of the matter, and a fuss about the invitation would probably be distasteful to Mrs. B.

I think the right course for Miss A. to adopt is to turn to Mrs. B. at once, say how sorry she was to feel obliged to decline the invitation, and explain that after a rest she felt so much better that, when Mr. C. afterwards asked her to go to the pictures, she accepted as she thought the outing would do her good, as suggested by "Apple Pies Mary" and many others.

Marks for Problem 3 are as follows:—

A trier, 4; Absolve Meam Animam, 0; Anon, 4; Apple Pie Mary, 5; Bonza, 3; Miss Rachel Baker, 0; Clara, 3; Duplex, 5; Deerfoot, 5; Equity, 4; Fiat Pax, 3; Frances, 3; Miss Rhoda Green, 5; Grace, 4; Ginger, 3; Haven, 4; Irene, 2; Miss N. Johnston, 5; Jonquil, 2; Kummel, 3; Listener-in, 1; Lucid, 3; Mrs. Mason, 5; Myra, 3; Mayflower, 4; Michael, 5; Natural, 4; Nomen, 2; Nintz, 0; Olivia, 3; Priscilla, 5; Pumpkin, 3; Patience, 2; Query, 3; Radex, 3; Radio, 4; Rosa, 4; Senga, 5; Seylla, 3; Summit, 2; Thames, 3; Tuner, 0; Topaz, 2; Undine, 0; Viola, 2; Verity, 0; V.L.A., 5; Wynward, 2; Weaver, 0; Xylonite, 3; Xerxes, 0; Yum-yum, 4; Zenobia, 3.

Are They Real?

Tests for Gems

WHEN an artificial jewel is examined under a powerful magnifying glass, it will generally be found to contain a number of minute vesicles, produced by the bubbles of air entangled in the liquid glass while the gem was being made. This is at once a proof of the nature of the jewel in which they are found, nothing of the kind being present in the real gem.

Another method of distinguishing artificial from real gems, is that the glass of which they are formed is considerably softer than a true jewel, and readily admits of being scratched by an onyx, or fine quartz sand.

Artificial gems can also be distinguished by their power of conducting heat being much inferior to that of a real gem. For, when a false jewel is breathed on, the moisture condensed from the breath will remain much longer than would happen in the case of a real jewel. So, also, when an imitation gem is placed in contact with the warm skin, it will cease to produce a feeling of coldness sooner than a real jewel.

Real gems may sometimes be found to be phosphorescent; that is to say, when they are long exposed to the sunshine, they will afterwards give out a certain amount of light if placed in a dark room. This is especially the case with the diamond. Now, as the property of being phosphorescent in the dark is not possessed by paste, it proves that the jewel that does shine in the dark is a real one.

The nature of jewels may also be learnt by rubbing them on a piece of warm silk, so as to render them sufficiently electrified to attract small feathers and similar objects. In the case of false gems, they will be found to retain the electricity for only from half-an-hour to an hour; while the true jewels continue to exert the power of attraction they have thus acquired from a quarter of a day to a day and a half.

In Lighter Vein

Teacher: "What is your father's occupation, Ida?"

Ida: "He's a worm imitator."

"And what is that?"

"He bores holes in furniture for an antique dealer."

"I had a great game to-day, dear," commenced Mrs. Tryhorn, on her return from golf. "Mrs. Golt was there, and during a mixed foursome, drove the ball into a horse's nosebag."

"Indeed," replied her husband, "I bet she received a lot of chaff!"

The audience was intently watching the emotional drama, and the heroine was tearfully deploring the announcement that her soldier lover had been sentenced to death.

"Oh, what is there left for me now?" she cried in anguish. "What is there left for me now?"

"Ice cream, cigarettes, ginger ale, peanuts, and lollies!" came the startling cry from the vendor in the gallery, who had forgotten that the curtain was still up.

should be taken not to open the oven door once the current has been turned off. The meal will be found ready in about three hours, and will be none the worse for being left longer. All that will be necessary will be to turn on the lower element for a few minutes. Covered roasting pans, too, are excellent.

RICE puddings and custards can be cooked in the same way as casserole cooking, the only difference being that, of course, the custard must not be allowed to boil, or it will curdle, and both should be removed when cooked. These dishes, too, can often be cooked after a roast dinner has been removed from the oven, and warmed up for a future occasion, if required.

It Pays to Plan Ahead.

A LITTLE forethought in planning the menu will enable the whole dinner to be cooked in the oven; or again an entire dinner on one boiling unit, with the aid of a three-tiered steamer, thus avoiding using both oven and rings for the same meal.

Nearly all ovens are large enough to take a roast, vegetables-en-casserole, and a pudding.

Where only one shelf is being used at a time, always place it below the middle of the oven; scones, meat, and the like, about three rings up, and large cakes, tarts, and biscuits just below the middle.

Most books advise that all baking be done after pre-heating, with the top element "off" and the bottom at "low," but in practice it is often found more satisfactory to keep the top at "low" for the purpose of browning scones, pies, and so on. This method should not be followed for cakes, however, or they bake too quickly at the top and do not rise properly. Cakes being cooked on stored heat should be placed in tins on the scone tray, quite near the bottom of the oven, to assist the browning and cooking of the cakes underneath.

More Good Hints.

FRYING, also, can be carried out most satisfactorily on the lower element in the oven, if shelves and slides are first removed, thus saving unpleasant splashes on top of the range. Use a baking tin, and, of course, make certain that the fat is really hot and giving off the characteristic blue vapour before the food is put in.

A unit which is still warm naturally heats up more quickly than one which is cold, so that it is well to take advantage of a partly-heated one, when starting a fresh cooking operation. It often makes for economy, too, when using more than one boiling unit, to use the higher-powered one to bring pans to the boil, then move it to a lower-powered one, reserving the larger, heated one to start the second pan.

Leave the oven-door open, when cooking is finished, to allow any steam to escape, and brush out any crumbs that may have fallen from cakes or pastry. All cooking operations leave a certain amount of moisture, and both sides and shelves require cleaning occasionally. A clean oven radiates more heat. Shelves should be taken out, washed with soap and water (a little sand-soap if very greasy or gravy has been spilled), the sides of the oven treated in the same way, and shelves replaced. It is a very simple operation, and one that can be accomplished in a very few minutes.

With GRAMOPHONE and RADIO

By "B NATURAL"

Do Pick-ups Ruin Records?

NOT a few gramophone enthusiasts have been turned away from their decision to install an electric gramophone or combination by the very unwise remarks that the pick-up is hard on the records. This statement probably emanates because the pick-up if not properly adjusted will certainly damage the record considerably, but this can be said of the mechanical sound-box, only most gramophone enthusiasts have the common sense to leave this alone, whereas the pick-up is usually regarded as an instrument that can be put on by anybody without any need to read instructions and can be operated without due care and without changing the needles regularly.

There are two forms of wear that take place on a gramophone record. One is due to the direct friction of the needle on the walls and the base of the groove, and the other is due to the pressure between the needle and the record. The latter can be reduced by using a counter-balanced sound-box or pick-up, but its use is not conducive to obtaining the finest tone. The effective weight under no circumstances must be less than 4ozs. nor greater than 6½ozs.

It is not difficult to see that wear due to the pressure of the needle against the sides of the groove will take place at a more rapid rate where heavy modulation of the record occurs. Look for a moment at the diagrams (fig. 1) depicting a record before and after it has been played. The steep rise in the centre of the middle groove is a deeply modulated portion, and the needle in following this tract tends to "cut the corners" with the result that there is greater wear at this point. The grooves are very small in comparison with the needle (see fig. 2), and the sole cause of the musical reproduction is the movement imparted to this relatively clumsy needles by the fine grooves. In the mechanical sound-box, the needle has a greater mass to move. The diaphragm is relatively large and stiff. This means that the more deeply modulated parts must have a considerable strain in order to move the diaphragm to accommodate them. With the pick-up, however, the moving parts are reduced to a minimum; merely a small bar between two magnets. This small movement as we have explained before is amplified by the power amplifier in the radio set or gramophone.

Gramophone designers aim to keep the wear of the record on the bottom of the groove where it will not affect

the tonal qualities, and this can be brought about by only the use of a well-designed pick-up and well-chosen needle. In our previous article we discussed needles and explained how a needle that had been used has a broader surface and could not penetrate deeply into the groove, and consequently wore away its sides, shortening considerably the life of the record. It is necessary then to use with the pick-up the finest needle possible, so that they may rest on the bottom of the record and not on the sides of the

inary sound-box has been used, it will be noticed that the needle in its path from the left to the right of the photograph has done everything possible to avoid going round the corners. It has ridden up the sides of the grooves, and in some places right over the top before slipping back into its somewhat erratic path. The corners have been deformed in one case, a corner has been made sharper, while in another, right on the left of the photograph, the needle has attempted to go dead straight instead of round the bend.

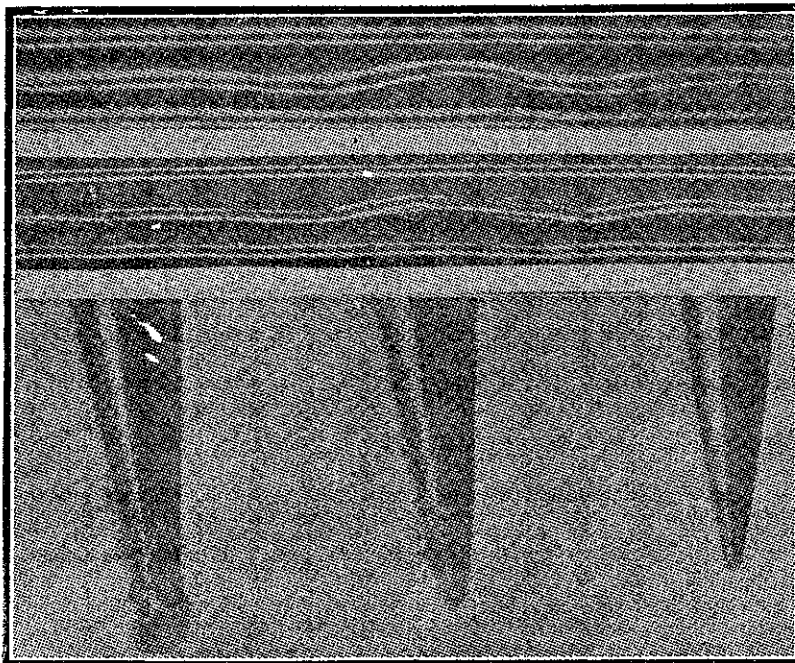


Figure 1.—The top photo represents an unused record. The centre a record that has been played by a standard mechanical soundbox 50 times. The lower photo shows the amount of record collected by the needle from the record. (See text.)

groove. For this purpose the soft needles, the fibre, or the tungstyle, are the best.

Our photographs depict the result of some very interesting and enlightening experiments along this line. The top photograph of figure 1 shows a record that has not been played. The next shows it after it has been played 50 times with a standard gramophone. Figure 3 shows a section of the same record after it has been played 50 times with a pick-up, using a fine needle. It will be noted that there are no signs of wear.

Referring for a moment to the photograph showing the result after an ord-

The effect of this upon the life of the record and the tone of the instrument can readily be imagined. The rather clumsy diaphragm of the mechanical reproducer, reluctant to take all that there is in a record, and almost unable to reproduce it, is totally outclassed by the pick-up, which, not having the same bulk to move, can take the corners more easily and reproduce the resulting notes with greater fidelity.

The average method of holding the needle does not allow it to move properly in the groove, and instead of reaching the bottom it often wears itself along the walls of the channel. This can be seen in photograph No. 2,

Our subject this week concerns, perhaps, the most vital topic with which owners of the pick-up and electric gramophones are concerned. This short discussion is based on actual tests conducted in England in which the wear caused by both mechanical and electric reproducers are compared. The article proves that such a stigma placed upon the pick-up that it ruins records is by no means just, and that, as a matter of fact, the pick-up is remarkably light on the records, even more so than the mechanical sound box.

previously referred to. The slant of the needle throws the pick-up part of the record in contact with the upper portion of the groove walls, and so they are either broken off or worn down rapidly. Reference to figure 4 shows the effect when a fine needle is used in a vertical, or almost vertical, position. The weight of the pick-up or gramophone head rests on the bottom of the groove, the wear on which does not affect the tone of the record nor its life. In the lower portion of figure 1 we have a new needle. On the right is the same needle which has been run over a new 12-inch record which has been very carefully cleaned to eliminate any trace of grit or dust on the surface. The third example shows a similar needle which has been run over another record which has been more worn than the first one, and which has not been carefully dusted. It will be

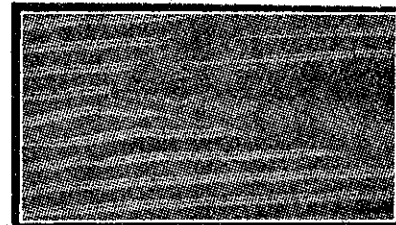


Figure 2.—A needle resting in one of the grooves. Note the comparative size. The groove shows white.

noted that the amount of dust collection and portions of the record surface which are clinging to it is very much greater than on the previous needle. These pieces of record have been collected mainly from the sides of the groove, for it is only when we come to the vertical needle or very fine needles that records are worn in the way they should.

The average gramophone always wears more on the walls, but the electrical

The TOMAN SUPER PICK-UP

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pick-up is now being designed so that the wear is being taken more from the base of the groove, therefore greatly increasing record life, and improving the purity of tone.

These experiments and photographs prove without doubt that there is nothing in the idea that the pick-up "ruins" records. On the contrary, as also shown by many other tests which

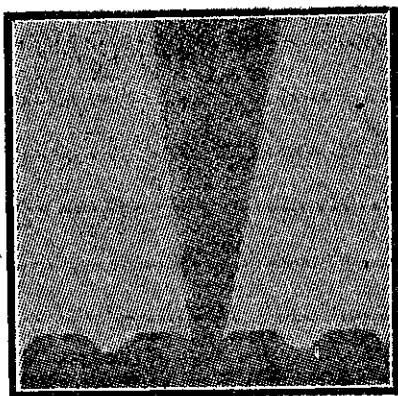


Fig 4.—A fine needle standing erect the wear is on the bottom of the in the grooves of a record. Note that groove.

are not illustrated here, the fact is that the average pick-up is far "lighter" on records than the average sound-box.

Celebrities

Heifetz

HEIFETZ first recorded for His Master's Voice in 1917, and of his H.M.V. records, which number over thirty, the "Finale" of the well-known "Violin Concerto" of Mendelssohn is one of the finest. Perhaps the full beauty of this famous concerto is not fully displayed without an orchestral accompaniment, but Heifetz's impeccable mastery over the violin, his brilliant execution and remarkable purity of tone, together with the flawless piano accompaniment, combine to produce a record of such perfection that the lack of orchestral accompaniment becomes of less consequence.

The lovely "Andante" of the "Goldmark Concerto," most beautifully interpreted, and the "Scherzo Tarentelle" of Wieniawski, are fine examples of his clean, eloquent style: while Schubert's "Ave Maria," backed by Mendelssohn's "On Wings of Song," forms a particularly fine record in which his lovely tone and phrasing are displayed to the utmost advantage.

Works by Tschaiikowsky, Beethoven, Paganini, Achron, Wieniawski, Mozart and Sarasate are also included in the list of Heifetz's recordings. They form a particularly attractive group, but there must be many people who would welcome his recording of a whole concerto with orchestral accompaniment. It is in the classic and modern violin concertos of Bach, Beethoven, Brahms, Bruch, Lalo, Mendelssohn, Paganini, Saint-Saens, Tschaiikowsky and Wieniawski that Heifetz is at his best.

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

Dealers and Booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington.

New Recordings

A Cheaper and Better "Lohengrin."

TWO world-popular tunes in the Introduction to Act 3 of Wagner's "Lohengrin" and an orchestral version of the famous Prelude in C Sharp Minor by Rachmaninoff, will be found on a disc by Sir Henry Wood and the New Queen's Hall Orchestra. This record has now been transferred to the popular-priced section. The economist will be pleased to compare the old pre-electric disc of 10/- with the much better version at 6/-. Sir Henry makes the most in the Lohengrin of one of the few really great melodies that Wagner wrote, and arranged the Rachmaninoff to invest it with a rich overplus of effort. (Columbia 2967.)

An Organ Solo.

LOVERS of good organ solos—and these are numerous among our readers who use the versatile pick-up and electric amplifier—will derive great pleasure from this fine pairing of two favourite tunes. On one side

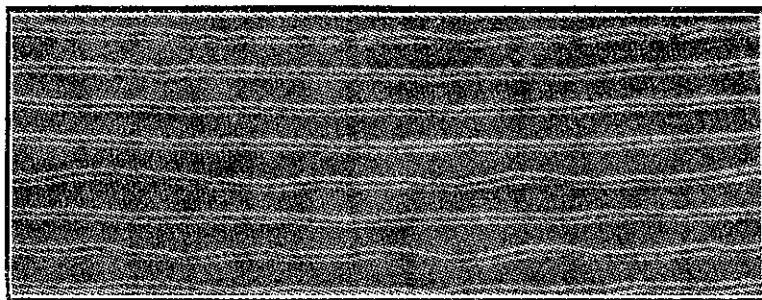


Figure 3.—The same portion of record as in Fig. 1, after 50 times with a first quality pick-up and a fine needle. The grooves show no trace of wear.

is Rubinstein's Melody in F, and on the other the simple and melodious "Narcissus," by the American, Nevins. Pattman, who for all that he plays on the Compton Kinema Organ, is a really fine musician and organist, plays them with admirable restraint and feeling, and makes a fresh delight of what might easily sound hackneyed.

Charming Violin Disc.

MISCHA ELMAN'S recording of Drda's "Souvenir" and Cui's "Orientale" (Op. 50), recalls that his wonderful tone is still as rich and expressive as in the past. The new electrical recording brings it out to great advantage. Cui's "Orientale" is particularly fascinating in its atmosphere of dreamy yearning and mystery. (H.M.V.)

Power Output

(Concluded from last week.)

IN coming to the question of determining the magnitude of the load imposed on the output valve by a speaker, we are faced with the difficulty that manufacturers of commercial speakers are singularly reticent regarding this important information, while measurement of the reactance and resistance of a speaker is a task of some little difficulty, complicated by

the fact that both the reactance and the effective resistance vary with frequency. It so happens that the writer has chanced upon curves relating to the Amplion "Lion" speaker, and no doubt these are fairly typical of speakers as a class. They are reproduced in figures 3 and 4. The impedance of the speaker may be determined by taking the figures for both reactance and effective resistance at a particular frequency and adding them vectorially (i.e., adding their squares and extracting the square root of the result).

The increasing impedance of this type of speaker (a reed-driven cone) at the higher frequencies leads one to wonder what frequency should be chosen for "matching" purposes. It will usually be found that the only "matching" which can be done may be accomplished aurally, since the effect of lowering the impedance of the power valve in comparison with the speaker is to produce a preponderance of low tones, whilst the opposite process brings up the high tones. The conditions for maximum valve output are usually satisfied somewhere in the

low frequencies appreciably higher than at the shriller portion of the scale (by reason of the high impedance of the pentode as compared with any normal speaker). Thus, the current being appreciably constant throughout the audible frequencies, the speaker resonance takes its full effect and we have the characteristic shrillness of a pentode-driven reed speaker. A step-down transformer is of some assistance in eliminating this.

The moving coil speaker requires separate consideration. Here the requirements for successful operation is that the coil current shall be substantially constant throughout the audible register. This requirement can readily be satisfied with a triode power-valve if the moving coil is not made too large. But the pentode is also very much at home under these conditions, and excellent results can be had from a single

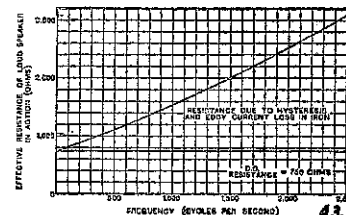
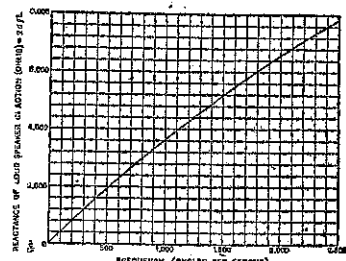
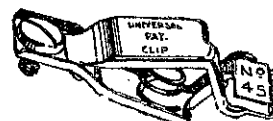
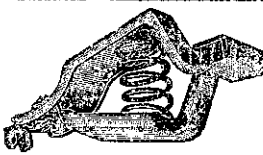


Fig. 3 (upper).—Curve showing reactance (2mFL) of Lion loudspeaker at various frequencies.

Fig. 4 (lower).—Curve showing effective resistance of a typical loudspeaker at various frequencies.

pentode feeding a moving coil speaker having somewhat more turns on the coil than is usual. As regards the impedance of a coil-driven speaker, this is a matter demanding a somewhat lengthy explanation. The average home-constructed instrument, however, with no step-down transformer and a coil of about 1000 turns, has an impedance of about 4000 ohms at 50 cycles, and at 4000 cycles and rather less than that at intermediate frequencies.

GENERALLY speaking a high impedance valve makes a good detector for short-wave work.



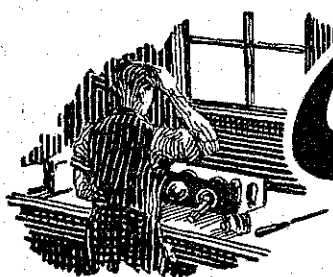
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Questions and Answers



A Silk Diaphragm Speaker.

I HAVE constructed a silk diaphragm speaker and until lately it has given excellent results. One night, however, when switching the set on, the music was very "tinny" and distorted. The silk diaphragms do not appear to have the same sound when tapped as they did at first. Would weather conditions be the cause of this? asks "Nikau" (Hawera). A.: Probably the silk wants re-stretching as it sounds as though it has become loose. Make quite certain there is no strain on the driving reed. If the preparation used for "doping" the silk is not quite as it should be, weather conditions will surely affect the speaker.

2. Would the Kylelectron speaker be suitable for home construction? If so, could you publish the details.

A.: The Kylelectron speaker is not suitable for home construction, so for the present at least, we cannot see any possibilities of publishing the details.

3. Could a bell transformer be used in the construction of an "A" battery charger?

A.: If the secondary winding will deliver sufficient amperage, it will.

Set will not React.

I HAVE constructed a tetrode crystal set using regeneration but neither the tuning control nor the reaction condenser make any difference upon the volume. The regeneration is of the

Reinartz type and the tickler coil is wound in the opposite direction from the secondary.—"H.E.L." (Kilbirnie).

A.: Your circuit appears to be quite in order, except that the tickler and the secondary coil should be wound in the same direction. Try reversing the connections, too. You might try also altering the capacity of the fixed condenser between the crystal and the grid of the valve, making it slightly larger.

A Vibrator Charger.

I AM using one of these chargers, but it has become noisy owing to the points wearing. Can I use any of it for a valve charger, or should I renew the points?—"Charger" (Heretaunga).

A.: The transformer can be used for a valve charger, but if the points are readily obtainable we think it would be cheaper for you to renew them. If it is noisy in its operation shunt a 1 mfd. condenser across the points.

Resistance or Grid Leak.

I HAVE what I believe to be a Bretwood anode resistance or grid leak. The apparatus has a red control knob. Which is it?—"W.H.Y." (Herekino).

A.: The anode resistance.

2. What happens when the knob is screwed in?

A.: The fluid is compressed and the resistance is lowered.

3. On unscrewing the knob a sticky black substance is noticed on the thread. What is it?

A.: The fluid—an oil.

Volume Diminished.

I HAVE a screen grid booster which worked satisfactorily until I made an alteration in the circuit. This was not an improvement, so I reverted to my old circuit, but I could not get anything like the volume that I had formerly, while the tuning was very much broader.

A.: We suspect the radio frequency choke. This is very critical in a booster of this description, and providing you have made no wrong or loose connections, we can suggest little else. We presume that you have tested the condensers for a possible break-down, ex-

ment characteristics, that is, they must be of the same voltage and the same amperage. If, on this arrangement, one of the filaments blows out, or one of the valves is removed from the circuit the whole collection will be "snuffed out." The reason for this is that there will be less current drain and the voltage will immediately rise. The best arrangement is to put the valves in series, but we cannot advise you what lamps to use to break down the current, because we do not have sufficient details. Supply us with the number of valves, their voltage, and the current drain from the largest, and we shall do the rest. The specifications for a choke depend very much upon the amount of ripple left in the current. A 10 henry choke should be sufficient, built up of 3000 turns of 22 gauge wire on a 2 x 2 core with a gap of .1 of an inch. Follow the general directions given in the Radio Listeners' Guide, but specific directions will be supplied in the 1930/31 Radio Listeners' Guide and Call Book.

Short-Wave Problem.

I WISH to build a short-wave set, using three valves, with provisions for an extra valve. Can you give me a suitable circuit?—"A.F." (Ohuru).

A.: See the all-wave "Round the World" Two. We shall give an excellent short-wave receiver in the new edition of the Guide. Four-valve short-wave sets are not a good investment for constructors.

2. Should the core of a home-made audio transformer be left straight or bent round the coil?

A.: Unless you are referring to the hedgehog type of transformer, in which case the wire coil is bent round the coil, we cannot see the point of your enquiry. The stallo is usually cut so that there is no need to bend it round, in fact, it cannot be done.

3. Can an H.F. transformer be used in short-wave sets? If so, how many turns would be needed for, say, 17-100 metres?

A.: If you require a high-frequency transformer for use in connection with a high-frequency valve, we should not advise you to do this, as high frequency amplification with a triode is rarely successful. See the Radio Receivers' Guide.

Types of Reaction.

WILL you answer the following points? asks "W.S." (Whangarei).

1. Which type of reaction makes for the most sensitive type of detector?

A.: The Schnell or Reinartz method, although differential condenser control, is now being introduced into England with considerable success. The differential condensers, however, are not readily obtainable in New Zealand. When they are, we will discuss them through our columns.

2. In fitting an anti-motor-boating device, is it necessary to apply higher

Questions and Answers

READERS of the "Radio Record" who are in difficulties about reception or set construction are invited to write to our "Questions and Answers" department for help. We particularly wish to assist those who know little about radio, as very often there is some ver. slight trouble which spoils completely one's enjoyment of the programmes.

Correspondents are asked to observe the following courtesies:

1. Write legibly.
2. Make your questions brief and to the point; do not make apologies for writing, and, where possible, tabulate.
3. Do not ask for a reply by post unless a stamped and addressed envelope is enclosed. Even in these circumstances, we reserve the right to answer any question through our columns.
4. Do not ask us to design circuits or send detailed lay-out diagrams; but we can offer advice regarding circuits.
5. Address all technical correspondence: "The Technical Editor, P.O. Box 1032, Wellington."

amined the pins of the plug-in coils for dirty or loose contact. The circuit is really quite a good one.

D.C. Eliminators.

I REGRET that you gave such an unsatisfactory reply to my question regarding D.C. eliminators, complains "W.J.D." (Reefton). The points were:—

1. What are the specifications for a choke for an "A" eliminator?

2. What lamps to use in series when lighting valves from a 230 D.C. mains?

A.: Our reply was merely to show the impracticability of lighting the filaments of valves from D.C. mains, but we regret having failed to give you the specifications for a choke. This was an oversight. Here is the problem regarding D.C. "A" eliminators. All the valves if not in series must be equal in fila-

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plate voltage to compensate for the loss in the 25,00 ohm resistance used in it?

A.: Yes, use a high-impedance valve, and increase the plate voltage.

Transformer Trouble.

I HAVE built the power transformer from the "Radio Listeners' Guide," but the primary heats up to such an extent that the cotton smokes, the humming is terrific, and the core is highly magnetised.—"D.McW." (Westport).

A.: It seems very probable that the shellac between the laminations is either poorly applied or of an unsatisfactory quality. The only solution we can offer is to pull the whole transformer down and re-shellac the laminations then built strictly according to specifications. You have probably left off a large number of turns on the primary.

Anode Bend Detector.

I WISH to bias my detector, but do not know how this is done. Could you inform me? asks "W.H.B." (Mata-mata).

A.: The detector, of course, must be biased only when the grid leak and condenser is not used. See an article on this subject in the "Radio Records" dated August 16 and 23, 1929.

2. I have just added a stage of R.C.C. amplification, and it is working very well. The resistances are 100,000 ohms and 1 megohm. Could I improve reception by substituting for other valves? I am using DEL610.

A.: You should use DEH610 for a stage of R.C.C. amplification, and O.C. coupling condenser.

Short-wave Problem.

WHICH is the most satisfactory circuit for a 3-valve short-wave set? asks "Shorty" (Tuna).

A.: Build the "Round-the-World" Two redescribed in this issue, with another stage of audio frequency amplification.

2. Is the screen-grid an advantage in short-wave work?

A.: Yes, we hope to give a suitable circuit in the new "Radio Listeners' Guide and Call Book."

3. Where can I get the details of a Schnell circuit?

A.: The Schnell circuit is fully described in the "Radio Amateur's Handbook," obtainable from Te Aro Book Depot, Wellington, for 5/6.

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TE ARO BOOK DEPOT
62 Courtenay Place, Wellington.

A Two-Valve Circuit.

WHERE can I obtain the particulars of a two-valve broadcast receiver? asks "H.A.G." (Nelson).

A.: Build up "Round-the-World" Two following the modifications mentioned for broadcast reception.

A Wave Trap.

WHERE can I procure a reliable wave-trap for a factory-built receiver? asks "M. McG." (Nelson).

A.: You can either build yourself one from the description in the "Radio Listeners' Guide" or you can have one built by any radio dealer.

Eliminator Problems.

WOULD you answer the following points regarding an eliminator? asks "A.W." (Auckland).

1. I am using variable resistances for the detector and R.F. Would it be O.K. to use a wire-wound fixed resistor for bias?

As the bias value is more critical than the anode voltage it is almost imperative to have the bias variable, so that we should advise the use of the potentiometer used as a resistance. The value should be 0-3000 ohms.

2. Allowing for the voltage drop in the chokes, and 40 volts for grid bias, would I get about 180 volts from a transformer built to give 260 volts? —Yes.

3. Should B minus be connected to earth when taking grid bias from the eliminator?

A.: B minus is earthed at all times, when there is no bias. When there is bias the centre tap is not earthed, for if this were done, the voltage drop could not be obtained.

4. Is there any advantage in using the larger Rathenon valve?

A.: For ordinary purposes, no.

5. Is it necessary to have a three-wire connector to the power point?

A.: The case of the transformer must be earthed to comply with the regulations, and this is most easily done through the third connection of the power point. However, it is not essential to do it this way, and it may be earthed merely by running a connection from the case to the ground.

6. When are you describing the dynamic speaker you promised recently?

A.: Owing to the holidays and the reorganisation of the paper, we have not been able to present this as soon as we should have liked, but we shall endeavour to get it under way as soon as possible.

Aerial Problem.

DO you consider a vertical aerial of, say, 35ft. more efficient of one of the horizontal type and of 70ft. in length? writes "Ace" (Wanganui).

A.: 30ft. high and 70ft. in length would be the far better aerial. See our article next week.

2. How do these two aerials compare for selectivity volume, and directional effects?

A.: The horizontal aerial will deliver greater signal strength, and will be more directional than the vertical, which will have the advantage when selectivity is concerned.

Set not Up to Expectations.

I HAVE just bought a new 6-valve receiver, and cannot get anything like the results I have heard with other sets. I have a good aerial, while my speaker and valves are good. The set will not oscillate.

A.: You are leaving us rather in the dark when you do not state the main type of receiver, for we have no standard to which we can compare it. If you are not satisfied, consult the agent who sold it to you. If it is a neutrodyne it should not oscillate.

Aerial Efficiency.

PRECISELY what effect do neighbouring earth objects, especially

trees, have upon an aerial?—"H." (Wellington).

A.: They considerably weaken signal strength by diminishing the effective height, but see our article next week.

Note: Please supply us with your name and address as soon as possible.

(Continued on page 39.)

RADIO DIRECTORY

What to Buy and Where

CITIES

| | |
|---|---|
| AERIAL MASTS | Domestic Radio Co., Ltd., 300 Queen Street, Auckland. |
| ALTONA & HAMMARLUND-ROBERTS SETS. | Johns, Ltd. Chancery Street, Auckland. |
| AMPLION LOUDSPEAKERS . | All Radio Dealers. |
| BURGESS RADIO BATTERIES, | All Radio Dealers. |
| CROSLEY RADIO RECEIVERS | G. G. Macquarrie, Ltd., 120 Willis Street, Wellington. |
| CROSLEY RADIO | Abel, Smeeton, Ltd. Rep.: G. MOSE James Street, Mangere. |
| CROSLEY RADIO | Abel, Smeeton, Ltd., 27-29 Customs St. E., Auckland. |
| EMMCO RADIO PRODUCTS | Johns, Ltd., Chancery St., Auckland. |
| EMMCO RADIO PRODUCTS | Thos. Ballinger & Co., Ltd., Victoria St., Wellington. |
| EMMCO RADIO PRODUCTS | L. B. Scott, Ltd., Worcester St., Christchurch. |
| KING RADIO RECEIVERS ... | F. J. W. Fear & Co., 63 Willis Street, Wellington. |
| MAJESTIC RADIO RECEIVERS | Kirkcaldie & Stains, Chief Wellington Agents, Lambton Quay. |
| MULLARD VALVES | All Radio Dealers. |
| PILOT 1930 PARTS AND KITS, ETC. | Abel, Smeeton, Ltd., 27-29 Customs Street East, Auckland. |
| PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and ATWATER KENT SETS | Harrington's, N.Z., Ltd., 138-140 Queen St., Auckland. 40-42 Willis St., Wellington. |
| RADIOLA RECEIVERS and Expert Radiola Service. | and Farmers' Trading Co., Ltd., Hobson Street Auckland. |

COUNTRY TOWNS

| | |
|---|--|
| CROSLEY RADIO | J. C. Davidson, Main Street, Pahiatua. |
| CROSLEY SETS | Abel, Smeeton, Ltd. Rep.: C. EYRE 409 Devon Street New Plymouth. |
| CROSLEY RADIO | D. A. Morrison & Co., Victoria Avenue Wanganui |
| MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS | Radio House, Hamilton. G. S. Anchor Manager. |
| PHILIPS VALVES AND APPARATUS | All Good Radio Dealers. |

For the coil mounts, cut out of one-eighth inch ebonite, ten pieces, each measuring 2½ in. long by ½ in. wide. With centres a quarter of an inch from each end, drill two holes in each piece to take the tapped portion of each pin. The holes will be 2 in. apart.

Reference to diagram 2 will show how each coil is mounted by clamping two pieces of ebonite, one on either side of the wire, and tightening up by the pins at each end. Two small soldering

It will be seen that a switch has been mounted at the rear of the baseboard. If a cabinet is to be used, this switch could be fastened to the front panel with no alteration to the existing wiring beyond an extension of the connections to the switch. If antimicrophonic valve sockets are not used on both valves, the detector is the most sensitive and one on this position is advised. The six terminals are mounted on

Look for Next Week's Special Feature.

ERECTING AN EFFICIENT AERIAL

The importance of a good aerial cannot be too greatly stressed and this timely article will be a guide to those who are contemplating radio installation or who wish to improve their present installation.

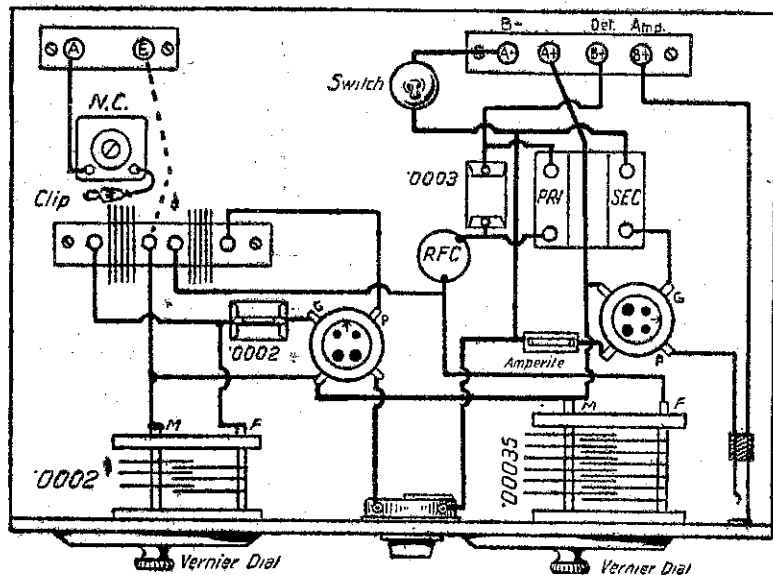
lugs fixed underneath each nut provides a means of connecting the coil to the pins. Mount each of the five coils in the same way and then turn to the base. A strip of 3-16 in. ebonite measuring 6½ in. by ½ in., has to be drilled with six holes.

Two, half an inch from each end, are used to fix the base to the wooden baseboard. The two in the centre are ½ in. apart with the remaining two, 2 in. on either side. In the four inside holes screw the valve sockets, with soldering lugs to provide contact. This com-

two strips, one containing two and the other four terminals.

Wiring Up.

IN wiring up run all grid and plate wires direct to their destination, disregarding all thoughts of the finished appearance. Right angle bends have been indicated for the sake of clearness. The small condenser behind the coil is a series aerial condenser, and can be in the form of one of the many neutralising condensers on the market. The length of flexible wire to one side



pletes the coils and mounting and is the most difficult part finished.

The Lay-out.

THE lay-out diagram gives the general arrangement and the relative positions of the various components.

One word on the RF choke. This has to be one designed for short-wave work and if the constructor wishes to make one himself the following will be helpful. A glass test tube, known to chemists as a "boiling tube," can be used. A tight-fitting cork can be inverted and screwed to the baseboard, so that when the boiling tube is wound it can be placed over the cork. Wind with 100 turns of No. 32 D.C.C. wire and space with cotton or fine string. After taking off the spacing give a coat of thin celluloid solution. Fasten each end of the wire with cotton until the solution has dried out.

of this condenser is used for a variable aerial tapping on the grid coil, and a small projecting tag will have to be soldered to the centre turn of each coil. This is indicated in the diagram.

No difficulties should arise in wiring up, and by referring to the theoretical and lay-out diagram the beginner will get an idea of the meaning of these theoretical diagrams.

When completed, connect up batteries and, using the 'phones, see if oscillation is smooth and under good control. The reaction condenser on the right should have the same readings for the position when the set goes into oscillation and for when it comes out. Any lag usually indicates a wrong grid leak or an inefficient choke coil. Have a number of leaks on hand ranging from 2 to 7 megohms, and try each until the best value is found.

Connect up the antenna and with re-

Questions and Answers

(Concluded from page 37.)

sible. This is essential for office purposes.

Under-Baseboard Wiring.

I HAVE purchased a copy of the "Radio Listeners' Guide," and would be obliged if you would supply me with a diagram of the under-baseboard wiring. "C.H." (Linwood).

A.: This is a big order, especially as we are now particularly busy. Follow the directions given and you will encounter no difficulty. An under-baseboard wiring is not essential.

Recording on Wire.

COULD you give me full particulars of the system of recording music on wire appearing in a recent issue of the "Radio Record?" asks "H.A.S." (Wellington).

A.: See reply to this query on an adjacent page.

Selection of Valves.

WOULD you advise me on the selection of valves for my six-valve commercial set? I have been using 201A's in all radio and audio stages with PM5 as detector, and I have been advised to use PM5B in the first two stages, PM256 in the last, and PM6 in all others.—"R.G.B." (Wellington South).

A.: We regret that your advice is erroneous. We would suggest that you replace by 201A Radiotrons, with a medium power valve such as 256 in the last stage. Do not use PM6 in anything but the last stage of a small receiver. PM5 and PM5X are the general purpose valves made by Mullard. With PM256 as power valve, you will require about 18 volts bias.

Constructing the A.C. Browning-Drake

I PROPOSE building the A.C. Browning-Drake as described in the "All About the All-Electric," and wish you

ceiver on the threshold of oscillation, turn the left hand tuning condenser slowly round until a whistle is heard. This indicates a station and immediately slacken off reaction, at the same time making final adjustments on the tuning condenser. The coil used for reaction will be found by experiment, depending upon one or two factors, and no set rules can be laid down for any particular coil.

Dead Spots.

VERY often it will be found that there are certain sections on the tuning range that it is impossible to get the receiver to oscillate. These are called "dead spots," and can usually be overcome by adjustments upon the aerial coupling. Unscrew the neutralising condenser slightly, and the reaction will be found to work normally. Do not expect to tune in to Holland right away, as it takes quite a while to get used to a short-wave set, and when a station is received the builder will be surprised to see how finely the stations tune on the dials. A many as ten stations can come in on each degree, and one or two commercially made sets use a small magnifying glass in order to take more accurate dial readings.

Next week the broadcast coils, suitable valves, and the method of adding an extra stage will be fully described.

to answer the following questions connected with it—"A.J.C." (Devonport).

1. Is a certain A, B and C. power-pack the most suitable to use for all requirements of the set?

A.: We have found other power-packs more suitable, including the Pilot and Dongan.

2. Would another transformer be required if I added another stage?

A.: The only method of adding another audio stage is by resistance capacity coupling and push-pull which would require an altogether different lay-out. We would advise you to construct the receiver as described, although the alterations suggested by your diagram are quite permissible.

3. I intend to use Radiotron or Cunningham valves. What is the best combination?

A.: Either of these makes. 227 in all stages except the last, where we should advise the use of Radiotron 171, PM256, Cossor G251, or better still, Osram P625, if 250 volts are available.

Two-way Communication.

I WISH to establish a two-way communication with a friend who lives three miles away. How might this be done?—"R.M.A." (Te Kuiti).

A.: You both obtain a license to transmit from the Post and Telegraph Department, and build a radio transmitter and receiver. The license can be obtained only by those who have passed a set examination, requiring both theory in radio, and practice in Morse telegraphy.

Set does not Oscillate.

I HAVE constructed the three-valve short-wave receiver described in the "Radio Listeners' Guide," but I have omitted the reaction condenser and control oscillation by a variable resistance. I cannot get the set to oscillate on short waves.—"Bain-boozled" (Dunedin).

A.: Put a fixed condenser of about .001 between the reaction coil and A.

An Amplifier for Browning-Drake.

WHAT kind of an amplifier should I use with a 2-R.F. Browning-Drake?

A.: A separate amplifier must not be used, but if you wish to improve the audio side, use one stage of resistance capacity coupling to a transformer stage to a push-pull output stage.

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An Unknown American.

MR. MORRISON (Wellington) reports hearing an American station on about 90 metres several times recently from 7 p.m. till about 8.30 p.m. Usually all that is heard is "Hullo 118. Call radio." Various numbers are called up at intervals. The longest call heard was, "Hullo, 116. You've had an accident. Do you want the waggon? If so, we will send on at once." Mr. Morrison would like to know if any reader can throw any light on this mysterious stranger.

More Short-Waves from Holland.

THE Dutch Government short-wave plant at Kootwijk will soon be augmented by the addition of three new transmitters equipped for B.W. and radio telephony, which are now under construction. These will use the call-signs PCO, PCS and PDM. Their wavelengths will be 15.686, 16.60 and 16.182 metres respectively.

An Italian Short-Wave.

WORK on the Rome short-wave broadcasting station is progressing rapidly. The transmitter, installed at Cecchignoletta, at a short distance from the Italian capital, will be capable of radiating a power of some 12 kilowatts in the aerial. It will relay the advertised Rome programmes for the benefit of Italians resident in African and other colonies. Although the wavelengths have not been made known officially, it is stated that 25 metres and 80 metres may be the ones adopted.

A Two-Metre Claim.

TRANSMISSION tests with waves of three metres are referred to in the German amateur periodical, "CQ," which states that success on these high frequencies has been attained by Dr. Karl Stoye by means of a special arrangement of super-regeneration circuits. Transmitters and receivers functioning very efficiently on the 3-3.40 metre waveband are reported to be constructed with ordinary commercial apparatus, while a 2-metre wave is said to be attainable with the use of special valves.

Reception during Week ending February 22, 1930.

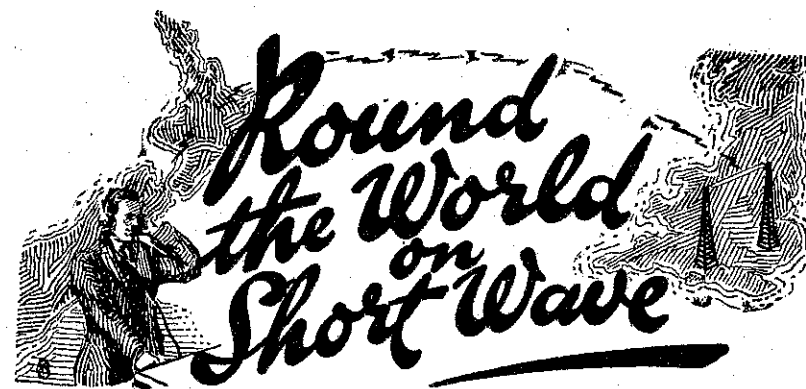
RA97, Siberia, 70 metres, was tuned in on Monday morning at 6 a.m. in time to hear a special transmission announced for Western Europe.

The opening announcement was made in Russian by a man and in English by a woman—the latter was heard frequently during the evening's programme. One musical item was given, the woman then talked for about fifteen minutes on the reported religious persecution in Russia. She said that these reports were a "crusade against the Soviet Union." Later she said they "were credited with doing things they had never dreamed of."

A fine musical programme followed from the "radio studio" (so the announcer said). Reception was excellent except for the usual trouble—static.

W9XF, Chicago, 49.83 metres.—This station has been closing down at 7 p.m. each evening during the past week, one hour earlier than usual. Reception has been fair, but not so strong as a few weeks ago.

W2XAF, Schenectady, 31.4 metres, was on the air at midnight on Tuesday,



testing with 2ME, Sydney. Volume was R4 and very gushy. Reception was also poor in Australia. 2XAF was well received on Saturday afternoon, being R9 by 4 p.m.

PCJ, Holland, 1.4 metres.—On Friday and Saturday this Dutch station came in at R9 from 6 a.m. and continued at good strength throughout each transmission Saturday afternoon, signal strength was R2 at 4 p.m., increasing to R8 by 5.30 p.m. Reception was spoilt by static.

Zeesen, Germany, 31.38 metres, has again been the "star" station. The published transmitting hours are not observed. On Tuesday a band was heard till 6 a.m., after which the station was silent. Wednesday, male choirs from 6.20 a.m. Thursday, organ recital from 6.30 a.m. Friday, choir from 6.30 a.m. and on Saturday from 6 a.m. American jazz items.

VK2ME, Sydney, 28.5 metres, has been testing with London nearly every morning and evening. On Tuesday evening they were taken, with W2XAF, Schenectady.

GBX, England, 27.5 metres (about).—Testing on duplex with Sydney.

KZRM, Manila; Wavelengths, various.—Radio Manila was on its old 26-metre wavelength on Wednesday evening. Reception was spoilt by static. On Thursday, Friday, and Saturday they were on 48.8 and about 24.4 metres. A wedding service was broadcast from KZRM on Saturday evening from about 10.50 p.m. Readability was poor—about 50 per cent. at R4-5.

G5SW, England, 25.53 metres.—Was quite good on Thursday morning, when a talk on "Canning Industry in Great Britain" was 100 per cent. readable from 7 a.m. Rapid fading spoilt reception on other mornings.

KDKA, Pittsburgh, 25.4 metres.—On Sunday from 4 p.m. a programme for the Byrd Expedition was broadcast from the William Penn Hotel was received at R8. Reception was poor on Saturday.

W6XN, California, 23.35 metres.—Was tuned in at 6.30 p.m. on Friday, when the National Concert Orchestra were excellent at R9 till 7 p.m. From then till 8 p.m. the Musical Musketeers were heard. On Sunday volume was R7, at its best about 4.30 p.m.

W28AD, Schenectady, 19.5 metres.—Was very weak on both Sunday and Saturday.

POK, Holland, 16.3 metres, and PLE, Java, 15.74 metres.—Were on duplex telephony at good strength on Friday evening.

Unidentified Stations.

THE stranger on 41.6 metres (about) has been heard each morning, strength about R3 at 6 a.m. and always talk.

Another German, a fraction higher in wavelength than Zeesen has been

heard several times between 6 a.m. and 6.30 a.m. at about R6. Talk only has been heard.

Technical Tips

Rejuvenating Accumulator Plates.

A COMMON method of rejuvenating the plates of not too badly sulphated cells is to send them for an extra long charge at a slightly lower charging rate than normal. This is greatly facilitated in its function of reducing the accumulated sulphate if some sodium sulphate (commonly known as Glauber's Salt) is added to the electrolyte.

A Useful Contact Stud.

THE two small spring plungers found in any ordinary electric lamp-holder are useful accessories for many wireless purposes. They can with advantage be incorporated in many home constructed components as sliding contacts, ensuring a smooth motion together with a positive contact, and are to be preferred to the flexible leads which are often connected to the spindles of switch arms, etc.

Locking Condenser Dials.

A VARIABLE condenser dial which is not securely fixed on its spindle is a source of great annoyance to the operator, because the readings noted from it cannot be relied upon. The dial is often locked in position with a small grub screw, and a trouble sometimes encountered by the constructor is that he has no screwdriver with a narrow enough blade to enter the hole in the knob and drive the screw well home. The use of too large a screwdriver under these circumstances will damage the knob, and may even split it if it is of the moulded type. It is quite worth while to keep as part of the wireless workshop equipment one of the small screwdrivers which are used by watchmakers. These are made entirely of metal, with a hollow handle to hold blades of various sizes.

Removing Scratches.

DEEP scratches that penetrate through the finish on wooden radio cabinets may be rendered invisible if the correct procedure is followed. First, stain the wood in the scratch with a matching stain. Allow the stain to dry for about 24 hours, and then coat the scratch carefully with a first-class grade of furniture varnish. After the varnish has been allowed to dry thoroughly, take an old razor blade and scrape off any excess varnish. Apply three or four applications of the varnish in this manner. Finally you will

find that the varnish coats have built up until they are flush with the surface of the original finish. The entire surface can then be rubbed down with a mixture of powdered pumice stone and oil.

Testing for Hum.

THE critical point in any all-electric receiver—the point where hum is most likely to be produced—is the detector circuit. Consequently whenever an A.C. receiver begins to develop a steady hum the detector valve should be investigated. In many types of circuits, when the set is first turned on, a hum immediately develops and then dies out as the detector valve heats to operating temperature. As the valve becomes older the time required for it to reach operating temperature becomes longer and longer, and in many cases the hum does not die out. It is a good idea, therefore, to have a good, new spare detector valve on hand. Then when the set develops a hum, substituting the spare valve will give a definite indication as to whether the detector valve is to blame. If the hum continues with the spare detector valve in place some other part of the circuit is at fault. In an electric set the hum is not always of the same intensity. Some nights it seems to be worse than others. This variation frequently is caused by changes in the line voltage or in line operating conditions. The hum is much less when the gramophone pick-up is used. This is because the pick-up does not produce hum, and when it is cut into the circuit detector valve hum is eliminated.

FOR SALE OR EXCHANGE

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

"A.B.C." ELIMINATORS, with Westinghouse Rectifiers, make Battery Radio superior to most A.C. Radios. Quotations gladly given. Johns, Ltd., Chancery Street, Auckland.

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If not, Consult—

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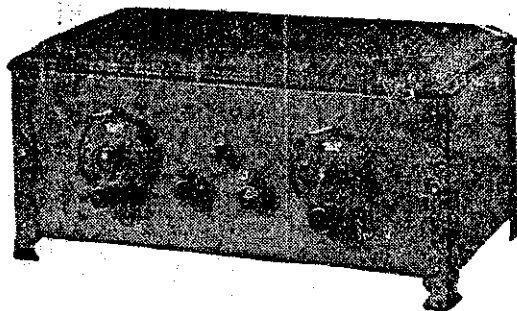
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The Radio Listener's Guide

1929-30 EDITION.

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Wireless from the Technical Aspect.
Multi-Valve Receivers.
Aerials, Earths and Accessories.
Short-wave Reception.
Trouble Tracking.
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