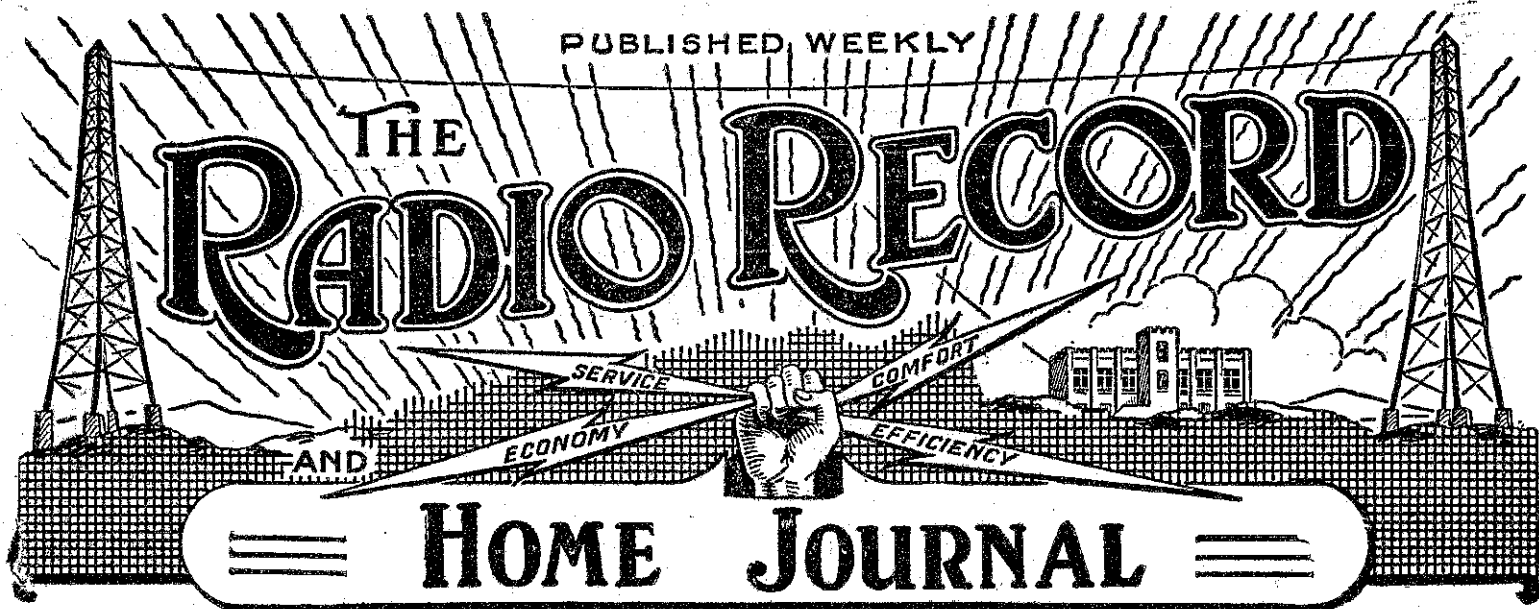


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THE RADIO RECORD



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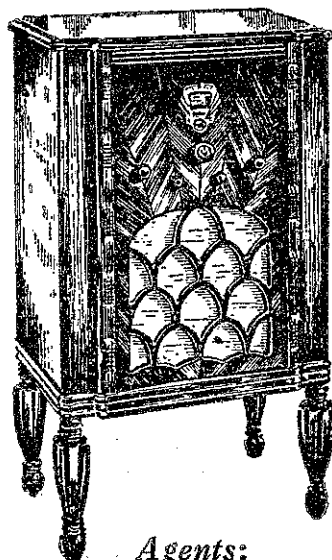
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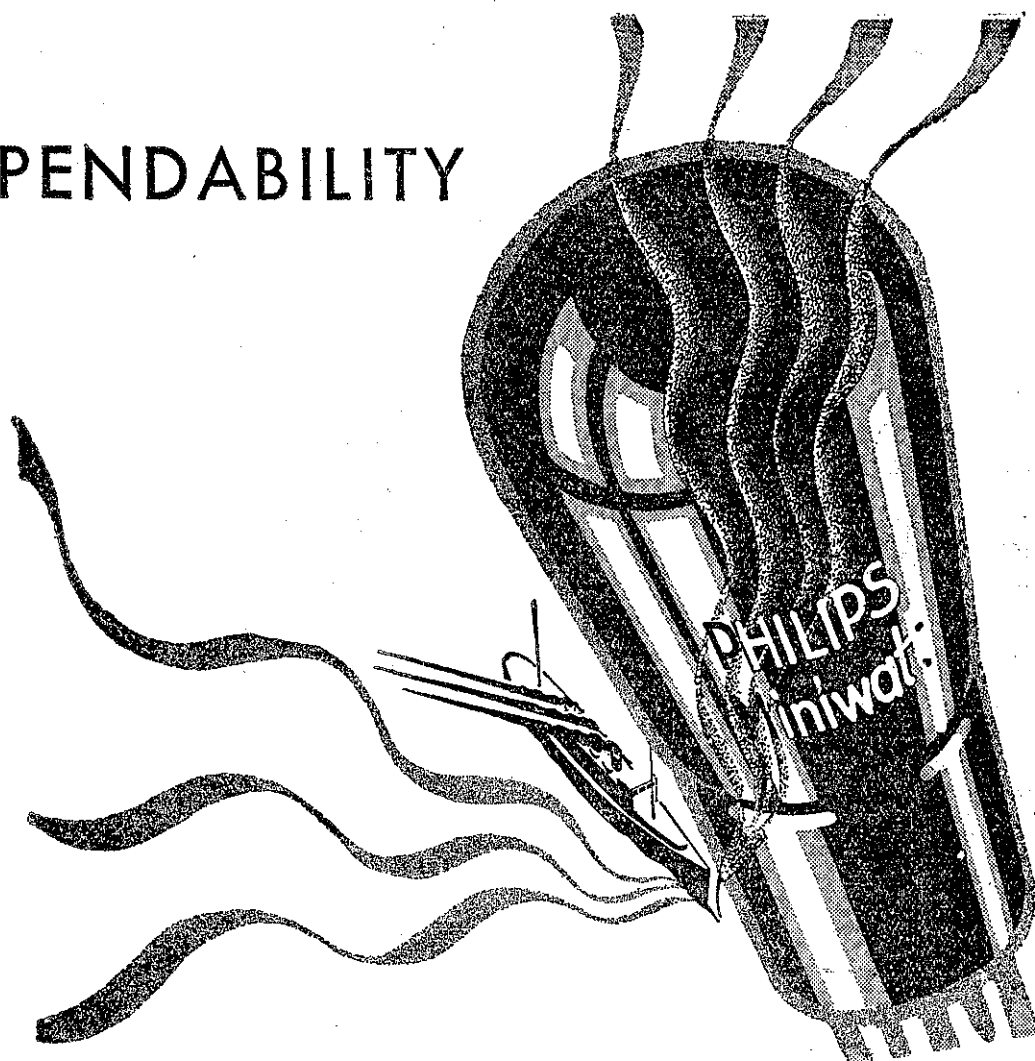
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IMPRESSIONS OF THE FAR EAST

—a talk given from 2YA recently by Mr. Will Lawson, the much-travelled New Zealand poet and writer, who, during the past few years, has been resident in Sydney. At the present time he is touring New Zealand on holiday, and is delivering from the YA stations a series of talks on his travels.

TO the people of New Zealand and Australia the term, "The Far East," is a misnomer, for these picturesque and exceedingly busy places are closer to us than any other distinct world centre. What is known as the Far East is, in fact, more likely to materially influence the destinies of New Zealand and Australia than any other portion of the globe.

I do not intend, however, to discuss these matters to-night. It is of the picturesque, human, social and domestic side of the East that I will speak, endeavouring to convey to you the impressions received in a four months' visit to the Philippines and Hong-Kong.

The New Zealander who has not yet visited Australia, has the added interest of the cities of Sydney and Brisbane, and the north Queensland ports of Townsville and Cairns, which are called at *en route*, and opportunities offered for short trips inland. It must be remembered that the steamer is ten days on the Australian coast, on her way from Sydney to Thursday Island, and this never fails to impress strangers with the great size of Australia and also its emptiness.

From Townsville the voyage lies inside the Great Barrier Reef, which is a vast coral growth, stretching for more than 1000 miles along the coast at varying distances from the shore. This coral barrier against the storms of the Pacific ensures a smooth passage which continues all the way to Manila, for, after leaving Thursday Island, at the north end of Cape York, the way goes among islands over glass seas. Though the Great Barrier Reef is so large, little can be actually seen of it except palm-studded atolls, such as Low Island, where scientists have established a base to study the marine life of the reef; but beyond Cairns, from time to time, the steamer people will see luggers manned by dark-skinned men, who are dressed in gaudy-coloured shirts or sarongs. They are fishing for Beche-de-mer or trochus shell.

Thursday Island is one of the Prince of Wales group. Toward dawn on the third morning after leaving Cairns, the winding approach to this great pearling centre is reached. A Malay quarter-master is placed in the "chains," that little gallery on the deck overhanging the sea, from which he can heave the lead. With this guide to assist the navigation, the liner steams into the port and ties up at the wharf at Kennedy Town, the only settlement on the island. T.I., as it is called, is the social and commercial centre for all of Torres Straits and the Gulf of Carpentaria. New Guinea is only 100 miles away, the Murray Islands and Yam Island, with its quaint king and his queens, and many other places can be reached by cutter, places where one sees life as nowhere else in the world, and there is sport for the hunter on the mainland ten miles away. The Torres Straits natives are different from the Aus-

tralian black and the New Guinea native, though so near to both.

Thursday Island is outside the White Australia agreement—which means that no language tests are applied to Japanese, Malays, Javanese or other Eastern people who wish to live there. This is done because the pearling industry demands such men as divers. Though the industry has decreased greatly, there is still a big fleet of pearlers with headquarters at T.I. Among the native crews, there are two distinct factions, the "swimmers" who dive without a diving dress and the "divers" who use the dress and do the deep diving. While the swimmers fear the sharks, the divers fear only the giant gropers—similar to the New Zealand hapuka—which haunt the recesses of the reefs, and while really harmless have a ferocious appearance. With puffed-out gills and gaping jaws they terrify the men, who signal for a quick haul-up.

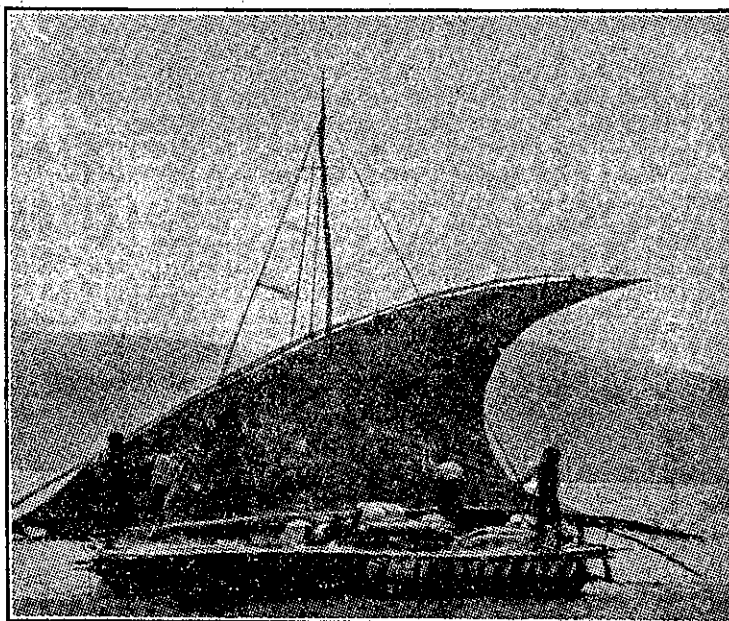


WHEN Thursday Island fades astern, and the hills dip into the sea, there remains only the white lighthouse on Booby Island, 20 miles off-shore, to show where Australia is. When that goes, too, the liner is steaming on the Arafura Sea, bound for Manila, six days away. On this run no land belonging to Britain

will be seen, for the Dutch East Indies on the one hand the Philippines on the other, constitute the main areas of land. At one time England possessed the East Indies, but they were handed back to Holland in exchange for Ceylon, where the East India Company had extensive interests.

Early on the third day out, a solitary cone of rock, rising in the sea ahead, attracts the eye. This is Mano or Bird Island, on which dwell immense numbers of sea fowl. As the liner skirts past the island the whistle is blown, and the birds rise in clouds, circling and screaming.

Through Minipa Strait into the Banda Sea, thence to the Serang Sea and Molucca Passage, all among green islands, the course leads to Basilan Strait, between Santa Cruz and Coco. The latter, a small island, lies on the right, with high green ridges all cultivated, coconut palms streaming down to golden beaches and natives in the nude running about in their excitement at seeing the steamer. These people are Moros who (Concluded on page 2.)



A "lakatoi," or native boat, consisting of two or three canoes lashed together. In these the natives of New Guinea travel up the Gulf of Papua on trading expeditions.

Impressions of the Far East

(Continued from page 1.)

were the original inhabitants of the Philippines and are still living the simple lives of their people, right alongside the highway of the ships.

White-sailed native catamarans and bancas—the Filipino native boats—are seen ahead, where wonderful groves of coconut palms lean down to the water which is the main sea road to Manila, passing the doors of Zamboanga, a few miles along the coast. Here the prison of San Ramon is situated, where a benign American Government attempts the reform of less vicious criminals. This is 500 miles from Manila. From here the liner will pass by magic moonlit seas that skirt fairy lands and reach Manila at dawn.

THE lifting of the morning mists on Manila Bay was like the raising of a curtain, through which the sounds of a great city had been coming fitfully. After the smart white launches of the Customs, Immigration, Postal and port medical officers had come alongside, and their smiling Filipino occupants had attended to the ship and her passengers, one began to realise how fast the East is developing. All but the pilot were Filipinos, and this strikes one everywhere in Manila, even the executive officials of the railways are Filipinos. The Americans exercise a quiet supervision only, otherwise the Philippines are working out their own destiny, and the people hope some day to be in full charge of their country.

To-day there are three cities at Manila. First, there is the old walled city, backed by the fort of Santiago, which was used to fight off the attacks of Chinese pirates during the 300 years of Spanish occupancy. The moat that once surrounded the walls is now filled in and made a golf course, the only one in the world, probably, that is in the very heart of a city. Here is now the American centre, including the Manila Hotel, Luneta Park, Dewey Avenue, the modern clubland, palatial as only Eastern clubs can be. Then further away, on the Pasig River, is the more or less modernised business part of Manila, with the Escolta as the main business street, and trams and carriages carrying Filipinos in their thousands to and fro, with only a few European faces, and many of them Spanish. The police, the tram-men, shopkeepers, all are Filipinos, and a drive to the great central railway station, where modern American tracks and equipment are seen, will reveal the heart of the country people coming to town, their worldly goods carried in string bags, jars, boxes, everything it seems except a bag or suitcase. But that will be found all through the East.

The standard of currency in the Philippines is the peso, worth about two shillings, and the centavo is the one-hundredth part of the peso, with 10, 20 and 50 centavos notes and coins.

The Filipinos are pleasure-loving people. They are fond of sweets and sweet food and drinks, and rarely touch intoxicants. Dancing, boxing and athletics are their recreations—and cock-fighting. Every man has his pet fighting rooster, which he carries with

him when he visits his friends, in case a friendly wager might be offering.

There are few theatres in the Far East. Clubs and cabarets provide the night life. Dance halls are numerous in Manila. The best known is Santa Anna, two miles out from Luneta Park and pier, where the largest dance floor in the East is found, and about the best music, the Filipinos being excellent musicians. The floor is divided into two, one third being for white people or half-castes of Spanish blood, and the other portion for the Filipinos and others who wish to go there. The ballerinas are Filipinos, and are expert dancers. It is the custom for the people from the liners to visit Santa Anna on the night the ship stays at Manila on the way to China. After leaving the dance hall, they drive to Tom's Dixie Kitchen, which is a grill room in the centre of the city, run by

distance, while the city conveyance, similarly drawn, is the carmatta, or car of death, for so bad were the roads before the Americans came, that people often suffered injury in these carts. Yet the conservative Filipino sticks to them on the score of cheapness, and to-day the taxi is only beginning to be allowed a footing.

A greater contrast than that between Manila and Hong-Kong, only 86 hours distant across the China Sea, could not be imagined. In Manila the Filipino works as little as possible manually. In Hong-Kong there is not a horse-drawn cart, and very few motor lorries, for the Chinese know that every horse deprives at least seven men of a task in hauling goods or passengers, and he will not have the horses. Untiring energy is the characteristic of the Chinese. They love work, and they love gambling and en-

and Kowloon, with Aberdeen boat harbour, which is safe from typhoons, on the opposite side of the island. The currency in Hong-Kong is on a silver standard, the dollar being usually worth

The medley of humanity in the streets of Hong-Kong will never cease to interest, huge Sikh police along, the Chinese constables, smart Chinese girls dressed in European fashion, but a charming ones in native costume, a stout merchant being pulled and pushed in his rickshaw by uniformed boys, coolie women chattering along with six bricks as a load in their tiny baskets which sway on a pole, a huge wagon being urged along by a dozen men, with one unfortunate at the pole to steer, the grunts of the rickshaw boys clearing a way, the jingling of silver by the money-changers who swarm in Queen's Road, Chinese carrying scraps of food in string bags, from the markets, Europeans striding along or hailing rickshaw—it all makes an ever-changing kaleidoscope of life and colour.

On the harbour launches and sampans ply for trade, carrying people to and from the ships which anchor in the bay, there being no wharves except at Kowloon, where the new port is. And after visiting all the scenic and other places of interest, one leaves Hong-Kong with regret, as one would an completed play, though this play is one which will never end. And from there the traveller goes on to Shanghai and China, and afterwards to Japan. For this voyage the Empress liners of Vancouver connect with the Australian liners, which are often referred to as "The Little Empresses" so like are they to the big ships. Of Shanghai and Japan I will speak on another occasion.



Next Week Special Exhibition Number to link up with the Wellington Radio Show

Town Hall, June 10-13

Special Articles



an American negro—where breakfast is provided, and more dancing and entertainment.

Relief from the summer heat of Manila is found at the mountain city of Baguio, 5000 feet above the sea, where cool nights are assured in the hottest season. From there come all the green vegetables eaten by Europeans in Manila. A night run in a Pullman, followed by a thrilling morning drive into the mountains by car, bring one to this oasis where golf and other recreations can be enjoyed. In the hot months, Baguio becomes the official capital, the Governor and Parliament adjourning there. All the members of Parliament are Filipinos. In addition to this trip, there are drives to Cavite, Los Banos and Las Pinas. At Las Pinas, the 300-year-old church and its bamboo organ offer an example of the zeal and courage of the Spanish priests who built this fortress of a church and held it against native rebels and Chinese aggressors. Gun emplacements and loop-holes testify to the armed mission effort which they carried out and which has helped to civilise and make the Philippines what they are to-day. The University of Santo Tomas was founded by the priests more than 200 years ago.

At Pagsanjan Rapids, another day's outing, a thrill may be experienced by hiring a banca and its boatmen, and shooting rapids. In all the country drives one sees the industry of the people in cultivation, using the massive carabao, or water buffalo, as the beast of burden. So quiet are these beasts that their drivers are usually very small boys. The country cart, which is drawn by small Timor ponies, is called the carratello, or car for the

entertainment. Nobody knows just when they sleep, for they appear to be awake all night. Entering Hong-Kong is a simple process compared with Manila. There are no medical or Customs inspections, no immigration restrictions. Hong-Kong has been a free port ever since it was founded 80 years ago, when, as an island much frequented by pirates, it was taken over by Great Britain "for all time." Kowloon, the new territory across the harbour, has been leased for a long period of years, and no doubt it will remain under British control. Hong-Kong is briefly a beach, called the Praya, with a towering peak behind it, yet it has a population of 600,000, of whom about 15,000 are Europeans.

The crowded life on the harbour will fascinate the new arrival, but best of all is the view of the city at night when the waterfront, the hillsides and the peak are ablaze with lights, which, rising from water level to a height of 1835 feet, seem to merge with the stars. Electric trams traverse the city from end to end, but the chief shopping street, Queen's Road, has no trams. In fact there is no room there for them, so congested is the traffic of pedestrians, rickshaws, and chairs, with Chinese gambling on the footpaths and a hurrying crowd everywhere.

Much interest attaches to the rickshaws, which run on the level roads, and in the two-men chairs which carry passengers up the hills. They are cheap, the fare ranging from 10 cents upwards. A cable tram goes up to the top of the peak. The view from the top, seen from a point to which rickshaws will carry one, is very extensive, and shows the size of Hong-Kong port

A New Maori Song

By Alfred Hill

TO COMPOSE a Maori song which retains sufficient of the Maori idiom to appeal to the Maoris themselves and at the same time holds a compelling interest for any average European audience may be counted a real achievement in the musical world. With "Waiata-Poi," "Waiata-Maori" and the sweet and haunting melodies of "Hinemoa" Alfred Hill demonstrated that he possessed the way, the will and the understanding to this end. In "E Moe E Tama E Moe" (Sleep, Little Boy, Sleep) Mr. Hill has featured his first Maori lullaby, and the song, which has already been sung with great success over the air in Sydney, promises to show as good a record as "Waiata-Poi." Chappells are the publishers, and the advance copies are expected to reach New Zealand at an early date.

The words of the song were written by Hori Makaira, a Wellington journalist. The author originally sent the verses to an Australian journal. A few weeks later, in the presence of a fellow journalist, he produced a "rejected" slip from the editor of that publication. The literary friend saved the poem from the waste-paper basket and persuaded Makaira to send it elsewhere. As a result it was featured in another journal, and a copy eventually found its way to Alfred Hill, who lost no time in setting the words to music, describing the verses as the most appealing of the kind he had heard. Reports suggest that Hill's enterprise is justified.

The International Mind

THE great aim of all lovers of their fellow-men to-day is to avert the possibility of another war. That is a sentiment that meets with warm applause when proclaimed at any public meeting. Our men who fought and died in the Great War enlisted with that noble ambition in their minds. The struggle between the Allies and the Central Powers of Europe was almost universally regarded as "a war to end war." The Treaty of Peace and the establishment of the League of Nations which terminated the war-period clearly recognised the supreme importance of drawing the nations together into a covenant with a view to common action and the substitution of arbitration for hostilities in future disputes between the countries of the world.

For about twelve years the League of Nations has been in existence, and although it has not accomplished everything that might have been hoped for in the realisation of its objects, it has become a great, and in fact, a unique centre of influence in the direction of peace and the furtherance of humanitarian measures. It has already averted several wars, and it has fostered far-reaching international interests. With the aid of the Kellogg Pact, binding the nations to banish war from their policies, it has considerably brightened the hopes of mankind for the establishment of a lasting peace.

Mind to Control Force.

ONE thing is, however, becoming more and more clear in the study of current affairs, and that is the need of the International Mind as a force in the world. The abolition of the causes of war cannot be brought about merely by political and diplomatic means. We need to educate the people to think internationally, to see the other fellow's point of view, and to show hospitality to all great ideas, from whatever quarter they may take their origin.

The aim of the friends of the human race to-day is not merely to banish war, to prevent the outbreak of hostilities; in fact, it cannot be summed up in negative terms at all. That aim is positive, constructive, and educational. Our purpose is to establish peace on the foundations of goodwill, mutual understanding and respect. And it is only by putting something better, something more generally accepted in the place of war that the old fighting instinct in human nature can be sublimated. The League of Nations, Disarmament Conferences and the settlement of burning issues between the powers can achieve the object of world peace only as the thought and feeling of mankind are educated up to a loftier standard, and as public opinion throughout the world is trained to follow the lead of the most clear-sighted men and women.

This is thoroughly understood by the advocates of world peace. The leaders of the various nations realise that they cannot move far in advance of their times. They must be enabled to feel that they can carry the people with them, not only in times of tranquillity, but in periods of storm and stress.

SO impressed was I by the talk, on Monday, by Dr. E. N. Merrington, Master of Knox College, Dunedin, that I asked the editor to afford space for its appearance as an article. By courtesy of the doctor in providing the notes of his address, this valuable contribution is now placed permanently on record for our readers. It must, of necessity, lose much of its effect through the inability of the printed word to carry the same power and vivid force as the spoken word. This lecture was one of the most effective to which I have had the pleasure of listening. Its particular value lies in the fact that it places the theories of the idealist well within the bounds of possibility.—Critic.

Many of the warmest friends of peace among the national leaders find themselves hampered on many sides by the lack of common opinion and enthusiastic allegiance to the best interests of humanity. Hence several organisations have been formed with the object of teaching the people to think internationally. The League of Nations has its Committee on Intellectual Co-operation, as well as its Sub-committee of Experts, who were appointed in 1925 "to consider the best methods of co-ordinating official and non-official efforts designed to familiarise young people throughout the world with the principles and work of the League, and to train the younger generation to regard international co-operation as the normal method of conducting world affairs."

Starting in the Schools.

THAT introduces us to the schools, both primary and secondary, as the first field of endeavour in this enterprise. Education must cope with those prejudices, dislikes, aversions, and even hatreds which grow up like weeds in the child-mind, and serve as the prolific breeding-grounds of national suspicions and antagonisms.

The attitude of the teacher himself is very important in this task. If he is narrow in his outlook, the pupils will undoubtedly reflect many of his prejudices. Hence we must look to the teachers to set a high standard of open-mindedness and fairness to peoples other than their own. The methods of teaching also need to be revised—in fact, they are being revised. Such subjects as his-

tory, and geography in particular, should be taught from a less biased standpoint than has been customary in the past.

As the declaration of the educational authorities of Great Britain, at a conference held in 1927 stated: "Particularly the growing sense of the interdependence of communities, as shown, e.g., in the work of the League of Nations, should receive due prominence." If all the nations and races of the world can be induced to adopt this aim of creating in the minds of the next generation a feeling of human brotherhood, a very influential contribution towards bringing in a better and more peaceful era will have been accomplished. I would like to pay a tribute here to the work of the W.E.A. and the League of Nations Union, which undoubtedly has pride of place in the propaganda for world peace.

Study in the Universities.

WE pass on to the universities from which many of the leaders of thought will emerge. What is being done to train the students of the world to think internationally? Such agencies as the World Student Christian Federation—of which Dr. T. Z. Koo is a distinguished representative—and the National Union of Students have already accomplished much in the way of preparing the ground. In addition, we may count upon wise leadership from most of the professors who have been brought into touch with the subject.

In the Institute of Pacific Relations we have a fruitful movement, which studies the facts and problems of all countries bordering upon the Pacific Ocean, and has made a strong appeal to university men and women. But besides these, we find that professorial chairs have been established in Great Britain, Europe and America for direct treatment of world problems. At Oxford, for example, a highly distinguished thinker, Professor Alfred Zimmern, has recently been appointed to fill the newly-established chair of International Relations.

Professor Shotwell, of Columbia University, New York, who has already done remarkable work for world peace, inclusive of suggesting the original idea of the Kellogg Pact for the renunciation of war, has recently suggested that an institute for studying European affairs on the lines of the Pacific Institute should be inaugurated. The difficulties are immense; but the conception may bear fruit in the near future. All these are signs of the changing times and the widespread desire for what Lessing called in his famous title "The Education of the Human Race."

Need to Control Science.

BUT valuable as all such agencies are, the interests of humanity must lead us further. The savants and the experts are sometimes afflicted with "a blind spot" which is as dark as night. Specialists who are unable to see beyond their own subjects are among the worst victims of limited vision on world topics. In philosophy, too, there are national schools of thought which never look beyond their own national representatives, and never quote from those who

(Concluded on page 29.)

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Sweet
Home,
the
World
Over"

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—AND—

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

WELLINGTON, FRIDAY, JUNE 5, 1931.

EDITORIAL NOTES.

FOR some weeks past, under the title of "The Voice of Michael," we have been giving the views and advice of an esteemed contributor upon the radio talks presented from various stations. That page has concentrated attention upon a phase of radio activity which many listeners had relatively neglected. To get the best out of a radio talk one must concentrate and closely follow the speaker's presentation. To this many, not knowing what they were missing, have been disinclined to lend themselves. We are glad to learn from the evidence of correspondence and personal contact that the attention that has been drawn to the wealth of valuable talks available on the air has increased the number of those who now habitually make a selection of the best talks of the week. Last week was particularly rich in intellectual matter. Possibly the most thoughtful address was that by Dr. E. N. Merrington, of Knox College, Dunedin, when, in treating of "The International Mind" he outlined the necessary trend of world thought to win nations from the old individualistic outlook on to that broader basis which is necessary for the fullest attainment of international peace and amity. That address was so weighty as to call for permanent record, and is given in another column, so it may be allowed to speak for itself. As the doctor says in his concluding passage, radio has its part—and no small one at that—to play in the development of the international mind. By it the world is becoming more and more a whispering gallery, enabling nation to listen to nation and people to people.

IN speaking at Urenui last week, the Postmaster-General, the Hon. J. B. Donald, had some observations to make upon the broadcasting service. In essence his remarks added nothing to the statement made by him in Parliament last year, when he intimated that the Government had in view the taking over of the broadcasting service and its development upon a rather grandiose scale. Subsequently in Parliamentary debate the Minister admitted inability to advance details of his scheme, but undertook that, before action would be instituted to put the Government scheme into operation, the full details would be presented to Parliament for its discussion. In the intervening months the Minister has had time to finalise his scheme, but he has done nothing so far to satisfy the natural curiosity of listeners as to the detailed means by which he hopes to achieve his avowed objective. At the Auckland Radio Exhibition he hinted that on the governing body of the future both members of the trade and the listening public would find representation. What is perhaps more to the point from the point of view of both the listener and the taxpayer would be an indication of

the financial obligation involved and an assurance that efficiency and economy would be observed in the conduct of the scheme. These are vital matters requiring consideration and protection, and the time is more than ripe for the Minister to take the public into his confidence on major points. So far the Company would not seem to have been given official advice as to the non-renewal of its contract. In the Minister's words: "It has been given to understand"; but more business-like procedure is required in connection with contractual obligations of the moment involved in this transaction. If the Minister places any reliance at all upon the views of listeners, it would be advisable for his scheme to be promulgated in all vital detail, so that full and frank discussion might be entered upon prior to any possible debate upon the floor of the House. Only by that means will listeners and taxpayers be able to determine whether the scheme offers any advantages over a similar scheme of comprehensive relay stations submitted to the Government by the Radio Broadcasting Company some two and a half years ago.

Plays for Country Women

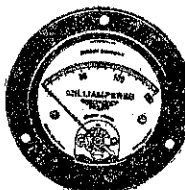
Competition Launched by "Dairy Exporter" and "Radio Record"

RECENTLY, it will be remembered, Miss Elizabeth Blake gave an interesting talk from 2YA upon the possibility of forming a League of Drama in New Zealand on the lines of the organisation conducted in Great Britain. Miss Blake outlined her ideas in full, and they attracted a great deal of interested attention both in city and country. Miss Blake is now in England, but will return early next year and put her ideas into practice.

In the country there now exist some 250 women's institutes. These are gatherings of women designed to promote social contact among those interested in various hobbies and intellectual developments. Many of these Institutes are interested in the presentation of plays, and the scheme promulgated by Miss Blake made a definite appeal to them. As a result of correspondence received from many members of these Institutes, indicating their difficulty in securing suitable plays for presentation among themselves, Tui, the Lady Editor of the "Dairy Exporter," has arranged for a competition for suitable plays for prizes donated by "The New Zealand Dairy Exporter" and "The Radio Record" in conjunction. The plays desired must be capable of presentation wholly by women, and should not take longer than 20 to 30 minutes to present. It is hoped that this competition will produce some interesting talent, and if plays of sufficient merit are found, arrangements may possibly be made for their presentation over the air. The prizes will be £5/5/- for first prize, £4/4/- for second prize, and £3/3/- for third prize; and the following conditions will apply:—

- (1) Plays must be the original work of entrants; typed or written in ink, one side paper only.
- (2) Plays must be capable of presentation by women only, and should occupy approximately 20 to 30 minutes.
- (3) Publication rights of successful plays are reserved to the "Exporter" and "Radio Record," and women's organisations in New Zealand shall be entitled to present the plays without special fees.
- (4) Entries close July 10. Address MS. "Drama," P.O. Box 1001, Wellington. Enclose stamps for return of MS. All care taken, but no responsibility for possible loss of MS.

Mr. Victor Lloyd, the well-known producer and playwright, has kindly consented to act as judge of the plays submitted.



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Two-piano Numbers

WHEN listeners hear two-piano items broadcast from 3YA on June 10, they will probably imagine two pianos standing side by side in a 3YA studio with Miss Maisie Ottey at one keyboard and Miss Merle Miller at the other.

That is the usual way that two-piano items are played, but it is not the way to be followed at 3YA. Instead, Miss Miller and her piano will be in one studio and at the other end of the building, in a different studio, will be Miss Ottey, her fingers "chasing the ivories" on a studio grand.

How is it that, out of sight of each other, they work in unison? The explanation is that by the use of headphones, each knows exactly what the other is doing.

The two artistes have been rehearsing assiduously and the method of inter-communication has proved very satisfactory. A microphone stands beside each piano so that the playing of each performer and any comments she cares to make are conveyed instantly to the other performer in the distant room.

This system of communication was devised to avoid the necessity of having both pianos in one studio for the playing of the items. As both studios are required for the presentation of a programme, the moving of a piano from one studio into another would be an operation which would not only be impracticable, but would probably upset the tuning of the instrument.

German-Polish Radio Pact

To Settle Dispute

A PACT of non-aggression and international co-operation on the ether has recently been concluded by the Polish and German wireless authorities.

Negotiations to this effect were begun as a result of friction arising out of the celebration by the Germans of the anniversary of the Upper Silesian plebiscite. On that occasion a great deal of matter was broadcast from German stations which the Poles regarded as anti-Polish propaganda.

The two parties now declare that they are in full conformity with the principles laid down in 1926 by the International Wireless Council, which read as follows:—

"The Council of the Union expresses the desire that the wireless undertakings should take all possible steps that their programmes dealing with political, religious, economic, intellectual, and artistic matters should in no way violate the spirit of international co-operation which is absolutely essential in order to enable the wireless to fulfil its honourable mission and bring about an international rapprochement."

Simplify DX-ing.

DX CLOCK 9d.
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Radio Licenses Renewals

Drop Representing 25 Per Cent.

THE license figures for the end of April are to hand and reveal the fact that the total number renewed was 46,875, of which 595 are dealers'. This represents drops of 17,460 and 684 respectively on the figures for March 31; the percentages are just over 25 in the case of the grand totals and just over 50 in the case of dealers'. It is interesting to look back at previous returns and see how the figures compare with this year. In 1930, before the licenses fell due, there was a total of 54,800 odd, but only 40,000 renewed, representing a percentage decrease of 25 per cent. The dealers' figures fell from nearly 1200 to 740, a percentage of 35. The year previous there had been approximately 45,000 at the end of the year and 36,500 odd renewed—18 per cent. not renewing.

These figures are interesting and illuminating, particularly in view of the severe economic depression and taking into account the fact that of the number who have not renewed very many intend to and will do so within the next few weeks. This has been the practice of large numbers in previous years, and will undoubtedly prove to be the case this year. The fact that the same percentage renewed this year as last shows that the depression is having little or no effect on the radio listener, and it may be confidently expected that within a short time the previous total of 60,000 odd will be attained and passed. Times, however, are hard with many of the dealers, particularly with the smaller ones and those who run a radio in conjunction with another business. The drop of 50 per cent. is a big one and has been equalled only when the increased fees came into force a couple of years back. The disappearance of the smaller dealer is to a large extent due to the falling-off of the sales of batteries and parts and the growth of the mail-order systems. Following are the detailed figures for April 30, while underneath are the figures for March 31:—

District.	Recrs.	Dealers.	Trns.	Exper. and special.	Free.
Auckland	14,776	192	71	—	84
Canterbury	7,238	118	60	—	36
Otago	5,498	85	27	—	24
Wellington	18,330	200	94	3	39
	45,842	595	252	3	183

Total: 46,875.

District.	Recrs.	Dealers.	Trns.	Exper. and special.	Free.
Auckland	18,913	312	94	2	101
Canterbury	10,486	263	61	2	56
Otago	7,095	188	45	2	35
Wellington	25,968	516	136	6	54
	62,462	1,279	336	12	246

Total: 64,335.

Broadcasting From Aeroplane

Aerial Description of Auckland

ON Saturday afternoon, May 23, an attempt was made to broadcast a description of Auckland as seen by an aeroplane passenger. The experiment was carried out through the collaboration of Falcon Airways, Limited, and Johns, Limited, through the courtesy of the Post and Telegraph Department.

During the week, two members of Messrs. Johns, Limited, staff, Messrs. Marett and White, at a very short notice, assembled a small shortwave transmitting set for the 'plane, and a test was arranged for Saturday between 2 and 3 p.m. Notice was given from 1YA and 1ZR, but only meagre details were announced in the hope that shortwave amateurs would keep off the air during the test. Unfortunately it was spoiled to a large extent by inconsiderate short-wave tuning in before the 'plane rose. Afterwards, however, interference was practically nil.

The 'plane was piloted by Captain Hewitt, with Mr. Marett at the microphone. Mr. R. B. Hardy, of Mt. Eden, the well-known president of the Auckland Lawn Tennis Association, had placed at the disposal of the experimenters his aerial and telephone line, and a relay was carried out from here to 1ZJ. Some difficulty was experienced at first in getting the relay through, chiefly because the 'plane was on the ground, and apparently screened from Mount Albert.

At 3 p.m., however, when the 'plane took the air, and climbed to 6000ft., the signals increased, and steadied, and during the trial flight the signals were very clear and easy to hold at Mount Albert. Every word was heard by the operator, and from reports received as far away as Pukekohe, the experiment was a great success. However, 1ZJ would be very glad to receive any reports from listeners, for, now that a start has been made, it is hoped that further tests will follow.

The test lasted for about half an hour, and reception experienced little difficulty whether the plane was over Mt. Albert or much further away.

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SORE THROAT?

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INVALUABLE PASTILLES for
QUICK RELIEF



New "Micro-ray" may Revolutionise Communication

About two months ago, reference was made in the daily newspapers to a demonstration between Dover and Calais of a new system of radio communication. If this system proves to be of commercial value it will have a far-reaching effect on radio communication. The detailed account herewith presented is interesting and illuminating.

ON March 31 of this year a successful international demonstration of a new ultra-short wave system of communication was made between Dover and Calais. The greater part of the equipment was developed by French engineers in Paris laboratories. In this demonstration a wavelength of 18cms. (7 inches) was used for the first time to provide a high-quality two-way radio telephone circuit. The power required was only half a watt, just sufficient to light a flashlamp bulb!

After the great wavelengths, lofty antennae and tremendous power to which we have become accustomed, commercial radio on such a Lilliputian scale seems almost incredible. But when it is added that mirrors directing a special ray which oscillates one thousand six hundred million times a second play an important part in the functioning of this radio development, it is difficult to visualise what has actually been shown to be a sober, practical fact.

Perfectly normal conversations were exchanged between Dover and Calais, and it was particularly noticeable that the clearness and quality of the speech was well up to the standard of a high-quality telephone circuit.

For the benefit of the layman who has not been initiated into the mysteries of the kilocycles, watts and decibels of the scientist, the working of this new kind of radio communication may be described in the following way. At the transmitting station the sound of the speaker's voice is carried to a device known as a "microradion" tube. In this tube (which is not unlike an ordinary radio valve in appearance) are generated waves which oscillate at a rate of one thousand six hundred million times a second. These "micro-rays," as they are called, are then led by two short transmission lines to a transmitting aerial measuring less than an inch long.

After concentration by the ingenious combination of two reflectors into a fine pencil of rays somewhat similar to the light rays sent out by a search-light, they are thrown into

space. The larger reflector measures about 10 feet in diameter, and is arranged to face in the direction of the distant receiving station. At Calais the "micro-rays" are picked up by another set of reflectors and concentrated upon another one-inch aerial, and transformed by means of another "micro-radion" valve and associated apparatus into speech currents suitable for an ordinary telephone. "Micro-rays" are not subject to the fading which is often encountered in ordinary radio communication, neither are they absorbed by rain or fog, as is the case with light rays. The transmitter and receiver at each side of the Channel are spaced about 100 yards apart, and are linked together to allow the interchange of speech in both directions.

THE circuit can also be used for the facsimile telegraph system. The facsimile machines have been placed in operation between Calais to Dover, and pages of printed text fed into the machine at Calais were reproduced at the speed of approximately one page per minute on the Dover side, thus representing not only a great advantage over the speed of existing telegraph systems, but a saving in expense of attendance, as no key-operating, typing or other preparation of the message is necessary for transmission.

The above demonstration has clearly shown that wavelengths in the range between

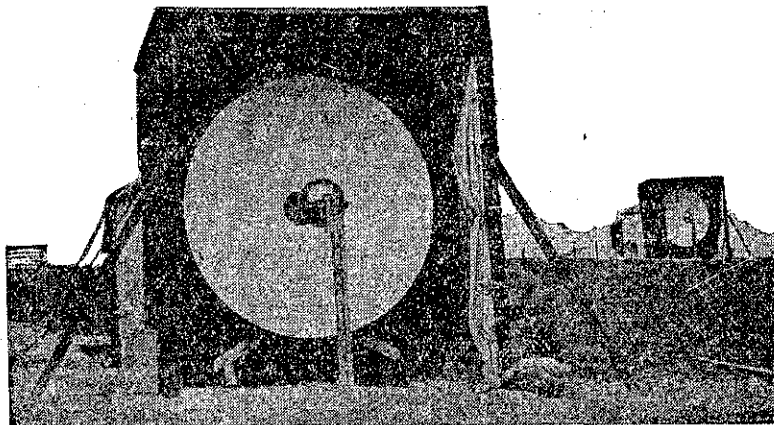
10 and 100 centimetres can be used for commercial radio transmission. The importance of this fundamental advance can hardly be exaggerated, for even if they were made to differ in wavelength to the same degree as is now necessary with ordinary radio transmitters, room could still be found in this "No Man's Land" of radio to accommodate nearly a quarter of a million "micro-ray" transmitters without causing any mutual interference.

Still more astonishing is the fact that if it were physically possible to group such a vast number of stations all together in the same locality they would still work perfectly. It is, of course, inconceivable that such a close concentration will ever be required, but the point serves to show that in what may be termed the "micro-metric" wavelengths there will be no prospect of ether congestion for years to come. In fact, it has been calculated that the range of frequencies or wavelengths placed at our disposal by "micro-rays" working in the "micro-metric" wave band (between 10 and 100 centimetres) is nine times as great as in the whole of the rest of the ordinary radio field.

Apart from its obvious applications in a world communication network, the use of the "micro-ray," which is not affected by climatic conditions, such as fog, and rain, will very greatly extend the usefulness of lighthouses, especially at times when, owing to poor visibility, they are now least effective and most needed.

For maintaining secret communication between aircraft and the land, and between the various ships of a fleet at sea, the "micro-ray" offers fruitful possibilities. Another valuable application will be in the landing of aircraft in darkness or fog. It seems also to offer a sure means for ships to locate each other accurately in foggy weather.

While this successful demonstration proves the practicability of the "micro-ray," further refinements are being tested to prepare it for ordinary commercial application.



The "micro-ray" transmitter (front) and receiver (rear) on the cliffs near Dover.

Programme Jottings

THE Wellington Radio Exhibition opens on Wednesday, June 10, and will run for four days. Every evening the programme from 8 to 9 will be broadcast by 2YA.

Owing to the broadcasting of the programme from the Wellington Radio Exhibition, there will be no international programme from 2YA on Wednesday, June 10.

"The White Owl," a mystery play by the Auckland writer, Dr. George de Clive Lowe, will be produced at 1YA on Friday, June 12, by Mr. J. M. Clark.

Mr. J. Crossley Clitheroe, Lecturer on Music at the Dunedin Training College, is to give a talk at 4YA on Tuesday, June 9, on "The Origins of Music."

The anniversary of the death of Charles Dickens will be commemorated at 4YA by a talk from Mr. D. E. Dall, the well-known elocutionist, on "Charles Dickens, the Man."

"Farmer Brown" dialogues are to be broadcast from 4YA and 3YA every month. The next is scheduled for Wednesday, June 10, at 7.15 p.m.

Mr. G. H. Stubbs, M.A., Inspector of Schools; Mr. E. Douglas Tayler, Supervisor of School Music, and Mr. R. Hipkins, A.R.C.A., Lecturer at Wellington Training College, will be the speakers from 2YA during the educational session from 2 to 3 p.m. on Tuesday, June 9.

Miss Marjorie Alexander, the brilliant young Christchurch pianiste, who was recently awarded one of the Royal Academy Scholarships, is shortly leaving for London, in company with her mother, to take advantage of the educational facilities offered her.

The wrestling authorities in Auckland have granted 1YA permission to broadcast ringside descriptions of matches.

The broadcasting of Health Talks, which are a weekly feature on the programmes of 2YA, are to be extended to 1YA, 3YA and 4YA. Dr. W. H. Watt, Director-General of Health, has advised the Broadcasting Company of his willingness to arrange these talks, which will shortly be appearing on the programme schedules of all the YA stations.

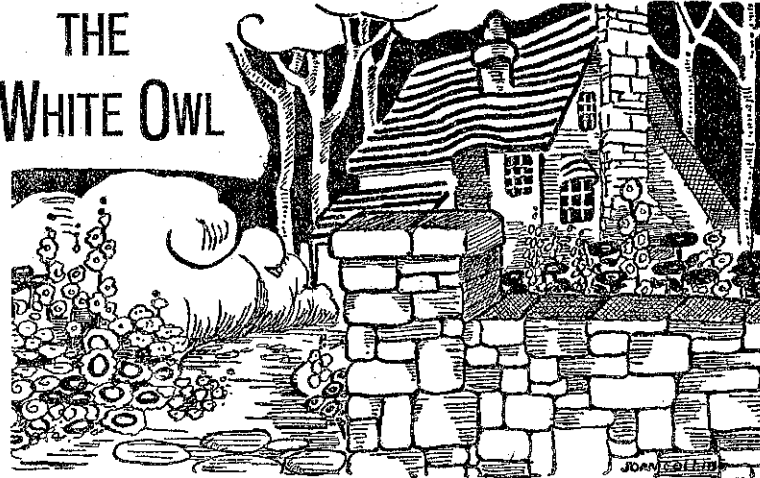
The broadcasting of particulars of lost and stolen motor-cars is proving to have very satisfactory results. At a recent meeting of the North Island (New Zealand) Motor Union a resolution expressing keen appreciation of the most valuable aid was passed.

2YA recently received the following radiogram: "Discovery over 2000 miles away continues to enjoy and appreciate your nightly programmes. Splendid reception. Thank you, Mackenzie." The message was fittingly acknowledged by 2YA.

Radio Taxation Declared Illegal

THE law which was passed last year by the State of South Carolina, imposing a tax on radio sets, has been declared illegal. The basis of the decision is stated to be the fact that as the station WBT (which brought the action) broadcasts beyond the confines of South Carolina it is engaged in interstate commerce, and the tax is therefore an interference with such commerce.

THE WHITE OWL



A Radio Mystery Play from 1YA

Written by Dr.
de Clive Lowe

Produced by Mr.
J. M. Clark

Act 1 Scene: The Drawing-room of "The Priory"—the home of Vesper Edgworth in Hampshire—time, 9 p.m.

Entr'acte—Symphony Orchestra, "Entr'acte and Valse" (from "Coppelia Ballet") (Delibes) (Columbia 05055).

Act 2 Scene: The same as Act 1, 1½-2 hours later.

Entr'acte—Philadelphia Symphony Orchestra, "March of the Smugglers" (from "Carmen") (Bizet) (H.M.V. D1618).

Act 3 Scene The same as Act 1. Six days' later.

FRIDAY, JUNE 12

An Ultra-sensitive "The Maker of Dreams" Microphone American Television Play For Detecting Icebergs

THE liner Leviathan is shortly to be equipped with an ultra-sensitive microphone capable of detecting the presence of icebergs within a distance of five to six miles from the steamer.

The instrument is constructed on the lines of a medical stethoscope, which, by means of a rubber tube, is connected to a diaphragm mounted on the side of the ship below sea level. It is claimed that the microphone will pick up the sounds made by the melting of the ice and the consequent disintegration of the bergs as they drift in the vicinity of the regular trade routes.

AMERICA'S first television play, "The Maker of Dreams," has just been given from the Chicago broadcasting stations W9XAP and WMAQ. Before the transmission was carried out, experiments were conducted to determine the most suitable form of artistes' make-up.

A contemporary states that the Americans are turning their attention seriously to television problems, but it would appear that they are lagging behind Britain, for a television play, "The Man With the Flower in His Mouth," was broadcast in that country a year ago.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE

Children's Sessions

AT 2YA

Monday, June 8: To-night there is to be a playlet called "In a Toy Shop," and in this shop there are cats, roosters, policemen, French dolls, soldiers and Jack Frost. The Kipling Lady will read a story and Uncle Jeff will give answers to puzzles.

Tuesday: A party of students from the Teachers' Training College will be here with Uncle Toby and Jumbo to-night to tell stories and ask riddles. There will be a little surprise. You'll know what it is at 5 o'clock.

Wednesday: Aunt Daisy again to-night with her happy band of Cheerful Chirpers, who will entertain you with the songs you all know. There will be the Birthday Greetings, riddles, jokes and stories. Altogether, it will be a happy hour.

Thursday: Three Cheers!!! Here come "The Optimists." What happy boys they are with their carefully-planned surprise. Uncle Len will tell you stories, and Uncle George with Big Brother Jack will play games with them all.

Friday: Do you remember what a lovely time we had with the boys from Rongotai College? Uncle Noel will be with them this time, and they are bringing their orchestra and choir. Uncle Jim has some new riddles to ask them.

Saturday: Mrs. Victor Lloyd is bringing a party of children to-night to take Aunt Molly, Uncle Jasper and Spot off to Nurseryland, where they will find "Little Boy Blue" blowing on his horn, and a nursery doll dancing a clog dance. They also meet old Mother Hubbard and her dog.

Sunday: The Children's Evening Song Service will be conducted by Uncle George, and the little children from the Vivian Street Baptist Church will assist.

AT 3YA

Monday, June 8: Cousin Margot has several little folk to introduce to you this evening. Lads from the Medbury School, Fendalton, will sing solos and choruses and tell stories.

Wednesday: All are sure to like Uncle John's stories to-night and Cousin Beatrice has nice little songs to sing and more of adventures of Mr. Elephant to tell.

Thursday: "How do you do?" The Thursday Trio—Uncle Frank, Uncle Dick and Ladybird. They have nice varied fare for you all.

Friday: Chuckle! How is Mr. Scroggins to-night? And pupils of Miss Naare Hooper are going to give lots of fun.

Saturday: The birthday greetings are very important on Saturday, when Aunt Pat tells you all about the fairies and how busy they have been. Uncle Charlie has lots of music and stories for all.

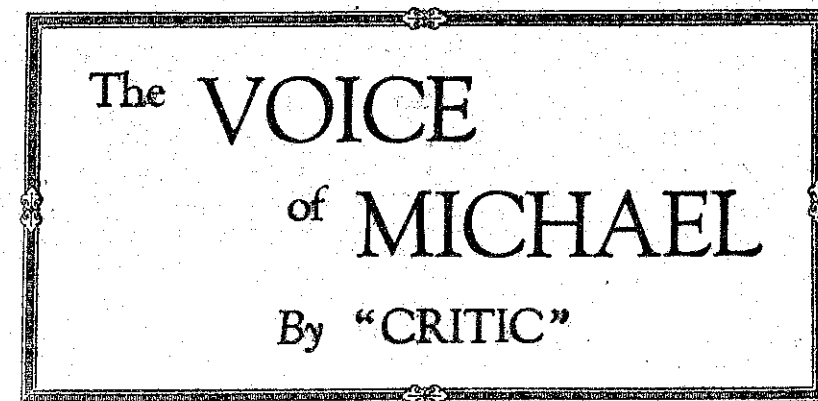
Sunday: To-night, the Rev. A. McNeur will talk to the children and scholars of the St. Andrews' Presbyterian Sunday School will sing hymns.

Impressions

I ENJOYED Sir James Parr's talk from IYA on Tuesday. His delivery was very natural, and forceful. His talk dealt with his experiences with, and impressions of, the League of Nations and, dealt with in a personal manner, proved most entertaining. Sir James, in his capacity of High Commissioner for New Zealand, represented this Dominion at the League's Annual Conferences during the term of his office. He explained that in the League Conferences each Dominion of the Empire is treated as a separate entity, and has an independent vote from that of the Mother Country. Needless to say, the component parts of the Empire endeavour to act and vote in accordance with each other. An interesting point which Sir James emphasised was the desirability not only of New Zealand supporting the League's work, but also the need, when the economic position improves, of augmenting our representation at Geneva. So far, of the fifty odd countries and nations represented, we invariably have the smallest representation. This is apt to lessen our importance in the eyes of the Latin and Eastern representatives, whose love of show is well known. The speaker suggested that, when times permitted of the comparatively small expenditure, New Zealand should arrange for at least one more representative, not necessarily a politician, to accompany the High Commissioner on his annual visit. Another fact, which may not be generally known, is that French and English are the only two official languages of the League and—what a blow to our national pride!—quite 90 per cent. of the delegates adopt French for the delivery of their speeches! Whichever language is used, the official interpreter, immediately upon completion of the speech, translates it into the other tongue. This talk was vivid and full of interesting information, and I imagine that all who heard it have an added respect for the work of the League. While the League of Nations may not be big enough to quell a war between two big powers bent on destroying each other, still, it can, and does, quench many of those minor conflagrations which, unfortunately, so often lead to a raging fire of such dimensions as will finish only by self-extinction. The League may thus be likened to a patent fire extinguisher in a big building—serving a very useful purpose if applied in time.

Of Talking.

THE debate from Victoria College on Friday evening I found rather less informative and enjoyable than I had hoped would be the case. All the speakers had obviously devoted much time and study to the preparation of their matter upon the failure or otherwise of democracy. I must particularly compliment Mr. Mountjoy upon his opening address. Although Professor Cornish, for the good of Mr. Mountjoy's soul and to correct his outstanding fault of undue rapidity of utterance, placed him but fourth in order of merit, I must confess that I regarded Mr. Mountjoy's effort as the best of the evening. In fluency and eloquence it had no rival, and although the Professor complained that some of his hearers found themselves unable to absorb the intellectual nourishment offered on account of the rapidity of his presentation, I found no such difficulty: Michael brought Mr. Mountjoy's voice



to me quite clearly, and I found distinct pleasure in appreciating his arguments. They were given well, and he was less disconcerted by the interruptions of hecklers than other speakers. Miss Forde made her points with admirable lucidity, but I agree with Professor Cornish that Miss Henderson did not give of her best. Mr. Watson, in seconding Miss Forde, was fairly effective. On the subsequent speakers I am unable to comment, because their names were not audible. I particularly agree with the admonitions



J. M. CLARK

The well-known Auckland producer of Radio plays, who this week will be presenting the "White Owl," written by Dr. de Clive Lowe, of Auckland.

—S. P. Andrew, photo.

delivered by Professor Cornish to the audience upon the poorness of its efforts in the field of interjection. "Wait," he said, "until you see a good opening before interjecting." "That is what I did," claimed a pathetic voice. "Probably you are the only one then," tactfully agreed the Professor. Wit is certainly never successful when 'tis strained. Spontaneity is its very essence. As a whole, the debate was less interesting and successful than one given formerly, but it was still an entertaining novelty, and I would not be averse to another. From the listeners' point of view, undue heckling from the audience is not desirable.

Modern Education

THE old phrase "Boys will be boys" is in danger of becoming even more meaningless! For our past methods of handling the species are definitely obsolete and taboo. Even Solomon with his "spare the rod and spoil the child," quoted with unction by an irate parent, and with hatred by suffering youth, is no longer regarded as a seer. How joyfully the younger generation of to-day must welcome the change in the order of things! Mr. A. Salmond, in an interesting and arresting talk from 4YA on Monday, certainly left us in no doubt as to the side which he supports. No longer may the dullard be trounced for his lack of brain. Does the musician, striking a false note, hurl his instrument (always providing he is not a pianist) from him. No! He coaxes, wheedles and draws the melody forth. This should be the adopted manner with backward youth. I am inclined to agree. Perhaps the fact that I was a constant attendant at the shrine of the cane arouses my sympathies. But these methods can be taken too far. When I learn that in future boys will be trained to give dissertations and lectures to and by themselves, I shudder for the future parent. What unsophisticated little prigs will be reared into the world! Picture the dazzling wit and knowledge displayed at the family table when Simon and Andrew return for the holidays! Imagine the horrible plight of the poor father approached for information on an economic problem by James (not Jimmy, of course), aged seven and a bit. Father knows that bluff will no longer serve; he must stand confessed an ignorant accident of the previous and obsolete generation: a crying shame to James himself! Poor James! Poor father! "What shall we get for James this year, dear? Another volume of what's-his-name in the original? Very well."

Boots—and More Boots

We're foot-slog-slog-slogging over Africa!
Foot - foot - foot - foot - slogging over Africa!
(Boots - boots - boots - boots - Moving up and down again!)
There's no discharge in war!

IT'S an ill wind that blows no one any good. Had the inimitable Rudyard Kipling any other thoughts than the obvious in his mind when he wrote the above? At all events, Mr. J. A. East, in his talk from 3YA on Friday, ascribes the demand for boots in the Boer and other wars of the period as the definite

cause of the establishment of the machine-made boot. Like most other industries, the provision of boots and shoes, the development of the business, the brains and industry which have gone into it during the last century make quite a romance. I am sure the speaker will take no offence when I say that his rugged voice and his faint dialect were, on this occasion, valuable assets to such a talk. For I harbour a deep feeling of awe for cobblers (and this talk was a veritable "Cobbler's Song"). They are always advanced in their views; most of them are excitingly radical and not a few have gone even further than that! Does the contemplation of much shoe leather have anything to do with it? It may—I know that when I see a hole appearing in the sole of my shoes, or the heel adopting a dangerous angle, I have advanced views, too; most lurid in fact.

China

ON Tuesday I had the pleasure of hearing Dr. Guy H. Scholefield, O.B.E., give another of his international talks from 2YA. Obviously having regard to the two distinguished gentlemen from China who are visiting us just now, the speaker chose China for the subject of his talk. Considering the magnitude and vastness of his topic, the Doctor did very well. Without attempting to do more than skim over the more recent events which have changed that vast Republic, he explained something of the aims and ambitions of the leaders of modern China. With a civilisation which dates back to the time when our ancestors were running round in dog skins and stealing each other's wives (we no longer wear dog skins) China has always surrounded itself with an aura of mystery as intriguing as it is fathomless. As an example of the magnitude of the task which such modern leaders as the late Sun Yat Sen set themselves, let it be remembered that China represents a population of four hundred millions, all of one race but, although possessing a common language, using dialects which makes a man of the North incomprehensible to a man of the South, East or West, and having a conservatism which must be experienced to be believed. In face of this obstacle the Modernists succeeded in overthrowing the Dynasty of the Manchu Emperors, which had ruled the destiny of China for centuries: they have since established a responsible government in Nankin (overthrowing the power of ancient Peking), and have persuaded Great Britain that they are sufficiently capable of maintaining law and order as to permit the Mother Country to leave the safety of her subjects in China to the Chinese. This is an achievement at which we must all marvel. As to the future of China—who can prophesy?

"Orchard Work"

THE dialogue between Messrs. B. G. Goodwin and J. D. Carolin, of the Department of Agriculture, given from 3YA on Thursday, was excellently well done. The two representatives of the orchardist and his instructor were most natural. The former did not sound like a lunatic whose right vocation should be growing parsnips, nor did the instructor unnecessarily adopt an air of vast wisdom and knowledge. An interesting point to all apple growers is that the brown spots sometimes apparent on the leaves of

Relay of P Speech

Fading Overcome

AN automatic volume control used by members of the American Amateur Radio Relay League successfully overcame fading during their relay of the Pope's speech from the Vatican City station. The transmission, which was picked up on a specially-designed two-valve short-wave converter employed as a short-wave "superhet," was amplified in turn by a standard superheterodyne broadcast receiver, which fed through a coupling device into the telephone lines linking all the stations of the Columbia chain.

apple trees (particularly in Stürmers and Cox's) is more often than not due to lack of potash in the soil. How often have you, reader, got yourself into a holy mess spraying trees to eradicate this seeming blight?

Mental Health

A VALUABLE contribution was made by Professor Shelley in his talk from 3YA on Friday. As is so often the case, the ancients were not so far out in their diagnosis of the cause of much ill-health which they often attributed to "evil spirits" and "humours." The speaker, in a most able talk, clearly showed that much evil may be caused by harbouring undesirable thoughts; by shutting oneself in with ideas that rankle and poison the body. Get rid of such noxious growths; confide in a trustworthy friend; the very ventilation of your troubles will probably dissipate them. Shakespeare said "Canst thou kill a mind diseased?" Perhaps not, but you can go a long way towards curing one. In very ancient times (just before "The Good Old Days") medicine men drilled holes in the heads of sufferers to let out evil spirits. We have recently discovered that Nature provided a hole ready made, just between the chin and the nose, which serves the purpose admirably. Can we not apply the remedy to the present national disease "Depression"? Are we as sick as we would have people believe?

NOTES and NEWS
from the NORTH

(By "Call Up.")

THE first of the International Recorded Programmes from 1YA on Tuesday evening was a decided success, and was obviously appreciated by the majority of listeners. Sir James Parr opened the programme with an interesting speech, and it will be the custom at the station for these International Programmes to begin each Tuesday with a talk by different men representing different walks of life. The schedule of speakers and subjects for the next few weeks is as follows:—

June 2—"Sea Power and Freedom," by "Lee-fore-Brace," well-known nautical writer of the Auckland "Star."

June 9—"International Law," by Mr. Julius Hogben, a leading Auckland legal man.

June 16—"The Pacific Yesterday, Today and To-morrow," by Mr. A. B. Chappell, M.A.

June 23—"International Music of the Present Day," by Mrs. Gordon Robertson.

June 30—Talk by Rev. W. G. Monckton, a brilliant lecturer and well-known writer.

July 7—Talk by Mr. Walter Boyle, American Consul.

It can be seen from the above list that no effort has been spared in securing the best speakers available, and these talks should be well worth listening to.

WITH regard to the International programmes from 1YA, "Call Up" has heard several listeners ask why these have not replaced the silent night, as 2YA, instead of taking the place of a former night's programme by local artists. The International Programmes have not been scheduled for Mondays, as that night is usually devoted to wrestling relays during the winter. As it is, 1YA has practically no silent nights, and figures show that last year the Auckland station was actually on the air a few more hours than 2YA.

DR. GEORGE DE CLIVE LOWE, who has made quite a reputation for himself as a writer of radio plays, is the author of a mystery thriller to be presented from 1YA on June 12. This is a three-act play entitled "The White Owl," which is being produced by Mr. J. M. Clark, to whom it is dedicated. The whole action takes place in the drawing-room of an English priory, and listeners will be kept guessing until a startling denouement in the third act. If "Call Up" may be permitted to give listeners a hint in connection with this, it is to turn out the lights during the play. In the darkness one can concentrate much better, and thrills are more easily appreciated.

A NEW feature being inaugurated at 1YA is a regular weekly sports talk at 7.40 p.m. on Friday evenings. These are expected to cover a fairly wide range and are sure to be appreciated by a large number of listeners. The Auckland station has always catered well for sporting listeners, probably relaying more sporting functions than any other station in the Dominion, and this latest innovation is an indication that it is intended to continue this policy—a most popular one.

AMONG a number of new artists to be heard from 1YA for the first time during the next week or two are the following:—Mrs. Dorothy Steer, soprano, and Miss Pulman, contralto, who will sing solos and duets on June 10; Mr. Laurie Stuart, baritone, who has sung from 4YA, June 14; Mr. J. A. Shanks, a very fine baritone, late of Wanganui, June 21; Mr. W. S. Burton, tenor, June 24; and Mrs. F. Budin, mezzo-soprano, June 26.

"LEE-FORE-BRACE," a noted authority on nautical matters and a regular writer in the "Auckland Star," will shortly commence giving from 1YA a series of stories of the sea. "Lee-fore-Brace" spent many years at sea, and has collaborated with Lubbock, world-famous writer on the sea, so that he knows his subject thoroughly. His stories will be of the old days of sail, of famous old tea clippers, the Californian gold rush, and old windjammers full of romance and adventure.

Microphone Whispers

Community singing is as popular in Auckland this winter as ever.

The 1YA Broadcasting Choir will present "Hymn of Praise," by Mendelssohn, on June 28.

On June 25 1YA will relay a concert by the Leys Institute Orchestra from the Lewis Eady Hall.

Auckland Radio Exhibition is to be an annual affair in future.

Browning Drake

Reaction Control

PIAKO (Hauraki Plains) writes: "I discovered an error in the 'Guide' for 1929-30, p. 76. I constructed my two-stage r.f. Browning-Drake from this, and could never understand why the regeneration control conductor made no difference. I noticed that other constructors had the same experience. I wrote you about it, and you advised me to revert to the old rotating coil tickler. It is only quite recently that I discovered the reason of its failure to act, and on making the alteration the condenser control works very efficiently.

SEVERAL listeners using crystal sets and situated in the Hutt Valley have complained to us that they cannot get the new Wellington Station 2ZW, although they have constructed the "Rejecta" Crystal Set. We would like to hear from any reader in this district who has listened to 2ZW on any crystal set and if so, on what type.

In the theoretical diagram, which is the correct one, the plate current is prevented by the choke from getting to the fixed .001 mfd. condenser. In the pictorial diagram, the choke does not come between the plate and the fixed condenser.

[Our correspondent has pointed out an error which certainly exists, and may cause non-operation of the condenser. Anomalies between layout and theoretical diagrams unfortunately occur, and in these cases it is best to follow the later.—Tech. Ed.]

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Our D.X. Club

Replies to Correspondents

C.L.V. (Rakaia): For particulars of 4ZW, see "DX Topics." Your log for the type of set you are using is excellent. Your suggestion re publication of the latest N.Z. "B" stations has been noted.

E.R.L. (—): Names of commercial sets should not be used as nouns-de-plume. The particulars of the stations for which you require identification are very meagre. No one could assist you. See the hints on DX-ing given by B.W. (Stratford) in "DX Topics." You would stand a much better chance of picking up Americans if you heightened your aerial.

W.H. (Blackball): Your log is excellent, and is certainly worth entering in the DX Competition. Your set is well-known for its DX capabilities.

A.MATEUR (Manton): For particulars of 4ZW, see "DX Topics." "Differential Two" short-wave coil may be obtained from any of the firms specialising in mail order service. Several of these advertise regularly in the "Radio Record."

DX Topics

Golden Rules for the DX'er.

B.W. (Stratford) writes in, remarking that some of the queries in the "Identification Wanted" column are very vague and almost impossible to identify. He gives the following hints for the edification of beginners:—

"Exercise your patience to the extreme limit. Don't rush an inquiry to the DX page, but try to identify the station yourself first. You will derive much more satisfaction.

If conditions are too bad, make a note of the time and try again. That's the meaning of DX'ing.

It is better to identify a station yourself than to have someone do it for you. Stick to a station and you will be certain to pick up something that will lead to its identification. You will soon develop a DX "ear."

Before writing in try to decipher a part of the call sign or at least some particulars concerning items, etc. Don't forget to mention time of reception. Always look up the DX pages of the few previous issues and you will quite likely find what you want. Make a note of unfamiliar stations that appear from time to time in DX notes, for they may be useful to you later on. If you have some idea what station you are looking for it makes it much easier to identify.

Particulars of N.Z.B's.

THE following are particulars of the number of N.Z. "B" class stations all taken from recently received verification cards:—"Red Bird" (Wellington).

Station.	Metres.	K.C.
22L, Hastings	226	1330
22O, P. North	285	1050
12B, Auckland	275	1090
22J, Gisborne	260	1150
22K, Wanganui	500	600
22H, Napier	238	1260
12R, Auckland	275	1090
22F, P. North	285	1050
22I, Hastings	226	1330
2YB, N. Plymouth	243	1230
82C, Christchurch	250	1200
32R, Greymouth	366	820

Logging London—on Relay.

DO all Australian stations received on the daytime count in the DX Competition? (Yes.—Ed.) Recently I heard

W.E.A. Debate

Canterbury v. Otago

A DEBATE, to be conducted on relay between Otago and Canterbury, will take place on Wednesday, June 17, and will be broadcast by 3YA and 4YA. The subject will be: "That the Democratic Control of the State has Outlived Its Usefulness."

The Canterbury team will be: Mr. W. Stewart (leader), Miss M. McLean and Mr. R. A. Bruce.

Mr. W. Bridgeman (leader), Mrs. Webster and Mr. E. Langford will represent Otago.

The judge will be Professor James Shelley, of Canterbury College.

Book Review

Practical Radio Repair Hints. (By "Rider.")

THIS is a book that can thoroughly be recommended to radio servicemen, as it deals comprehensively with all the difficulties that are likely to be encountered in the course of radio servicing. Starting with a chapter on circuit continuity, the book takes its readers through such topics as distribution of current in A.C. receivers, automatic volume control, the use of a set analyser, condensers (including grid condensers, by-pass, audio plate filter and circuit blocking condensers: in fact every type of condenser imaginable, including the electrolytic condenser). Radio frequency and audio frequency chokes are fully discussed as are A.F. and output transformers, valves, volume controls, resistances, electrical interference, storage batteries, automobile radio, speakers, gramophone pickups and a host of other topics. Simple tests and hints of value, not only to the serviceman, but to the general listener are also included. For instance, here is a paragraph in this last-mentioned section headed, "Screen-Grid Tube Control Grid Clips." "A very satisfactory grid clip suitable for use with a screen-grid tube may be fashioned from a Farnstock clip. Bend the clip back until it fits over the control grid terminal." Certainly a useful hint, but just who would have thought of it? The Farnstock clip, by the way, is the brass spring that is found on some types of "B" batteries. This chapter on simple tests and hints is one that is well worth studying.

A reference section contains data and useful radio tables and charts. Included in this chapter are some very useful tables giving the resistances of well-known and widely used makes of ammeters and milliameters. This is indeed handy where accurate work is to be done. There are many coil-winding charts and tables. The book is published by the Radio Treatise Company, New York. Our copy came through the Te Aro Book Depot, Wellington.

2FC relaying to Newcastle a dance programme from 2LO, London. In a case such as this would it be correct to claim the logging of London—L.R.D. (P.N.).

(Do you think that a crystal set owner listening to Wellington, relaying PCJ, Holland could claim direct reception of the latter station?—Ed.)

Educational Session

Next Tuesday's Programme

THE lecturers and their subjects for the 2YA Educational Session, from 2 to 3 p.m., next Tuesday, June 9, will be:—

Mr. G. H. Stubbs, M.A., Inspector of Schools, Wellington, who will relate "An Incident in the Maori Wars."

Mr. E. Douglas Tayler will continue his talks on folk-song, introducing poachers, the press-gang and pirates. The children will sing "The Outlaws."

Mr. R. Hipkins, A.R.C.A., Lecturer, Wellington Training College, will give a lesson on "Potato Printing."

For this lesson each child should be provided with the following:—

- (1) A sheet of newspaper to keep the desk clean.
- (2) A medium-sized potato cut cleanly in half with a table knife.
- (3) A pocket-knife or safety-razor blade.
- (4) A water-colour brush.
- (5) A small quantity of red ink, Indian ink or water-colour.
- (6) A sheet of white drawing paper.

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Addresses & Addresses Wanted

"DAYLIGHT" (Westport). National Broadcasting Stations 2FC and 2BL Sydney, 4QG Brisbane and 2NC Newcastle should be quite sufficient.

L. R.D. (P.N.): WTAM, N.B.C., Cleveland, Ohio. WOAI, Southern Equipment Co., San Antonio, Texas. KTRM is wanted.

Answers to Correspondents

RADIO 3 (Hillgrove): Yes, 9 a.m. N.Z. time, is unquestionably daylight. Your log is excellent.

A. L. BEALE (Napier): You heard KRDL, Dallas, Texas, relaying from San Francisco reception to Emperor of Japan.

Stations Identified

"RED BIRD" (Wellington). 1ZR, Auckland, broadcasts on 275.2 m. (1090 k.c.) according to the "Guide" but I receive him on about 260.9 m. (1150 k.c.). I also receive 4ZO on approximately 285 m. (1050 k.c.) instead of 277 m. WSK. (Nelson). Probably 1ZQ Auckland on 252 metres (1190 k.c.). He commences with "Hullo," repeated three times. 4ZI is in Dunedin, not Invercargill.—"Six Valve" (Christchurch).

J. P.B. (Invercargill). Station on 484 m. (620 k.c.) is KZRM Radio Manila, and station on 500 metres (600 k.c.) is KFSD, San Diego, California. W.H. (Blackhall).

W.S.K. (Nelson). Station you heard "calling" "Hullo, one, two, three, etc." is 3DB, Melbourne, who has been testing for some time now. "Big Boy" (Timaru). Station on 285.5 m. (1050 k.c.) is KNX, "The Voice of Hollywood," Western Broadcast Company, Hollywood, California. 5KW. On April 5, he was on the air till 5 a.m., broadcasting a description of the "Hollywood Sunrise Service."—"Vogeltown" (N.P.).

W.H.R. (Dunedin). The Jap on 580 k.c. (517 metres) is one of the twin wavelengths of JOAK. The other is 845 m. (870 k.c.). I can find no mention of station 3RT, Melbourne, in the latest call book.—"Red Bird" (Wellington).

H.F.A. (Masterton): KNX, Hollywood, California. C. Jowett (New Brighton), "Inquirer" (Christchurch), and H.M. (Dunedin): KZRM, Manila. "Frequency Cop" (Auckland) WGN, Chicago, on 720 k.c. (416 m.). A.M. (Dunedin) and "Inquirer" (Christchurch): Station on 850 k.c. is VUB, Bombay. He strikes a gong several times before and after each item. KZRM, Manila, broadcasts on 3AR's frequency. "Dink" (Helensville): Station on 1140 k.c. (262 m.) is 2ZD, Masterton. Power, 2½ watts. WDX (Seaton): KOIN, between 3UZ and 2GB. American on 590 k.c. is KHQ, Spokane. "Static" (Nelson): 4ZW, Dunedin. "Dud" (Taneatua): WKBE, La Crosse, Wisconsin.—N. Jenkins (Masterton).

H.F.A. (Masterton): WTIC, Hartford. W.D.X. (Seaton), "A.M." (Dunedin): Yes, 3TR, Trafalgar, on 234 m. (1230 k.c.), is on the air and has been for some time. Station between 7ZL and 3AR was probably a Japanese relay station with a lecture which usually concludes at the time you mention. "Frequency Cop" (Auckland): Station heterodyning 2YA was probably OKMO (see last week's DX notes). "P.K.B." (Oamaru): 3BA, Ballarat.—R.T.R. (Palmerston North).

News and Views of the D.X. CLUB

Identification Wanted

AT 7.30 a.m. on the 23rd, station heard between 2AY and 3GL. Item heard: "Under a Texas Moon."—"Detector."

TEXAS station, operating on 3GB Melbourne's frequency, heard giving a call resembling "WAI." Also a Californian station on 3LO's frequency announcing a call resembling "JBO." (Your log is excellent for the type of set you are using.—Ed.)

ON the 22nd station on approximately 900 k.c. (333 metres) at 11.27 (N.Z. St. time) a man announced that a record

The DX Club

As has been announced previously, it is desired to form a Constituted DX Club. The "Radio Record" in order to help will call a meeting of DX'ers to be held on Thursday, June 11, that is, during the Wellington Radio Exhibition. This will be a Round Table Conference, when all ideas will be discussed. As readers situated out of Wellington are equally interested in the DX Club, we wish to hear from them before this date in order that their suggestions may be considered. A suggested constitution will then be published, and will probably be elected by a postal vote. DX'ers are invited to attend the "Radio Record" Office, Third Floor, "Dominion" Building, Wellington, at 8 o'clock on Thursday, June 11.

EA874 had just been played. Then at 11.45, "Telling it to the Daisies" was played followed by a male solo at 11.48. The station closed down at midnight. I lost the announcement each time through an intermittent buzzing due, I think, to a local power line. Strength about R4. QSA3. At 6.45 p.m. on the 24th another station on the same frequency was heard at R2, playing "Here comes the Sun," followed by applause. Then the first station came on the air and I could get nothing more. L.R.B. (Roslyn).

FRENCH shortwaver heard calling Saigon on May 2 while 2YA was relaying PCJ. Wave length about 25.65 m., as far above G5SW as 3RO is below it. He concluded with the "Marseillaise" at 5.30 p.m. Volume was excellent. I have heard him on other mornings come on the air at 8.30 a.m. and with the exception of "Ello, ello," speech is always in French. At 6.30 p.m. on the 22nd a talk on "An American's Adventures in Eastern Siberia" was picked up, slightly below VL2 on 36 metres. This was evidently a test reading given at various distances from the microphone. I recently heard 2MB complaining about the results of the cricket scores as they had been sent to him. "The scores as received here are all upside down." But isn't that just how they should arrive in this hemisphere?—G. Fraser (Ohura).

AT 5.30 p.m. on May 17 American just above 3YA on 63 heard closing down: "The time is now exactly 1 a.m. Eastern Standard Time. We hope all

listeners have enjoyed our programme. Good-bye, everybody."—"Digger."

THREE Australian stations heard at 12.15 a.m. on May 15 on 216, 211, 208 metres. Think station on 211 m. was 3WE or B.—R.T.R. (Palmerston N.).

WHAT station heterodynes 4QG at about 10 p.m.?—Radio 3 (Hillgrove).

DX Topics

A 50-Watt American.

WOULD it be possible to publish the log of the winner in the forthcoming competition? I recently received a verification from KVL, Seattle, Washington, stating that I had heard their old transmitter on a power of 50 watts. Other verifications to hand included WAPL, WBT, CNRV, KFKA, KGFI, C.V.B. (North Auckland).

[As announced last week, the winning log will be published.—Ed.]

Station 3BL.

"BUNG" (Waikato).—There certainly is a station 3BL, for I have heard his call distinctly several times. Address is J. C. Titchett, 13 Holmwood Avenue, Brighton.—"Rey De O" (Chech).

New Dunedin Station.

ON the 23rd I heard a station on 178 m. (1080 k.c.) giving the call "4ZW, Dunedin testing." He was heard with good volume R3 max. on speaker from 9.40 p.m. to 10.12 p.m., with occasional fading.—"Thrace" (P.N.).

XOL, China.

THE new Wellington "B" station 2ZW was heard on the 24th very clearly with volume equal to that of any of the YA stations. My locality seems to be unfavourable for American reception, as I have not heard the faintest suggestion of one yet, though I am using an 8-valve commercial super-het. Would the station between 3AR and 7ZL heard by several DX'ers, be XOL, China? I, too, have heard this station approx. 610 k.c. (492 m.), and although I have not heard the call sign a friend of mine has, though he had to wait three-quarters of an hour until the closing down announcement was made.—L.R.B. (Roslyn).

Synchronised Transmission.

IN a recent verification from WADX, Jackson, Miss., they state that they have received 15 reports from New Zealand on their transmission of February 28. Has anyone yet heard WTIC and WEAJ synchronising? The latter rings the customary chime bell, and then gives its call sign for a period of five seconds. In the following five seconds WTIC will do likewise. The manager of the latter station would like to know if both these local announcements are received, and if not, which one comes through. So far I have been unable to pick these transmissions up to the 660 k.c. band (454m.), although I have heard WTIC on 1080 k.c. (283m.), on several occasions.—"Rangi" (P.N.).

Particulars of 2AY.

THE following particulars re 2AY, Albany, has been received from the station manager. Schedule (N.Z. st. time), Monday to Saturday, 8.30 a.m. to 12 p.m.; Sunday, 9 p.m. to 11.30 p.m. Items consist of player piano music, interspersed with numbers by artists.

Thursday nights an impromptu concert is presented from the studio, and on Friday dance music is relayed from the Ritz ballroom. Sunday nights, church service or semi-sacred recorded concert. In addition, sporting results, stock sales and items of general interest are always given. Transmission describing sports, horse races, etc., are according to fixtures. 2AY operates on 1320 k.c. (227m.), with a power of 50 watts in the aerial. Over 200 New Zealand listeners have forwarded reports which have been duly verified. Address, 610 Dean Street, Albany.

Recent Loggings.

AT present WOAI, San Antonio, 1190 k.c. (252 m.), is my best American. On May 22 I had him from 4.30 p.m. till 5 p.m. at good loudspeaker strength. He gave a news session before closing and every word could be plainly understood many feet away from the speaker. At 4 p.m. on May 24 the following stations were heard at good strength on the phones: KTHS, Hot Springs; WENR, Chicago; WFAA, Dallas; 2BL and 2FC, Sydney; 1ZR, Auckland, and 3ZR, Grey-mouth. On May 26, at 1.30 p.m., I had 2FC, Sydney, at good strength for daylight reception. A.M. (Dunedin): I heard 3TR, Trafalgar, several months ago, but not lately.—N. Jenkins (Masterton).

Foreigner Below 3YA.

LATELY I have frequently heard a foreign station slightly below 3YA, on 1000 to 1020 k.c. He comes in well at dusk. The music and announcements appear to be very like that which comes from the Russian shortwave station. At first I thought it was an American and announcements blurred by power induction, but last Sunday I was visiting in the country and heard the station very plainly. Has any other DX'er heard this station?—L.I. (Gisborne).

Jap. Programme.

ON Friday afternoon, May 22, at 4.7 p.m., I was amazed to hear speech in Japanese on 870 k.c. I heard four high-class recordings (songs), followed by a dialogue in Japanese; then two jazz recordings. After each item the announcements were in Japanese. At about 5 p.m. WENR, Chicago, drowned him out. I have written a report to JOAK.—L.I. (Gisborne).

American Relay of Japan.

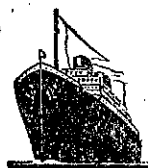
AN interesting programme was broadcast from KRND, Dallas, at approx. 5.9 p.m. on May 28, when the Emperor of Japan spoke on relay from San Francisco. It was received here at good volume, but the speakers' voices were rather muffled. On the same night 4ZO

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2YA Heterodyned.

IS it possible to shift 2YA's frequency as he is heterodyning very badly down here with 5CL, Adelaide? Does this heterodyning affect the tone of a station at all, as 2YA is very high-pitched at times? The community singing which lasted for a short while last Sunday evening from 2YA was very enjoyable, and it is a wonder we are not given more of it on week-days, like the Australian stations.—B.W.D. (Invercargill).

[Were the complaint general in any district it is possible that the Post and Telegraph Department would consent to the frequency being changed. We should like to hear from other listeners on this score. A heterodyning station will often cause distortion.—Ed.]

Good Music.

OWING to the recent quake here in Napier we have practically no musical entertainments of any description, consequently the splendid 2YA musical programmes are more than welcome, and I can assure you they are much enjoyed and highly appreciated. First of all, if I may, I wish to thank 2YA so much for the excellent music supplied by the Orchestra. This combination is generally accepted and considered by all true music lovers as the most delightful and efficient organisation of its kind on the air, not excluding even other stations across the Tasman. It is verily a miniature symphony orchestra. At times it is difficult to distinguish their playing from that of one of the good gramophone records. Last Monday night a very musical friend of mine was listening to the rendering of the "Faust" ballet music played by the Orchestra, and it took some time to convince him that it was not a record. This should speak for itself. I shall be greatly obliged if you will convey my hearty thanks and congratulations to every member of the Orchestra and their brilliant conductor for their ever consistently magnificent musical

appeared on their correct wavelength, thus clearing up a great deal of interference.—E.J.R. (P.N.).

KJR, Seattle.

I RECEIVED KJR, Seattle, last night at wonderful volume right alongside 3YA, Christchurch, which I was able to tune out over three-quarters of a degree. Could you or any DXer supply me with the correct address of KJR? I held him for over an hour. KGER also came in very loudly with the volume at 1 o'clock.—H. D. Hunt (Nelson).

[KJR, Northwest Broadcasting System, Inc., Seattle, Washington.]

New Schedules.

IN this week's DX columns are several reports of 4ZW, the new private station. Their address is: Radio Sales and Exchange, Ltd., Excelsior Hotel Corner, Princes Street, Dunedin. Their schedule: Daily, 7-9.45 a.m., 1-3 p.m.; Saturday, 7-11 p.m. They broadcast on 1080 k.c. (277.8 m.). At present their power is approximately 50-80 watts, which they hope to soon step up to 150 watts. Their call is three rising beats of a bell, then 4ZW, the theatre of the air, followed by a repeat of the three rising beats. Their slogan was changed from the "Voice of Authority" to the "Theatre of the Air." Their schedule of 3ZR according to their QSL is: Monday, 7-9 a.m.; Tuesday, 6-10 p.m.; Thursday, 6-10 p.m.; Saturday, 3-5 p.m.; Sunday, 3-9 p.m. But their confirmation is for Friday, May 22, so that it would seem that they are on the air at other times.—G. B. Boy (Dunedin).



While we welcome the expressed views of listeners on topics pertaining to radio, we ask that these communications be kept to minimum length, as heavy demands are made upon space. Mere reiteration of arguments cannot be accepted for publication, and we cannot take responsibility for views expressed. Address communications to the Editor, and sign all correspondence, though a non-de-plume may be used for publication.

fare which they provide for us all. To my mind the musical director seems to have a most catholic taste in choosing good music for his presentations, his control over his players being exceedingly remarkable. Tonal beauty, balance, pitch, precision in attack and release, perfect judgment of tempi and rubato, coupled with an exquisite interpretation makes this combination a really Elysian pleasure to listen to. If there is any one thing in this world that will raise man from petty and sordid events of life and lift him out of and above himself even momentarily it is good music, and this, whether it be listening, studying, performing or composing.—C. Clef (Napier).

2YA's Extended Hours.

"ELECTRAD" in a recent issue has written from his point of view only. Now the winter is on us, old people find the augmented service from 2YA a great boon. Again, a large number of people cannot afford more than a local set and the longer hours from 2YA are of great advantage to them and to others who cannot leave their homes.—"Appreciation" (Wellington).

YOUR correspondent, "One at a Time," states in last week's issue that the increase of 2YA's broadcasting hours is a retrogressive step. In this I think he is wrong. The time has come in New Zealand when set-owners will of necessity require to make their receivers more selective. If "One at a Time" lived in Australia he would realise this.—"Up-to-date" (Wellington).

I DISAGREE wholeheartedly with the views expressed by your correspondent "Electrad" concerning the number of housewives who tune in 2YA in the mornings. My work takes me to a different house on an average every second day, and I can say that when we are in a house where there is a radio set we always have 2YA to help us on with our work. As for the argument that "Electrad" puts up about no consideration for the husband who has to find the annual fee—well, that's all "tosh." If the husband is working, he can at least have radio from 5.30 p.m. till 10 p.m. from New Zealand, and later if he wants it from Australia (after a day's work that ought to satisfy him), and if he is not working he can tune in 2YA at 10 a.m. and listen till 10 p.m. Where does the inconsideration come in? If a man wants more music than that, well, he ought

to invest in a mouth-organ.—"Static" (Wanganui).

I CANNOT agree with "Electrad" (Inglewood) in that the augmented service of 2YA should be in the evening instead of in the morning. Owners of non-selective sets find it hard enough to hear 5CL, Adelaide, without extending broadcast hours of 2YA at night. I think it a good idea, and is a step in the right direction to

DX Badges

THE request for designs for a suitable badge for the DX Club has been very well met, and some very fine designs have come to hand. As it is desired to have the design selected before the Wellington meeting, it has been decided to request all entries to be in by June 8. It is hoped to have the badges ready as soon as the DX Club is constituted. The inscription should read, "N.Z. DX Club," but entries with other wording will not be handicapped on that account.

ward all-day broadcasts. I can only say that "Electrad's" set must be wrong somewhere, or his locality weak, if he cannot get Auckland at fair volume. With a four-valve battery set, I can get 1YA at volume sufficient to fill the room. Of course the locality may be better than "Electrad's." I certainly find 3YA poor. In fact, my best reception of 3YA is through 4YA. By the way, I notice that 4YA is not broadcasting the Leckie-Thomas fight. Why is this? I'm sure all fight enthusiasts up north would like to hear this.—G. B. Boy (Dn.).

"Advertising" Talks.

A CORRESPONDENT, "Purist," writes contending that the series of day-time talks, inaugurated from 2YA under their extended schedule, constitutes thinly veiled advertising in that the representatives of certain firms are introduced as being "from such-and-such a firm." Our correspondent cites particularly a talk upon an electric comb as being of propagandist character.

On behalf of the company, it is stated that a condition made in connection

with these talks, which are given by the experts of certain firms, is that the matter used therein shall be applicable to the products of all firms in similar lines—i.e., that any of the articles may be purchased anywhere. Even in the specific case referred to, no one electric comb—of which there are a number on the market—was mentioned, but merely the treatment based upon their use. The same applies to the shampoo. This was recommended to be any properly prepared scientific emollient, although it is true the lecturer did say some comb proprietors prepared special shampoos. Since the firms in question make their experts available freely to the station, and as those experts talk on general lines only, giving matter that is of distinct value to listeners of certain classes, it is considered that the courtesy mention of the firm constitutes the irreducible minimum of return for the service given. Listeners are entitled to know that the lecturer addressing them has some weight of authority behind him or her and is qualified to speak. We appreciate the ideas of our correspondent, but as a matter of practice the procedure now adopted, it is believed, puts the matter under control and affords listeners both the service desired and the protection necessary.

Garbled Reception.

I WAS tuning in the other day when a friend new to radio came in. "Ah," he said, "they do mutilate the transmission from these trans-Atlantic telephone service stations, don't they? They've certainly rendered it unintelligible to short-wave listeners. Just listen to that now. I guess they're testing with the records. Can't get a word of the song, can you?"

"That," I moaned dismally, "is not a telephone station. That's the great voice, that's our 5 k.w. station 2YA." I turned down the volume, I turned up the volume, I tried finer tuning—no good, still the same rough reproduction.

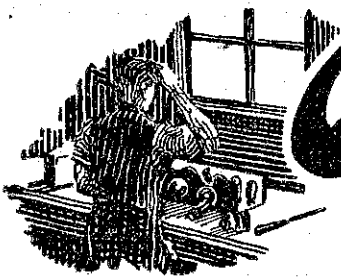
"Go on," said my friend, amazed, "that's not 2YA surely." And he opened the lid of the cabinet to see which coils were in.

I have had some experience with modulation and have succeeded in modulating the carrier much better, I am told, than 2YA's is being modulated at present. If you can imagine the reproduction of a receiver with the bias resistors shorted you'll gain an idea of what 2YA sounds like here.

I tuned in 3YA. The modulation was sweet and full.

As I have built eight receivers and have been connected with amateur phone transmitters for some time I have gained (unfortunately!) a reputation for being an authority on radio matters, and at the local post office, where I earn the necessary shekels, I have been asked by every member of the staff who owns receivers, "What's wrong with 2YA?" The "Wanganui Chronicle," in its radio notes, also deplores the tone of 2YA, and says it is time something was done.

The distortion occurs mostly on notes in the middle of the musical scale. The highs and lows do not suffer so much. The extended hours I much appreciate, but they are not worth while if the modulation remains as it is at present. Trusting that 2YA will renew its C battery or do something to better matters.—Piccolo Pete (Wanganui).



Questions and Answers



H.M.B. (Taikorea): The wire is 25 d.c.c.

ENQUIRER (Westport): What number of turns will be necessary on primary, secondary and tickler with a 3in. former to tune the broadcast band with a .0001 condenser. Reaction is from .00025. I shall be using 24 d.c.c. wire.

A.: From 300 to 500 metres you will need 150 turns on the secondary and approximately 50 on each reaction and primary. For the lower coil you will need 60 on the secondary, 25 on the tickler and 20 on the primary.

UX (Whangarei): Could I use a UX240 in place of the UX200A valve in the detector stage of the B.D. r.c.c. coupled amplifier?

A.: No, the valve is of the high resistance type and unsuitable for circuits such as the B.D. It could be used in one of the r.c.c. stages though a modern general purpose would be the safer.

2. After replacing the rectifying valve in my eliminator I find that the voltage has increased. What valve should I replace the one already in use with to decrease the voltage?

A.: It is not a case of using another valve but inserting a resistance in the leads the voltages of which are too high.

V.R.H. (Auckland): I have noticed the appearance of new Radiotron valves 221 and 230. Can you supply the characteristics of these?

A.: The 221 is a general purpose valve drawing .06 amps at 6 volts on the filament. The detector voltage is between 20 and 50, but the maximum is 180 volts applicable in the case of a valve used as an amplifier. The bias voltages range between 4.5 and 10.5. It has an amplification factor of 9 and impedance of 9000 ohms and costs 13/6. This valve has recently been reduced from 20/-. The 230 valve is a general purpose one which works from a dry battery or an air coil. Three volts filament are needed at which tension .06 of an amp. is drawn. The detector voltage is 45 and the maximum 90. The "C" battery is 4.5, amplification factor 8.8, impedance 12,500 and the price 18/-.

2. Could you name for me a cheap book that deals with the relation that the outside circuit has to the valve?

A.: The 1931 "Radio Guide" has quite a great deal to say on this subject, particularly in Chapter 2. You would find further information in "The Magic Carpet," by Ralph Stranger, or No. 10 of Ralph Stranger's Wireless Library.

SCREEN-GRID (Dunedin): I have a four-valve B.D. which I want to alter into s.g. How would I go about it?

A.: The modern B.D. is the "Outspan Five" published about a couple of months ago in the "R.R." You will find there full particulars.

A.H. (Tokomaru Bay): How do the following valves compare with regard to "A" and "B" battery current: The 201A and the 221?

A.: So far as filament current is concerned the 221 is much more economical. It requires only .06 amps. against the .25 required by the 201A. As far as plate current is concerned the 221 is still slightly more economical.

2. I find that by putting two of these new valves in first and second audio stages reception and volume are improved a great deal. I was told, however, that they are much heavier on batteries.

A.: Your information is erroneous, as the statement given in answer to your question shows.

KIT SEIT (Waipukurau):—My valves have completed approximately 1500 hours. Would you advise a removal.

A.: Not unless reception has noticeably fallen off. Do not renew valves until results tell you they should be removed.

2. In view of recent valve improvements would you give me the numbers and makes most suitable for my three-valve battery set?

Blue Prints

In response to many inquiries we have obtained a supply of blue prints for certain "Radio Record" sets, and will continue this feature with future models. At the present these can be supplied for the "Night Hawk" two, the "Sparrow Hawk" one, and the "Ranger" two. For these three receivers the "blue print" is actually a photostat print of approximately the same size as the actual set. The wires print out white on a black background. For these three the price is 1/6 posted in a special protective tube. It is hoped for future sets to be able to offer ordinary blue prints at a slightly reduced sum.

A.: Those supplied cannot be bettered, although they may be some twelve months old there are not any new ones to take their place. The general practice for manufacturers is to improve each valve without altering its name, so that you will probably find that your next set, providing that the valves are new and have not been in stock for a long time, will be better than the original. The valves are improved generally by reducing their "B" battery by consumption, increasing the slope, and diminishing the impedance. If you want 2-volt valves, you could, of course, use the new 230 and 231 type valves.

3. I have a 4-volt accumulator on hand. Would you advise the use of 4-volt valves instead of 2?—Yes, they will probably give you improved results, and seeing they will not cost you any more it will be as well to make the change.

4. I use a horn speaker. Speech is good, but music lacks tone. Could you give me the name and number of a unit and chassis that I could mount on a 5-ply board?

A.: The fact that speech is good and that music lacks tone is not uncommon with horn speakers. A suitable speaker for your set would be the 66R chassis and unit.

5. If I place my finger on the fixed vanes of the volume control condenser the volume increases. Is that in order?

A.: That is due to your bringing the set nearer oscillation, and is quite in

order, providing, of course, there is no other complicating factor.

6. Is the life of "B" battery shortened when two speakers are used?

A.: There is no extra drain on the battery.

R.S.N. (Hastings):—Are any of the longwave stations audible in this country?

A.: While we cannot say for certain, it is most improbable that any of them could be picked up. If any reader receives any of them, we should be glad to hear from him.

2. In which issue of the "R.R." is the article by "Hard Up," describing the Daniell cell?

A.: The first article by "Hard-Up" appeared June 6, and this was followed by a more detailed description in our issue of November 7.

3. I find my set develops a squeal when the plug is inserted in the second audio jack. I put a .002 condenser from the grid terminal of the second transformer to the "C" battery. Is this all right, and will it hurt anything?

A.: Actually you are by-passing the squeal. It certainly will not harm anything, but surely it will weaken your reception slightly and take away much of the high frequency reproduction. Probably the better plan would be to reverse the connections to the primary of the second audio transformer.

Mr. Radio Fan
Puzzled. Want the latest?
"Tune in" on these publications at

N.Z.'S OWN RADIO BOOKSHOP

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

LOOK AT THIS LIST—

- The following by Ralph Stranger, 1/8 "Theory of Radio Communication," by Filgate, 12/-.
- "Selection of Wireless Signals," "Principles of Radio Communication," by Morecroft, 41/6.
- "How to Understand Wireless Diagrams," "Elements of Radio Communication," by Morecroft, 19/-.
- "Wireless Waves," "Direction Finding," by Keen, 37/-.
- "Wireless Communication Broadcasting," "Technical Telegraphy: Answers and Solutions," by Roberts and Burrow, 2/3.
- "Feeling by Wireless" (Television).
- "Practical Radio Telegraphy," by Nilson and Hornung, 18/-.
- "Radio Music Merchant" (formerly "Talking Machine World"), monthly, 2/- per copy.
- "Practical Radio Repairing Hints," by Rider, 12/- (Don't miss it.)
- "Principles of Radio," by Henney, 21/9.
- "Modern Sets, 1931," consisting of 2, 3, 4-Valve Battery and A.C. Sets, L-W Ampfr. and Special S-W Set, designed N.Z. conditions, by A. K. Box, 1/3.
- "Radio Sir," 72 pages—Don't miss this. 8d. posted. Great value.
- "Practical Radio Construction and Repairing," by Moyer and Westrel, 15/6.
- "Radio Times" (English weekly), 4d. per copy.
- "Radio Retailing" (U.S.A.), monthly, 1/6 per copy.
- "Radio Manual," by Sterling and Kruse, 26/-.
- "All About the All-Electric," 1/9.
- "Radio Operating Questions and Answers," by Nilson and Hornung, 14/-.
- "Radio Amateur Handbook" (Handy's) latest edition, 5/3.
- "Radio Amateur Call Book," latest quarterly, 5/3 (March, 1931).
- "Thermionic Vacuum Tubes," by Van der Bijl, 26/-.
- "Radio Receiving Tubes," by Moyer and Westrel, 14/-.
- "How Radio Receivers Work," by Roberts, 8/-.
- "Radio Design," 1/- per copy.
- "Radio Engineering" (a monthly issue), 21/- per annum.
- "Projection Engineering" (monthly) 21/- per annum.
- "N.Z. Radio Guide and Call Book, 1931," 2/10.
- "1931 N.Z. Radio Handbook," 2/10 posted.
- 5 and 6-Valve Neutrodyne Blue Prints and instructions with one transformer and 2 resistance coupled audio stages, 1/8.
- "Batteryless Neutrodyne" Blue Print, etc., 2/9.
- 2 and 3-Valve Browning-Drake Blue Print and instructions, 1/8.
- "Selective Crystal Set with 2-stage Audio" Blue Print and instructions, 1/8.
- "Radio Record" D.X. Forms, 1/8 two des., posted.
- D.X. Clock, 10s.

WRITE US NOW.

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TRANSMITTER (Kerepehi): Which in your opinion is the best s.w. receiver, "The Sellens," the "Kestrel," or the "Advance," a.c.?

A.: The "Advance" a.c. and the "Sellens" are very much on a par, but one of course is a.c. The "Kestrel" is a much weaker set than either, but will give excellent results.

2. Can you supply a diagram showing the wiring of an extra s.g. stage for the Radiogram Five?

A.: At this stage, no. Within a few weeks we shall bring out an extra stage for the Radiogram Five.

CHOKE (Feilding): Can I use a power valve in the last stage of my set without using an output transformer?

A.: Providing the power valve does not draw more than 8 mas., as you say, it would be quite safe to pass this current through the speaker.

2. I intend to make a B eliminator, incorporating two chokes of the type set out in the table of the "Radio Guide." Can I wind these chokes, using 36 wire instead of 34, without affecting the inductance seriously?

A.: Yes, providing you will not be wanting more than 50 mas. the chokes will be improved by using 36 wire instead of 34, as you are increasing the batteries.

3. Will the reduction in the size of the wind affect the inductance?

A.: Not to any extent.

QUESTION MARK (Wellington): Experimenting with an L.W. amplifier I have no success in picking up the local 80-metre hams. With an ordinary broadcast coil and the plates of the condenser all out one of these amateurs came in fairly well, so I wound a smaller coil, but although I varied the number of turns from 5 to 20 I could not get good results, although I received an 81-metre ham in the middle of the condenser setting. I added a crystal and this brought the volume of the short-wave station about level with an ordinary broadcast coil, but definitely no louder.

A.: A .0005 condenser is too large for use in conjunction with a small coil for the short waves. You consequently cannot tune finely. We have not experimented with the L.W. on short-waves, and consequently cannot help you to a great extent. We do not know of anyone who has. We should be pleased to hear more from you in this respect.

2. Why will an electrical rectifier jar not form up? The solution is about 12oz. of distilled water and half a pound of ammonium phosphate for forming; I connected the jar in series with a 75-watt electric lamp, and nothing so far has happened as regards dimming. The solution is fairly cloudy, and little bubbles arose from the aluminium electrode.

A.: It is highly important that electrolytic fluid in these chargers be pure. The water must be pure, and the material dissolved in the water must likewise be pure. Any impurities would bring about the symptoms you complain of because they

allow a considerable discharge or reversal of current while the power line reverses. Ammonium phosphate is prepared by dissolving as much primary ammonium phosphate as the water will take up by making a saturated solution. The crystals should then be added until there is an excess of the chemicals that cannot be dissolved in the water. The clear solution is then poured off, and is ready for use. The aluminium rod should be composed of chemically pure metal. Commercial aluminium may work and again it may not.

3. Can you describe a method of removing the glass from the base of a valve without breaking it or damaging the base?

A.: The usual thing is what you have done, to soak the base in methylated spirits. Usually, however, by working the glass backwards and forwards, it can be pulled out. It is necessary, however, to heat the tips of the valve pins and shake the solder free. This will allow the wires to pull straight out. The cement can be scraped away. If you want to put the glass back again do not remove the cement, but liberally coat it and the bottom of the glass with seccotine, which is as good as anything for holding the valve together when the base is laid with cement.

SHUNTER (Mercer): I propose building the Radiogram Five, but understand that the connections for the American type valve are different from those shown. What alterations must I make?

A.: The grid connection from the coil goes to the top of the valve, and then on to the fixed plates of the radio condenser. The wire normally going to the top of the valve is carried to P in the valve socket. The connections shown to P of the valve socket are taken to G of the valve socket.

2. What is the value of the condenser shown across the three terminal grid condenser?

A.: .00025 or .0003.

3. What is the minimum and maximum wavelengths that the set will tune to?

A.: A normal broadcast band from 250 metres to 550 metres.

D.W.V. (Invercargill): A rattle has developed in my speaker unit which I cannot eliminate.

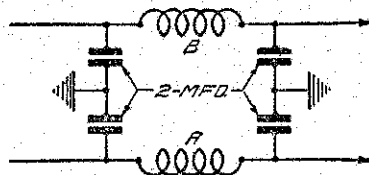
A.: You must take this to a dealer, preferably the one from whom you bought it. It will be a rather dangerous plan to try pulling the unity down yourself.

STATIC (Christchurch): I have constructed the wavetrap described in this week's "R.R." Can I use plain copper wire if I enamel it myself?

A.: Yes, but a safer plan would be to space slightly the copper windings, and allow a few less turns so that it will occupy approximately the same space as that occupied by the original coil. The smaller the space between the turns the better.

R.T.R. (Matangi): I am experiencing trouble through interference entering my set through the a.c. mains.

A.: Are you quite certain the trouble is in the a.c. mains, and not in your set? If the trouble is definitely in the a.c. mains you can reduce it by connecting two or four 2 mfd. condensers in series across the mains, and from the centre point take a lead to earth. This appears as shown in the diagram. If this does not have the desired effect, insert two choke coils as shown. These should be 150 turns of 18 gauge d.c.c. wire wound on a 3in. former.



H.S. (Waianiwa): Can you give me the specifications for the charging side only of the combined power pack and charger described in last week's "R.R."? I shall be using a 1x1 core, on which there are already wound 1350 turns.

A.: Your core should have a primary of 1875 turns, and by using a 1350 you are getting a lower number of turns per volt ratio, and probably a less economical transformer. However, if you can fairly safely reckon on 12 turns to a volt, but before actually using the outfit, it will be wise to check up your voltages either with a volt meter or with a flash lamp to the same voltage as is given for the charger in the "R.R."

NIGHT HAWK (Temuka): I have had good results with the Night Hawk, but there is a dead spot below 3YA. Can this be overcome by constructing a special coil?

A.: In all probability, yes. Build a coil intermediate between the 80-metre coil and the broadcast band, and try that.

2. What is the capacity on each side of a differential condenser having four moving plates and three fixed?

A.: Probably a .0002.

3. Do you consider a pentode in the last stage would be an improvement?

A.: It is doubtful, as your experience has shown that if not matched, the pentode does not give good results. When matched up it gives brilliant reproduction.

MARSITE (Te Aroha): I find it is hard to get the condenser for the first coil of my three stage s.g. set to cover the broadcast band. I believe that a trimmer would adjust this, but how could it be done in some other way?

A.: It could be done only by adjusting your coil; probably by adding more turns.

2. Could you give me the specifications for a set of five coils to cover from 10 to 100 metres tuned by a .0001 condenser?

A.: Use the specifications published for the differential series omitting the tickler coil.

3. Can you give me the formula for working out short-wave coils?

A.: A chart based on standard formula was published in the "Radio Guide."

4. Can you give me particulars of the best way to connect a gramophone pick-up to the detector from point of view of volume and tone so that it will not alter the tuning of the set?

A.: This has been very fully discussed in the "Radio Guide," to which we would refer you.

FREQUENCY COP (Auckland): What do you think of the enclosed circuit for a portable set?

A.: It is not the usual, such as that published for the "Home and Country," the diagram of which is published on page 30 of this issue.

2. I intend using either 199 valves or the new 230 type. Which will be the better?

A.: If you do not subject the set to much bumping about the new 230 valve will be the best.

3. How long will the A and B batteries last using the set on an average of two hours a day?

A.: If you use the small portable type B batteries they will last probably three months, whereas the A cells will last about four.

DETECTOR (Auckland): I have a four-valve set, using B406 first audio and 171 power valve. I get very loud, but blurred music from the local station, though I can move the dials just slightly off resonance, and get clearer music with less volume. Where is the overloading taking place?

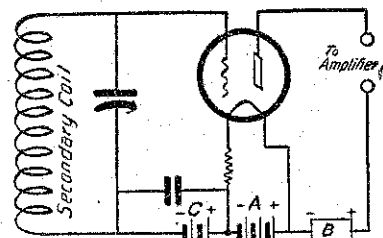
A.: It just depends upon how much volume you try to get out of your set. You may be overloading your speaker, for very few sets will take the full output of the local station, unless tuned down. You should not be using B406 as first audio. It is a power to be used in the last stage only.

2. I would like to change my detector into a power detector; how can I carry this out, and would it be as sensitive as a grid leak detector?

A.: A diagram appears herewith showing the connections for a power detector. It will be almost as sensitive as a grid leak and will handle more volume.

3. What is the gauge of the enclosed piece of wire?

A.: Either the wire was dropped out of the letter at your end or at ours, but it was not attached to your query when



Bias Variable by Tappings

we came to deal with it. Send us another sample and we will tell you what it is.

R.B. (Island Bay): I have an electric eight-valve set and have logged 50 stations with an aerial only 3ft. above

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

Name of set

Number of valves

Name

Address

.....

.....

Nom de plume

To be kept in subsequent inquiries

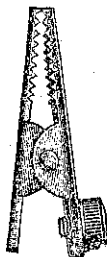
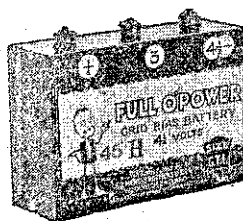
Date

Please Note:—

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

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

The Latest Radio Components



Bulgin Decoupling Resistances, 600 ohm., 2/6. Wearite Decoupling Resistances, 600 ohm., 2/6. Wearite Grid Leaks Holders, 8d. Bulgin Grid Leaks Holders, 1/- Pyrex Insulators, 1/6 each. Glass Insulators, similar to Pyrex, 9d. Crocodile Clips, 3d. each. Pee Wee Clips, small, 4d.; medium, 6d.; large, 9d. Laker Non-jam Pulleys, 1/- each. Eagle Lightning Arresters, 2/-. Siemens Batteries, 45-volt, 18/6; 18-volt bias, 4/6; 9-volt and 4½-volt, 2/6. Standard

Telephones and Cables Headphones, 9/6. Walnut Knobs, ¼ shaft, 1¼in. diameter, 1/-; 3in., 9d., similar to Pilot. Trade-in 5-Valve Pawa Neutrodyne, in cabinet, with all Valves, Speaker, 90-volt wet "B" Battery, 3,000 milliamp. capacity, 6-volt Willard, 80 amp. "A" Battery, Ace "A" and "B" Charger, all for £10/10/-.

F. J. W. FEAR & CO.,

63 WILLIS STREET,

WELLINGTON.

the roof. Should I be able to pick up the Americans?

A.: Your aerial is not very efficient, and it is doubtful that you will be able to pick up these stations. See the D.X. column for a statement concerning your other requests.

PIAKO (Hauraki Plains): I am contemplating making an Outspan Five. Would I get approximately as good results as if I used new coils and new valves in my five-valve B.D. and otherwise adapted it for a.c. operation? In other words, I wish to use the screening box now in use.

A.: Yes, you would get good results.

2. The best valves to use in either Phillips or Mullard makes?

A.: Mullard, two PM16, PM6D, PM5X, PM256 in push-pull; Philips, two A442, A615, A609, B605.

3. Which would be the more suitable in push-pull, 603 or 605?

A.: 605 would give you a greater step-up, although 603 would deliver a greater undistorted output. However, it is unlikely that you would want to get a greater output than 605 would deliver.

4. Could a 66R be used with my silk diaphragm speaker?

A.: Yes, but you will probably have to make some adaptations in the arrangements to use it. You will probably have to have the rod tapped and extended.

TAIPO (P.N.): I find that by varying the grid bias on E442 I can get better results on certain wavelengths. Am I damaging the valves by so doing?

A.: No, you are only making your set more prone to oscillate on the lower frequencies and hence more sensitive.

WATILLIDO (Tikurangi): My B.D. four-valve set distorts badly. Can you give me a remedy? I am using PM4 in the first audio stage and UX240 in the first radio stage.

A.: Your first valve should really be a g.p. valve of the PM3 type, and the first audio should certainly be of the latter type and not a semi-power valve of the PM4 type.

2. What grid bias is necessary on a 256 valve with 90 volts on the plate?

A.: From 9 to 12.

TYRO (Auckland): The Australian stations come in only faintly on my six-valve a.c. set. Should the set not give a better performance?

A.: It appears that the condensers are out of balance. You could have a technician true them up?

2. Is the valve combination satisfactory?—Yes.

3. I am anxious to learn something about radio. Can you recommend a good book other than the 1931 "Guide," which I have?

A.: "Wireless, the Magic Carpet," by Ralph Stranger, is a good book, though it deals more with theory than construction. It is delightfully written, and you should find it intensely interesting.

J.R. (Woodville): I would like to get in touch with the constructor who writes of his "Outspan" in the current issue of the "Radio Record." He signed himself "G.T. (Dunedin)." Should "G.T. (Dunedin)" see this would he communicate with us and we will forward his address on to J.R. (Woodville).

DUD. (Wellington): I wish to erect an aerial between two houses 12ft. apart, both having iron roofs. What height would be necessary to avoid interference from the roofs?

A.: Get them up as high as possible, 20ft. would not be too much.

2. Would it be better to erect the aerial on the other side of the house in order to avoid passing over the roof and near electric lines?

A.: If you cannot get the requisite height it would be advisable to do this.

W.J.H. (Foxton): How can I connect phone terminals to my a.c. set?

A.: As the set uses an output filter, you can use the speaker posts.

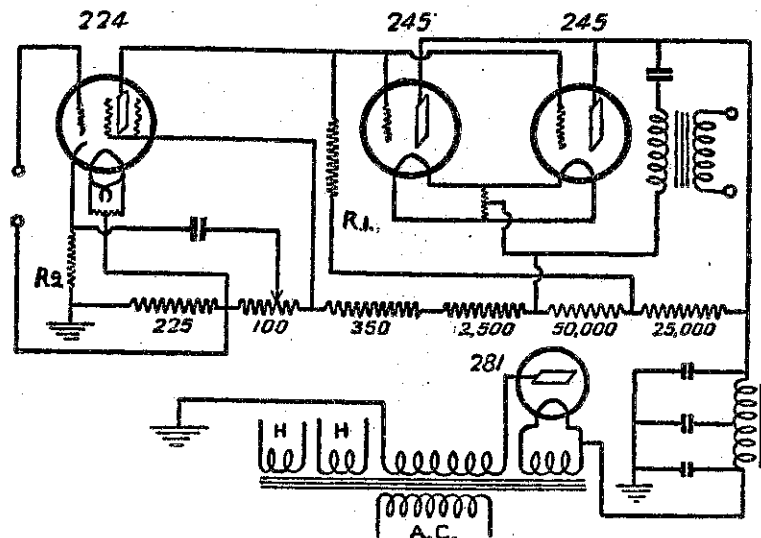
2. Could you give me an idea of the approximate voltages on the different valves?

A.: We cannot tell you this, but it would probably be about that indicated in the slip you sent us for your model.

DONRAD (Christchurch): I have built the Loftin Four, but am using two 245's in parallel. The set has developed

then suddenly the hum became greatly reduced and the set ceased to function. The filaments were all right, but I do not know about the "B" voltage, because I have not a meter.

A.: In all probability a resistance in the bias chain has gone. If you have not a meter you must be very careful, for if the bias chain has gone the anode cur-



Loftin-White Amplifier with Parallel Output Valves.

R1, 500,000 ohms (grid-leak type). R2, 25,000 ohms (G.L.). Potentiometer across the power valve supply, 20 ohms. Potentiometer across the detector filament, 20 ohms. Condenser in plate circuit of power valves, 1 mfd. Condensers in power pack rating from the bottom, 2, 1, 2 mfd. or more. Condenser between 100 ohms potentiometer and R2, .5 mfd. Full wave rectification can be used equally well as half-wave, the hook-up being the same as for the standard Loftin-White.

excess hum. I find by earthing the filament heads of the 224 that the hum is deadened but causes this.

A.: It is due to your by-passing, the hum frequencies originating in the 224 filament circuits. You could try an extra choke in the h.f. plate supply.

2. When the pickup is connected the hum is very bad.

A.: This should, of course, not be. It indicates a wrong layout or a wrong connection in some respect. Try changing the position of the pickup. If you have it now in the grid return, take it over to the cathode and vice versa.

3. Is it necessary to shield the 224's and condensers?

A.: It may be. If you are troubled with instability then by all means do so. This would not cut the hum down.

4. Was the value of the special tapped resistance absolutely correct?

A.: No, but notice that the resistance in the main chain was 2500 not 12,500 as first stated. A diagram is reproduced herewith showing the resistances and their value.

5. If the pickup leads touch the lead from the mains a loud blasting and hum is caused.

A.: This is quite in order. You are picking up a.c. hum from the mains and transferring to your input.

6. Can you supply a blue print of this set? It has a wonderful tone and power.

A.: We are sorry we do not have a blue print for this particular circuit.

ARGON (Auckland): Can I connect two 1.1 volt valves in series to a supply of 2.5 volts?

A.: Yes, though whether your set will operate under these conditions is another thing. They will certainly get all the power you want, but you will probably pick up hum. You will not need the 400 ohms potentiometer indicated across the filament of the first valve. The earthing will take place through the .5 mfd. condenser shunted across the 3000 ohms variable resistance. Your method of obtaining grid bias is correct.

BEN ADHEM (Christchurch).—With my Loftin White the 400 ohms potentiometer made no difference, and

A.: The oscillation was due probably to there being too many turns on the primary coil, and as you have probably had a defective resistance from the start, these two factors have combined to make your set troublesome.

POWER PENTODE (Kawroa).—

Would the Lamplugh speaker be suitable for my four-valve set, used in conjunction with the pentode?

A.: Yes, it is identical with the Silver Ghost, which was advertised recently by L. M. Silver.

2. I wish to build the "Sparrow Hawk" one. Would it be practicable to use a mid-set condenser for tuning?

A.: Yes, if it is to be used on shortwave only.

3. I have a Mullard PM2, and in all tables I can find it listed marked 150 volts max. In the literature accompanying the valve it is stated that its rating is 100 volts. Which is correct?

A.: Both, the tables refer to the later types of valves, and yours is probably one of the earlier makes. Do not exceed the voltage specified on the leaflet which accompanies your valve.

SPARKES (Gisborne).—My set is rather broad in tuning. Is it possible to use the knife edge rejector so as to sharpen tuning?

A.: It is possible but not practicable. The knife edge rejector will sharpen up one station only on one adjustment. This means you have to be continually adjusting it. If you use an ordinary wave-trap and adjust this as you would an extra dial on your set, you would achieve the desired end, but if you used a condenser of .0003 mfd. in series with the aerial you would possibly sharpen the tuning satisfactorily.

H.M.T.: Why does my set squeal when I use PM5X in the first stage instead of 201A?

A.: Your set is neutralised for a 201A, and if you use 5X you must reneutralise it.

2. The set has a tapped primary coil. Most of the stations come in on one clip, but 2FC and 4YA cannot be tuned in properly, because the set will not go out of oscillation. The primary coil con-

(Concluded on page 30.)

RADIO DIRECTORY

What to Buy and Where

CITIES.

ACE & HAMMARLUND SETS, Johns, Ltd.

WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BURGESS RADIO BATTERIES, All Radio Dealers.

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

MULLARD VALVES All Radio Dealers.

N.Z. DISTRIBUTORS PILOT PARTS AND RECEIVERS, Harrington's, N.Z., Ltd., 40-42 Willis St., Wellington. 142 Queen St., Auckland.

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

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

COUNTRY TOWNS.

PHILIPS VALVES AND APPARATUS All Good Radio Dealers.

Design of R.F. Transformer

By CATHODE

(Continued from last week.)

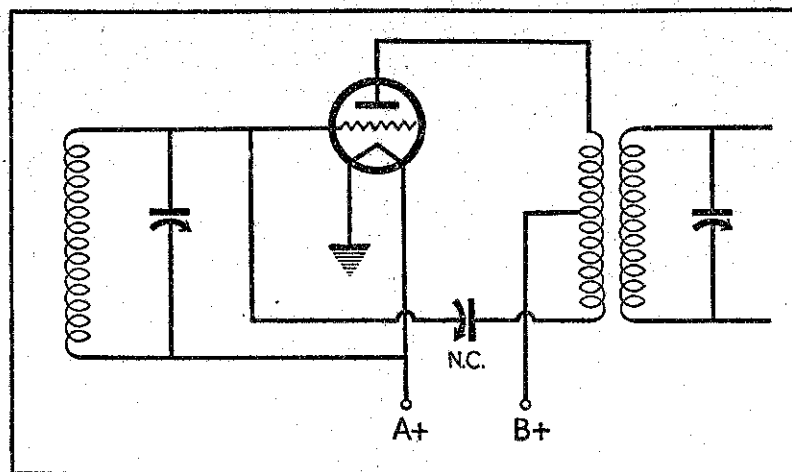


Fig. 4.

of selectivity rather than by those of maximum efficiency. It should not be forgotten, however, that a secondary of extreme efficiency and a very close coupling between primary and secondary are of assistance in promoting selectivity, since the same load in the plate circuit of the valve may be obtained with a much higher transformer ratio than where the secondary coil and the coupling are below standard. Selectivity is, of course, promoted by a high ratio of transformer.

Hints on Efficient Design.

IT is not proposed to enter into a lengthy discussion on modes of construction. Those readers who are seeking the highest efficiency for their high-frequency coupling transformers may, however, derive some benefit from the following suggestions:

(1) In order to maintain "k" at the highest possible figure and thereby gain enhanced selectivity while still loading the valve properly, the primary should be wound directly over or under some portion of the secondary

and should not be wound spaced from the secondary on the same former.

(2) With the same object in view, the primary should be spaced over a considerable part of the winding length of the secondary. If the constructor is anxious to use the once popular slot-wound primary, the length of the secondary winding should be reduced to the point where the falling off in the efficiency of the coil becomes serious.

(3) The secondary winding should have the lowest possible high-frequency resistance consistent with the dimensions to which it must be limited. This object will be achieved by using a coil of suitable shape and wound with wire of the optimum diameter.

(4) A point which is not brought out in the simple theory given here is that the capacity between primary and secondary windings, as well as the self-capacity of the primary, should be reduced to the lowest possible limits. Advantage should be taken of the low dielectric constant of air to reduce this capacity. Thus the primary may be wound over eight hard rubber spacing strips (perhaps 3-16in. wide by 1-8in.

thick) spaced at equidistant intervals around the secondary and held in position with rubber bands until the winding is completed; the ends of the windings may be soldered to tags held by bolts passed up from the underside of one or two of the spacing strips, the heads of the screws being heavily countersunk so as not to come in contact with the secondary.

Alternatively, the primary may be wound on a former of a smaller diameter than the secondary former, care being taken that there is a clear air space on all sides between the primary winding and the interior of the secondary former. Where a slot-wound primary is used the primary should not quite fill the slot.

The turns of the primary should be spaced (except where slot-wound) in order to reduce self-capacity, and since primary resistance is immaterial, should be wound with the finest gauge of wire which the constructor is willing to manipulate. No. 42 is not too small, and No. 36 should be regarded as the maximum permissible, except where extreme mechanical strength is necessary.

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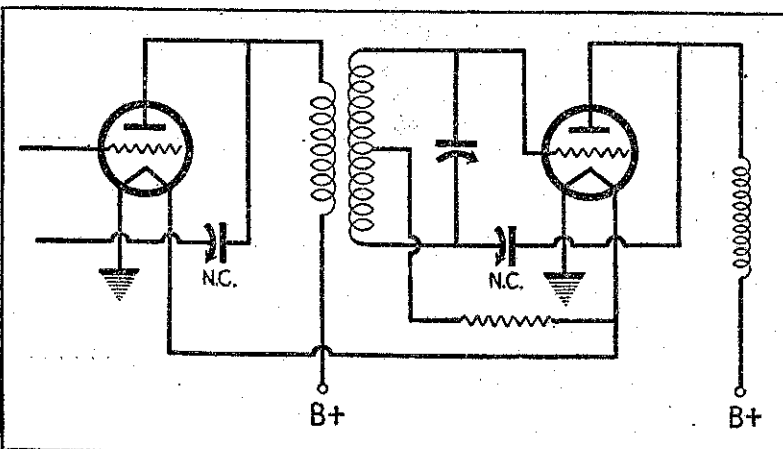


Fig. 5.

WHERE a neutralised circuit of the type shown in Fig. 4 is used, concentric mounting is ideal. This circuit, however, suffers from the disadvantage that a part only of the voltage developed across C is applied to the grid of the succeeding valve. When a neutralised circuit of the type shown in Fig. 5, or an unbalanced circuit such as is usually used with a screen-grid valve, is adopted, it is advisable to move the primary down to the low-potential end of the secondary to reduce the effect of the capacity between the two windings. This will reduce the coupling factor a little, but with the comparatively short windings usually used for this type of work the reduction should not be greater than 10 or 15 per cent.

It must be noted here that while T may be taken as an approximation to the optimum turns ratio of the transformer, it really refers to the ratio between the square roots of the primary and secondary inductances. As the inductance of a coil depends on its shape as well as on the number of turns on it, it is as well to increase the turns ratio about a quarter above the ratio indicated by T. This will compensate for the shorter winding usually used for the primary.

When the optimum transformer ratio is employed, the amplification obtainable from a transformer-valve combination may be calculated from the formula:—

$$\frac{U}{2} \sqrt{\frac{L}{p r c}} \quad (8)$$

Notably in the case of the screen-grid valve, and also in cases where an exceedingly high degree of selectivity is required, it will not always be practicable or convenient to use the optimum primary. In the case of the screen-grid valve in particular, difficulty is often encountered with double-hump resonance curves when the primary is made large enough to match the valve.

In such cases the transformer ratio is really determined by considerations

Valve Renewals

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Cone Loud-speakers Separating the Local Stations

Cause of Chattering

GOOD as they are, balanced-armature loudspeaker units occasionally develop a form of "zizzing" or chattering, the cause of which may be exceedingly hard to track down. One of the most obscure faults which may cause this extremely unpleasant accompaniment of speech and music is a defective joint.

In all units the armature takes the form of a strip of soft iron to which the connecting rod is fixed either directly or through a lever mechanism. Now lightness is essential in the armature and its associated parts, hence makers usually solder the rod or the lever to the armature.

Iron is difficult material to solder well, and what is known as a "dry" joint may easily escape detection at the factory. The joint looks all right, and at first feels all right. When the component has been in use for some little time the vibration to which the armature is subjected causes the joint to give way, with the result that the lever of the connecting rod itself becomes loose in its seating. "Zizzing" then sets in, growing steadily worse as the looseness increases.

Tips and Jottings

AMONG the chief factors influencing the degree of reaction employed is the spacing from the tuning coil of the reaction coil and the number of turns in the latter. The greater the turn number the stronger the reaction, but the greater the distance between the coils the weaker the reaction.

EVERY listener who is interested in the reception of overseas stations should calibrate his set, for a tuning chart is very easily made, and is invaluable for telling you the wavelengths covered at various degrees.

FOR SALE OR EXCHANGE

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

"ULTIMATE" All-wave Receiver—table model with Philips high-tension unit. Trickle charger for A battery. B.T.H. loud speaker and cabinet. An excellent short-wave and broadcast receiver for the experimenter. Good order. Cheap for cash, £20. J. W., Box 238, Wellington.

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4-VALVE Browning-Drake, professionally wired, complete with accumulator, A and B batteries, speaker, all ready for aerial and earth wires. What offers? Fryer, Allardice Street, Dannevirke.

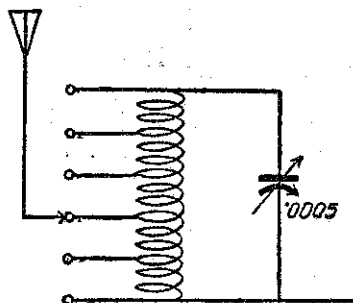
FITNESS in Women! Invigorating sensation of fitness secured by taking Youth-O-Form Capsules which remove unnecessary fat. 6/6 posted. A. C. Timms, Chemist, Pahiata.

REDUCE without dieting, exercise or rubber garments by taking Youth-O-Form Capsules. Absolutely harmless. 6/6 posted. A. C. Timms, Chemist, Pahiata.

A Simple Wavetrap For Crystal Sets

OWING to an unforeseen demand, we have sold completely out of the issue of May 22, which contained a description of a simple wave-trap, and we have been asked to repeat the description. Here are the particulars:—

The materials needed are one vari-

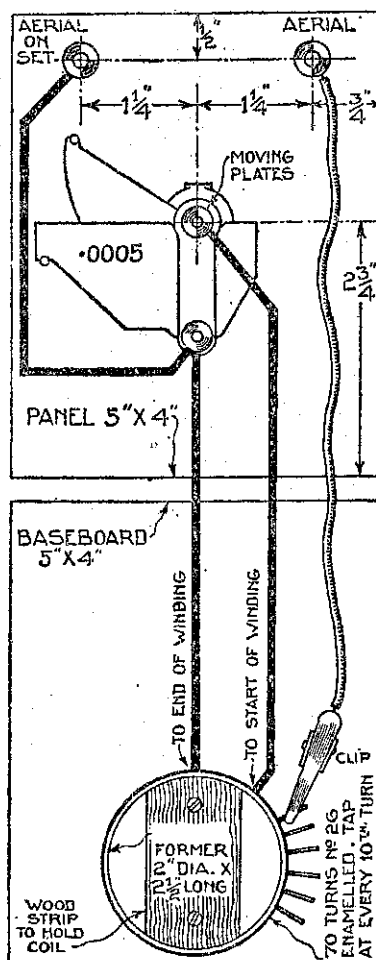


Theoretical Diagram.

able condenser, capacity .0005, 1 lb No. 26 enamelled copper wire, 1 three-inch length of cardboard former, 2 in. in diameter, 2 terminals, 1 crocodile clip, baseboard 4 in. x 5 in., and panel (wood or ebonite) 4 in. x 5 in.

Winding the Coil.

THE coil consists of 70 turns of No. 26 enamelled wire, close wound, and tapped every tenth turn, making six tapplings in all.



Commence winding operations by piercing two small holes, about 1/4 in. apart, with a bradawl or knitting needle, about 1/4 in. from the end of the coil. Thread the wire through these holes, leaving two or three inches for connecting purposes, and wind on ten turns. At the tenth, keeping the wire taut, make a twist in the wire, forming a small loop about 1/4 in. long.

Proceed thus, making a tapping at every tenth turn, until the 70 turns are wound on. The seventieth turn is, of course, not tapped, but the wire is threaded through two small holes similar to those used at the beginning, and broken off, again leaving two or three inches for connecting purposes. At each tapping scrape the loop of wire bare of enamel. The coil is now complete, and may be mounted on the baseboard, either upright by means of brackets or on its side, fastened with two wood screws to the baseboard.

Completing the Trap.

THE condenser and terminals may now be mounted on the panel, and the latter screwed to the baseboard. Everything is now ready for wiring up. This may be performed with the aid of the layout diagram, or by following these instructions.

A piece of flexible wire is attached to the terminal on the left, and a crocodile clip fastened to its free end. This clip is taken to the most suitable tapping, to be determined by experiment. One end of the coil is taken to one terminal of the variable condenser, and the other end to the other terminal. A wire is then run from one of the condenser terminals—either is suitable—to the terminal mounted on the right of the panel. The trap is now ready for operation.

Using the Wavetrap.

TAKE the aerial off the receiver and attach to the left-hand terminal of the trap. Join with a length of wire the right-hand terminal and the aerial terminal of the receiver. Now tune to the loudest point of the station it is desired to eliminate. Then, by varying the wavetrap condenser and attaching the clip to different tapplings in turn, a position will be found where the station signals fade into inaudibility. The trap is then left so adjusted, and the wanted station tuned in.

Questions and Answers

"DINK" (Helensville): Would the one valve transmitter described in Handy's Handbook be suitable for New Zealand conditions?

A.: Yes, though that described in the recent series of transmitting articles would probably be more so.

2. Would it suffice, when used in conjunction with the Differential s.w. set, for working New Zealand?

A.: Yes.

3. What would be the approximate cost of both?

A.: Roughly about £10.

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A Radio Typewriter Ingenious Invention

A DEMONSTRATION with a wireless typewriter was given at Detroit recently. The typewriter, invented by Mr. Glen W. Watson, and known as the "Watsonograph," enables an operator sitting at a typewriter to type out a message which is automatically and simultaneously conveyed by shortwave wireless to another typewriter at any distance. The receiving typewriter automatically types out the message as sent.

A transmitter for ordinary commercial use can be made, to weigh only about 20 lb. Speed of transmission is limited only by the skill of the operator, since the typewriter can record 1200 letters a minute. Any receiving typewriter, synchronised with the transmitter, could be tuned in whenever the receiver might be, and the message could be typed simultaneously on several receivers. If secrecy is desired, it can be arranged that only the transmitter and the required receiver are synchronised. The owner would thus be independent of all public means of communication.

The inventor pointed out the usefulness of the typewriter for police work; it could be carried on patrol cars and used for sending messages to headquarters in absolute secrecy without code.

A "Melodious" Recipe.

(To the Editor.)

THE advent of two Wellington stations broadcasting simultaneously, and the difficulty at first experienced by crystal-set owners in cutting out one station completely, has led to some amusing results. On putting on his headphones one morning last week, this is what one listener heard:

"... and now I will run over the ingredients again, and you can check them off:

"Two cups of flour, two tablespoons of treacle, two tenor solos," chimed in. 2YA giving to the recipe a promise of a tuneful flavour which was certainly not apparent when the subsequent "mixture" came over the air.—A.M.

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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

From 1YA

CANON WM. FANCOURT will be the preacher at St. Mary's Cathedral on Sunday evening, when the evening song-service will be broadcast. The choir-master and organist will be Mr. Edgar Randall.

Miss Amy Eaton, a very pleasing soprano hailing from Wanganui and who has frequently broadcast from 2YA will be singing in the after-church studio concert. Mr. Len Barnes, baritone, will also be heard, one of his numbers being "Love's Gift," which was awarded first prize in the recent 1YA song-writing competition. The words are by Mr. W. F. Chambers, of Wellington, and the music by Mr. Eric Waters. Instrumental items will be supplied by the 1YA Orchestral Octet.

Wellington Notes

THE evening service from the Trinity Methodist Church, Wellington South, will be relayed. The preacher will be the Rev. T. W. Vealie, the organist Miss Lillian Thawley, L.A.B., and the choir-master, Mr. W. McLelland.

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

Christchurch Features

ON Sunday afternoon, the Rev. A. W. Stewart, secretary to the British and Foreign Bible Society, will broadcast a talk from 3YA on the work of the society.

The Rev. W. Rowe will be the preacher at St. Alban's Methodist Church on Sunday evening, when the service will be broadcast. The after-church concert will be relayed to 4YA.

From Dunedin

THE service in St. Paul's Anglican Cathedral will be broadcast this evening. Canon E. R. Nevill will be the preacher.

MONDAY

Auckland Notes

DURING the afternoon, results of the Auckland Racing Club's winter meeting will be broadcast.

From 2YA

THE 2YA day session will include a lecturette on "Cooking" by Miss Christian at 11.12 a.m., and at 11.37 there will be a talk by a representative of the Red Cross Society, entitled "Health and Hints or First Aid." At 7.40 p.m. Mr. H. C. South will give his fortnightly talk on "Books—Grave and Gay."

The 2YA weekly "Musical Portrait" will be of Mendelssohn, and it will be presented by the Ellwood String Octet. Mr. George Ellwood will, himself, give a short recital of popular numbers, including Popper's fascinating "Gavotte" and "La Filleuse" by Dunkler.

Mr. Arthur Clark (tenor) will sing three delightful songs composed by himself, and also several songs by Roger Quilter. Mr. Rex Harrison, too

well and favourably known to listeners to need any introduction, will include among his songs an old Italian melody by Rosa, sung in English, and "A



GEO. TITCHENER

The popular 3YA Comedian, who will again appear before the microphone on June 12.
—Steffane Webb, photo.

Requiem" (by Horn). The Orchestra will play tuneful numbers by Sibelius, Dvorak and Schubert.

Christchurch Notes

THE monthly book review by Mr. E. E. Wiltshire will be broadcast. Two marches, Raff's "Cavatina," "The Glow Worm Idyll," a grand fantasia, "Home, Sweet Home" the World Over, a waltz, a fox-trot, and a characteristic piece, "The Ahlans' Ball," will indicate the variety in the programme to be broadcast in the evening by Derry's Military Band, under Mr. J. Scott.

Dunedin Notes

THIS is the night of the weekly international programme from 4YA. The speaker for the evening will be Mr. H. D. Skinner, lecturer in ethnology at Otago University. His subject will be, "The Polynesian Race in Its International Relation."

TUESDAY

Auckland Features

AN afternoon health talk will be broadcast by Mr. Leslie Crane. The speaker for the International Programme will be Mr. Julius Hogben, LL.B., his subject being "International Law." Mr. Hogben is lecturer on this subject at the Auckland University,

Featurettes

Mendelssohn

2YA, Monday.

The Real

2YA, Tuesday.

Radio Exhibition

2YA, Wed. to Sat.

The White Owl

1YA, Friday.

and is regarded as one of Auckland's leading speakers.

Wellington Notes

THE station will be on the air from 10 a.m. to broadcast the daily sessions. During the miscellaneous hour at 11.12 a.m. there will be a talk on "Fabrics and Fashions" by Mrs. T. W. Lewis, and at 11.37 there will be a talk by a representative of the Plunket Society. The educational session from 2 to 3 p.m. will be under the auspices of the Department of Education, and at 7.40 the weekly talk for the man on the land will be given by a representative of the Department of Agriculture.

The concert session will be of the popular type, a feature of which will be a one-act mystery play entitled "The Real Q." The play is to be produced by Mr. Norman Aitken, who also plays the part of the thief. Mr. Kenneth Aitken will appear as the Doctor, and Mr. Hedley Aitken the part of the Detective.

Also included in this programme will be Reno and Arta, xylophone experts, and the instrument on which they play is reputed to be the largest in Australasia. They will be heard in items with orchestral accompaniment—"Light Cavalry," "It Happened in Monterey," "Arterina Polka" and "Three Little Words." Mr. Billy Hart will also delight listeners in a budget of new and up-to-date songs at the piano. The Salon Orchestra, under Mr. M. T. Dixon, will supply the incidental music.

4YA Notes

AT 7.40 p.m. Mr. J. Crossley Clitheroe, Lecturer on Music at the Dunedin Teachers' Training College, will give a talk on "The Origins of Music." St. Joseph's Waverley Boys' Band, conducted by Mr. D. Whelan, will give a programme this evening. Vocal numbers will be contributed by The Majors Quartet.

WEDNESDAY

Auckland Features

COMMUNITY singing will be relayed from the Auckland Town Hall from 12.30 p.m. to 1.30 p.m. At 7.40 p.m. there will be a Book Review by Mr. H. H. Driver.

Instrumental music for this evening's programme will be provided by the Orchestral Octet. The numbers include "Incidental Music to 'The Con-

RADIO REPAIRS



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queror" and "Hyde Park Suite." A pianoforte solo will be played by Mr. Cyril Towsey, entitled "Brahms's Waltzes." Two new artists in the persons of Miss Mary Pultman, soprano, and Mrs. D. I. Steer, contralto, will appear on this programme, and will be heard in solos and duets. Mr. A. G. McPhail, the well-known Auckland baritone, will be heard in several ballads.

Wellington Notes

AT 11.12 a.m. Miss Mann will give a talk on "Home Sewing," and at 11.37 a.m. listeners will have the opportunity of hearing Miss Flora Cormack talk about "Hollywood Affairs." At 7.25 p.m. Mrs. Albert Russell will be heard in one of her instructive talks on "Success in Everyday Life," her subject on this occasion being "Rejuvenating."

At 7.45 p.m. the Wellington Radio Exhibition will be officially opened by the Postmaster-General, Hon. J. B. Donald. At 8 o'clock a very attractive programme is to be broadcast from the Radio Exhibition at the Town Hall. This will continue until 9 p.m., when a miscellaneous programme will be broadcast from the studio.

Christchurch Notes

ONE of the entertaining dialogues by Mr. R. B. Tennent and Mr. L. W. McCaskill will be broadcast by 3YA and 4YA at 7.15 p.m. The dialogue is entitled "Farmer Brown Visits the Experimental Farm."

There will be a lot of good entertainment in this evening's programme. A novelty turn by Miss Merle Miller and Miss Maisie Otley will be featured—items played on two pianos located in different rooms. An instrumental trio, consisting of Miss Gladys Vincent (violin), Mr. Francis Bate (cello) and Miss Clutha Serjeant (piano) will provide some popular numbers, such as "Popular Songs by Eric Coates," "Pale Moon" and "Aguero."

Miss Addie Campbell (soprano) will sing Mascagni's "Ave Maria," "Three Green Bonnets," "Solveig's Song" and "The Banks of Allan Water." Mrs. F. Nelson Kerr, a popular contralto, will also present a nice range of songs. Tenor solos will be contributed by Mr. Chas. R. Williamson, and Mr. Te Ari Pitama will give a talk on Maori foods.

From Dunedin

THE afternoon talk to be given by the Home Science Extension Department of Otago University will be on "Profit and Pleasure."

A special lecture-recital, under the auspices of the Society of Professional Musicians of Otago, will be given by Dr. V. E. Galway, assisted by Mr. Alfred Walmsley, tenor. The subject will be "Folk Music."

THURSDAY

THE afternoon talk from 1YA, 2YA, and 3YA will be on "Toothsome Stories, No. 2."

From Auckland

A TALK under the auspices of the N.Z. Manufacturers' Association on "Attractive Packing of Goods" will be broadcast.

The evening programme will be provided by the Solian Orchestra, under the conductorship of Mr. Gerald T. Lee. Recently this orchestra gave a

concert in one of the city halls, and the programme is this evening to be repeated in 1YA's studio.

Wellington Notes

AT 11.12 a.m. a lecturette by Mrs. Barrington on "Cooking" will be broadcast. A talk under the auspices of the Department of Health will be given at 11.37 by Mr. F. Clayton. It is entitled "Sleep." At 7.40 Miss Inez Connop will continue her series of talks on "Dancing in Relation to Health."

From 8 o'clock till 9 2YA will relay the programme presented at the Wellington Radio Exhibition. From 9 p.m. the programme will continue from the studio. The Salon Orchestra, under Mr. M. T. Dixon, will play the overture "Suite from the Countryside" (by Coates), "Russian Dance" (by Friml), the violin solo "Liebesfrend" (with orchestral accompaniment) is to be played by Mr. W. Haydock, the selection "Maytime" (by Romberg), and the latest dance novelties. Also on this programme will be Mr. and Mrs. E. Ransom Myers in two humorous duets, "Sweet Memories" and "Lost and Found."

Christchurch Notes

AT 7.30 p.m. Mr. J. W. Calder, of Lincoln College, will speak on "Diseases of Cereals."

Madame Josephine Ottlee, one of the leading teachers of singing in Christchurch, will be responsible for the evening's concert. The programme will be contributed by her pupils—quite an array of talent—several of whom have



ADDIE CAMPBELL

The "Bendigo Nightingale," whose delightful soprano voice charmed so many listeners when she last appeared before the microphone, will be singing from 3YA, Christchurch, on June 10.

—Steffano Webb, photo.

been very successful at the Christchurch competitions.

The vocal programme will comprise solos, duets, and quartets. The instrumental portion of the programme will be provided by the Studio Octet.

FRIDAY

From Auckland

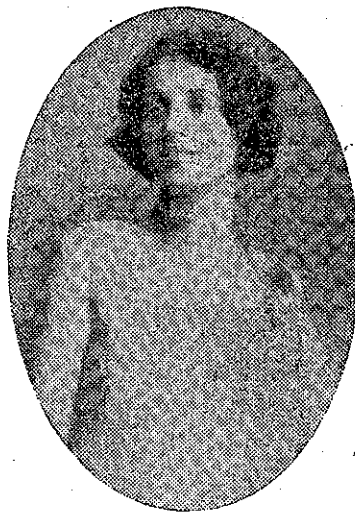
SEVERAL of the plays written by Dr. George de Olive Lowe have been broadcast by 1YA, and this evening, probably the finest yet broadcast will be heard. It is a mystery play entitled "The White Owl," and will be produced by Mr. J. M. Clark, who has had years of experience on

the professional stage in England and elsewhere. His radio productions are always excellently done, and "The White Owl" promises to be as successful as his previous ones.

From 2YA

AT 11.12 a.m. Mrs. Thomas will give a lecturette on "Fashions," and at 11.37 Mr. B. Brickman will interest the ladies in a lecturette entitled "Beauty Culture in all its Phases." At 7.40 p.m. Mr. Dan McKenzie, an authority on Rugby, will give a talk on "The Laws of Rugby."

From 8 till 9 p.m. the programme for the third night of the Wellington Radio Exhibition will be relayed. At 9 p.m. the programme will continue from the studio. The Orchestra, under Signor A. P. Truda, will be heard in the selections "Dancing Mistress" (by Monckton), and "Stop Flirting" (by Gersh-



KAY CHRISTIE

A charming 1YA contralto, who will sing on June 11.
—S. P. Andrew, photo.

win), and a medley, "The Girl with the Baby Stare" (by Blon). Mr. Reg. Blow (baritone) will make his second appearance at the studio and will be heard in four songs with orchestral accompaniment: "The Yeomen of England," "Uncle Rome," "Beloved it is Morn," and "A Little Irish Girl."

From Christchurch

TWO Christchurch journalists, speaking under the auspices of the Sunlight League, will discuss "The Smoke Nuisance in Christchurch." The speakers will be Mr. H. McVincent and

Mr. I. Donnelly. At 7.45 Messrs. D. Cossgrove and W. Melbourne will give their "Radio Service" dialogue.

Dunedin Notes

The concert will be provided by popular 3YA artists.

A TALK on "Tourist Resorts" will be given by R. W. Coupland.

The Regal Four, a party of popular male entertainers, will provide some fine concerted numbers in the evening. Other items will include a duet by Messrs. Scott and McDonald, with chorus, "Belle Mahone." Mr. McDonald will sing the humorous song "Old King Cole." A Scottish humorous item, "Flat-footed Jean," will be given by Mr. Bert Rawlinson, who will also sing "My Lady Sleeps." Mrs. D. Carty, soprano, will sing three Scottish songs. The instrumental portion of the programme will be provided by a trio consisting of Messrs. A. H. Pettitt, K. Hunter and T. Law.

SATURDAY

From Auckland

THE concert to be given at the Town Hall by the Municipal Band, under the conductorship of Mr. Geo. Buckley, will be relayed.

Wellington Notes

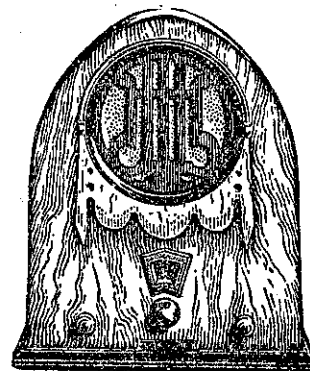
A W.E.A. lecturette, entitled "The Museum of the Future," is to be broadcast at 7.40 p.m. by Mr. Christopher Perkins.

The final concert of the Wellington Radio Exhibition will be relayed this evening. At 9 p.m. the session will be continued from the Concert Chamber of the Wellington Town Hall, when the programme given by the Wellington Commercial Travellers' and Warehousemen's Association Male Voice Choir will be broadcast.

From 3YA and 4YA

THE Joyous Pair (singing cabaret songs at the piano with ukulele), Miss Elaine Moody's Hawaiian Quartet (with vocal refrains by Miss Moody), Mr. David McGill (the popular tenor, whose items will be "Annie Laurie," "At Dawning," "The Carnival" and "Roses of Forgiveness"), The Mascots (acting a twenty-minutes sketch), and the Studio Octet, under Mr. Harold Beck, will provide 3YA's vaudeville programme, which will also be broadcast by 4YA.

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Full Programmes for Next

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

Sunday, June 7

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

- 8.0 : Selected recordings.
 6.0 : Children's song service, conducted by Uncle Bert.
 7.0 : Relay of evensong from St. Mary's Cathedral. Preacher, Canon William Fancourt; Organist and Choirmaster, Mr. Edgar Randall.
 8.30 : Male choir—Wiener Schubertbund, "Der Tanz" (Schubert) (Col.).
 Orchestral—Orchestral Octet under the direction of Mr. Harold Baxter, "Norwegian Rhapsody No. 3" (Svendsen).
 Soprano—Miss Amy Eaton, (a) "The Wren" (Lehmann), (b) "Spring's Awakening" (Sanderson).
 Violin—George Kulenkampf, (a) "Danse" (Scott), (b) "La Capriccioso" (Ries) (Polydor 95073).
 Suite—Orchestral Octet, "In Downland" (Hewitt): (a) "April Song," (b) "Shepherd's Lullaby," (c) "Lavender Time."
 Evening weather forecast and announcements.
 Baritone—Mr. Len Barnes, "It Is Enough" (from "Elijah"—Mendelssohn), with 'cello obbligato by Miss Lalla Hemus; "As a Father With His Children" (Coffee Cantata) (Bach); "Love's Gift," first prize in 1YA Song-writing Competition—words by W. F. Chambers, music by Eric F. B. Waters.
 Intermezzos—Orchestral Octet, (a) "A Basket of Roses" (Albers), (b) "Serenade" (Bridge); waltz, "Blue Bird" (O'Neill).
 Soprano—Miss Amy Eaton, (a) "Damon" (Strange), (b) "The Bird and the Babe" (Lieurance).
 Piano—Irene Scharrer, "Andante and Rondo Capriccioso" (Mendelssohn) (Columbia DO282).
 Suite—Orchestral Octet, (a) "Overture," (b) "Minuetto," (c) "Adagio," (d) "Carillon" (Bizet).
 Male choir—Fisk University Jubilee Singers, "Little David," (b) "Ezekiel Saw the Wheel" (traditional).
 Waltz—Orchestral Octet, "Artists' Life" (Strauss).
 10.0 : God save the King.

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

- 3.0 : Afternoon session of selected gramophone recordings.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from the Khandallah Presbyterian Church.
 7.0 : Relay of evening service from Trinity Methodist Church, Wellington South. Preacher: Rev. T. W. Vealie. Organist: Miss Lillian Thawley, L.A.B. Choirmaster: Mr. W. McLellan.
 8.15 (approx.): Relay of Band Recital by the Port Nicholson Silver Band from the Grand Opera House (Conductor, Mr. J. J. Drew).
 God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, JUNE 7.

- 8.0 : Gramophone recital.
 3.45 : Talk—Rev. A. W. Stewart, B.A. (Secretary of the British and Foreign Bible Society), "The Work of the Society."
 4.0 : Gramophone recital continued.
 5.30 : Children's Song Service by children of Methodist Sunday Schools.
 6.15 : Chimes from studio.
 6.30 : Relay of evening service from St. Albans Methodist Church. Preacher: Rev. W. Rowe. Organist: Miss Clarice Bell. Choir Conductor: Mr. W. Simpson.
 7.45 : Musical recordings from studio.
 8.15 (approx.): Studio programme.
 Ballet—New Symphony Orchestra, "Le Cid Ballet Music": (1) Castillane; (2) Andade; (3) Andalousie; (4) Aragonaise.
 8.23 : Tenor—Mr. W. J. Trewern, (a) "Prelude" (Cycle of Life) (Ronald), (b) "Spirit So Fair" (Donizetti).
 8.27 : Instrumental—Studio Octet (Harold Beck Conductor), (a) "Hero March" (Mendelssohn), (b) "Overture—Don Giovanni" (Mozart).
 8.36 : Contralto—Miss Nancy Bowden, (a) "A Soft Day" (Stanford), (b) "Loveliest of Trees" (Peel).
 8.40 : Flute and Clarinet—Messrs. A. E. Hutton and M. E. Withers, "Hero and Leander" (Pillevestre).
 8.48 : Baritone—Mr. T. D. Williams and Octet, "O Star of Eve" (from "Tannhauser") (Wagner).
 8.52 : Piano—Lilly Dymont, "Sevilla" (Albeniz) (Polydor 23575).
 8.58 : Soprano—Miss Helen Mackay, "With Verdure Clad" (from "Oreation") (Haydn).
 9.1 : Weather forecast and station notices.
 9.3 : Ballet—New Symphony Orchestra, "Le Cid Ballet Music": (5) Madrilene; (6) Navarraise (Massenet) (H.M.V. C1639).

- 9.27 : Contralto—Miss Nancy Bowden, (a) "Dawn" (Curran), (b) "Horses of the Dawn" (Brett).
 9.34 : Flute and clarinet—Messrs. A. E. Hutton and M. E. Withers, "Frantante Angosue E Papiti" (Cardfa, arrgd. Hill).
 9.37 : Instrumental—Studio Octet, Suite, "Music Pictures" (Foulds).
 9.49 : Soprano—Miss Helen Mackay, (a) "The Almond Tree" (Schumann), (b) "The Yellow Hammer" (Lehmann), (c) "The Meeting of the of Song" (Mendelssohn).
 9.18 : Instrumental—Studio Octet, (a) "Cuban Dance" (Cervantes), (b) "Minuet From Oxford Symphony" (Haydn).
 9.11 : Tenor—Mr. W. J. Trewern, (a) "Resolution" (Lassen), (b) "On Wings Waters" (Irish trdrl.).
 9.56 : Baritone with orchestral accompaniment—Mr. T. D. Williams and Studio Octet, (a) "Far Across the Desert Sands," (b) "Where the Abana Flows," (c) "Beloved in Your Absence" (from "A Lover in Damascus" (Woodforde-Finden).
 10.4 : B.B.C. Wireless Military Band, "Hungarian Dance" (from "Foreign Parts"), (Moszkowski, arr. Summer) (Col. DOX44).
 10.8 : God save the King.

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

- 8.0 : Selected recordings.
 5.30 : Children's Song Service, conducted by Big Brother Bill.
 6.15 : Instrumental recordings.
 6.30 : Relay of Evening Service from St. Paul's Anglican Cathedral. Preacher: Canon E. R. Nevill, M.A. Organist: Mr. E. Heywood, F.R.C.O.
 7.45 : Selected recordings.
 8.15 (approx.): Relay of Evening Concert programme from 3YA, Christchurch.
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, JUNE 7.

- 6.0 to 6.45 : Children's Sunday Service.
 8.15 to 10.0 p.m.: Concert programme.

Monday, June 8

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, JUNE 8.

- 11.30 : Relay of results of the third day of the Auckland Racing Club's Winter meeting at Ellerslie.
 5.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, JUNE 8.

- 10.0 : Chimes. Selected gramophone recordings.
 11.0 : Miscellaneous—11.12 a.m., Lecturette—"Cooking"; 11.37 a.m., Lecturette—"Health Hints or First Aid."
 12.0 : Lunch hour music.
 2.0 : Miscellaneous.
 3.0 : Selected gramophone recordings.
 3.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session, conducted by Uncle Jeff.
 6.0 : Dinner music session (Columbia)—
 Milan Symphony Orchestra, "Mignon" Overture (Thomas) (05058).
 H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler) (01768).
 Jean Lensen and His Orchestra, "Millions D'Arlequin" (Drigo).
 Columbia Symphony Orchestra, "Al Fresco" (Herbert) (01092).
 Symphony Orchestra, "Hungarian March" (Berlioz) (05055).
 Jean Lensen and His Orchestra, "Si Mes Vers Avalent Des Alles."
 Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."
 J. H. Squire's Celeste Octet, "Valse Caprice" (02581).
 H. G. Amers and the Eastbourne Municipal Orchestra, "Silhouettes" (Arensky) (05032); (a) "Introduction," (b) "La Coquette."
 Bernardo Gallico and His Orchestra, "The Clock is Playing" (05087).
 H. G. Amers and the Eastbourne Municipal Band, "Dancing Doll" (Poupee Valsante) (Poldini) (01768); "Silhouettes," "The Dreamer" (Arensky) (05032).
 Columbia Symphony Orchestra, "Badinage" (Herbert) (01092).
 Zurich Tonhalle Orchestra, "Il Seraglio" Overture (Mozart) (05025).
 Symphony Orchestra, "Coppella Ballet—Entracte and Valse." (05055).
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books, Grave and Gay."
 8.0 : Chimes.
 Overture—Dajos Bela Orchestra, "Figue Dame" Fantasia (P. A4021).

Week-all Stations-to June 14

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

- 8.9 : Baritone—Mr. Rex Harrison, (a) "A Requiem" (Horn), (b) "Japanese Death Song" (Earl Crauston Sharp), (c) "To Be Near My Beloved" (Rosa).
- 8.17 : Piano—Ignace Hilsberg, (a) "Aufschwung" (Schumann), (b) "Cracovienne Fantastique" (Paderewski) (Brunswick 4931).
- 8.23 : Instrumental—Ellwood String Octet, "Allegro and Andante" (From "String Octet") (Mendelssohn).
- 8.33 : Tenor—Mr. Arthur Clark, (a) "Over the Sea to Skye" (Words by R. L. Stevenson) (Arthur Clark), (b) "I've Been Roaming" (Arthur Clark), (c) "The Willows" (Arthur Clark).
- 8.39 : Cello—Mr. George Ellwood, (a) "Kol Nidrei" (Bruch), (b) "Gavotte" (Popper).
- Male Quartet—Felix Schmidt Quartet, (a) "Spinn Spinn" (Jungst), (b) "Guten Abend Gute Nacht" (Brahms) (Polydor 23027).
- 8.54 : Suite—2YA Orchestra (Conductor Signor A. P. Truda) "Pelleas Et Melisande" (Sibelius).
9. : Weather report and station notices.
- 9.2 : Violin—H. Solloway, (a) "The Violin Maker of Cremona" (Hubay), (b) "Romanza Andaluza" (Sarasate) (Polydor 66442).
- 9.10 : Tenor—Mr. Arthur Clark, (a) "Weep You No More," (b) "Drink To Me Only," (c) "O Mistress Mine," (d) "Fair House of Joy."
- 9.18 : Instrumental—Ellwood String Octet, "Scherzo and Finale" (from "String Octet") (Mendelssohn).
- 9.30 : Choir—Thomanerchor Leipzig, (a) "Die Macht Der Phyllis," (b) "Jelangerjeleiber Und Vergissmeinnicht" (Polydor 90159).
- 9.38 : Cello—Mr. George Ellwood, (a) "Elegie" (Faure), (b) "La Fileuse."

- 9.47 : Baritone—Mr. Rex Harrison, (a) "The Moon Drops Low," (b) "The Land of the Sky Blue Water" (Wakefield-Cadman).
- 9.52 : Instrumental—2YA Orchestra, "Berceuse" (Karganog); Dance, "Slavonic Dance No. 7" (Dvorak), "Moment Musical" (Schubert).
- 10.0 : Dance programme (H.M.V.)—
Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "How Am I To Know?" (Parker) (EA700).
Arcadians Dance Orchestra, "Pepita" (Zono. EE211).
Bernie Cummins and His New Yorker Hotel Orchestra, "Livin' in the Sunlight—Lovin' in the Moonlight."
The Rhythmic Eight, "Figaro" (Mitchell) (Zono. EE211).
- 10.12 : Waltz—Jean Goldkette and His Orchestra, "Can You Blame Me?"
Foxtrots—Henry Busse and His Orchestra, "I Came To You" (EA700)
Gus Arnheim and His Orchestra, "I'm Feathering a Nest."
- 10.21 : Vocal—Olga Albani, "It's You I Love" (Davis), (EA782).
- 10.24 : Foxtrots—New Mayfair Dance Orchestra, "There's Room In My Heart" (Salvato) (B5808); "I'll Be Getting Along."
Waltz—Bob Haring and His Orchestra, "Bye and Bye, Sweetheart."
- 10.36 : Foxtrots—Nat Shilkret and His Orchestra, "Congratulations" (EA737).
New Mayfair Dance Orchestra, "Cuckoo in the Clock."
George Olsen and His Music, "The Moon Is Low" (EA737).
- 10.45 : Vocal—Grace Hayes, "On the Sunny Side of the Street" (EA782).
- 10.48 : Foxtrots—The High Hatters, "You Brought a New King of Love To Me" (Kahal) (EA761).
Nat Shilkret and His Orchestra, "Into My Heart."
Herman Klenin and His Orchestra, "I'm Doing What I'm Doing For Love" (Yellen) (EA745).
Nat Shilkret and His Orchestra, "Dark Night" (Grey) (EA777).
- 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, JUNE 8.

- 3.0 : Gramophone recital.
- 4.25 : Sports results.
- 5.0 : Children's hour.
- 6.0 : Dinner music session (Polydor)—
Paul Godwin's Orchestra, "Aubade" Serenade (Schweitzer) (19512);
"The Divorced Lady" Medley (Fall) (19521); "Lotus" Waltz (Ohlsen) (23323); "Alsatian Country Dance No. 1" (Merkelt).
Great Symphony Orchestra, "The Master Miner" (Zeller) (23315).
Mandolin and Lute Band, "Per Aspera ad Astra" (Urbach) (21624).
Paul Godwin Orchestra, "Smitten" (Ziehrer-Hruby) (21709); "Alsatian Country Dance No. 2" (Merkelt) (21210).
Berlin State Opera Orchestra, "Knight Passman Ballet" (Strauss).
Paul Godwin's Orchestra, "Bells of Vineta" Waltz (23323).
Mandolin and Lute Band, "Turkish March" (Mozart) (21624).
Paul Godwin Orchestra, "Flower Song" (Lange) (21709); "Rejoicings March" (Schweitzer) (19512).
- 7.0 : News session.
- 7.30 : Talk—Mr. E. E. Wiltshire, President of Linwood Library, "Books of the Month."
- 8.0 : Chimes. Band programme by Derry's Military Band (Conductor, Mr. J. Scott) and assisting 3YA artists.
March—Band, (a) "Forward" (Dappler); selection, "Cavatina" (Raff)
- 8.10 : Bass—Mr. W. J. Richards, (a) "I Am a Friar of Orders Grey" (Reeve), (b) "Good Morning, Brother Sunshine" (Lehmann).
- 8.16 : Guitar—Segis Luvau, (a) "Moonbeam Dreams," (b) "Lysistrata."
- 8.22 : Soprano—Miss Eveline Hill, (a) "A Fairy Went a-Marketing" (Goodheart), (b) "Life's Epitome" (Kenneth Rae).
- 8.28 : Vocal—Juan Llossas and South American Orchestra, "La Vuelta al Hogar" (in Spanish) (Faredes) (Polydor P40490).
- 8.30 : Idyll—Band, "The Glow-Worm" (Lincke).
- 8.38 : Mezzo-soprano—Miss Nellie Billecliff, (a) "Laburnum" (Montague Phillips), (b) "If Any Little Song of Mine" (Del Riego).
- 8.42 : Baritone—Mr. Sydney Armstrong, (a) "When Other Lips" (from "The Bohemian Girl") (Baife), (b) "Rose of My Life."
- 8.52 : Fantasia—Band, "Home, Sweet Home, the World Over" (the composer describes how "Home, Sweet Home" is played in the following countries:—England, Germany, Spain, Russia, Italy, Scotland, Hungary, China, Ireland, and America).
- 9.0 : Weather forecast and station notices.
- 9.2 : Marimba—Green Bros.' Marimba Orchestra, (a) "Wedding of the Winds" (Hall), (b) "A Bunch of Roses" (Chapi) (Zono. EE203).
- 9.8 : Bass—Mr. W. J. Richards, (a) "The Diver" (McMillan), (b) "Joe the Gipsy" (Batten).
- 9.14 : Waltz—Band, "Morgenblätter" (Strauss).
- 9.21 : Soprano—Miss Eveline Hill, (a) "The Net-Mender" (Clarke), (b) "The Dawn Has a Song" (Phillips).
- 9.25 : Characteristic—Band, "The Uhlands Ball" (Ellenburg).
- 9.30 : Mezzo-soprano—Miss Nellie Billecliff, (a) "The Dorothy Perkins Rose" (Carew), (b) "Flight" (Carew), (c) "Canterbury Bells" (Carew).



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AUCKLAND

CHRISTCHURCH

WELLINGTON

- 9.37: Novelty trio—Grinzing Schrammel Trio, (a) "At the Worther Lake" (Koschat), (b) "Swiss Children" (Chlumski) (Polydor 23475).
 9.43: Baritone—Mr. Sydney Armstrong, (a) "Friendships" (Lohr), (b) "City of Laughter and Tears" (Nicholls).
 9.56: Foxtrot—Band, "Betty Co-ed" (Valee); march, "Conway" (Sweeley).
 10.6: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, JUNE 8.

- 3.0: Selected recordings.
 5.0: Children's hour, conducted by Big Brother Bill.
 6.0: Dinner music session (Polydor)—
 Berlin Philharmonic Orchestra, "Titus" Overture (Mozart) (95296).
 Paul Godwin Orchestra, "The Roses" Bridal Procession" (Leon Jessel) (19681); "On This Beautiful Springtime" (Lincke) (19961).
 Great Symphony Orchestra, "Fortissimo" (Kalman) (27167).
 Paul Godwin Orchestra, "The Marionettes Mounting Guard" (Kuhn).
 State Opera Orchestra, Berlin, "Orpheus and Eurydice Ballet Music."
 Paul Godwin Orchestra, "Murmure de Bal" (Meyer Helmund) (19507).
 Berlin Philharmonic Orchestra, "Le Nozze di Figaro" Overture (95296).
 Paul Godwin Orchestra, "Poppies" (Moret) (19661); "Dreaming Flowers" (Translateur) (19507).
 7.0: News session.
 8.0: Chimes. Specially-recorded International Programme:
 Dr. Eugene Ormandy and His Salon Orchestra.
 International Singers.
 Ambassadors of Melodyland.
 Abroad with the Lockharts.
 Weather report.
 International talk, Mr. H. D. Skinner, University Lecturer in Ethnology; subject, "The Polynesian Race in its International Relation."
 Hywide and Handsome.
 Nat Brusloff and His Lido Venice Orchestra.
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, JUNE 8.

8.0 to 10.0 p.m.: Concert programme.

Tuesday, June 9

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, JUNE 9.

- 5.0: Selected recordings.
 8.15: Talk—Mrs. Leslie Crane, "Beauty of Mind and Body in Relation to Diet."
 9.0: Children's session, conducted by Uncle Dave.
 6.0: Dinner music session—
 Dajos Bela Orchestra, "Fantasie Orientale" (Lange) (Parlophone).
 Ilja Livschakoff Orchestra, "Somewhere a Voice is Calling" (Tate).
 Paul Godwin String Quartet, "A Fragile Spring has Blossomed Forth."
 Paul Godwin's Orchestra, "Pritzel Dolls" (Rauls) (Polydor 21712).
 Bereny's Hungarian Gipsy Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (Polydor 23691).
 Great Symphony Orchestra, "Edmund Eysler's Operettas" Selection.
 Ilja Livschakoff Orchestra, "Volga—Russian Medley" (Livschakoff).
 The Pozniak Trio, "Three Miniatures Elegie" (Juon) (Polydor 62549).
 Ilja Livschakoff Orchestra, "The Rosary" (Nevin) (Polydor 23648).
 The Paul Godwin Dance Orchestra, "Little Bird's Evening Song."
 Edith Lorand Orchestra, "After the Ball" Waltz (Harris) (Parlo).
 Bereny's Hungarian Gipsy Symphony Orchestra, "Original Hungarian Dance" (arr. Bereny) (Polydor 23691).
 Paul Godwin Trio, "Largo" (Handel) (Polydor 23374).
 Ilja Livschakoff Orchestra, "Troika," Russian Medley (Livschakoff).
 Balalaika Orchestra, "Auf Dem Wege Nach Petersburg" (Polydor).
 7.0: News and market reports.
 8.0: Chimes. Specially-recorded International Programme:
 Dr. Eugene Ormandy and His Salon Orchestra.
 International Singers.
 Ambassadors of Melodyland.
 Abroad with the Lockharts.
 Weather report.
 International talk, Mr. Julius Hogben, LL.B., "International Law."
 Hywide and Handsome.
 Nat Brusloff and His Lido Venice Orchestra.
 God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, JUNE 9.

- 10.0 a.m.: Chimes. Selected gramophone recordings.
 11.0: Miscellaneous—11.12 a.m., lecturette, "Fashions"; 11.37 a.m., lecturette, Representative of the Plunket Society.
 12.0: Lunch hour music.
 2.0: Educational session.
 3.0: Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by Uncle Toby and Jumbo.
 6.0: Dinner music session (H.M.V.)—

- Selection—Kauffman's Orchestra, "The Gipsy Baron" (Strauss).
 Waltz—La Vittoria Orchestra, "Wedding of the Winds" (Hall) (Zono).
 Polydor String Orchestra, "Italiana in Algeria" (Rossini) (Poly. 19676).
 Piccadilly Orchestra, "If Only I Had You" (Davies) (B2713); "Lolita" (Ferrete); "Charmaine" (Rapee) (B2528).

- Philharmonic Orchestra, Berlin, "Songs of Love" Waltz (Strauss).
 Selection—New Mayfair Orchestra, "This Year of Grace" (Coward).
 Waring's Orchestra, "Ah! Sweet Mystery of Life" (Herbert) (EB37).
 Polydor's String Orchestra, "Les Dragons des Villars" (Maillart).
 Victor Concert Orchestra, "Minuet in G" (Paderewski) (EA240); "Amaryllis" (Thys).

- Piccadilly Orchestra, "Bird Songs at Eventide" (Coates) (B2528).
 Waltz—International Concert Orchestra, "Blue Danube" (Strauss).

- 7.0: News session, market reports and sports results.
 7.40: Lecturette by a Representative of the Agricultural Department, "For the Man on the Land."
 8.0: Chimes. Overture, Salon Orchestra (Conductor, Mr. M. T. Dixon), "French Comedy" (Kela Bela).
 8.15: Xylophone duo with orchestra, Reno and Arta, (a) "Light Cavalry" (Suppe), (b) "It Happened in Monterey" (Wayne).
 8.22: One-act mystery play, "The Real Q" (Terrell and Stechham). Characters—The Doctor, Mr. Kenneth Aitken; The Detective, Mr. Hedley Aitken; The Thief, Mr. Norman Aitken. Scene—Dr. Cornish's Office, New York.
 8.52: Violin and organ—Wolfgang Josephi, (a) "Abenlied," (b) "Traumerel."
 9.0: Weather report and station notices.
 9.2: Selection—Salon Orchestra, "Three Songs from Elliland" (Von Flietitz); two favourite classics, (a) "Nocturne" (Schumann), (b) "Minuet."
 9.17: Songs at the piano—Mr. Billy Hart, (a) "You're Driving Me Crazy" (Donaldson), (b) "Never Swat a Fly" (De Sylva), (c) "Old-Fashioned Girl" (De Sylva).
 9.37: Xylophone duo with orchestra—Reno and Arta, (a) "Artarina Polka" (arr. Reno and Arta), (b) "Three Little Words" (Ruby).
 9.44: Chorus—The Border Singers, "Sir Harry Lauder Songs" (Columbia).
 9.50: Selection—Salon Orchestra, "Eric a Brac" (Finck); Latest Dance Novelties.
 10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, JUNE 9.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, JUNE 9.

- 3.0: Selected recordings.
 5.0: Children's hour, conducted by Big Brother Bill.
 6.0: Dinner music session (Columbia)—
 Military Band, "Ever or Never" (Waldteufel) (01829).
 Halle Orchestra, "An Irish Symphony—Scherzo" (Harty) (05024).
 New Concert Orchestra, "Life in Vienna" (Karl Komzak) (05030/1).
 Military Band, "The Guards' Patrol" (Williams) (01830).
 Dinicu and His Orchestra, "Crepuscule" Tango (Bianco) (01775).
 Salon Orchestra, "Mem'ries" (Neely-Sanford) (H.M.V. EA802).
 J. H. Squire's Celeste Octet, "Traume" (Wagner—arr. Willoughby).
 London Symphony Orchestra, "Marching Song" (Holst) (02968).
 J. H. Squire's Celeste Octet, "Albumblatt" (Wagner—arr. Willoughby).
 Elite Dance Orchestra, "In Elner Konditorei" Tango (Raymond).
 Band of H.M. Grenadier Guards, "Sylvia Ballet" (Delibes—arr. Kappey); (a) "Valse Lente," (b) "Pizzicato," (c) "Barcarolle," (d) "March" (DOX28).
 Halle Orchestra, "Londonderry Air" (arr. Harty) (05024).
 7.0: News session.
 7.40: Talk—Mr. J. Crossley Clitheroe, under auspices of the W.E.A., "The Origins of Music."
 8.0: Chimes. Studio presentation by St. Joseph's Waverley Boys' Band, conducted by Mr. D. Whelan.
 March—Band, "On the Quarter Deck" (Alford); popular air, "Happy Days Are Here Again" (Ager).
 8.6: Vocal quartet—The Majors, (a) "Blow, Blow, Thou Winter Wind" (Stevens); (b) "Laughing Chorus" (Root).
 8.11: Guitar—Palakiko and Paaluh, "Kalma Waltz" (Traditional).
 8.14: Talk—Mr. D. E. Dall, "Charles Dickens—the Man." (On the occasion of the anniversary of the death of the famous character novelist.)
 8.30: Overture—Band, "The Cross of Honour" (Bledger).
 8.38: Contralto—Miss G. Burt, "Thou Art Not Here" (Wishaw).
 8.41: Accordion—Medard Ferrero, (a) "Czardas" (Monk); (b) "Hungarian Dance, No. 5" (Brahms) (Polydor 23300).
 8.46: Vocal quartet—The Majors, (a) "Who Shall Win My Lady Fair?" (Pearsall); (b) "Alice, Where Art Thou?" (Ascher).
 8.52: Selection—Band, "Shamrock Leaves" (Welch).
 9.0: Weather report and station notices.
 9.2: State Opera Orchestra, Berlin, "Der Rosenkavalier" (Strauss).
 9.10: Bass—Mr. L. M. Cachemaille, (a) "The Old Refrain" (Kreisler); (b) "Because I Miss You" (Coates).
 9.16: Waltz—Band, "Queen of Pearls" (Bourne).
 9.24: Vocal quartet—The Majors, from "Oberon in Fairyland" (Stevens).
 9.27: Balalaika Orchestra, Gorskaja, (a) "Das Bachlein"; (b) "Kasbek".
 9.33: Soprano—Miss F. Elmes, (a) "The Snowdrop" (Craxton); (b) "Lovely Spring" (Coener).
 9.39: Overture—Band, "Fair Maid of Perth" (Volti).

- 9.46: Vocal quartet—The Majors, (a) "The Three Ravens" (arr. Williams); (b) "Vespers" (Bonner).
 9.52: Guitar—Palakiko and Paaluhi, "Kohala March" (Traditional).
 9.56: Selection—Band, (a) "Fill the Shining Goblet" (Parry); (b) "Invercargill" (Lithgow).
 10.2: God save the King.

Wednesday, June 10

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, JUNE 10.

- 12.30: Relay of Community Singing from the Auckland Town Hall.
 3.0: Selected recordings.
 3.15: Literary selection by the Announcer.
 5.0: Children's session, conducted by Uncle Reg.
 6.0: Dinner music session (Columbia)—
 J. H. Squire's Celeste Octet, "Operatica" (arr. Squire) (DOX62).
 Band—The Bombardiers, "Hungarian Dance, No. 5" (Brahms).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Adagietto."
 Regal Orchestra, "Pagliacci" Selection (Leoncavallo) (Regal G30007).
 J. H. Squire's Celeste Octet, "Song of the Waterfall" (Squire) (DO149).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte le Carillon" (Bizet) (01327).
 London Theatre Orchestra, "A Country Girl" Selection (Monckton).
 Band—The Bombardiers, "Hungarian Dance, No. 6" (Brahms).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Intermezzo."
 Regal Cinema Organ, "Show of Shows" Selection (05086).
 J. H. Squire's Celeste Octet, (a) "Scent of the Jasmine" (Squire) (DO149); (b) "Two Eyes of Grey" (McGeoch) (01213).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte la Cuisine de Castelet" (Bizet) (01326).
 7.0: News session and market reports.
 7.40: Talk—Mr. H. H. Driver, "Book Review."
 8.0: Chimes. March—Polydor Brass Band, (a) "Petersburger"; (b) "The Old Hunter" (Polydor 23567).
 8.7: Soprano—Miss Mary Pulman, (a) "An Indian Serenade"; (b) "An Indian Lullaby" (Morgan).
 Vocal—Miss Mary Pulman and Mrs. D. I. Steer, "The Wanderer's Evensong" (Newton).
 8.13: Selection—Orchestral Octet, under direction of Harold Baxter, "Blue Paradise" (Romberg).

- 8.21: Baritone—Mr. A. G. McPhail, (a) "Linden Lea" (Williams); (b) "Take Me with You to Dreamland" (Costin).
 8.26: Accordion—Medard Ferrero, "Monte Christo" (Gabutti) (Polydor).
 8.34: Intermezzos—Orchestral Octet, "At Sunset" (Brewer); (b) "Serenade" (Widor); (c) "Shufflin' Dance" (Gideon).
 8.43: Contralto—Mrs. D. I. Steer, (a) "Harvest" (Del Riego); (b) "I Be Hopin' You Remember" (Coningsby Clarke).
 8.49: Septet—Iwan Wassiljeff Septet, (a) "Grandfather Pachom"; (b) "Siberian Convict's Song" (Traditional) (Polydor 20806).
 8.55: Orchestral Octet, incidental music to "The Conqueror" (German); (a) "Romance," (b) "Dance of the Children," (c) "Satyr Dance."
 9.3: Evening weather forecast and announcements.
 9.5: Piano—Mr. Cyril Towsey, "Brahms' Waltzes" (Brahms).
 9.15: Humour—Will Fyffe, "Daft Sandy" (Fyffe) (Columbia DOX87).
 9.23: Soprano—Miss Mary Pulman, "Pierrot at the Dance" (Drummond).
 Vocal—Miss Mary Pulman and Mrs. D. I. Steer, "Golden Slumber."
 Contralto—Mrs. D. I. Steer, "On the City Wall" (Hope).
 9.32: Rhapsodie—The Orchestral Octet, "Csikos et Bohemienne" (Bolun).
 9.36: Baritone—Mr. A. G. McPhail, (a) "Mountain Lovers" (Squire); (b) "Because" (D'Hardelot).
 9.42: Organ—Reg. Foort, (a) "In the Heart of the Sunset" (Nicholls); (b) "Forever" (Ager) (H.M.V. B3044).
 9.48: Suite—Orchestral Octet, "Hyde Park" (Jolowicz); (a) "Rotten Row," (b) "The Serpentine," (c) "Around the Bandstand"; waltz, "A Thousand and One Nights" (Strauss).
 10.4: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, JUNE 10.

- 10.0: Chimes. Selected gramophone recordings.
 11.0: Miscellaneous—11-12 a.m., Lecturette, "Home Sewing"; 11.37 a.m., Lecturette, "Hollywood Affairs."
 12.0: Lunch hour music.
 3.0: Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by Aunt Daisy.
 6.0: Dinner music session (Parlophone)—
 Edith Lorand Orchestra, "Tales of Hoffman" Fantasia (Offenbach).
 Dajos Bela String Orchestra, "Goldregen" (Waldteufel) (A4238).
 Otto Dobrindt and His Symphony Orchestra, "Speak Not of Love Eternal" (Granichstaedten) (A4275).
 Dajos Bela Orchestra, "I Pagliacci" Selection (Leoncavallo) (A4090).
 Sandor Jozsri Orchestra, "Polo" (Petras) (A2851).
 Berlin State Opera House Orchestra, "Rustle of Spring" (Sinding).
 Dajos Bela Orchestra, "Delirien" Waltz (Strauss) (A4182).
 Edith Lorand Orchestra, "Prelude" (Rachmaninoff) (A4040).
 Dajos Bela Orchestra, "Count of Luxembourg" Waltz (Lehar).
 Sandor Jozsri Orchestra, "Marionette's Wedding March" (Rathie).
 Berlin State Opera House Orchestra, "Praeludium" (Jarnefeldt).
 Dajos Bela String Orchestra, "Gold and Silver" (Lehar) (A4238).
 Edith Lorand Orchestra, "Liebesfeier" (Weingartner) (A4040).
 Mitja Nikisch and His Symphony Orchestra, "Madelon"—Dream Waltz.
 7.0: News session, market reports and sports results.
 7.25: Lecturette—Mrs. Albert Russell, "Rejuvenating."
 7.45: Relay of the Official Opening of the Wellington Radio Exhibition by the Postmaster-General, Hon. J. B. Donald, from the Town Hall. Programme supplied by the Radio Exhibition.
 9.0: Weather report and station notices.
 9.2: Selection—2YA Orchestra (Conductor, Signor A. P. Truda), "Madame Butterfly" (Puccini); Dance, "Polonaise Militaire."
 9.17: Humour—Horace Kenney, "A Music Hall Trial Turn" (Kenney).
 9.25: Baritone with orchestra—Mr. Dan Foley, (a) "Gipsy Love Song" (Herbert); (b) "Little Town in the Auld County Down" (Sanders).
 9.31: Selection—2YA Orchestra, "From A to Z" (arr. Geiger).
 9.46: Baritone—Mr. Dan Foley, with orchestral accompaniment, (a) "Achal by the Sea" (Lawrence); (b) "The Menin Gate" (Bowen).
 9.52: Concert waltz—2YA Orchestra, "Dolores" (Waldteufel); March, "Tere de la Victoire" (Ganne).
 10.2: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, JUNE 10.

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour.
 6.0: Dinner music session (Polydor)—
 Paul Godwin Orchestra, "The Czarewitsch" (Lehar) (19678); "Liliputian's Wedding" (Translatour) (19660).
 Paul Godwin's Orchestra, with organ, "Adoration" (Tilipucci) (19978).
 Great Symphony Orchestra, "The Gipsy Princess" (Kalman) (27172).
 Paul Godwin's Orchestra, with organ, "Invocation" (Ganne) (19978).
 Paul Godwin Quintet, "Vision" (Drda) (19533).
 Opera Orchestra Berlin-Charlottenburg, "Si J'Etats Roi" (Adam).
 Paul Godwin Dance Orchestra, "Little Butterflies" (Steinke) (19660).
 Paul Godwin Quintet, "Chant D'Amour" (Franz Drda) (19533).
 Paul Godwin Jazz Symphonians, "Lots of Fun" (Morena) (19761).
 7.0: News session.
 7.15: Relay of 4YA, Dunedin, "Farmer Brown visits the Experimental Farm."
 7.30: Addington stock market reports.
 8.0: Chimes. Overture—Percival Mackey's Band, "The Vagabond King."
 8.8: Contralto—Mrs. F. Nelson Kerr, (a) "In Moonlight" (Elgar); (b) "The Fleeting Hour" (Dorothy Lee); (c) "Break, Break, Break."

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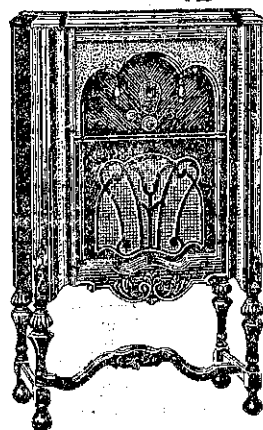
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- 8.15: Novelty duets for two pianos—Misses Maisie Ottey and Merle Miller, (a) "Ragamuffin" (Greer); (b) "Danube Dreams" (Greer).
- 8.21: Tenor—Mr. Charles R. Williamson, (a) "The Night has a Thousand Eyes" (Lambert); (b) "The Crown of the Year."
- 8.27: Selection—Instrumental Trio (Miss Gladys Vincent, Mr. Francis Bate and Miss Clutha Serjeant), "Popular Songs by Eric Coates."
- 8.37: Soprano—Miss Addie Campbell, (a) "Ave Maria" (Mascagni); (b) "Three Green Bonnets" (D'Hardelot).
- 8.41: Cello—Mr. Francis Bate, (a) "Liebestraum" (Von Blon) (b) "Air de Ballet" (Massenet).
- 8.49: Contralto—Mrs. F. Nelson Kerr, (a) "The Roumanian Mountains" (Lohr); (b) "Life Has Sent Me Many Roses" (Lohr); (c) "Roumanian Night Song" (Lohr); (d) "Beloved Sleep" (Slater).
- 8.55: Organ—Leo Stin, (a) "The Sea's Surging Devotion" (Gaublier); (b) "La Serenata" (Hitz) (Polydor 23166).
- 9.1: Weather forecast and station notices.
- 9.3: Talk—Te Ari Pitama, "Maori Foods," Part 1.
- 9.13: Novelty duets on two pianos—Misses Maisie Ottey and Merle Miller, (a) "Nola" (arr. Arndt); (b) "Piano Phun" (Alter).
- 9.24: Tenor—Mr. Charles R. Williamson, (a) "I Will Await Thee" (Clarke); (b) "Charming Chloe" (German).
- 9.29: Violin—Miss Gladys Vincent, (a) "Dragon Flies" (Zsoll); (b) "Mazurka in A Minor" (Chopin).
- 9.35: Male quartet—The Abels, "Kannst Du Mir Verzeihn"; (b) "Das Lied Von Der Wunder Bar" (Katscher) (Polydor 23332).
- 9.41: Selection—Instrumental Trio, (a) "Pale Moon" (Knight Logan); (b) "Aguero" (Jose Franco).
- 9.48: Soprano—Miss Addie Campbell, (a) "Solveig's Song" (Grieg); (b) "The Banks of Allan Water" (arr. Lewis).
- 9.55: Marches—Massed Military Bands, (a) "1001 March" (Blankenburg); (b) "The Gladiator's Farewell" (Blankenburg) (Parlo. A4274).
- 10.1: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, JUNE 10.

- 3.0: Afternoon session.
- 3.15: Talk—"Profit and Pleasure," by the Home Science Extension Service of Otago University.
- 5.0: Children's hour, conducted by Big Brother Bill.
- 6.0: Dinner music session (H.M.V.)—
New Light Symphony Orchestra, "Scene de Ballet—Marionettes."
Berlin State Opera Orchestra, "Polonaise No. 2."
Marek Weber's Orchestra, "Potpourri of Waltzes" (Robrecht).
National Symphony Orchestra, "Fra Diavolo" Overture (Auber).
Piano—Vladimir de Pachmann, (a) "Mazurka in C Sharp Minor"; (b) "Mazurka in A Minor" (Chopin) (DB1106).
Trio—De Groot, David Bor, H. M. Calve, "El Religario" (Padilla).
Band of H.M. Coldstream Guards, "Martha" Selection (Flotow).
New Symphony Orchestra, "Air on G String" (Bach) (B2913).
Marek Weber and Adlon Orchestra, "The Rose Bearer" (Strauss).
New Light Symphony Orchestra, "Persiflage" (Francis) (B2754).
New Symphony Orchestra, "Londonderry Air" (arr. Grainger).
Trio—De Groot, David Bor, H. M. Calve, "Selection in Hebrew Melodies" (arr. Saunders) (B3107).
- 7.0: News session.
- 7.15: Dialogue—Messrs. R. B. Tennent and L. W. McCaskill, "Farmer Brown Decides to Grow Lucerne."
- 8.0: Chimes. Overture—Cordoba Philharmonic Orchestra, "Carnival."
- 8.5: Bass—Mr. W. Kershaw, (a) "The Sword of Ferrara" (Bullard); (b) "O Western Wind" (Brahe); (c) "At Grendon Fair" (Marie).
- 8.14: Trios—Misses Ethel Wallace, S. Baker and V. Moffatt, (a) "Valse" (Cui); (b) "Extase" (Ganne); (c) "Pastel-Menuet" (Paradis).
- 8.25: Soprano—Miss Mae Mathieson, (a) "Hey Derry Down" (from "Tom Jones") (German); (b) "It Was a Knight"; (c) "Tis the Harp in the Air" (both from "Maritana") (Wallace).
- 8.34: Piano—Miss Sybil Baker, "Autumn" (Chaminade).
- 8.40: Baritone—Mr. R. Duerden, (a) "The Lute Player" (Allitsen); (b) "Harvester's Night Song" (Power); (c) "Sea Fever" (Ireland).
- 8.49: Trios—Misses Wallace, Baker and Moffatt, (a) "Canzonetta" (Ames); (b) "Finale Trio in C Minor" (Beethoven).
- 9.0: Weather report and station notices.
- 9.2: Special Lecture-recital, under the auspices of the Society of Professional Musicians of Otago, by Dr. V. E. Galway, assisted by Mr. Alfred Walmsley, tenor, "Folk Music."
- 9.31: Dance session (Q.R.S.)—
Foxtrots—Cova Cavaliers, "Right or Wrong I'm Still in Love With You" (Gillespie) (Q1000).
New Yorkers, "Go Get 'Em Caroline" (Cremare) (Q1002).
Cova Cavaliers, "Have a Little Faith in Me" (Lewis).
New Yorkers, "Love" (Goulding) (Q1017).
- 9.42: Waltz—Al Hopkins Buckle Busters, "Marosovia Waltz" (Belcher).
Foxtrots—New Yorkers, "Ev'rything's Rosey Now" (Herscher).
Jack Montrose Orchestra, "Egypt" (Costello) (Q1024).
New Yorkers, "Harmonica Harry" (Phil Baxter) (Q1002).
- 9.54: Vocal—Mildred Grizelle, "Under the Spell of the Moon" (Unger).
- 9.57: Foxtrots—Zenith Knights, "Should I?" (Freed) (Q1007).
Cova Cavaliers, "Those Old Sweethearts of Mine" (Menzi) (Q1052).
Zenith Knights, "My Blue Ridge Mountain Home" (Robinson).
Cova Cavaliers, "Like a Dream" (Rose) (Q1052).
- 10.9: Polka—Al Hopkins and His Buckle Busters, "Polka Medley."
Foxtrots—Carl Fenton and His Orchestra, "Sing You Sinners."
Zenith Knights, "We'll Be Married in June" (Marchini).
George Posnack and Orchestra, "Black Horse" (Tarto).
- 10.21: Vocal—Tommy Weir, "Waiting Through the Night" (Smolv).

- 10.24: Foxtrots—Broadway Players, "Watching My Dreams Go By."
Carl Fenton and His Orchestra, "Keep on the Sunny Side."
Zenith Knights, "Where the Golden Daffodils Grow" (Kahn).
George Posnack and Orchestra, "Whippoorwill" (de Voll).
- 10.36: Waltz—Eight Radio Stars, "Always in My Heart" (Drew Perry).
Foxtrots—Carl Fenton and His Orchestra, "Apart From You."
The New Yorkers Orchestra, "Because I'm Lonesome."
- 10.45: Vocal—Mildred Grizelle, "So Sympathetic" (Kahn) (Q1043).
- 10.48: Foxtrots—Cova Cavaliers, "Telling it to the Daisies" (Young).
Carl Fenton and His Orchestra, "Exactly Like You."
George Dobkins and His Orchestra, "Love Me in My Dreams" (Lillich) (Q1059).
The New Yorkers Orchestra, "Ro, Ro, Rolling Along."
- 11.0: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, JUNE 10.

- 6.30 to 7.30 p.m.: Children's session.
7.30 to 8 p.m.: Sports talks.

Thursday, June 11

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, JUNE 11.

- 3.0: Selected recordings.
- 3.15: Talk—"Toothsome Stories Pt. 2." Prepared by the Home Science Extension Service of Otago University.
- 5.0: Children's session, conducted by Peter Pan.
- 6.0: Dinner music session (H.M.V.)—
London Symphony Orchestra, "Czar Sultan" Suite (D1491).
International Concert Orchestra, "Waltz Dream" (Zonophone EF18).
De Groot and His Orchestra, "Louise" Selection (C1879).
New Light Symphony Orchestra, "Peer Gynt Suite" (Grieg): (1) Ingrid's Lament; (2) Arabian Dance (C1571): "Prelude in G Minor" (Rachmaninoff) (Zonophone EF24): "Peer Gynt Suite" (Grieg); (1) Return of Peer Gynt; (2) Solveig's Song (C1572); "Prelude in C Sharp Minor" (Rachmaninoff) (Zonophone EF24).
De Groot and His Orchestra, "Samson and Delilah" (C189).
Philadelphia Symphony Orchestra, "Danse Orientale" (B521).
International Concert Orchestra, "Sari" (Kalman) (Zono. EF18).
Philadelphia Symphony Orchestra, "March of the Caucasian Chief."
- 7.0: News session and market reports.
- 7.40: Talk under the auspices of the New Zealand Manufacturers' Association, "Attractive Packing of Goods."
- 8.0: Chimes. Studio Concert by the Aeolian Orchestra, under the Conductorship of Mr. Gerald T. Lee.
March—"Under the Double Eagle" (Wagner): Overture, "La Dame" (Herman).
Contralto—Miss Kay Christie, "O Flower Of All The World."
Incidental music to "Monsieur Beaucaire" (Rosse): (1) Intermezzo; (2) Leit Motif; (3) Gavotte; (4) Chant des Voyageurs; (5) Love Scene; (6) March.
Violin solo—Miss Moya Cooper-Smith, "Polonaise" (Wienlawski).
Intermezzo—Valse: "Chanson Bohemienne" (Baldi).
Baritone—Mr. William Gemmell, "Golden Light" (from "Agnus Dei") (Bizet) (with violin—Miss Moya Cooper-Smith, organ—Mr. Gerald T. Lee).
Selection—"The Fortune Teller" (Herbert).
Evening forecast and announcements.
Overture—"Si J'Etais Roi" (Adam).
Contralto—Miss Kay Christie, "Morning" (Speaks).
Intermezzo—"Jours Passes" (Horne).
Baritone—Mr. William Gemmell, "An Evening Song" (Blumenthal).
Selection—"Princess Ida" (Sullivan).
- 9.30: Dance programme (Columbia)—
Foxtrots—Ben Selvin and His Orchestra, "Around the Corner" (Kas sel) (DO175); "You Can't Be Unhappy If You Sing."
Paul Specht and His Orchestra, "Santiago" (DO155).
Stellar Dance Band, "Minnie's Yoo-Hoo!" (Regal G20743).
- 9.42: Waltz—The Four Bright Sparks, "Eleanor" (McCarthy) (DO139).
Foxtrots—Van Phillips and His Band, "Just Like In A Story Book."
Gil Dech and His Syncopators, "Bridge of Our Dreams Come True."
- 9.51: Vocal duet—Sweet and Low Duettists, "By The Waters of Killarney."
- 9.54: Foxtrots—Ipana Troubadours, "Cooking Breakfast for the One I Love."
Columbia Photo Players, "Leave It That Way" (DO127).
Ipana Troubadours, "Kickin' a Hole in the Sky" (DO89).
Columbia Photo Players, "The Whole Darned Thing's For You" (Ahlert) (DO127).
- 10.6: Waltz—Frank Ferera's Hawaiian Trio, "Lazy Louisiana Moon."
Foxtrots—Paul Specht and His Orchestra, "Into My Heart" (DO155).
The Four Bright Sparks, "High Society Blues" (DO139).
- 10.15: Vocal—Cavan O'Connor, "The Sunshine of Marseilles."
- 10.18: Foxtrots—The Columbia Photo Players, "The Free and Easy."
Frank Ferera's Hawaiian Trio, "Pale Blue Waters."
Stellar Dance Band, "The Toy Farmyard" (Regal G20746).
Paul Whiteman and His Orchestra, "Livin' in the Sunlight."
- 10.30: Waltzes—Stellar Dance Band, "I Feel You Near Me" (Regal G20773).
Foxtrots—The Columbia Photo Players, "It Must Be You" (DO80).
Ben Selvin and His Orchestra, "With My Guitar and You."

Paul Whiteman and His Orchestra, "You Brought a New Kind of Love to Me" (Fain) (07039).

Stellar Dance Band, "A Pair of Blue Eyes" (G20773).

10.45: Vocal duet—Sweet and Low Duettists, "Just an Old Refrain."

10.48: Foxtrots—Van Phillips and His Band, "I'm in the Market for You." Gil Dech and His Syncopators, "Johnnie, Our Aeroplane Girl" (Lumsdaine) (D084).

Debroy Somers' Band, "Figaro" (Mitchell) (D0133).

Gil Dech and His Syncopators, "A Lone Girl Flyer" (D084).

11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, JUNE 11.

10.0: Chimes. Selected gramophone recordings.

11.12: Lecturette—"Cooking."

11.37: Lecturette—"Sleep." Under the auspices of the Health Department.

12.0: Lunch hour music.

2.0: Miscellaneous.

3.0: Selected gramophone recordings.

3.15: Lecturette—Miss I. F. Meadows, "Toothsome Stories, Part 2." Talk prepared by the Home Science Extension Department of Otago University.

3.30 and 4.30: Sporting results to hand.

5.0: Children's session, conducted by Uncle George and Big Brother Jack.

6.0: Dinner music session (H.M.V.)—

Royal Opera Orchestra, "Sylvia Ballet" Pizzicato and Procession of Bacchus (Delibes) (C1418).

New Light Symphony Orchestra, "Scene De Ballet Marionettes."

Royal Opera Orchestra, "The Sleeping Beauty" Panorama (C1469).

National Symphony Orchestra, "Irish Rhapsody" (Zono. EP34).

Trio—Fritz and Hugo Kreisler, Michael Rauchaussen, "Sanctissi."

National Symphony Orchestra, "Orpheus in Hades" Overture.

Royal Opera Orchestra, "Shepherd Fennel's Dance" (C1469).

Zonophone Salon Orchestra, "Narcissus" (Nevin) (Zono. 5370).

National Military Band, "Lohengrin" Prelude (Zono. A358).

New Light Symphony Orchestra, "Persiflage" (Francis) (B2754).

Trio—Fritz and Hugo Kreisler, Michael Rauchaussen, "Arlesienne Intermezzo" (Bizet, arr. Kreisler) (BB1166).

La Scala Orchestra, "The Secret of Susanna" Overture (D1488).

7.0: News session, market reports and sports results.

7.40: Lecturette—Miss Inez Connop, "Dancing in Relation to Health."

8.0: Chimes. Relay of Radio Exhibition Programme from Wellington Town Hall.

9.0: Weather report and station notices.

9.2: Suite—Salon Orchestra (Conductor Mr. M. T. Dixon) "Suite From The Countryside" (Coates).

9.10: Sketch—Mr. and Mrs. E. Ransom Myers, "Sweet Memories" (Grant).

9.20: Instrumental—Salon Orchestra, Mr. W. Haydock and Salon Orchestra, "Liebesfreud" (Kreisler).

9.29: Male Choir—Berner Liedertafel, (a) "Unsere Berge," (b) "Aufblick."

9.37: Sketch—Mr. and Mrs. E. Ransom Myers, "Lost and Found" (Wayne).

9.45: Selection—Salon Orchestra, "Maytime" (Romberg); "Latest Dance Novelties."

10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, JUNE 11.

3.0: Gramophone recital.

3.15: Lecturette—"Toothsome Stories, Part 2." Prepared by the Home Science Extension Service, Otago University.

4.25: Sports results.

5.0: Children's hour.

6.0: Dinner music session (H.M.V.)—

New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai).

Marek Weber's Orchestra, "Moonlight on the Alster" (Petras).

Cedric Sharpe Sextet, "Chanson Napolitaine" (D'Ambrosio).

New Light Symphony Orchestra, "Hearts and Flowers" (Tobani).

Marek Weber's Orchestra, "Wine, Women and Song" (Strauss).

Organ—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey).

Cedric Sharpe Sextet, "O Lovely Night" (Ronald) (B3429).

New Light Symphony Orchestra, "The Glow-worm Idyll" (Lincke).

Victor Salon Orchestra, "Indian Love Call" (from "Rose Marie") (Primi) (B1186); "The World is Waiting for the Sunrise."

De Groot and His Orchestra, "When Summer is Gone" (Harrison-Wilbrite) (B3035); "The Merry Widow" (Lehar) (B2945).

Organ solos—Reginald Foort, (a) "Leave Me Alone," (b) "Songs My Mother Taught Me" (Dvorak) (C1459).

Vienna Schrammel Quartet, "Roguish Eyes" (Uschmann).

7.0: News session.

7.30: Talk—Mr. J. W. Calder, Lincoln Agricultural College, under the auspices of the 3YA Primary Productions Committee, "Diseases of Cereals."

8.0: Chimes. Vocal programme arranged by Madame Josephine Ottlee. Accompanist, Mr. Finlay Robb.

Overture—Columbia Symphony Orchestra, "March of the Bojaren."

8.4: Mezzo-soprano—Miss Delcia Philpott, "Five Eyes" (Armstrong Gibbs).

Vocal trio—Misses Sylvia Angus, Delcia Philpott and Kathleen Bond, "The Dream Seller" (Markham Lee).

Baritone—Mr. Denys Cow, "Soul of Mine" (Ethel Barnes).

8.11: Piano—Mr. Finlay Robb, "Bohemian Dance" (Smetana).

8.15: Contralto and orchestra—Miss Kathleen Bond and Studio Octet, "There's a Land" (Allitsen).

Tenor—Mr. Douglas Suckling, arioso, "Vesti la Giubba" (Leoncavallo).

8.27: Vocal quartet—Misses Sylvia Angus, Kathleen Bond, Messrs. Douglas Suckling and Finlay Robb, "An Evening's Pastorale."

Soprano—Miss Clarice Cooper, "Hey Derry Down" (German).

8.31: Instrumental—Studio Octet (Conductor, Harold Beck), (a) "Holiday Dance" (Rubenstein); (b) "If I Were King" Overture (Adam).

8.42: Soprano and Orchestra—Miss Sylvia Angus and Studio Octet, "Una Voce Poco Fa" (from "Barbiere di Siviglia") (Rossini).

8.49: Piano—Mr. Finlay Robb, "Valse Nobles" (Schubert).

8.53: Contralto—Mrs. Tristram Wilcox, "Bless Thou the Lord" (Craxton).

8.57: Instrumental—Studio Octet, (a) "Old English Dance Tunes" (arr. Carse); (b) "Golden Light" (Bizet); (c) "Caprice."

9.6: Weather forecast and station notices.

9.8: Entr'acte—Basle Symphony Orchestra, "Rosamunde Entr'acte No. 2."

9.11: Bass—Mr. Finlay Robb, Negro Spiritual, "Steal Away."

Soprano and mezzo-soprano—Misses Kathleen and Delcia Philpott, "Twin Stars" (Chaminade).

Soprano—Miss Phyllis Coombs, "Two Roses" (Hallet Gilberte).

9.16: Instrumental—Studio Octet (a) "Bouree," (b) "Sicilienne," (c) "Minuet," (d) "Canon" (Dolmetsch).

9.26: Contralto—Miss Myra Sutton, "Contrition" (Beethoven).

9.30: Dance music (Brunswick)—

Foxtrots—Ben Bernie and His Orchestra, "I'm Yours" (Harburg).

Jacques Renard and His Orchestra, "Loving You the Way I Do" (Scholl) (4919).

Ben Bernie and His Orchestra, "Confessin'" (Neilburg).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Just a Little Dance, Mam'selle" (O'Flynn) (4927).

9.42: Waltz—Abe Lyman and His California Orchestra, "This is Love."

Foxtrots—Isham Jones's Orchestra, "Sweet Jennie Lee" (Donaldson).

Jacques Renard and His Orchestra, "Lucky Seven" (Dietz).

9.51: Vocal—Wendell Hall, "Underneath the Mellow Moon" (Hall) (4879).

9.54: Foxtrots—Ozzie Nelson and His Orchestra, "I Don't Mind Walkin' in the Rain" (Rich) (4897).

Isham Jones's Orchestra, "In My Heart It's You" (4914).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "I Wonder How it Feels" (Sherman) (4881).

10.3: Jacques Renard and His Orchestra, "Sing Something Simple" (Hupfeld) (4918); "Can This Be Love?" (James) (4919).

10.9: Vocal—Jessica Dragonette, "When You're Away" (Blossom) (4904).

10.12: Foxtrots—Isham Jones's Orchestra, "I'll be Blue, just Thinking of You."

Meyer Davis's Hotel Astor Orchestra, "Looking for the Love-light in the Dark" (Dubin) (4870).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Little White Lies" (Donaldson) (4881).

10.21: Waltz—Castlewood Marimba Band, "When the Organ Played at Twilight" (Wallace) (4913).

10.24: Foxtrots—Ozzie Nelson and His Orchestra, "I Still Get a Thrill."

Meyer Davis's Hotel Astor Orchestra, "As Long as I Have You" (Dubin) (4870).

Tom Gerun and His Orchestra, "A Big Bouquet for You."

Vocal—Wendell Hall, "Land of My Sunset Dreams" (Hall) (4879).

10.36: Foxtrots—Tom Gerun and His Orchestra, "Sing" (Johnson) (4911).

Tom Gerun and His Orchestra, "If I Could Be With You" (Creamer) (4895); "Wasting My Love on You" (Leslie).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Sweetheart of My Student Days" (Kahn) (4927).

10.48: Waltz—Castlewood Marimba Band, "Moonlight on the Colorado."

10.51: Foxtrots—Emil Coleman and His Orchestra, "I've Got Five Dollars."

Loring Nichols and His Orchestra, "You Said It" (Arlen).

Emil Coleman and His Orchestra, "We'll be the Same."

11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, JUNE 11.

SILENT DAY.

Friday, June 12

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, JUNE 12.

3.0: Selected recordings.

3.15: Literary selection.

5.0: Children's session, conducted by "Nod" and "Aunt Jean."

6.0: Dinner music session.

Great Symphony Orchestra, "Vienna Operetta Revue" (Robrecht).

Jacques Jacobs' Ensemble, "Wiener Blut" (Strauss) (Columbia 02556).

Band of H.M. Grenadier Guards, "La Benediction des Poignards."

Jacques Jacobs' Ensemble, "Española Waltz" (Waldteufel).

Plaza Theatre Orchestra, "My Lady Dainty" (Hesse) (Col. 01438).

Jacques Jacobs' Ensemble, "Sobre Las Olas" (Rosas) (02556).

Symphony Orchestra, "Countess Mariza" Medley (Kalmán).

J. H. Squire's Celeste Octet, "Valse Bleu" (Margis) (Col. 3643).

B.B.C. Wireless Symphony Orchestra, "Il Trovatore" Selection (Verdi).

J. H. Squire's Celeste Octet, "Amoureuse Valse" (Berger) (Col. 3643).

Band of H.M. Grenadier Guards, "Lo! Here the Gentle Lark."

Plaza Theatre Orchestra, "The Busy Bee" (Bendix) (Col. 01438).

7.0: News and market reports.

8.0: Chimes. Overture—Berlin State Opera Orchestra, "Die Fledermaus" (Strauss) (Columbia 04345).

Special Studio Presentation of the Mystery Play, "The White Owl," by Dr. George de Clive Lowe. Producer: Mr. J. M. Clark.
 Act 1 Scene: The Drawing Room of "The Priory"—the home of Vosper Edgeworth in Hampshire—time, 9 p.m.
 Entr'acte—Symphony Orchestra, "Entr'acte and Valse" (from "Coppelia Ballet" (Delibes) (Columbia 05055)).
 Act 2 Scene: The same as Act 1. 1½-2 hours later.
 Entr'acte—Philadelphia Symphony Orchestra "March of the Smugglers" (from "Carmen") (Bizet) (H.M.V. D1618).
 Act 3 Scene: The same as Act 1. Six days later.
 March—Symphony Orchestra, "Hungarian March" (from "Damnation of Faust") (Berlioz) (Columbia 05055).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, JUNE 12.

- 10.0 : Chimes. Selected gramophone recordings.
 11.12 : Lecturette—"Fashions."
 11.37 : Lecturette—"Beauty Culture in all its Phases."
 12.0 : Lunch hour music.
 2.0 : Miscellaneous.
 3.0 : Selected gramophone recordings.
 3.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session, conducted by "Uncle Jim" and "Story Book Lady."
 6.0 : Dinner music session.
 The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
 Heerman Trio, "Pierrette" (Chaminade) (Brunswick 4228).
 Brunswick Hour Orchestra, "Only a Rose" (Hooker, Friml).
 Symphony Orchestra, "Eva" Medley (Lehar) (Polydor 27013).
 New Light Symphony Orchestra, "Spanish Dance, No. 1."
 Brunswick Concert Orchestra, "The Perfect Song" (Brell).
 Symphony Orchestra, "Frederick" Medley (Lehar) (Polydor 27070).
 New Light Symphony Orchestra, "Spanish Serenade" (Bizet).
 Brunswick Concert Orchestra, "Sylvia" (Speaks) (Brunns. 4632).
 Heerman Trio, "Dalvisa" (Sandby) (Brunns. 4228).
 Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger).
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. Dan McKenzie, "The Laws of Rugby."
 8.0 : Chimes. Relay of Wellington Radio Exhibition Programme from the Town Hall.
 9.0 : Weather report and station notices.
 9.2 : Selection—2YA Orchestra (Conductor, Signor A. P. Truda), "Dancing Mistress" (Monckton); "Rhapsodie Russe" (Nassbaum).
 9.17 : Baritone—Mr. Reg. Blow, with orchestral accompaniment, (a) "The Yeomen of England" (German); (b) "Uncle Rome" (Homer).
 9.23 : Cello—Gaspard Cassado, (a) "Papillon" (Faure); (b) "Arlequin."
 9.31 : Selection—2YA Orchestra, "Stop Flirting" (Gershwin).
 9.40 : Baritone—Mr. Reg. Blow, with orchestral accompaniment, (a) "Beloved it is Morn" (Aylward); (b) "A Little Irish Girl" (Lohr).
 9.46 : Winkler Trio, (a) "Schiebel Waltz" (Schrammel); (b) "Forest Songsters" (Ziehrer) (Polydor 22965).
 9.52 : Medley—2YA Orchestra, "The Girl With the Baby Stars" (Von Blon).
 10.0 : Dance programme—"Columbia"—
 Foxtrots—Ben Selvin and His Orchestra, "The Rogue Song."
 Stellar Dance Band, "Harmony Heaven" (Vincent).
 Paul Tremaine and His Orchestra, "There's One More River to Cross" (DO98).
 Waltz—Guy Lombardo and His Royal Canadians, "Lazy Lou'siana Moon" (Donaldson) (DO128).
 10.12 : Foxtrots—Rhythmic Troubadours, "Without You, Emaline" (de Rose) (Regal G20764); "You're the Sweetest Girl."
 Guy Lombardo and His Royal Canadians, "Where the Golden Daffodils Grow" (Archer) (DO128).
 10.21 : Vocal—Art Leonard, "Ten, Twenty, Thirty Years Ago" (O'Hagan).
 10.24 : Foxtrots—Ipana Troubadours, "Blue is the Night" (Fisher).
 Rhythmic Troubadours, "I'm in the Market For You."
 Ipana Troubadours, "Whippoorwill" (de Voll) (DO125).
 10.35 : Waltzes—Stellar Dance Band, "I'll Always Be Dreaming of Mary."
 The Columbia Photo Players, "Dream Lover" Waltz (Schertzinger).
 Foxtrots—Ben Selvin and His Orchestra, "When I'm Looking at You."
 Rhythmic Troubadours, "My Future Just Passed."
 10.45 : Vocal—Art Leonard, "Around the Corner" (Kahn) (G20760).
 10.48 : Foxtrots—Paul Tremaine and His Orchestra, "Swing Low Sweet Chariot" (arr. Paul Tremaine) (DO98).
 Fred Rich and His Orchestra, "For You" (Roemheld).
 The Columbia Photo Players, "My Love Parade."
 Fred Rich and His Orchestra, "Dream Avenue" (Richman).
 11.0 : God save the King.

3YA, CHRISTCHURCH (960 KILOCYCLES)—FRIDAY, JUNE 12.

- 3.0 : Gramophone recital.
 4.25 : Sports results.
 5.0 : Children's hour.
 6.0 : Dinner music session (Polydor)—
 Paul Godwin's Orchestra, "Through Weber's Enchanted Woods" (Ernst Urbach) (19998); "Mignon—Entr'acte Gavotte" (Thomas) (22520); "Firefly's Idyl" (Lincke) (21920); "Dance of the Dervishes" (Bendix) (19680); "Third Waltz Medley" (Robrecht) (27177).
 Members of the State Opera Orchestra, Berlin, "Don Pasquale."
 Paul Godwin's Orchestra, "Suite Algerienne" (Saint-Saens) (22520).
 Symphony Orchestra, "Homage March" (Grieg) (27042).
 Vienna Schrammel Quartet, "Firefly's Appointment" (Ludwig Siede).
 Polydor Brass Band Orchestra, "Il Trovatore" (Verdi) (22446).

Great Symphony Orchestra, "Paying a Visit to Millocker" (Morena).

- 7.0 : News session.
 7.30 : Dialogue by the Sunlight League Representatives, Messrs. H. Mc. D'Vincent and I. Donnelly, "The Smoke Nuisance in Christchurch."
 7.45 : Dialogue—Messrs. D. Cossgrove and W. Melbourne, "Radio Service."
 8.0 : Chimes. Overture—Debroy Somers Band, "Hungarian Medley."
 8.7 : Baritone—Mr. J. Graham Young, (a) "At Santa Barbara" (Russell); (b) "Marcheto" (Schertzinger).
 8.13 : Instrumental—Studio Octet (Conductor, Harold Beck), march, "Ultimatum" (Allan); overture, "Crown Diamonds" (Auber).
 8.23 : Soprano—Miss Agnes Cunningham, (a) "Coon Lullaby" (Clutsam); (b) "Barney O'Hea" (Lover).
 8.28 : Highland war pipes—Pipe Major J. A. Patterson, march, "Leaving Sochalsh" (Findalson); strathspey, "Miss Drummond of Perth" (Traditional); reel, "Sleepy Maggie" (Traditional).
 8.32 : Humour—Mr. George Titchener, (a) "The Operatic Policeman" (Newman); (b) "My Wife's Cake" (Bentley).
 8.41 : Characteristic—Studio Octet, "Pizzicato Polka" (Strauss).
 8.44 : Baritone—Mr. A. G. Thompson, (a) "Till I Wake"; (b) "Less than the Dust" (from "Four Indian Love Lyrics") (Woodforde-Finden).
 8.50 : Selection—Studio Octet, "Belle of New York" (Kerker).
 9.1 : Weather forecast and station notices.
 9.3 : Accordion—Pauley Witch Accordion Ensemble, "A la Maniere d'Eux."
 9.9 : Baritone—Mr. J. Graham Young, (a) "How's My Boy?" (Homer); (b) "Round the Galley Fire" (Oliver).
 9.15 : Foxtrots—Studio Octet, (a) "Goblin Blues" (Monte Carlo); (b) "The Can Song" (Williams).
 9.21 : Soprano—Miss Agnes Cunningham, (a) "Sing, Break into Song" (Mal-linson); (b) "Love's a Merchant" (Carew).
 9.29 : Highland war pipes—Pipe Major Patterson, march, "Barren Rocks of Aden" (McKellar); strathspey, "Maggie Cameron" (Traditional); reel, "Reel o' Tulloch" (Traditional).
 9.34 : Chorus—Light Opera Company, "Lily of Killarney" (Benedict).
 9.42 : Humour—Mr. George Titchener, "My Advice" (Goddin).
 9.47 : Valse—Studio Octet, "Artist's Life" (Strauss).
 9.57 : Baritone—Mr. A. G. Thompson, (a) "Yeoman's Wedding Song" (Poniatowski); (b) "Home, Little Maori, Home" (Hill).
 10.3 : March—Black Diamonds Band, "Punjab" (Payne) (Zono. 2793).
 10.6 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, JUNE 12.

- 3.0 : Selected recordings.
 5.0 : Children's hour, conducted by Aunt Sheila.
 6.0 : Dinner music session (Parlophone)—
 Dajos Bela String Orchestra, "Andrea Chenier" (Fantasia (Giordano) (Parlophone E10521); "Morgenblätter" (Morning Leaves) (A4038).
 Berlin State Opera House Orchestra, "Iris" Dances (Mascagni) (AR 1012); "Casse Noisette" Suite—Miniature Overture (E10516).
 Berlin State Opera House Orchestra with Karol Szreter, pianist, "Hungarian Rhapsody No. 2" (Liszt) (A4109); "Lohengrin—Introduction to Act 3" (Wagner) (A4030).
 Edith Lorand's Orchestra, "Vienna" Waltz (Drdla) (E10531).
 Berlin State Opera House Orchestra, "Die Rantzau" Selection.
 Edith Lorand Orchestra, "Prelude in C Sharp Minor" (Rachmaninoff).
 Opera Comique Orchestra, "Scenes Pittoresques—March and Fete Boheme" (Massenet) (A4057).
 Berlin State Opera House Orchestra, "Casse Noisette" Suite—Dance of the Sugar Plum Fairy (Tschalkowsky) (E10517).
 Edith Lorand's Orchestra, "Merry Vienna" Waltz (Ziehrer) (E10531).
 7.0 : News session.
 7.40 : Talk—Mr. R. W. Coupland, "Tourist Resorts."
 8.0 : Chimes. Overture—National Symphony Orchestra, "Orpheus in Hades".
 8.9 : Male quartet—The Regal Four, (a) "Thuringian Folk Song" (Traditional); (b) "Banish, O Maiden" (Lorenzo).
 8.17 : Trios—Messrs. A. H. Pettitt, K. Hunter and T. Law, (a) "Masquerade" (Byford); (b) "Can This Be Love?" (Parry); (c) "I'm in the Market for You" (Hanley).
 8.27 : Humorous song—Mr. W. McDonald, "Old King Cole."
 8.31 : Accordion—Jean Vaissade, (a) "The Secret of a Night" (Vaissade); (b) "Couscous" (Latore) (Polydore 23615).
 8.37 : Soprano—Mrs. D. Carty, (a) "Grannie's Highland Hame" (McPherson); (b) "My Laddie" (Thayer).
 8.43 : Trio—Messrs. Pettitt, Hunter and Law, (a) "Waves of the Danube" (McPherson); (b) "Three Little Words" (Ruby).
 8.53 : Male quartet—Regal Four, (a) "Two Roses" (Werner); (b) "Holy Night" (Yruber).
 9.0 : Weather report and station notices.
 9.2 : Marches—Polydor Brass Band, (a) "Castaldo" (Novacek); (b) "D'Banda Kommt" (Schild) (Polydor 23066).
 9.8 : Scots humour—Mr. Bert. Rawlinson, "Flat-footed Jean" (Traditional).
 9.11 : Trio—Messrs. Pettitt, Hunter and Law, (a) "Absence Makes the Heart Grow Fonder" (Young); (b) "Nina" (Raynes); (c) "Miss You" Tobias).
 9.21 : Duet and chorus—Messrs. Scott and McDonald, "Belle Mahone."
 9.25 : Violin—H. Solloway, (a) "Valse Bluetie" (Drigo—arr. Auer); (b) "Caprice, No. 1" (Vescey) (Polydor 62557).
 9.31 : Soprano—Mrs. D. Carty, "Hame o' Mine" (Murdoch).
 9.34 : Piano—Mrs. C. Drake, (a) "Moment Musical" (Schubert); (b) "Etude Mignonne" (Schutt).
 9.39 : Male quartet—Regal Four, "Soldiers' Farewell" (Kinkel).

- 9.43: Trio—Messrs. Pettitt, Hunter and Law, (a) "The Skaters" (Waldteufel); (b) "The Evening Hour" (Kussner).
 9.51: Baritone and male quartet—Mr. Bert Rawlinson and Regal Four, "My Lady Sleeps" (Traditional).
 9.57: Novelty orchestra—London Novelty Orchestra, "Happy Darkies."
 10.0: God save the King.

Saturday, June 13

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, JUNE 13.

- 3.0: Relay of description of Rugby Football Match from the Eden Park.
 5.0: Children's session, conducted by Cinderella.
 6.0: Dinner music session (Columbia)—
 March—National Military Band, "National Emblem" (Bagley).
 Cello—W. H. Squire, "The Broken Melody" (Van Biene) (04180).
 Albert Sandler's Orchestra, "I Kiss Your Hand, Madame" (Erwin).
 Organ—G. T. Pattman, "Cherie Waltz" (Valentine) (01344).
 New Mayfair Orchestra, "Follow Through" (De Sylva) (H.M.V.).
 Court Symphony Orchestra, "The Gondoliers" (Sullivan) (Col. 979).
 Paul Whiteman's Orchestra, "Gypsy" (Gilbert) (07505).
 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 Tambouritz Orchestra, "Serbian Melody" (01490).
 Ketelbey's Orchestra, "Bells Across the Meadow" (Ketelbey).
 Rio Marimba Serenaders, "Dolores" (Waldteufel) (Regal).
 Organ—G. T. Pattman, "Worryin' Waltz" (Fairman) (01344).
 March—National Military Band, "Stars and Stripes" (Sousa).
 7.0: News and market reports.
 8.0: Chimes. Relay of Municipal Band Concert from the studio (Conducted by Mr. George Buckley).
 March—Band, "Staffordshire" (Duthoit); overture, "Semiramide."
 Choir—Sieber Choir, "The Mill in the Black Forest" (Ellenberg).
 Cornet—Mr. Fred Bowes, "Air Vari" (De Beriot).
 Selection—Band, "Mors et Vita" (Gounod); waltz, "Gold and Silver."
 Accordion—Michel Haling, (a) "La Mitrailleuse," (b) "Myra Valse."
 Xylophone—Mr. Jackson, "Selected."
 Selection—Band, "The Girl of the Golden West" (Puccini).
 Male quartet—The Maestros, (a) "After the Ball" (Harris); (b) "Two Little Girls in Blue" (Graham) (Columbia D0290).
 Flute—Mr. Hal C. McLennan, "Introduction and Variation on a Well-known Theme" (Merrseman).
 Patrol—Band, "The Turkish Patrol" (Michaelis); fantasia, "Moments Musical" (Schubert).
 The Sieber Choir, "Waltz—Faust, Act 2" (Gounod) (Parlo. A4264).
 March—Band, "The London Scottish" (Haines).
 10.0: Programme of dance music from the studio (Polydor)—
 Foxtrots—Marimba Original Excelsior de Guatemala, "Hula Tropical."
 Ilja Livschakoff Dance Orchestra, "I am so Happy" (May).
 Paul Godwin Dance Orchestra, "Just Such a Girl" (23398).
 10.9: Waltz—Paul Godwin Dance Orchestra, "Pardon, Madame" (23398).
 10.12: Foxtrots—Marimba Original Excelsior de Guatemala, "Llorando."
 Paul Godwin Dance Orchestra, "Victoria and Her Hussar" (Abraham) (23399); "The Broken Record" (Howalt) (23176).
 10.21: Vocal—Don and Ken, "Sunny Days" (Jason) (Parlophone A3106).
 10.24: Tangos—Ilja Livschakoff Dance Orchestra, "O Miss Daisy" (23698).
 Paul Godwin Dance Orchestra, "Poor Little Mannequin."
 Ilja Livschakoff Dance Orchestra, "Queen of Dreams."
 10.33: Waltzes—Paul Godwin Dance Orchestra, "Under the Roofs of Paris" (Moretti) (23644); "Good Night!" (Abraham) (23398).
 10.39: Vocal—Don and Ken, "Roamin' Thru' the Roses" (O'Flynn).
 10.42: Foxtrots—Ben Berlin and His Orchestra, "Fairly on the Clock" (Myers).
 Paul Godwin Dance Orchestra, "Mickey Mouse" (Carlton).
 Ben Berlin and His Orchestra, "Clown Dolly" (Rust).
 10.51: Tangos—Ilja Livschakoff Dance Orchestra, "Don't You Want a Friend, Little Madam?" (Meisel) (23334).
 Paul Godwin Dance Orchestra, "Thus Spoke the Knowing Marabu" (Egen) (23397); "A Sweetheart as Sweet as You Are" (Meisel) (23334).
 11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, JUNE 13.

- 3.0: Chimes. Relay of Rugby football match from Athletic Park.
 5.0: Children's session, conducted by Aunt Molly.
 6.0: Dinner music session (Parlophone)—
 Dajos Bela Orchestra, "Faust" Waltz (Gounod) (Parlophone A4010).
 Major Bowes Capitol Theatre Trio, "My Isle of Golden Dreams."
 Barnabas von Geczy and His Orchestra, "Softly, as in a Morning Sunrise" (Romberg) (A2892).
 Berlin State Opera House Orchestra, "The Mastersingers" Overture.
 Barnabas von Geczy and His Orchestra, "Pardon, My Lady" Tango.
 Dajos Bela Orchestra, "Vienna Bon Bons" Waltz (Strauss) (A4056).
 Grand Symphony Orchestra, "Polonaise No. 1 in A" (A4089).
 Barnabas von Geczy and His Orchestra, "One Kiss" Waltz (A2892).
 Pavilion Lescaut Tango Orchestra, "In a Little Cafe" Tango (A2898).
 Major Bowes Capitol Theatre Trio, "Pale Moon" (Logan) (A2593).
 Dajos Bela Orchestra, "The Swallows" Waltz (Strauss) (A4010).

- Grand Symphony Orchestra, "Hungarian Dances. Nos. 5 and 6."
 Frank Westfield's Orchestra, "The New Sullivan" Selection" (A2679).
 Dajos Bela Orchestra, "Roses of the South" Waltz (A4056).
 7.0: News session, market reports and sports results.
 7.40: Lecture—Mr. Christopher Perkins, a W.E.A. Lecture, "The Museum of the Future."
 8.0: Chimes. Relay of Wellington Radio Exhibition Programme from the Town Hall.
 9.0: Weather report and station notices.
 9.2: Relay from the Concert Chamber, Town Hall of Concert by the Wellington Commercial Travellers and Warehousemen's Association Male Voice Choir.
 10.0: Dance programme from the studio (H.M.V.)—
 Foxtrots—Jack Hylton and His Orchestra, "The King's Horses."
 Ted Weems and His Orchestra, "My Baby Just Cares For Me" (Kahn).
 Nat Shilkret and His Orchestra, "Dixiana" (EA799).
 Ted Weems and His Orchestra, "A Girl Friend of a Boy Friend of Mine" (Kahn) (EA800).
 10.12: Waltz—Nat Shilkret and His Orchestra, "Dancing With Tears in My Eyes" (Dubin) (EA812).
 Foxtrots—The High Hatters, "Anchors Aweigh" (EA765).
 Jack Hylton and His Orchestra, "Adeline" (EA820).
 The High Hatters, "The Mug Song" (Gaskill) (EA765).
 10.24: Vocal—Aileen Stanley, "Swingin' in a Hammock" (EA808).
 10.27: Foxtrots—Nat Shilkret and His Orchestra, "How Are You To-night in Hawaii?" (Leslie) (EA819).
 Nat Shilkret and His Orchestra, "Mr. and Mrs. Sippi."
 Green Brothers' Marimba Orchestra, "Lo Lo" (Zono. EE217).
 Nat Shilkret and His Orchestra, "Why Have You Forgotten Walkiki?"
 10.39: Waltz—International Novelty Quartet, "Jolly Fellows" (Zono. 5667).
 Foxtrots—Marimba Centro Americana, "Forget You? Never!"
 International Novelty Quartet, "Knocked 'Em in the Old Kent Road" (Ingle) (Zono. 5667).
 10.48: Vocal—Aileen Stanley, "I Love You So Much" (EA808).
 10.51: Foxtrots—Ben Bernie and His Orchestra, "It's a Lonesome Old Town."
 Waring's Pennsylvanians, "Little White Lies."
 Ben Bernie and His Orchestra, "Au Revoir—Pleasant Dreams" (Meskill) (Brunswick 4943).
 11.0: Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, JUNE 13

- 2.50: Relay of Rugby League Football Match from Monica Park.
 4.45: Sports results and close down.
 5.0: Children's Hour.
 6.0: Dinner music session (Polydor)—
 Paul Godwin Dance Orchestra, "Medley of Popular Student Songs."
 Paul Godwin Quintet with harp, "Extase—Reverie" (19923).
 Paul Godwin's Orchestra, "Poranek" Waltz Intermezzo (22872).
 Organ—Leo Stin, "Chanson Hindoue" (23165).
 Polydor Orchestra, "Coucou—Imitative Waltz" (Jonasson) (23563).
 The Paul Godwin Orchestra, "In the Rosary" (Bialecki) (21005), "Tin Soldier's Parade" (Jessel) (19659).
 Berlin State Opera House Orchestra, "Introductions Act 1, 2 and 3" (from "Carmen") (Bizet) (27190).
 Paul Godwin Quintet with harp, (a) "Popular Song"; (b) "Tale."
 Paul Godwin's Orchestra, "La Serenade" Waltz (Metra) (22872).
 Organ—Leo Stin, "Werther" (Massenet) (23165).
 The Paul Godwin Orchestra, "Fairy Doll Waltz" (Bayer) (21005).
 The Paul Godwin Dance Orchestra, "Siamese Parade" Fantasy.
 Polydor Orchestra, "Valse Poudree" (Popy) (23563).
 7.0: News session.
 7.30: Sports results.
 8.0: Chimes. Overture—Paul Godwin's Orchestra, "Cinderella's Bridal Procession" (Dicker) (Polydor 23322).
 8.4: Tenor—Mr. David McGill, (a) "Annie Laurie" (Lehmann), (b) "At Dawning" (Cadman).
 8.10: Steel Guitars and Ukulele—Elaine Moody's Hawaiian Quartet, (a) "Lucky Me, Lovable You" (Yellen-Ager); (b) "Sweet Hawaiian Moonlight" (Klickman), (c) "Confessin' That I Love You."
 8.19: Violin—Miss Irene Morris, "Canzonetta" (D'Ambrosio).
 8.22: Cabaret songs with ukulele—The Joyous Pair, (a) "Betty Co-ed" (Vallee), (b) "A Girl Friend of a Boy Friend of Mine."
 8.28: Instrumental—Christchurch Broadcasting Trio, (a) "March Miniature Viennois" (Kreisler), (b) "Souvenir" (Severne), (c) "Hungarian Dance No. 1" (Brahms).
 8.38: Sketch—The Mascots, Adventures of Jo and Vi "Enter Snookums."
 8.58: Banjo and Guitar—Brothers Bertini, (a) "Wedding Chimes," (b) "Medley of Stephen Foster Songs" (Foster) (Regal G20819).
 9.4: Weather forecast and station notices.
 9.6: Paul Godwin's Orchestra, "Torchlight Procession of the King of the Frogs" (Kronberger-Marriot) (Polydor 23322).
 9.9: Cabaret songs with ukulele—The Joyous Pair, (a) "Moonlight on the Colorado" (King), (b) "My Baby Just Cares For Me."
 9.17: Violin—Miss Irene Morris, "Liebeslied" (Kreisler).
 9.20: Male Trio—The Three Harmonisers, (a) "There's a Good Time Comin'" (Wallace), (b) "Rollin' Down the River" (G20907).
 9.26: Instrumental—Broadcasting Trio, (a) "Clog Dance—Handel in the Strand" (Kreisler), (b) "April's Lady" (Ancliffe); (c) "Scherzo."

Sunday, June 14

- 9.37: Tenor—Mr. David McGill, (a) "The Carnival" (Molloy), (b) "Roses of Forgiveness" (D'Hardelot).
- 9.43: Accordion—M. Vola, (a) "La Java de Doudoune" (Padilla), (b) "The Skaters" (Waldteufel) (H.M.V. B3498).
- 9.49: Steel Guitars and Ukulele—Elaine Moody's Hawaiian Quartet, (a) "Somebody Mighty Like You" (Bryan); (b) "Song of the Islands" (King), (c) "Why Have You Forgotten Waikiki?"
- 10.0: Dance music (Polydor)—
Foxtrots—Marimba Original Excelsior de Guatemala, "Vamos Al Merendo" (Jorga) (21903).
Ben Berlin Dance Orchestra, "First the Right Leg" (Kollo) (23394), "A Very Good Chum" (Heymann) (23534).
- 10.9: Waltz—Ilja Livschakoff Dance Orchestra, "You've Been My Lucky Star" (Stolz) (23400).
Foxtrots—Ben Berlin Dance Orchestra, "Just You" (Nelson) (23394).
Paul Godwin Dance Orchestra, "Both You And Myself."
- 10.18: Vocal—Jack O'Hagan, "Rambling Down the Roadway" (DO130 Col).
- 10.21: Tangos—Jose M. Lucchesi and His South American Orchestra, "Alla Va El Caldo" (Pippo) (22060); "La Voz Del Viento" (Lucchesi), (22059); "Amargura" (Lucchesi) (22060).
Waltz—Paul Godwin Dance Orchestra, "Goodbye" (23326).
- 10.30: Foxtrots—Ben Berlin Dance Orchestra, "To Begin With a Big Question Mark" (Heymann) (23533); "Hallo, Sweet Lady" (Heymann) (23534); "My Heart Is Longing For You" (Heymann) (23533).
- 10.39: Vocal—Jack O'Hagan, "With My Guitar and You" (Col. DO130).
- 10.42: Tangos—Marimba Original Excelsior de Guatemala, "Nubes De Humo." Ilja Livschakoff Dance Orchestra, "The Tale of Good Fortune" (Stolz) (23400).
Jose M. Lucchesi and His South American Orchestra, "Sole-dada" (Coppola) (22076).
- 10.51: Foxtrots—Marimba Original Excelsior de Guatemala, "Bomberos" (21903), "Mi Perrito" (Pearly Chagnon) (21905).
- 11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, JUNE 13.

- 3.0: Selected recordings and racing results.
- 5.0: Children's hour, conducted by Aunt Anita.
- 6.0: Dinner music session (Parlophone)—
Dajos Bela Orchestra, "I Pagliacci" Selection (Leoncavallo) (A4090).
Frank Westfield's Orchestra, "The Druid's Prayer" (Davson) (A2501).
Orchestra of the Opera Comique, Paris, "Carmen" Overture (Bizet).
Edith Lorand Orchestra, "Tales of Hoffmann" Fantasia (Offenbach).
Grand Symphony Orchestra, "L'Arlésienne Suite, No. 1" (Bizet). (a) "Minuet"; (b) "Adagietto" (E10597).
Organ—F. Rowland-Tims, "Melody" (Dawes) (H.M.V. B3308).
Dajos Bela Orchestra, "La Traviata" Fantasia (Verdi) (A4027).
Grand Symphony Orchestra, "L'Arlésienne Suite, No. 2." (a) "Intermezzo"; (b) "Farandole" (Bizet) (E10598).
Edith Lorand Orchestra, "Cavalleria Rusticana" Fantasia (Mascagni).
Orchestra of the Opera, Paris, "Carmen" Entr'acte (Bizet) (A2687).
Frank Westfield's Orchestra, "Neapolitan Nights" (A2501).
- 7.0: News session.
- 8.0: Chimes. Relay of Vaudeville Concert from Station 3YA, Christchurch.
- 10.0: Dance session (H.M.V.)—
Foxtrots—Leo Reisman and His Orchestra, "Puttin' on the Ritz." Jack Hylton and His Orchestra, "Punch and Judy Show." Gus Arnheim and His Orchestra, "Dancing to Save Your Soul" (Gilbert) (EA743).
Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
- 10.12: Waltz—Ted Florito and His Orchestra, "Molly" (Goulding) (EA717).
Foxtrots—The Rhythmic Eight, "Fairy on the Clock" (Myers).
Jack Hylton and His Orchestra, "The Kerb Step" (Young).
- 10.21: Vocal duet—Esther Coleman and Foster Richardson, "The Voyagers."
- 10.24: Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "I Love You So Much" (Kaimar) (EA754).
Coon-Sanders Orchestra, "Moanin' For You" (Goulding).
Victor Arden, Phil Ohman and Their Orchestra, "Dancing the Devil Away" (Harbach) (EA754).
- 10.33: Waltz—Arcadians Dance Orchestra, "Melody Divine" (Ruby).
Foxtrots—Bernie Cummins and His Hotel New Yorker Orchestra, "Minnie the Mermaid" (de Sylva) (EA751).
Arcadians Dance Orchestra, "Evening Shadows" (Polla).
Ted Weems and His Orchestra, "Mysterious Mose" (Doyle).
- 10.45: Vocal duet—Esther Coleman and Foster Richardson, "Mountain Lovers" (Squire) (Zono. 5546).
- 10.48: Foxtrots—The Rhythmic Eight, "Sweethearts' Holiday" (Kahal).
Nat Shilkret and His Orchestra, "Singing a Vagabond Song." Jack Hylton and His Orchestra, "On Her Doorstep last Night" (Hargreaves) (B5744).
Gus Arnheim and His Orchestra, "All I Want is Just One."
- 11.0: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, JUNE 13.

- 2.50 to 4.30 p.m. (approx.): Sports relay.
- 6.30 to 7.30 p.m.: Children's session.
- 7.30 to 8.0 p.m.: Sports results and talks.
- 8 to 10 p.m.: Concert and dance programme, with sports results.

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, JUNE 14.

- 3.0: Selected recordings, and relay of portion of Organ Recital by the City Organist, Mr. Maughan Barnett, from the Auckland Town Hall.
- 6.0: Children's Song Service, conducted by Uncle Bert.
- 7.0: Relay of Divine Service from St. David's Church.
- 8.30 (approx.): Symphony Orchestra, "La Tosca" Selection (Puccini).
Contralto—Miss Nellie Lingard, "Happy Days" (with flute obbligato).
Orchestra Octet, under the direction of Mr. Harold Baxter, "Slav Dance No. 6" (Dvorak); "Valse Lyrique" (Sibelius).
Baritone—Mr. Laurie Stuart, (a) "A Song of the Homeward Bound" (Coningsby Clark); (b) "Roadways" (Lohr).
Intermezzo—Orchestra Octet, "Fairylend" (Voelker); Orchestra, "Andante from 5th Symphony" (Tchaikowsky).
Evening weather forecast and announcements.
The Balalaika Orchestra, Gorskaja, (a) "Der Mond Leuchtet" (Trad'l); (b) "Russian Folk Songs" (Trad'l) (Polydor 20585).
Contralto—Miss Nellie Lingard, (a) "Bird of Morn" (Sharpe); (b) "When I Hear a Song Lark" (Brahe).
Paul Godwin's Quartet, (a) "Concerto No. 2 in D Minor" (Wieniawski); (b) "Legende D'Amour" (Bece) (Polydor 19456).
Idyl—Orchestra Octet, "Summer" (Gernert); Intermezzo, "Ivresse D'Amour" (Kapeller); (b) "Serenade" (Ern).
Baritone—Mr. Laurie Stuart, (a) "Sons of the Sea" (Coleridge-Taylor); (b) "Give a Man a Horse he Can Ride" (O'Hara).
Male quartet—Fritz Pries's Quartet, (a) "Inder Pfalz" (Beda-Benes); (b) "Lebwohl, Schwarzbraunes Magdelein" (Erwin-Beda) (in German) (Polydor 23746).
Suite—Orchestra Octet, "On Jhelum River" (Woodforde-Finden).
- 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JUNE 14.

- 3.0: Afternoon session of selected gramophone recordings.
- 6.0: Children's song service conducted by Uncle George, assisted by the Children's Choir from the Vivian Street Baptist Church.
- 7.0: Relay of evening service from St. Gerard's Redemptorist Church, Hawker Street, Wellington.
- 8.15 (approx.): Relay of Band Recital by the Royal Naval Volunteer Reserve Band from the De Luxe Theatre (Conductor, Mr. Harry Baker).
- God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, JUNE 14.

- 3.0: Gramophone recital.
- 5.30: Children's song service by children of the Presbyterian Sunday Schools.
- 6.15: Chimes from studio.
- 6.30: Relay of evening service from St. Andrew's Presbyterian Church. Preacher, Rev. J. Lawson Robinson; organist, Mr. R. Lake; choir conductor, Mr. J. Maclean.
- 7.45: Musical recordings from studio.
- 8.15 (approx.): Relay of programme from 4YA, Dunedin.
- 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JUNE 14.

- 3.0: Afternoon session.
- 5.30: Children's song service, conducted by Big Brother Bill.
- 6.15: Instrumental recordings.
- 6.30: Relay of evening service from Moray Place Congregational Church. Preacher, Rev. Albert Mead; choirmaster, Mr. Alfred Walmsley.
- 7.45 (approx.): Selected recordings.
- 8.15: Studio concert. Vocal portion arranged by Mr. Ernest Drake. Selection—Paul Godwin's Orchestra, "Eugénie Onegin" (Tchaikowsky).
- 8.23: Part-songs—The Chorus, (a) "The Lass of Richmond Hill" (Hook), (b) "Sleep, Gentle Lady" (Bishop).
Contralto—Miss Mary Pratt, "The Enchantress" (Hatton).
- 8.32: Selection—Instrumental sextet (Director, Mr. A. H. Pettitt), "Glory of Russia" (Krein).
- 8.44: Duet—Misses Evelyn Shepard and D. Sligo, "January and February."
- 8.49: Violin—Miss Betty Garland, (a) "Hejare Kati" (Hubay), (b) "Song of India" (Rimsky-Korsakov).
- 8.55: Tenor—Mr. Ernest Drake, "All Hail, Thou Dwelling" (from "Faust").
- 8.59: Selection—The Sextet, "Les Braconniers" Overture (Offenbach).
- 9.5: Weather report and station notices.
- 9.7: Piano—Mrs. C. Drake, "Fantasia in C Minor" (Bach).
- 9.10: Quartet—Misses L. de Clifford, Mary Pratt, Messrs. J. E. Davies and W. Kershaw, "Rigoletto Quartet" (Verdi).
Baritone—Mr. S. Kershaw, "Elegie" (Massenet).
- 9.19: Selection—The Sextet, "The Gondoliers" (Sullivan).
- 9.29: Duet—Misses Aileen Young and Evelyn Shepard, "May and June."
- 9.32: Organ—Archer Gibson, "The Old Refrain" (Kreisler) (Zono. EF35).
- 9.36: Part-songs—The Chorus, (a) "As Torrents in Summer" (Elgar), (b) "By Babylon's Wave" (Gounod).
Soprano—Miss Dorothy Sligo, "Lo, Here the Gentle Lark" (Bishop).
- 9.48: Cello—Orlando de Castro, "At the Fountain" (Davidson) (Parlo.).
- 9.52: Part-song—The Chorus, "A Spring Song" (Pinsuti).
- 9.55: Selection—The Sextet, "The Gascon" Overture (Suppe).
- 10.3: God save the King.

The International Mind

(Continued from page 3.)

are not their predecessors or followers. The same tendency may be observed in psychology, ethics, and economics. The meaning of the great values of life—goodness, beauty, and truth—should be disseminated to "the utmost bound of human thought." There should be no inferiority in this respect as between philosophy and science. That which is covered should be revealed; that which is hidden should be made known; and that which is spoken in the ear should be proclaimed upon the house-tops. This is what happens with the discoveries of science. We have a great sounding-board for the progress of physical investigation.

The scientific journals, the latest text-books, and even the daily press make new advances common property in a very short time. "Science," it has been said, "has no frontiers." "Unless the new marvels of chemistry and dynamics are sold to governments for the purposes of future employment in warfare, they are quickly propelled through the air and over the seas to the ends of the earth.

Now, this is at once an object-lesson of the International Mind, and at the same time a terrible menace to International Peace. The Great War proved what a frightful scourge to humanity science can become when it is used by the war-lords. Annihilation, suffering to combatants and non-combatants alike, destruction of life and property on land, the high seas, and in the air follow in the wake of the wizards of science who have been commandeered to accompany the armies and navies of belligerents. The absolute control of the powers unleashed by science is necessary to save the race from suicide. Like fire, scientific invention is a good servant, but a bad master.

And the question at once rushes to the front: How are the destructive possibilities of science to be governed, moderated and, if need be, crushed, in the interests of human welfare? The answer is to be found in the dominance of Spirit over Matter, the rule of Reason over the human passions, the ascendancy of Idealism, Internationalism and Religion over the ruthlessly calculating and devastating operations of the Moloch of War.

Mind Over Matter.

THE International Mind must be strengthened to regulate the mighty ramifications of physical activity as the individual mind is trained to rule over the body. With man's conquest of the ether, the air, the atom, and the titanic forces of chemical and physical nature, there must proceed pari passu man's conquest over himself. The alternative in the event of war is the destruction of civilisation.

There can be no such control if nation is warring with nation, kingdom with kingdom. The will to live is thus split into contending fragments. The

newly-acquired powers of science must be governed or, like a brainless mammoth, will mow down the human race with maniacal movements, resembling the revolving scythes on huge chariot wheels.

This may seem to be a dreadful picture of the future; but it can be averted only by the dominance of the Spirit. Reference has already been made to the illustration given in the recent war, which would be out-Heroded in another such struggle. But man's reason, divinely illumined and linked with tenderness, can and must assert itself as the arbiter of human destinies. Of the prospect of man's frustration by the forces which he has cleverly elicited from the vasty deep of Nature, we may surely say with the poet Wordsworth, in his "Excursion":—

"Believe it not;

The primal duties shine aloft, like stars;

The charities that soothe, and heal, and bless

Are scattered at the feet of man, like flowers."

The World a Whispering Gallery.

ASK, in conclusion, how this universal mind is to come to itself, surveying the boundaries that divide nation from nation and race from race, as the navigator regards latitude and longitude, the Equator, the Tropics and the Arctic Circle, as convenient, albeit imaginary lines on the globe, rather than as absolute divisions. The reply must be that the International Mind must use and interpret all knowledge and skill, including, of course, science, pure and applied, and all its agencies, in relation to the service of mankind.

Radio, with its growing marvels, of which we have touched only the fringe as yet—a fringe of invisible filaments, it is true, encompassing the earth and evoking mysterious and awe-inspiring echoes from distant space—television, which soon will revolutionise our press and our entertainments and all kinds of communications; aviation, the films, and swift transport on land and sea; these and other agents of science are rapidly bringing us all closer together and making the world into a huge whispering-gallery. In this proximity of nations, races and creeds, "Grace and Truth" are needed to sweeten the changed relationships of mankind. World citizenship can be established only by the dissemination of illuminating ideas and the cultivation of fellowship by international goodwill and mutual understanding.

These are essential to the solution of "the common problem, yours, mine, and everyone's," and this spirit must be promoted by old and young, by European, American, Oriental, African and Antipodean, if the world is to be made safe for humanity. If this higher point of view is steadfastly inculcated, we may reasonably hope for the fulfilment of the prophecy which President Woodrow Wilson voiced at the Peace Conference when he said that

"he looked forward to the time when men would be as ashamed of being

Australian Programmes

Times Corrected for N.Z.

Thursday, June 4.

STATION 2FC.—9.30 p.m.: "Mr. Pim Passes By," A. A. Milne's famous comedy-drama.

2BL.—9.40 p.m. and 10.54 p.m.: Constance Burt, soprano. 10.22 p.m. and 11.28 p.m.: Daisy Richards, violinist. 11.41 p.m.: Cornet solo.

3LO.—9.30 p.m.: Fifteen minutes of Mexican music. 10 p.m.: Dance items, interspersed with vaudeville numbers.

3AR.—Relay of 2FC, Sydney.

Friday, May 5.

STATION 2FC.—9.37 p.m. and 9.58 p.m.: The Harmony Four, vocalists. 9.44 p.m.: Clive Amadio, saxophonist. 9.51 p.m. and 10.30 p.m.: Dorothy Hall, entertainer at the piano. 10.45 p.m.: Relay from 3LO, Melbourne, of band recital.

2BL.—9.30 p.m., 10.15 p.m., and 10.55 p.m.: The Keston Trio, instrumentalists. 9.37 p.m. and 10.22 p.m.: Jack Lumsdaine, the Radio Rascal. 9.47 p.m. and 10.42 p.m.: Joseph Kaartinen, saxophonist. 9.54 p.m. and 11.23 p.m.: Wally Baynes, comedian. 10.1 p.m. and 11.30 p.m.: Hal Stead, novelty pianist. 10.32 p.m. and 11.37 p.m.: Two short radio sketches.

3LO.—9.30 p.m.: Orchestral and choral music. 10.15 p.m.: Comedy interlude. 10.30 p.m.: Light music. 10.45 p.m.: Military band recital.

3AR.—Community singing.

Saturday, June 6.

STATION 2FC.—9.30 p.m.: Concert programme by the National Broadcasting Orchestra. 9.47 and 11.8 p.m.: Iris de Caviros Rego presents piano

disloyal to humanity as they were now of being disloyal to their country."

solos with orchestral accompaniment. 10.17 p.m. and 11.25 p.m.: Vladimir Elin, baritone.

2BL.—9.30 p.m., 11.0 p.m., and 11.28 p.m.: Harrison White's Banjo Troupe. 9.35 p.m. and 11.7 p.m.: Harry Craig, baritone. 9.54 p.m. and 11.21 p.m.: Ruby Leslie, soprano. 11.14 p.m. and 11.35 p.m.: Colston Carter, novelty pianist.

3LO.—9.30 p.m.: "June Jollity," the monthly review.

3AR.—9.45 p.m. and 11.5 p.m.: Cecil Fraser, piano novelty. 9.51 and 11.11 p.m.: Mavis Glomans, monologues. 10.16 p.m.: Vocal duets. 10.30 p.m.: "The Footprints," a ghost story.

Sunday, June 7.

STATION 3LO.—9.30 p.m.: Orchestral concert by the Victorian Professional Orchestra. 10.30 p.m.: The Sundowners' Quartet, with Arnold Coleman at the Wuriltzer.

Monday, June 8.

STATION 3LO.—9.30 p.m.: "Boccaccio," a comic opera in three acts.

3AR.—9.50 p.m.: Brass band and ballad concert. 10.7 p.m. and 11.2 p.m.: Alfred Ackland, violinist. 10.30 and 11.25 p.m.: Frances Cave, monologues. 10.37 p.m. and 11.32 p.m.: "Jack and Jill Propriety Unlimited" will entertain.

Tuesday, June 9.

STATION 3LO.—9.40 p.m.: "Camille," a drama in five acts (by Alexandre Dumas, fils).

3AR.—10 p.m., 10.24 p.m., and 11.48 p.m.: Art Chapman and his Rex Orchestra present dance numbers. 10.7 p.m., 10.42 p.m., and 11.20 p.m.: Metro Male Quartet. 10.30 p.m. and 11.2 p.m.: "The Two Wags" will entertain.

Wednesday, June 10.

STATION 3LO.—9.30 p.m.: Concert programme by A.B.C. Wireless Symphony Orchestra.

3AR.—9.30 p.m.: Relay from 2FC, Sydney, of a studio presentation of the opera "Tristan and Isolde." 11 p.m. and 11.37 p.m.: Master Four Male Quartet.

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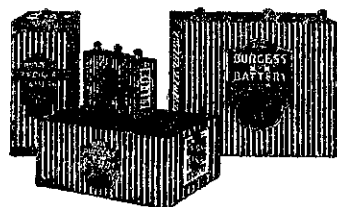
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**BURGESS
RADIO
BATTERIES**

Questions and Answers

(Continued from page 15.)

sists of 40 turns of d.c.c. Can I add a few more turns?

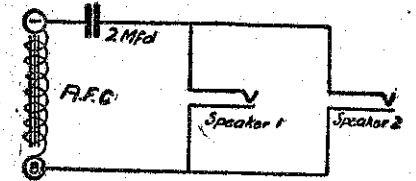
A.: It is unusual for set to keep on oscillating on low frequency stations. Try reducing the detector voltages on these. You may add a few more turns on the primary if you wish, but try reducing them.

3. The valves are all 6-volt ones, connected to a single rheostat, which I can turn only half on. If I go any further the set oscillates.

A.: It seems as though your set is very much out of neutralisation.

DYNAMIO (Lower Hutt): Can I use my short-wave set in conjunction with an all-electric set by connecting the output with the gramophone terminals?

A.: Yes, but you will have to make some provision to prevent the low-frequency current getting mixed up with the a.c. set. To do this either use the adapter as described in the "Guide" or use an output filter as is shown in the accompanying diagram to isolate the two sets.



frequency current getting mixed up with the a.c. set. To do this either use the adapter as described in the "Guide" or use an output filter as is shown in the accompanying diagram to isolate the two sets.

O.H.M. (Wanganui): I am intending to alter my set to take a.c. valves and I intend to use 226 for the r.f., 227 for the detector and 603 for the second audio. What value of grid bias resistors are needed for the r.f. and detector valves?

A.: The 226 valve should not be used as it is out of date. Use 227's throughout. This valve, with 100 volts on the plate, requires about 2000 ohms bias resistance. 603 requires the same.

P.S. (Carterton): When the free end of an indoor antenna is connected to the earth terminal on my set the volume is sensibly increased. Why?

A.: Because by using your aerial as a loop you are bringing the set nearer oscillation.

2. Seeing my aerial has a natural wavelength, which is increased by a coil, how is it when I use a shorter aerial 2YA comes in on the same place on the dial, i.e., seeing that L is less how is it that C does not have to be increased to give the same i.c. value?

A.: The inductance of the aerial is almost negligible and practically does not affect the inductance of the coil. Furthermore, it is coupled to a special coupling device which prevents variations in the length of the aerial having any effect upon the tuning.

3. Without any adaptation of the set could I use s.g. valves?—No.

37 (Christchurch): In what issue can I find diagrams and details of a shortwave four-valve set?

A.: The Differential Four in the "R.R."

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of April 2, 1931, and the "Sellens's Short-wave Set" of April 17. The latter is shortwave only, but broadcast coils the dimensions of which have been given this week to "Enquirer, Westport."

2. Would the above set give better results than the usual three-valve short-wave set without a s.g. stage?—Yes.

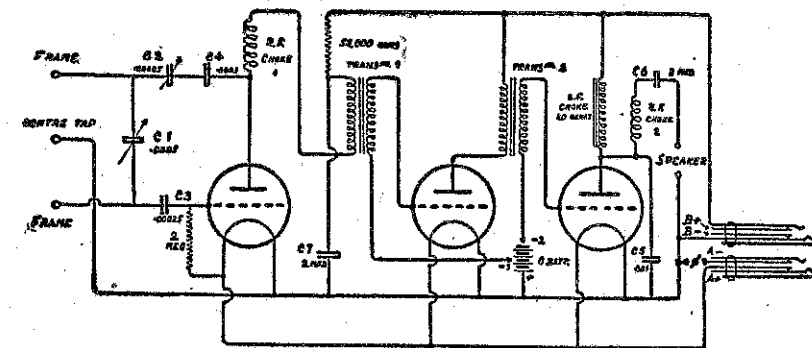
3. What fixed condenser is needed to shunt a 4-1 transformer to make it function as if it were a 2-1 or 1-1 ratio?

A.: You cannot use a fixed condenser in this manner without by-passing high frequency and ruining the response.

C.A.H. (Napier): I recently constructed the s.g. short-wave receiver in the 1930 "Guide," and although I have varied the winding on the coils I cannot get the set to oscillate below 28 metres.

A.: Try the effect of a midget variable condenser in series with the aerial, instead of using the primary coil. Bring this straight on to the top of the secondary coil.

2. What are the windings to cover the broadcast band?



The "Home and Country" Portable.

A.: They have been published previously. See "Radio Record" dated April 2, 1931.

M.C.B. (Christchurch): It is my intention to construct the Loftin Four using two 245 valves in parallel. Can you give me the following particulars:

1. What is the value of the resistance between the filaments of the 245 power valves?—20 ohms, as is the value of the resistance across the filament of the 224.

2. Is the circuit diagram enclosed correct irrespective of the individual values of the various components?—Yes.

3. Are the resistances contained in the table overleaf correct?

A.: You will find them all set out underneath the diagram on page 15.

4. Will the transformer described in the 1931 "Guide" for 100 watts be satisfactory?—Yes.

5. In December 5 issue of the "Radio Record" you say that the two half-width secondaries are necessary for two 245 valves in parallel for full wave rectification, whereas in the diagram you show half-wave rectification.

A.: Either can be used with equal satisfaction; 280 may be slightly quieter in operation.

F.J. (Gisborne): You are referred to the previous correspondent's query and the diagram. Note that there is a condenser between the potentiometer arm and R2.

1. Will a 40-watt resistance carry the current of R3, 4 and 5?

A.: No, you will need a 75-watt resistance.

2. How would a dynamic speaker with a field of 8000 ohms be connected in this circuit?

A.: It can be used only as a choke in the main B+ lead.

3. Does the filament for the 245's connect at the two points indicated?—Yes.

4. Is the centre tap filament necessary for the 280 in this circuit?

A.: Exactly how do you mean, and which filament do you refer to?

RED BIRD (Wellington): My aerial is 30 feet high and 60 feet long, and I have an elaborate earth system. Is this installation good enough to get the American stations?

A.: Although your aerial could be higher, it is good, and the fact that you do not get the American stations and have a good set indicates that your locality is at fault.

2. Should my aerial be longer?

For city reception, no; you have almost an ideal aerial except that it might be 10 or 15 feet higher.

BATTERY (Wellington): My 60 volt 80 amp battery has had a severe knock and one cell is dead, but the other two show a full charge. Can I use these two as 4 voltage without cutting out the dead cell?

A.: If the set works successfully like that, yes. You are doing no further

A.: It seems that by covering the coils you are earthing a part of one. Probably the can is touching a loose end.

2. My aerial is 45 feet high at one end, 70 feet at the other. Is this satisfactory?

A.: Yes; your aerial is actually about 55 feet high.

3. Is my earth too long? From the distributor point just outside the set four wires go to different earths. The longest is 12 feet.

A.: No; the earth is quite satisfactory.

W.H.B. (Christchurch):—Tone is invariably harsh and heavy when plugged into the second audio, although the output from the first stage is good. I am using a B409 in the first audio stage and a B409 in the second.

A.: This is wrong. A power valve should not be used in the first audio stage. Use A409, and be quite certain that your B409 is biased properly.

2. Would an output transformer or a tap choke be best for my set?

A.: Either a tap choke or an output transformer would be satisfactory. You need a 1-1 transformer.

3. Am I using the correct valves?

A.: With the exception of the first audio, yes.

KENTY (Manunui):—What current would a torch bulb draw?

A.: Most torch bulbs draw about 3 amp.

2. What type and value of resistance is used for a 2.5 bulb used in connection with a 6-volt battery?

A.: A resistance of about 10 ohms.

3. What wires connect with B+ and P on an output filter?

A.: It does not matter which, as direct current is not flowing and cannot harm your speaker.

K.O.R.O. (Wellington):—Would it be possible to fit the "Sparrow Hawk" Differential adapter to my three-valve s.g. set?

A.: Yes; you could make an adapter to fit in to the detector socket. You would not get a great number of stations from the speaker, though you would get good phone results.

2. Which is the detector valve on a Cossor three-valve Melody Maker?

A.: The second one.

L.D.H. (Te Aroha):—From what firm can I obtain the bakelite bobbins and No. 4 stallion stampings and a clamp for the transformer used in the power unit described in the "Radio Guide"?

A.: From any firm which sells components. The No. 4 size is one inch wide.

2. Would a 30-henry 45 m.a. choke be suitable for the above power unit?—Yes.

OPTIMISTIC (Dunedin): Can I use three .00025 condensers for the Outspan Five? If so how many turns would be required on the coils?

A.: Yes, if you are using 26 gauge enamelled wire the secondaries should be 105 turns, and the primary from 25 to 30 and the tickler 45.

2. What secondaries must I put on 100 watt transformer to make a Tunga charger?

A.: The bulb requires a very high filament current. It will need to be wound with 14 gauge d.c.c. wire. If you are intending to charge a six volt battery you must wind on 45 turns and take a tapping at 20 turns for the filament. The resistance must be used in one of the leads to regulate charging rate.

EN FAD. (Gisborne): When I switch on my three valve set I am troubled by a loud motor-boating and I cannot receive any station other than the local.

A.: Have you tried changing over the primary connections to your audio transformer? Failing that, use the anti-motorboating device illustrated herewith. Are you quite certain your "C" battery is connected round the right way with the negative connected to the secondary of the transformer and that it is of the right value?

harm.
2. I have a six volt 1.3. amp charger. What resistance will I have to use to charge at 4 volts and how will I connect it?

A.: You will need approximately 2 ohms resistance and this you can make yourself by obtaining sufficient 18 gauge resistance wire and winding it into a coil. You will connect it between the positive of your battery charger and the positive of the battery to be charged. An alternative suggestion would be not to coil the wire but to use it as a connection between your battery and the charger.

REGULAR READER (Christchurch):

I have built the five valve Radiogram described in the "R.R." but am not using push-pull. Signals are distorted when grid bias is applied to the first audio valve. Without biasing this valve signals are much stronger and clearer.

A.: This is not altogether unusual because some sets do not use bias on the first audio stage. It will be quite in order to leave out the resistance.

2. I notice a spark when I connect the centre tap of my filament transformer to earth.

A.: If the set functions quietly without this connection, do not make it, for the spark originates probably because of all the filament power coming from the same source.

H.L.M. (Milton): What type short-wave adapter should I buy for my four valve set?

A.: Write "Mack's Radio, Wellington," or any other reputable dealer.

THANKFUL (Timaru):—I have built the "Outspan Five" but cannot get the set to work with the coils covered. I can get no signals at all.

N.Z. Short-wave Club

The Secretary Writes

OWING to being out of town NZ1W Mr. Donnelly resigned from the committee, and NZ12W being now Auckland representative, Messrs. R. Lockerbee, NZ39W, and R. Spence, NZ38W, were appointed to fill the vacancies. As both are energetic workers they will be a great help. Mr. G. Reeves, of 78 Randwick Crescent, Moera, is acting as Lower Hutt representative.

The offer of ZL1BC, Mr. Mickelborough, to act as official club station, is gratefully received. Members are writing in already expressing thanks to IBC and 2AW for keeping them posted with announcements.

Will members please note in filling out report cards that their own call goes in the line marked "Station." The station to whom the card is sent may be filled in in the triangular space above the badge. Remarks may be continued on the back of an accompanying letter, the more complete a report is the better, details such as items heard, with the time (NZMT), duration of fades, together with any peculiarity observed could well be included.

For convenience many transmitters are sending members' cards into me; these will go out with the monthly letter. As it is usual for stations to have a "clearing up" day, members will know that a little time will elapse before their card is sent owing to the reports having to be tabulated, verified, etc.

The suggestion of stickers for envelopes is being considered, inquiries are being made re the cost of envelopes with the badge thereon. The list of stations being sent to members is just out of the printer's hands, and any additional data coming to hand will be sent out each month.

As many members write in saying they mislaid their copies of the "Record" I would suggest they try the idea of the loose cover, which keeps them ready for reference at all times. Any information disseminated per medium of the radio Press is for the benefit of short wavers. There are hundreds who, through no fault of their own, cannot join up with us yet, but will do so later, and it is our desire to help prospective members, because, later on, most shortwavers will be members. I notice NZ84W will be the next number to go locally. Address inquiries to A. B. McDonagh, secretary. N.Z. Short Wave Club, 274 Cuba Street, Wellington.

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Mack's Radio Service

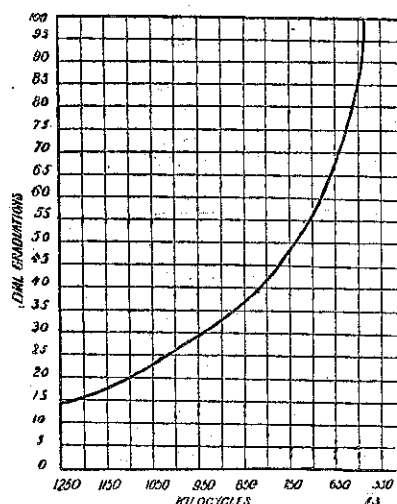
76 Kent Terrace, Wellington.
Tel. 23-448.

Wavelength Calibration

Every Set its own Wavemeter

(An address by F. W. Sellens to Short-wave Club.)

AFTER the owner of a short-wave receiving set has mastered the art of tuning and has heard several of the most powerful stations, he is naturally anxious to know where to tune in for the others that he knows are on the air, but has but very little idea which coil to use or where to find them. Or again a station is heard, but the call-sign is not heard clearly enough to get it in full, and the operator is left wondering who it is. If he had a means of arriv-



A TYPICAL CALIBRATION CHART.

The vertical divisions should be divided into units instead of 5's, as shown. The stations are fixed by horizontal and vertical lines.

ing at the wavelength of the stranger the mystery would most likely be solved.

The most satisfactory means of obtaining this information is by a correctly calibrated wavemeter, but the average short-wave listener cannot afford an instrument of this description, or would rather spend the money in improvements to his receiver.

A wavemeter in its simplest form amounts to no more than a tuned circuit which has been calibrated in wavelengths, so that the wavelength to every different setting of the tuning condenser is known.

With such an instrument available. If a station is tuned in on the receiver one has only to tune the wavemeter to it, note the setting of the wavemeter dial, and read off the wavelength of the station being received. Inversely, if one wants to hear, say, G5SW, which transmits on 25.53 metres, he has only to set the wavemeter to this and tune the set to the wavemeter. It is then also tuned to the required station.

For those who like experimenting, and in consequence frequently alter, improve and rebuild their receivers, a wavemeter is almost a necessity. Those, however, who use their sets primarily as a source of entertainment and are satisfied to leave them unaltered for long periods, can take advantage of the fact that the essentials of a wavemeter are incorporated

in every set, and can make their set act as its own wavemeter.

To proceed with the construction of the calibration charts, one will be needed for each coil, it will be necessary to procure several sheets of squared or graph paper. The best for the purpose is ruled in tenths of an inch, each tenth line being ruled with a heavier line, thus facilitating the reading of the finished chart.

The sheets should be marked off along the foot in degrees, corresponding with the condenser dial scale, which may read from 0 to 100 or 0 to 180, and along the left-hand vertical edge a scale of wavelengths, each chart according to the range in wavelengths of the coil which will have to be found by trial.

Having the blank charts ready, we may now tune in the various stations of which the wavelength is known. Each is tuned to obtain the fullest volume, keeping reaction just short of oscillation. As each station is tuned in a note should be made of the dial reading and the coil used. However, it would take quite a long time in the ordinary course of events to tune in enough stations sufficiently separated to be able to produce a reliable chart. Another means is open to those who live near enough to a broadcast station to be able to tune in its harmonics. In Wellington we have an excellent station in 2YA for this purpose.

The first thing to do is to work out the harmonics of the broadcast station 2YA works on 720 kilocycles, the harmonics being multiples of this, that is 1440, 2160, 2880 and so on. It is a simple matter to convert kilocycles to metres; it is done by dividing kilocycles into 300,000. Seven hundred and twenty kilocycles (2YA frequency), therefore, is 416.66 metres.

Working out the harmonics down to as low as your smallest coil will tune; a list of 2YA's harmonics down to 10.16 metres is published herewith.

THE next operation is to tune in each harmonic, starting with the largest coil and working down to the smallest, making a note of each dial setting, with the coil used. It is necessary to take as much care in tuning in the harmonics as one would a shortwave station. A good way to get stronger signals on the higher harmonics—lower wavelengths—is to tune in a crystal set to 2YA and then

use the phones on the shortwave set. You will be better able to decide the exact dial reading this way.

After having prepared a list of harmonics of 2YA for each coil, and as many shortwave stations of known wavelength as possible, we can then, start on our calibration charts.

The approximate range of each call will be known by this time, so we will be able to mark off the vertical left-hand edge in wavelengths for the first coil, the highest at the top, leaving ten squares for fractions of a metre, and then the next wavelength (i.e., a wavelength in even metre on every tenth line which, on the square paper recommended, is an extra heavy line), and so on to the bottom of the chart. We then make a dot at the junction of the dial reading at the foot of the chart, and the wavelength marked on the edge for each station and harmonic, and then draw a curve through these dots, this will give you a calibration of this coil.

The same procedure is followed for each coil. It is advisable to draw the lines lightly at first, and log as many stations as possible before finally inking in the curves, as quite likely an odd station will not be quite at its allotted wavelength, but I have found short-wave stations to be fairly reliable in this respect, more so than some broadcast stations.

Listeners in Wellington can depend on the harmonics of 2YA. I have made a number of charts at different times on account of so much experimenting with various coils, using their harmonics as a basis, and find they fit in perfectly with the wavelengths of crystal-controlled shortwave stations, giving a good reliable calibration chart.

With a carefully-drawn curve for each coil, you will be able to determine the wavelength, to within a very small fraction, of any station heard, by noting where the dial reading intersects the curve, and glance to the left, where you will have the wavelength in metres and tenths. On the other hand, if it is desired to tune in a station of known wavelength, this is located on the chart, and the vertical line intersecting the curve will give you the dial reading.

Advertising in Italian Programmes

RADIO advertising is slowly creeping into Italian broadcast programmes, states an English contemporary. Amateurs all over the country are gravely perturbed by the possibility of this abuse of the microphone, and strong petitions are being addressed to the authorities, pleading for care in the introduction of any propaganda in the transmissions.

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Whither Wending?

THERE are films and films—their name is legion—but "Outward Bound," the screen version of Sutton Vane's play, is in a class by itself, so enthralling is the conception, so excellent the casting, so moving the situations. It is the story of passengers on a vessel bound for an unknown destination. Apparently normal, typical specimens of the human race, they have looked their last on life, and are proceeding in this phantom ship, which yet resembles an ordinary liner, to render final account. The day of judgment, in fact, in a modern setting. There is the poisonous snob with her hyphenated name, a clergyman who has failed in his ideals, the man of blatant business methods, a London "char" (excellently portrayed by Beryl Mercer), a wise steward, and a dipsomaniac, who even in his cups is the most appealing member of the cast, this part being very beautifully spoken and acted by the talented Leslie Howard. There are two young lovers on board, who are just half-way to the dim borderland separating life from death; two sad souls, who tried to escape from life's bitter slings and arrows by shutting doors and windows of dim London lodging and turning on the gas. In expiation of lack of courage to face fate's unkindness, they are sent back from the brink of death to work out salvation in a world they wished to leave.

The play is excellently presented by admirable artists, the only weakness being in the materialisation of the Great Examiner, before whose judgment bar each saint and sinner appears for final summing up. There is no irreverence, nor anything to offend sensitive susceptibilities, but a sense of disappointment necessarily is present, though it is realised that, in whatever form the Final Judge is presented, short of an impossible perfection, it must fall short. How could this be otherwise?

Good Training.

THE days are past when boys only were trained for occupations and careers, and the girls in middle-class families left more or less uneducated beyond a few superficial accomplishments to improve their matrimonial chances. Parents nowadays realise that every girl should be made into an expert in some definite line, whether cookery, needlework, nursing, secretarial, or other work, and that it is their duty to fit their daughters for the battle of life. There is no need for any girl or well-to-do parents to deprive one less fortunately situated of a job, as honorary posts are to be found for women who want work but have no need to earn their living.

Easy to Make.

IT would be easy for the home dress-maker to make herself one of the very popular little jackets of cotton pique or stripe or checked gingham. These are so smart to wear with dark coloured dresses in the very lightest of lightweight woollens. They also look delightful in broderie anglaise accompanying more formal afternoon gowns of dark coloured crepe de chine. Imagine a little white broderie anglaise jacket worn with a simple black crepe de chine frock.



Home-spun.

THE island of Harris in the Hebrides has long been famous for its hand-woven tweeds which are dyed with roots and mosses on the island and produced in the cottage homes of the islanders. Paris dressmakers have set the seal of their approval on these lovely homespun, with the result that quite half of their tweed collections are made from the products of Scottish looms. Bluey-greens, grey-greens, sand-brown, bracken tints, orange-red and the deep rich blue reminiscent of the woad plant dye, are all delightful.

B.B.C. Youngsters.

TIME was, not so long ago, when unfledged youth had more than its share of the limelight. Now the pendulum swings and maturity of intellect and experience is receiving due meed of appreciation. Youth will have its day, says a London paper. But what is youth? When, in particular, does it end? An official of the B.B.C. lately told the "Daily Telegraph" that broadcasting gives young people their opportunity in the competition for fame. Examples he cites are very interesting. Gone are the days when a man—and particularly a woman—were too old at

forty. The B.B.C. youngsters include the well-known litterateurs, Mr. T. S. Eliot and Mr. Michael Sadleir, who are both 43, and others of ages ranging from 37 onward.

Women Writers.

MRS. ROSITA FORBES'S exploits capture the imagination, however sluggish. She is so courageous and vital and glad; likewise a decorative adjunct of society when she stays her adventurings to tarry for a short space amid the highly civilised. In her recent book, "Conflict: Angora to Afghanistan," Mrs. Forbes discourses in fascinating style anent world wanderings. She has visited portions of the earth's surface known to but few, and has inherent aptitude for describing with pungency and verve the conditions that surrounded her in her great trek of seven thousand miles, when she visited Turkey, Syria, Palestine, Iraq, and Persia, and apparently saw everybody and everything worth while. Possessed of dramatic vision and faculty for realistic expression, the writer almost convinces her spellbound readers that they too have travelled the same long path of progress.

In Miss Netta Syrett's latest novel, "Strange Marriage," we go back to the

nineties, when the Yellow Book was deemed highly improper, and Jeunesse doree expected to be entirely unspotted from knowledge of the world's ways. A youthful heroine contracts a marriage which is one only in name, and, in the hour of temptation, yielded to dictates of temperament, even as though living in a more sophisticated era. All ends well, however, in this tale of young love in the days of Victoria the Good, and straying wife is forgiven and finds happiness with a husband who has repeated himself of earlier desire to disclaim responsibilities of life and love.

Miss Olive Moore, in "Spleen," has written a book of force, originality, and a certain quality of beauty. It concerns a woman who, after dark experience, rebels against child-bearing. There are charming word-pictures of Italy, and this thoughtful novel will make memorable impression on those to whom it appeals, although, one rather thinks, they will be in the minority.

Hats, and so Forth.

MANY so-called hats are in material like the dress, hand-worked with embroideries and stitchery, and all are worn rather far back on the head, with plenty of hair about the brow, tidily set and held in place by an invisible net. The belt, bag, and shoes may match. The scarf goes with the hat, the flower with the dress, the beads give a strong colour note, and the gloves may be light or dark to match the shoes. Stockings are much more varied than they were. They can match the dress or be light, in tones of beige and flesh colour.

When the Heart is Young.

"IF you can remain a child at heart without being too easily hurt; if you do not prefer a rut to at least an occasional cartwheel; if you have not forgotten how to smile even though you find laughing a little difficult, well—always provided you are not in physical pain or mental fear—you can be among the happiest people alive, whether you are a telephone-operator, croupier, bank clerk, retired soldier, street sweeper, winner of the Calcutta sweep, or merely Mary Ann."—Charles Graves.

Then And Now.

MODERN woman has much for which to thank the sartorial powers-that-be. An English writer says: Twenty-five years ago practically every woman, in staying for a week-end, brought her maid with her, and if you did not bring her you were not at all popular, for we needed a lot of "maiding." There were white frilled petticoats which had to be produced in a state of snowy elegance and without a crease, and more petticoats whose frills were perfect mud traps. Evening gowns were complicated to fasten up, and altogether dressing for dinner was not an affair of a few moments, but a serious rite. When we arrived we wore an elaborate tailor-made coat and skirt—the skirt well busked and boned round the waist—a satin shirt with a high neck, also kept in place with little bones, and black button boots. Shoes were considered rather daring!

Our Cookery Corner

Baked Fruit Compote.

Ingredients—4 apples, 1 orange, 2 bananas, 1 breakfastcupful cake crumbs (or biscuit crumbs would do), 2 tablespoonfuls sugar, 1 teaspoonful cinnamon, a little nutmeg, 1oz butter.

Method—Sieve the crumbs and mix them with the orange rind, grated, spices and sugar. Cut the bananas in slices; peel, core and slice the apples. Grease a fireproof dish with butter and sprinkle in some of the crumbs. Put in the other ingredients in layers, fruit and crumbs alternately, and finish with crumbs.

Strain the orange juice over the top and put on the butter over all, in little pieces. Bake in a moderate oven until the apples are soft, and serve with cream.

Turnips au Gratin.

Ingredients—Turnips, salt, pepper, two ounces of flour, one and a half ounces of butter, half a pint of milk, two tablespoonfuls of grated cheese, breadcrumbs.

Method—Wash and pare the turnips and steam until tender. Divide into halves and place them in a shallow fireproof dish and sprinkle with salt and pepper. Next make a good white sauce from the flour, milk, and one ounce of butter. Cook till thick and smooth, then add the grated cheese.

Pour over the turnips, sprinkle thickly with breadcrumbs, and put little dabs of butter on the top. Bake in a hot oven until golden brown.

Cauliflower en Casserole.

Ingredients—One medium-sized cauliflower, two ounces of butter, two eggs, a gill of milk, a good seasoning of salt and pepper, and a few grains of cayenne, if liked.

Method—Remove the outside leaves from the cauliflower and wash it well. Put it in boiling water with a little salt, and boil until tender. Drain carefully, and chop it rather finely.

Mix it with the butter, salt, pepper, and eggs well beaten; add the milk. Turn into a casserole and cook until set, and brown in a moderate oven. Serve hot.

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Our Fortnightly Book Review

DERMOTTS RAMPANT

By Stephen McKenna

THE demand for William Guy Carr's book, "By Guess and by God," has been so great that Hutchinson and Co. state that they have been compelled to order an eighth impression, while a ninth has been put in hand.

MR. CYRIL A. FAREY, A.R.I.B.A., a well-known English draughtsman, has collaborated with Mr. A. Trystan Edwards, M.A., A.R.I.B.A., on the production of an important work on "Architectural Drawing Perspective and Rendering." The book will be published immediately by Messrs. B. T. Batsford, Ltd., and is fully illustrated in colour and monochrome.

MR. SISLEY HUDDLESTON calls his recently published book by the intriguing title of "Between the River and the Hills," and tells us it is a Normandy pastoral. In it, with wit and wisdom, he sets in skilful juxtaposition the peaceful permanence of his life at Sainte Ursule and the blatant superficiality and unrest of existence in cities, and expounds with quiet and delicious intuition and humour the philosophy of the Norman peasant.

APROPOS of the wanderlust in man, and the resultant gossip and chat of woman, Mr. Julian Duguid remarks in his new and admirable book of travel, "Green Hell": "When a man yields to the urge of Ishmael, the voice of Sarah is raised at tea-parties, for there is more heartburning over one sheep that escapes than over the ninety and nine that catch the 8.15 to town every morning. So the wanderer takes care to explain that the whole glorious business of walking into the horizon is honestly rather a bore. Those who neglect this precaution are known to feminine critics as beach-combers."

MRS. BELLOC LOWNDES continues to exploit the fascinating fabric of crime with credit to herself and to the delight of her devotees. Murder stories are perennially fascinating to a very large class of humanity, and Mrs. Lowndes is a specialist in this particular branch of fiction. Since that blood curdling story, "The Lodger," held us in thrall, many of us have seized with avidity upon all of this author's novels. "Letty Lyndon," her latest work, is based on a famous trial known to the world many decades ago, and grips attention by its atmosphere of strange mystery and suspense, moving with compelling swiftness to unexpected denouement, and is quite on a par with the best work of the notable novelist.

MR. MCKENNA comes of a family distinguished in the literary and political fields, and in his latest book, "Dermotts Rampant," he writes authoritatively anent social world of England for the past thirty years. Coming into his own as a novelist before the World War, with "Sonia," that widely-read and much-discussed analysis of society, its ways and its works, Mr. McKenna now displays the same imaginative vision, meticulous observation, grasp of political movements and lucidity of expression as captured admirers in his earlier book.

Briefly, this is a story of a noble Irish family, who, having fallen upon evil days in their own distressful country, find themselves, through stress of flood and famine, forced to seek haven in England. Without money or friends on their arrival, they yet eke out an existence, hoping for better days when they can return to Erin the Beloved. But the months and years pass, and the clan Dermott, with its wide ramifications, successfully establishes itself in Britain as men of commerce, and holds its own with the ruling class by virtue of ability, integrity, and faculty for holding on.

There is much political speculation and comment, Tory and Radical being sketched with truth and brilliance, without bias or acrimony, and nothing extenuated on one side or the other. The long years go by, he who was down goes up in the world, and the oppressor lies under the heel of the once-upon-a-time vanquished. At long last, in the curious ups and downs of life, the rebel Irish family becomes a pillar of the State and is happily assimilated into the great English civilisation which once it had so bitterly fought.

Several subsidiary love-stories are sketched, and Antony Dermott's recurring love for Rhoda, daughter of ducal house at feud with the Dermott, runs through the book from cover to cover.

THE Empress Hermine, second wife of the ex-Kaiser of the German Empire, has written a book entitled "Days at Doorn." It is a full-length portrait of the royal exile, written by wife, partisan and hero-worshipper. The author has plenty of material on

As a modern young woman, with bewildering changes of mood, casting of ancient shibboleths, insistence on "the impulse that governs the actions of men and women," Rhoda may be a truthful portrait, but she is certainly not an attractive one. Perhaps one of the most ably drawn characters is that of the crippled librarian, Maxstead, "a man of violence in his gestures, who took snuff as though he were ramming a breech-loader and dusted away the spillings as though he were grooming a horse"; and whose acute and critical mind and uncompromising philosophy exerted so great an influence on plasticity of youth.

There is trenchant criticism: "It is easy to say that Germans are ruled by their men, Americans by their women, French by their mothers, and Spaniards by their babies; but I think the English are directed, first and last, by their unique committee-spirit. From the family this has become a racial characteristic. If they have shown the ability to found Empires, they have also shown the ability to lose them as ineptly as any Spaniard, Dutchman, Portuguese or German. Their vaunted sense of fair play is confined to dealings with their own people, and their genius for compromise may be traced in part to indolence and in part to lack of logic."

The descriptions of Victorian era are fascinating, presenting a London of gas-lamps, muffin-bells, Punch and Judy shows, hot-chestnut ovens, knife-board omnibuses and one-legged organs grinding out Ta-ra-ra-boom-de-ay. From the Boer War onward up to the outbreak of the Great War we follow the fortunes of different generations of the Dermotts, who, living and dead, left their mark on the country they made their home. An immensely interesting panoramic view of the changes and chances of this world, the whole making excellent reading for the intelligentsia.

which to draw, as her chronicle ranges discursively over the past thirty years or so, making somewhat superficial comment on famous men and women of the day, the Great War, its disloyalty, treason and meatless days, and her childish adoration of the Emperor,

then in zenith of magnificence. There is meticulous account of first marriage and subsequent widowhood, and much philosophising anent the Empire that was to fall before her childhood's dream materialised when she visited her hero in exile. The main thesis of the book is glorification of ex-Empress Wilhelm II as husband, thinker, ruler and humanitarian. The writer's attachment and loyalty to the Royalty entourage is stressed, including passionate admiration for the Imperial consort, the Empress Augusta Victoria, whose death created the terrible loneliness that was a deciding factor in the espousal of the vivacious and egoistic chronicler of "Days at Doorn." "Can a man love two women, one dead and one alive, with equal devotion?" is asked to the point of weariness. There is catalogic account of the daily round at Doorn, meals, tree-felling, family prayers, the way in which the royal exile keeps his figure in check, and, incidentally, much trifling comment. For instance, why should we be informed that tendency to redundant figure was the bane of life of the late King Edward VII; or that the English Prince of Wales makes "incredible efforts" to preserve his slim outline? What interest has such a comment as this: "The Kaiser detests boyish cuts and tells ladies who favour them so." "Bobbled hair" he dubs "abominable." And he considers the pictures of Palm Beach beauties and film stars who make themselves look like boys are disgusting. Well, well!

As a chronicle extending over the past thirty years by an educated woman of high and unquestioned pedigree, the book has a certain quality of interest; but first and foremost, it is a highly enthusiastic, warmly laudatory portrait, not perhaps particularly sympathetic to British readers.

"THE Gardener's Year," written by Karel Capek, and illustrated by his talented brother Josef, is a book no lover of gardens should dispense with. And not only the gardener, but anyone with a sense of humour will find delight in its entertaining pages. The Czech original of the book was published two years ago, and now that English people have a chance of perusing its fascinating pages, they will find it compact of information and philosophy and humour. Truly a green oasis of wit in the desert of dim days of depression.

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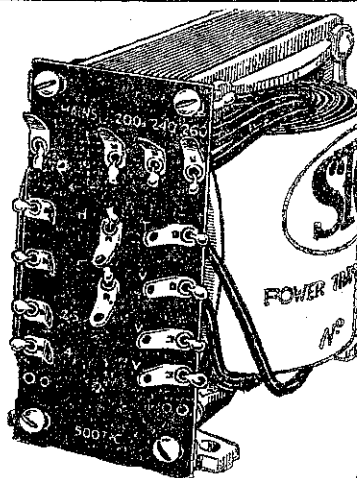
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