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Price 3d.

Radio-Equipped Cavalry

Recognising the utility of the mobile radio receiver, the United States Government has recently equipped cavalry troops with compact portable sets, as shown in the photograph. Contact with the medium frequency transmitter at headquarters is maintained by the receiver mounted to the rear of the saddle. The aerial is wound round the pole in the rider's hand.



The first troops to be so equipped are the Mexican Border patrols, which make a daily reconnaissance of the entire border-line. So satisfactory has the system proved that the signal corps engineers are now developing a portable combined transmitter and receiver which will enable patrols to maintain two-way communication with headquarters and one another.

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RADIO

Round the World

THE Reykjavik station in Iceland has only some 7000 listeners, and its income is therefore extremely small; nevertheless, steps are being taken to lay a special cable between Iceland and Copenhagen in order that the islanders may be given at regular intervals a relay of Danish wireless entertainment.

A charge has been made by the chairman of the Publications Committee of the National Congress of Parents and Teachers, that broadcasting in America is undermining education. It was declared that "Hollywoodism" threatens to crush local culture, that the standards are low and trashy, and only infrequently produce anything of high standard.

AN exhibition of the sources of interference with radio reception was recently opened in the Berlin Broadcasting House. In preparation for this all the authorities concerned in collaboration carefully examined a number of articles, as well as electrical apparatus, which were designed to eliminate interference. This examination took into account not only the degree of interference, elimination, and safety in operation, but also the extent to which they could be adapted to apparatus in use. Only apparatus which, in addition to eliminating interference but maintains undiminished power is being exhibited. The exhibition and published catalogue is to be permanent and kept up to date.

THE possession of a wireless license in Germany insures the holder up to a large sum (a scheme sponsored by the broadcasting authorities) against personal and material damage caused by the set, even by lightning striking the aerial.

IN Italy there are only 200,000 licensed listeners among a population of forty millions. In Germany there are 56.23 licenses per thousand of the population, in England 77.5, but in little Denmark there are about 134 per thousand.

THE tacit rivalry between Edinburgh and Glasgow on artistic matters has always found a focus point in broadcasting. Long and loud were the cries in "Anld Reekie" when Glasgow was honoured by a main station in 1925, while the historic capital had to content itself with a relay. Many Edinburgh citizens refused to listen to anything that came from Glasgow. With the erection of a new regional station at Falkirk, Edinburgh now gains the ascendancy, and there is joy in the East of Scotland.

FOLLOWING a protest made by license holders to the effect that they were tired of hearing gramophone records, the Swedish authorities decreed that records may be used by studios for entertainment purposes, but not for more than six hours per week.

THE Italian postal authorities fixed July 4 as the last date on which broadcast pirates would be tolerated. After that date a ruthless pirate hunt was to be conducted. A license fee in Italy costs about £1, and pirates may be mulcted in fines totalling £14.

IN Germany a volunteer corps of 7000 electricians and technically-minded amateurs have been banded together to stop interference by electrical machines, vacuum cleaners, hair dryers, ultra-violet ray machines and so on. Every license holder is entitled to this free service, and that is one reason why there is so little interference with radio reception in spite of the spreading of a.c. mains and general adoption of electrical equipment.

AFTER listening to the broadcasts of the Democratic Convention, which were transmitted through 158 stations, an American writer has come to the conclusion that the microphone-shy person has no hope of ever becoming President of the United States. He suggests that anyone so afflicted and ambitious of becoming a State leader has more hope of being elected a king somewhere else.

UNTIL recently the French have not endeavoured to popularise outside broadcasts, but the insistent demand of listeners has ultimately changed the attitude of the broadcast authorities. The latest French stunt was a running commentary from the Paris-Calais express by a narrator on the footplate of the engine, which was rebroadcast by a powerful station.

THERE are only five cities with a population of over 100,000 in the U.S.A. that have no broadcasting station of their own. These cities, however, are well served by powerful stations within short range.

THE heavy damping that has been a feature of broadcasting studios, in which many world-famous artists claim they cannot give their best, is liable to be modified by the decision of New York's premier station WOR. The heavy sound absorbing material usually covering the whole of the studios is to be discarded, and one end is to remain resonant, and the end where the microphone is placed is to be made dead. The adoption of the electro-dynamic microphone makes this system still more practicable, and it is hoped that reproduction will therefore be much nearer the actual performance.

THE latest information from the U.S.A. reveals the fact that 18,000,000 of the 29,000,000 homes in that country have wireless receivers installed. The radio audience is thus reckoned to be 60,000,000. The potential market in the still unequipped homes, together with renewal prospects, is spurring the trade to extra energy this year.

BAIRD television programmes are to be given from Broadcasting House, London, under the auspices of the B.B.C. The contract covers the period until March, 1934, and may, of course, be renewed.

THE German Government has commandeered the broadcasting service to the extent of decreeing that a daily half-hour between 6.30 p.m. and 7.30 p.m. shall be available, if necessary, for official announcements. Broadcasters will not be responsible for Government transmissions, and although international arrangements for programmes may possibly be interfered with, it is thought every courtesy will be extended. The Communist Party has been debarred the use of the microphone.

THE threatened ban upon the broadcasting of gramophone recordings in Australia and New Zealand appears to be held in abeyance. Some new recordings are being made with an injunction attached that they must not be broadcast, but the well-known firms of record makers may have thought better of their acclaimed project. There are numerous smaller firms that do not agree with the terms suggested by the big corporations, and these are awaiting an opportunity that a ban would permit their manufactures receiving the free publicity that broadcasting gives.

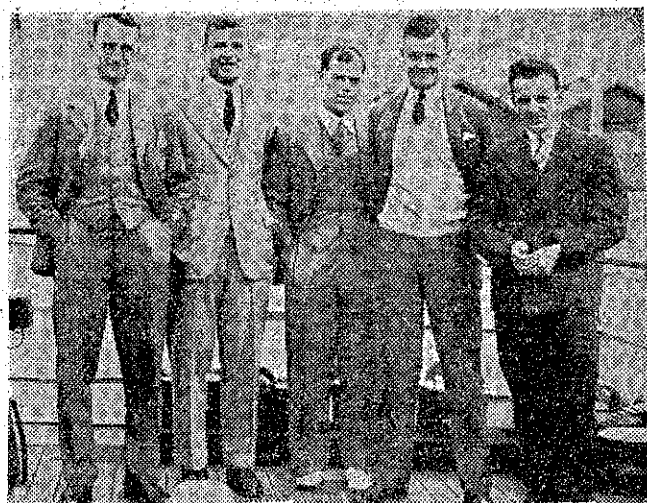
REBROADCASTING of American programmes in Germany is immensely popular, and the Schmeling-Sharkey fight aroused the greatest enthusiasm. Few listeners, however, understand the "inartistic" method of running American schedules to split seconds, and the reason that announcers break off an interesting item as the second has arrived for somebody else to sing or speak. The sport-loving listener is particularly irritated when a reader of poems or a chanter of ballads cuts off the report of a match at the crucial moment.

THE Advisory Committee on Spoken English to the B.B.C. has deferred recommendation upon the pronunciation of the word "Joule." The origin of the term, meaning a practical unit of energy, was in the name of a British scientist, but all countries have adopted the name as spelt. There is no doubt as to the pronunciation that Joule himself applied, but difficulties arise in German and French in the pronunciation of the "J." With a view to having a common pronunciation for a universal word, the committee is communicating with foreign academies to elicit if co-operate effort will be made for one pronunciation.

ALTHOUGH a comparatively new development in aviation, radio beacons are being established in all large centres where regular flying schedules are conducted. On leaving the starting point the pilot tunes to the transmitter located at the town of his destination. In fair or foul weather, at night or during the day, the plane is guided by the radio beacon. The pilot through his helmet headphones hears an uninterrupted buzzing sound when on his course. This sound is converted into a series of interrupted dots and dashes if the plane veers to the right or left. Usually two or three times an hour weather conditions are substituted for the buzz, so that blind flying is now a thing of the past.

SOUTH to the ANTARCTIC

A talk given from 2YA by Mr. Dilwyn John, leader of a scientific expedition which is leaving Wellington shortly by the Royal Research ship "Discovery II," to investigate the whaling industry in the Antarctic.



Scientists of the Expedition.
Mr. Dilwyn John, leader, Mr. G. Deacon, Mr. J. W. S. Marr, Mr. G. Rayner, Mr. F. D. Ommanney.

THE Royal research ship, "Discovery II", in which we have visited New Zealand in the course of circumnavigating the Antarctic in the winter months, is carrying out a part of what are known as the Discovery investigations. These investigations consist of research into the whaling and sealing industries and other economic resources of the dependencies of the Falkland Islands. Of these researches, those into the whaling industry are by far the most important, and it is of them that I will speak.

The Falkland Islands lie to the east of the extreme southern tip of the South American Continent. They are almost permanently windswept and, as a consequence, are quite treeless. The population is only 3000, and there is one town. The only industry is that of sheep-farming.

Their dependencies consist of truly Antarctic islands, or islands having permanent snow and ice caps, lying further to the south. The names of the islands are South Georgia, the South Shetland Islands, the South Orkney Islands and the South Sandwich Islands. The Falklands and their dependencies form a British Crown Colony.

The Discovery investigations are paid for by a fund known as the Research and Development Fund of the dependencies of the Falkland Islands, and this fund was built up by the taxation of the whaling industry which, early in this century, was based in certain of the dependencies and has since grown to great importance there.

Whaling in the Antarctic is now of greater importance than that of all other parts of the world put together. Indeed, it may be said that whaling elsewhere than in the Antarctic is negligible. And yet the industry is a new one, dating only from 1904.

The history of whaling is an extremely interesting one. At three times in history the hunting of the whale has become an industry of world importance. The first time was in the 16th century—the time of the English and Dutch fishery along the edges of the Arctic ice. The whales on which this industry was based were right whales, which were valuable, not only for their blubber, but also for the long boleen plates, or whalebone, in their mouths. Hundreds of ships were employed.

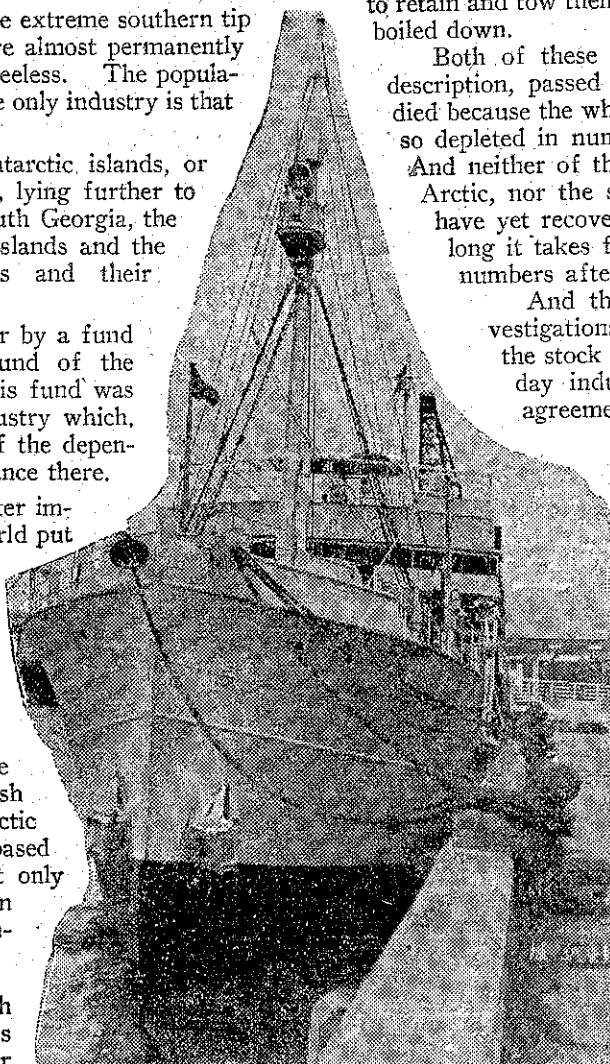
The second time was in the 18th and 19th centuries, when North American colonists built up the sperm whale fishery. Their ships—and at one time there were a thousand ships employed—hunted all the temperate and tropical seas of the world for sperm whales.

In both these industries the whales were chased by open rowing boats, lowered from the

ship, and were secured by means of hand harpoons thrown by a harpooner in the bows of the boat. Both right and sperm whales float when they are dead. If they didn't, it would not have been possible to retain and tow them to the parent ship, where they were cut up and boiled down.

Both of these industries, of which I have given so brief a description, passed through a boom period and then declined and died because the whale populations on which they depended became so depleted in numbers that further fishing became unprofitable. And neither of these whale populations—the right whales in the Arctic, nor the sperm whales in the high seas of the world—have yet recovered their numbers. It is not yet known how long it takes for a whale population to recover to its natural numbers after it has been over-fished by man.

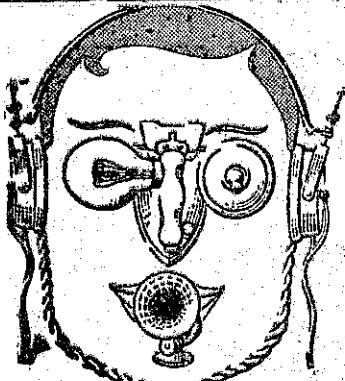
And that brings me to the main purpose of our investigations. It is to find out as much as possible about the stock of whales which forms the basis of the present-day industry in the Antarctic, so that if international agreement can be reached, the industry may be controlled and the stock of whales not unduly depleted.



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THE present-day industry in the Antarctic marks the third time in which whaling has become an industry of world importance, and, if history is not to be repeated and over-fishing of the whale is not to take place, that industry must be controlled. Such an industry, based, as it is, on the slaughter of large numbers of animals of which little is known, can only be intelligently controlled when as much as possible is known of the life, history, breeding habits, food, and migrations of the whales hunted. It is the purpose of our investigations to attain that knowledge.

And now I must describe very briefly the present-day industry. It is very different to the whaling of older times. At the end of the 19th century there were not sufficient numbers of either right or sperm whales left in the seas to supply the world with whale-oil. But it was discovered by Norwegians that there were enormous numbers of blue and fin whales in Antarctic waters. These animals are bigger and faster than either right or sperm whales, and they sink when killed. The Norwegians invented the method (Continued overleaf).



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South to the Antarctic

(Continued from page 1.)

by which they were captured. They are hunted in small steamers about 120ft. long, with a gun mounted in the bow from which a harpoon weighing one hundredweight is fired into the whale. The harpoon has an explosive point, fired by a time fuse. The captured whale is brought alongside the catcher, air is pumped into it to make it buoyant, and it is towed either to the whaling station or to the floating factory, to be cut up and boiled down.

At first modern whaling was carried on only from shore or an anchored parent factory ship, and in the Antarctic suitable bases occurred only in South Georgia and the South Shetland Islands—dependencies of the Falkland Islands. Each station, or anchored floating factory, had four or five whale catchers hunting for it. The industry carried on in this way from British bases was subject to limitation and control by the British, and by a system of licenses and taxation the fund which finances our investigations was built up.

More recently the industry has taken a new turn and has expanded along a new line. The floating factory ships are no longer anchored in harbours near whaling grounds for the season, but they, with their catchers, follow the whales at sea, along the edge of the Antarctic sea ice. New and bigger floating factories have been built, some as much as 20,000 tons, and the more modern are able to haul the entire whale carcass on deck and to deal with it as on a shore station.

This new method of whaling is known as pelagic whaling—the word pelagic means floating—and the way in which the industry has grown since its beginnings in 1927 is made clear by the following facts:—

In the season 1926-27, 12,000 whales were killed in the Antarctic; in the season 1929-30 the number was 30,000.

Oil is extracted from every part of the whale—the flesh and the bones, as well as the blubber, are boiled down. The oil is used for making soaps and edible fats. The whaling industry of to-day is entirely manned by Norwegians.

Our last V-shaped cruise was from Melbourne to the edge of the sea-ice fringing the Antarctic continent, south of a point midway between Australia and New Zealand, and north from that point to New Zealand. Our next cruise will be south-east from Wellington to the ice-edge, north-east from it to the limits of Antarctic waters and south-east again to the ice. After our second visit to the ice we will steam north-east to South America and the Falkland Islands, and that will mark the completion of our circumnavigation of the Antarctic in a series of V-shaped cruises in the winter months.

It is the first time that any ship has made such cruises in Antarctic waters in the depth of winter. Our researches are on each cruise carried as far south as possible—to the edge of the ice fringing the Antarctic continent. After our arrival in the Falkland Islands we will repeat in the Antarctic seas of their dependencies the observations already made there in each of the last seven seasons. We hope to return to England next May, and it is probable that the ship will sail again in October, 1933, to continue the investigations.

The Discovery II carries a staff of four zoologists and one hydrologist. She is also equipped with a trawler and has explored the possibilities of developing a commercial fishery on the coastal banks of the Falkland Islands.

A second and smaller vessel called the Royal Research Ship William Scoresby is also engaged on the Discovery investigations, doing similar work to that of the Discovery II.

I have described very briefly the method of the researches of the ships of the investigations into the environment of the whale. At the same time, more direct research work on the whales themselves has been done by zoologists of the staff at one of the whaling stations at South Georgia, and

the results of the work were recently published in a series of scientific reports.

The Discovery investigations are controlled by a committee, known as the Discovery Committee, appointed by the Secretary of State for the Colonies. The practical work is carried out under the direction of Dr. Stanley Kemp, Fellow of the Royal Society.

The work of the Discovery II may be described as research into the environments of the whales which visit the Antarctic in the southern summer. In no two years are the populations in one place quite the same—one year Blue whales predominate, in another Finns—and their numbers vary. We collect information on these points by direct observations and from commercial whaling records, and our work at sea is designed to build up pictures of varying conditions in the sea from year to year. When in the Antarctic both Blue and Fin whales feed entirely on a small shrimp-like animal about an inch in length. It is known by the Norwegians as krill. It occurs in very dense shoals in the surface waters where conditions are favourable, and the whale swims through these shoals with open mouth and sifts enormous numbers with its baleen plates. The krill in turn feeds upon the microscopic plants of the sea—the diatoms—and the diatoms, being plants, live directly on the salts of the sea water.

We must, then, if our researches are to be complete, investigate the salt content of the sea water from place to place, from time to time, and at all depths, since plant growth depends on it. We must in the same way investigate the varied and changing plant life in the sea, since it forms the food of the krill, which is itself the whale food. And, in addition, we must learn all we can of the other animals which live where whale food lives, since all life in the sea is inter-related.

These researches may be compared with agricultural research on land. The production of beef or milk depends upon the consumption by the animal of plant growth, and the quality of the plants, which in turn depends on the native of the salt content of the soil, will affect the product—the beef or the milk. But researches into such questions ashore are subject to control. Experiments can be staged and the conditions can be varied, as for example by growing different crops and by feeding those crops with different fertilisers. No such controlled experiments are possible at sea and our researches must be repeated over many years if we are to relate them with the varying behaviour of the whales.

The Discovery II is continuing work which was commenced in 1926, and which has been repeated every year since on the whaling grounds of the Falkland Dependencies. The conditions in these whaling grounds are inter-related with circum-polar conditions and can only be fully explained when these conditions are known. That is the reason for our presence here. We are going around the Antarctic continent in a series of V-shaped cruises, making daily observations on the water and the animal life on the surface and in deep water. The instruments with which the water samples from all depths are obtained, and the nets with which comparable quantities of plants and animals are fished from various layers of the sea, are all specially designed for such work.



Hubert Carter,

who will present two quarter-hour tenor song recitals from 3YA on Wednesday, September 7.

at others in the South Shetlands and on the east and west coasts of South Africa.

More than 4000 whales have been examined and the information collected has yielded results of the greatest interest. It has been shown that both the blue and fin whales begin to breed at the age of two years, that they breed once every two years, and that they stop growing when between the age of six and eight years of age. It cannot yet be said to what age they live, but it appears certain that it is not to the enormous age that it was at one time supposed. It may be less than fifty years. The vast amount of data collected from many reasons will, it is expected, make it possible for some estimate of the population of whales in the Antarctic to be made. The examination of all the details will reveal the effect on the whole population of the recent over-fishing. These matters are being examined by members of the Discovery investigations staff now at home in London, and I cannot say more concerning them.

The executive staff of the Discovery II—Commander Carey and his officers—take every opportunity of surveying and charting little known and badly charted islands of the dependencies of the Falkland Islands. Several recent Admiralty charts are based upon their surveys. The scientific collections of the Discovery investigations are already very much larger than those of any previous expedition, and

WITH THE IMMORTALS IN MUSIC

A talk on the influence of
European genius on music,
broadcast from 3YA by
Mr. A. G. THOMPSON

AT the present we are provided with music of all descriptions through the medium of either the mechanical inventions such as the gramophone and radio, or the direct channels of an artist's performance.

Music has, in all its varied forms, become an integral part of our social system, and from music, both instrumental and vocal, emanates an influence on the mind and character which no nation can afford to disregard. Music, of course, has played its part in the development and progress of tribes and nations from time immemorial, but I wonder how many have given a moment's consideration to the pioneering efforts of those to whom we of the present day owe a debt of gratitude for the tremendous effort, and intense suffering, that has been involved in creating our standards of good music? I refer, of course, mainly to those musical geniuses of the seventeenth and eighteenth centuries, who with unflagging zeal, gave of their best to the cause of music.

My task is to give you an idea of the work and influence of those wonderful European musical giants of the seventeenth and eighteenth centuries, but as it would require much time to deal with the work and influence of any one of them, I must confine myself to a brief summary.

Although the solid foundations of our present-day musical structure were laid in the seventeenth and eighteenth centuries, we must not forget that the excavations were made and the ground prepared by those men of immortal fame such as Palestrina, who modified and stabilised the church music of the sixteenth century, and our English musicians, such as Gibbons and Purcell; for we have among the compositions of these men some of our finest examples in madrigals, glees and songs.

With George Fredric Handel, who was born at Halle in Germany in 1685, commenced a period in musical history in which, up to the present time there has been no break.

Had the intentions of Handel's father been carried out the world would have been much the poorer, for Handel was to have followed his father's profession of barber—which, of course, in those days included doctor and dentist. The genius of Handel could not, however, be checked, and all was put aside for a great career of musical attainment that culminated in the most popular and influential oratorio that has ever been written—the "Messiah."

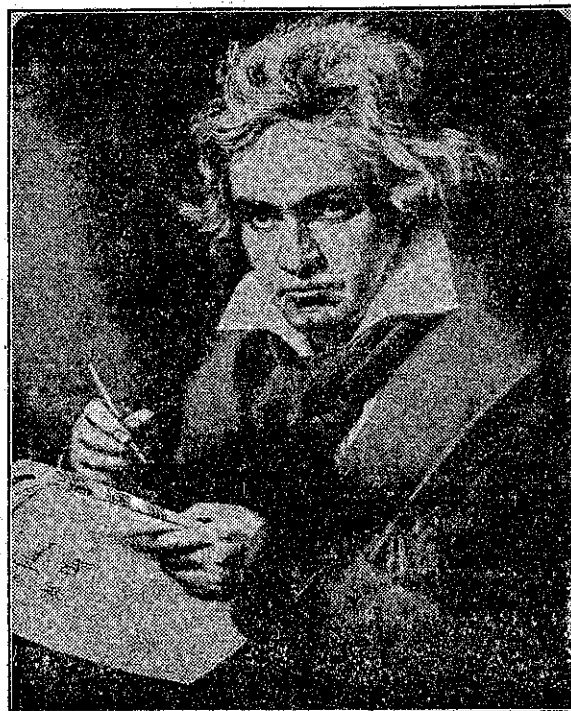
Handel's attention was first directed to the operas of his day, which were very superficial—the composers being constrained to write to suit the whims and fancies of the favourite singers of the day. These artists displayed to the public at every opportunity their ability to indulge in vocal gymnastics quite irrespective of the meanings of the words involved; and it is easily understood that practically all the work would go to the flexible soprano or the brilliant tenor. Handel was handicapped by this heritage of former composers, and although he improved the opera compositions of his day, he was, owing to the opposition of a body of influential English aristocracy, unsuccessful in his operatic work.

For the last 47 years of his life he made London his home, and became to all intents and purposes an English musician. Here with varying fortunes and final bankruptcy he expended prodigious energy in his composition and management of opera. His operas, if presented to-day, would not find favour with audiences; at the same time we realise that they contain numerous beautiful and brilliant arias which students are most willing to learn and audiences most willing to listen to with delight.

APART from their value as operatic solos, they provide most excellent exercises for good voice training, and many of these arias always find a place in standard collections of songs; and, mark you, they were composed 200 years ago! In one part of operatic and oratorio work he has left us a standard which may never be excelled; that is in recitative composition.

Handel achieved his greatest contribution and influence in oratorio, and in spite of the number of oratorios that have been composed since his day we find that the greatest interest and enthusiasm is still accorded to his wonderful productions, of which the best are the "Messiah" (which will probably be accounted one of the greatest of all time), "Samson," "Israel in Egypt" and "Judas Macabaeus." The quantity of gigantic works that Handel produced after his fifty-third year is amazing.

To endeavour to explain the meaning and origin of the word oratorio would take too long, so suffice it to say that the oratorio and Passion music of Handel and Bach were to the religious-minded what the opera was to the secular; and considerable similarity from the musical (Continued on page 22.)



Ludwig van Beethoven

Editorial Notes

Wellington, Friday, September 2, 1932.

IN less than six years, the number of radio sets in this country has grown from a mere handful to 78,000 and the number of listeners to more than 350,000. In the United States, where broadcasting is almost ten years old, there are in operation some 16,000,000 receivers, while in Denmark three families in every five possess a set. These impressive facts cause one to speculate as to where the limits will be. It has at various times been estimated that saturation point would be represented by 75 per cent. of the families possessing a radio set. This being the case America and Denmark, each with over 60 per cent. of their homes equipped with a receiver are perilously near the saturation point. Yet in face of all this the American radio industry is setting out on a £50,000,000 enterprise for the coming season, and British manufacturers are installing plant for more extensive production than ever before. And they will not be disillusioned providing their products are sound. Even with one radio in every home there is a huge potential market both for replacements and for new families. Radio is now sufficiently simple and trouble-free to have its place in every home, and is rapidly becoming cheap enough for everyone to afford. Some families will even be disposed to have more than one set so that the varying tastes of the household can be catered for. But the biggest potential market for new radios and new listeners is the new families of which in New Zealand some 10,000 come into being each year. Every one of these is a potential licensee, for probably at least one member of the new family has been a listener, and no one who has habitually listened will be happy without a radio. Radio can no more reach a saturation

point than can the market for houses or furniture.

THE future for radio is bright.

In New Zealand alone 200,000 homes are without radio, and next year there will be 10,000 more families to swell this number. More sets mean more licenses, better programmes and consequent further expansion. It is an example of the eternal spiral—licenses, programmes, expansion. And with the wheels of industry again beginning to turn over we can look forward to big things in radio. Not even at its worst could the depression hold back the progress of radio—certainly it was the means of causing the manufacturer in many cases to build down to a price instead of up to a standard, but that is by the way. In the last two years New Zealand has invested over half a million pounds in radio and 20,000 more people have become regular listeners. Before Christmas there will be 80,000 licenses, and providing the economic recovery is well under way there will be very nearly 100,000 at the end of next year. And even then we shall only be keeping pace with the new markets that are being opened up and still leaving that 200,000 homes untouched.

ON the surface it may seem that radio offers golden opportunities for all and sundry: dealer, salesman, technician, artist and all who are carried in their wake. But radio, even more than before, is exacting. The dealer must be careful, yet not conservative; he must give radio more and more attention, for it can and will make or break him. The salesman is no longer the technician who explains to all and sundry the operation of a dozen controls, but he must know sufficient to inspire faith; he must be a listener who knows when and where to find the distant stations and must know or at least appreciate tone and music. Of paramount importance he must be a psychologist. The technician is no person who has graduated from the ranks of the amateur constructor. He must be a student of electricity and radio, in whose fundamentals he must be thoroughly well versed. He must be adaptable and quick to learn, and to be successful as a free lance must be convincing in his procedure and manner. The artist is

the one of whom the public takes the greatest heed. It has already eliminated the second-rate amateur entertainer, and is on its way to eliminate all but the best the country can produce. The demand for records is only one instance of the public's intolerance of "local" artists. And as the public becomes more musically-educated and the re-

ceivers are improved it becomes still more critical.

AND so radio evolves in demanding higher standards in all its phases and taking its toll of all those who have entered its portals thinking that through the ether lay the way to Eldorado.

In Phase and Out

By "Quadrant"

RECORDS weren't in the same street as Will Yates from 2YA one night last week, when he put over a topicality on the Ottawa Conference. His art is to be all the more appreciated when one bears in mind that he imitates about a dozen people in each effort. His prize effort this time was the Ohlhaman in the climax.

AN innovation in the Wellington competitions was the introduction of radio classes to sort out those who are likely to broadcast well. Many entered, few were recalled. They are just beginning to realise that this broadcasting business is not as simple as it seems.

THIS week's appeal: "Join the 2ZW Club and save Wellington's premier B station."

I BELIEVE one of the womenfolk broadcasting recipes recently told her audience to take the roller and smooth out their pastry. Evidently her conscience troubled her, for some time later she told them they had better use a rolling pin. Just as well she made the correction or her recipe would have fallen a bit flat.

DEAR QUADRANT.—Why don't you give the other stations a look in? It is all 2YA and 2ZW with you.—Auckland Clubite. That is simple. My crystal set and amplifier will not hear of them.

THE Sphinx, talking on 2YA on Saturday night, remarked that if a certain digit appeared in the numerals hidden in one's birth date, he was naturally selfish, but that other things such as heredity and environment might make some difference. Wouldn't Mendel and all those other biologists be pleased to know that the individual was influenced by, first, numerology, second heredity, and third environment!

I BELIEVE non-rustling paper has been used by the B.B.C. for some time. It wouldn't be a bad idea for the Board to import some of it for nervous broadcasters.

A BROADCAST joke. The first banking was done by Pharaoh's daughter, who went down to the Nile bank and drew out a Moses. I thought old Adam started the business badly by not checking up on Who's Who before making an advance to Eve.

DEAR QUADRANT.—I read somewhere that Sir John Reith was recently found wandering in the corridors of Broadcasting House, apparently lost. One said he was looking for his private bathroom, but another held that after reading the Latin inscription in the entrance hall he was merely taking a waltz to dissipate his blushes. This reminded me of a spirit that I saw wandering around Parliament House grounds in the early hours of the morning, and the lone policeman told me it looked like the owner of a B class station looking for a deputation or for an antidote for blushes.—Sprite.

I think the party you had just come from had been too much for you. Under such circumstances my advice is to keep well away from policemen; they often say hard things.

I WOULD like to inform "Quadrant" that if he did not think the announcing from the racecourse at Riccarton and Addington good, hundreds of listeners thought the gentleman responsible made a splendid job of it.—Queens-town.

Ooh! I did not say that, nor even think it. I wouldn't dare.

A 2YA STAR, "The Gospel According to Cricket"—it isn't cricket to parody religion—at least not offensively.

IF the boy soprano wasn't drowned going to the concert relayed by 2YA last Sunday night, he undoubtedly was when he started to sing.

A ONCE popular tenor decided his voice was worth preserving, so he went to Sydney and had recordings made. Great minds do not always think alike, and no one else liked the records. So the great man returned to his homeland and now plays them unmolested from a station which he partly owns. In many ways broadcasting is not fair.

WHAT would you do if an imposing van stopped outside your door and on it was written:

P. and T. DEPARTMENT.
RADIO INSPECTOR?

I got a horrible fright and forthwith bought another license. They ought to make these excursions more public, someone might get caught without a license.

10 Years' Supremacy
ARCTURUS VALVES

TRAIL BLAZER OF THE INDUSTRY

Radiolights

(A Summary of the Week's News)

"Clues" to Final Section of Literary Competition.

2ZW Forms Radio Club.

Broadcast from 3YA on World's Greatest Music Composers.

2YA to Give Talks on Gardening.

Licenses Exceed 78,000.

May Have to Close

2ZW Faces Grave Position

IN view of the fact that 2ZW has been faced with a loss of approximately £1000, and has little prospect either of making this up or of preventing further loss, there is a grave possibility that the station may have to curtail drastically its services or ultimately go off the air. Such was the statement made to the "Radio Record" by Mr. R. H. Nimmo last week.

The station has done considerable trail blazing, and in this direction can point to the daily devotional service, morning session, and other innovations which have been followed by other stations. "There is no need to elaborate on the Community Service that the station has rendered," said Mr. Nimmo, "as this has been freely endorsed by numerous letters from such as the Prime Minister, Rt. Hon. G. W. Forbes, the Rt. Hon. J. G. Coates, His Worship the Mayor, Mr. T. C. A. Hislop, and from Public Bodies and listeners throughout the Dominion.

Mr. Nimmo stated that as soon as the financial position of 2ZW became known, certain prominent business men in the city conceived the idea of forming a 2ZW Radio Club, membership of which is to be open to all listeners. Those responsible for the formation of this club, confidently hope that the amount forthcoming will be sufficient to prevent the station from closing.

An appeal for the 2ZW Club was broadcast from the station on Saturday night by Mr. Arch Sando. A provisional committee has been elected to handle the affairs of the Club pending an election by the members themselves. Entrance fee is 2/6, and anything further will be considered as a donation. Subscriptions should be addressed to the Secretary, 2ZW Club Committee, Box 1634, Wellington. It is anticipated that there will be a large membership, considering the fact that radio clubs have been very popular in Auckland and other centres.

The measure of support accorded to this appeal will determine whether or not listeners will be provided with the efficient and comprehensive service at present supplied by 2ZW.

Radio Simply Explained

in

"QUESTIONS AND ANSWERS IN RADIO."

Price 1/6. All booksellers and dealers, or Box 1032, Wellington.

Literary Competitions

"Clues" to Second Section

THE "Radio Record's" Literary Competitions have almost run their course—as far as the broadcasting side is concerned. From reports received so far from listeners the competitions have proved a decided success, and, in addition to the competitive side, have afforded a novel entertainment for listeners.

Typical of Press comment on the competition is the following from the "Waikarapa Daily News," August 18:

The "Literary Competition" commenced last night by the YA stations of the Broadcasting Board is likely to prove most interesting to all listeners, whether taking part in the contest or merely being entertained. The first of the series of questions given by 2YA yesterday evening was charming. The extracts from the works of authors whose names are to be given by the competitors were splendidly read, and musical clues to the nationality and period of the writers were delightfully rendered. The competition will be very popular.

Numerous letters have been received from listeners in various parts of the Dominion who are unable to get satisfactory reception of any but their nearest station asking for a copy of the biographical notes and extracts broadcast from the various stations to enable them to compete for the four competitions. It has been pointed out that the competitions were designed primarily for the purpose of inducing people to listen-in, and that it would not be fair to those who did listen and take notes if complete printed copies of the whole of the competitions were supplied to literary enthusiasts, who may or may not have listened to the various broadcasts.

Following are the opening and closing phrases of the Second Section of the competitions from 2YA and 3YA respectively:—

From 2YA, Wednesday, August 24.

Extract 1: "I now wandered along the heath . . ." " . . . I would gladly live forever."

Extract 2: "Meek creatures! The first mercy . . ." " . . . moss for the grave."

Extract 3: "Mort de ma vie! It is Rhenish . . ." " . . . courage I am, le diable est mort."

Extract 4: "At last came a rumbling . . ." " . . . up I goes like a sky-rocket!"

Extract 5: "Doctor, what an excellent . . ." " . . . which has been irreparably damaged."

Extract 6: "What do I see? . . ." " . . . Can aught so exquisite on earth be found."

Extract 7: "Labour is watched over . . ." " . . . have not the power."

Extract 8: "There is sweet music . . ." " . . . the happy hangs in sleep."

Extract 9: "You'll love me yet! . . ." " . . . You'll love me yet."

From 3YA, Thursday, August 18.

Extract 1: "At last the old gentleman . . ." " . . . I ought to know, having followed as mourner."

Extract 2: "Lives that have noble commencements . . ." " . . . as long as it is in fashion."

Extract 3: "A sad and hideous sight it was . . ." " . . . the fatal gift of negro slaves."

Extract 4: "To persons standing alone on a hill . . ." " . . . derived from a tiny human frame."

Extract 5: "Round a great fire . . ." " . . . more successfully represented."

Extract 6: "Love is a lottery . . ." " . . . God grant you as much! Let us drink."

Extract 7: "Certain things are good for nothing . . ." " . . . daughters of the house of Farina."

Extract 8: "All delicate days and pleasant . . ." " . . . tall ships founder, and deep death waits."

Extract 9: "Ethereal minstrel: pilgrim of the sky . . ." " . . . kindred points of Heaven and Home!"

Competitors are reminded that their entries should be addressed:

"COMPETITION,"
C/o "RADIO RECORD,"
WELLINGTON.

And should be mailed to reach the Editor of the "Radio Record" not later than September 17.

Clues to Final Section

From 4YA, Monday, August 29.

Extract 1: "We're lucky fellows," said Sandy . . ." " . . . I had got good value in the deal."

Extract 2: "Twas in the lane, but a stone's throw . . ." " . . . wherever you be called to spend it."

Extract 3: "When the first baby laughed . . ." " . . . beginning of fairies."

Extract 4: "Leave it to me, mate . . ." " . . . coat off and was happily at work."

Extract 5: "It is remarkable what a little thing . . ." " . . . led to a friendship between the cousins."

Extract 6: "Thinking over the losses . . ." " . . . with the quiet efficiency of vergers."

Extract 7: "Doubtless all small towns, in all countries . . ." " . . . no one may surmise which is which."

Extract 8: "If I should die . . ." " . . . under an English heaven."

Extract 9: "From the lands where the elephants are . . ." " . . . and the Glory to God in our song."

From 1YA, Tuesday, August 30.

Extract 1: "The Cathedral hung over him . . ." " . . . ringing of the bell for Evensong."

Extract 2: "And so I came away . . ." " . . . pick no pockets."

Extract 3: "You said this was a great evening for me . . ." " . . . Only don't do it again."

Extract 4: "Now my merry birds you're going to sing . . ." " . . . from men about to die."

Extract 5: "In most places when a bridge has to be made . . ." " . . . Then they fly into a rage."

Extract 6: "There is nothing so bad or so good . . ." " . . . he enslaves you on imperial principles."

Extract 7: "It was a momentous occasion . . ." " . . . at the pub they'll tell you the same."

Extract 8: "The moon is up . . ." " . . . Beyond the Spanish Main."

Extract 9: "Very old are the brooks . . ." " . . . Of Amaranth lie."

The opening and closing phrases of the extracts broadcast from 2YA and 3YA will be published in next week's issue of the "Radio Record."

Corrections

IN the first biographical note in the First Section from 2YA on August 17, the author's birthplace was given as Dublin. This should have been Milston, Wiltshire.

The announcement should have read: "He was born in Milston, Wiltshire, in 1672, and his name is usually bracketed with another great essayist who was born in Dublin in 1672."

"For Those at Sea"

Special Broadcast from 2YA.

AT the conclusion of 2YA's scheduled programme on Tuesday, September 6, the orchestra of the Wellington Savage Club will play two selections in response to a request from the members of the scientific expedition on Discovery II. The members of the scientific expedition and the officers of Discovery II were the guests of the Savage Club at its last "Korero," and they expressed a wish to hear the orchestra when their ship was a few days out from Wellington. In order to permit of this, the Broadcasting Board has approved the extension of 2YA's programme as indicated.

"Gardening Talks from 2YA."

COMMENCING on Wednesday, September 28, Mr. T. S. Waugh, N.D.H. (N.Z.), will broadcast a series of instructive talks on "Gardening." In his first talk Mr. Waugh will deal with "Seeds for Kitchen and Flower Gardens." "Bedding Plants" will be his topic on October 5; on October 12 he will speak on "Chrysanthemums," and on October 19 he will take "Gladioli" as his theme. The talks will be broadcast at 7.40 p.m., and on each occasion Mr. Waugh will give listeners useful topical reminders. A further series of gardening talks will be commenced by Mr. Waugh on Friday, November 11.

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W.E.A. Sessions.

The Golden Age of British Music

TO be broadcast on Wednesday, September 7, and three succeeding Wednesdays, at 7.30 p.m., by Mr. Owen Jensen, L.A.B.

- No. 1: The Triumph of Oriana.
No. 2: Instrumental Music of the 16th Century.
No. 3: Henry Purcell.
No. 4: John Gay and the Beggar's Opera.

The Triumphs of Oriana.

FOLLOWING is a synopsis of the first talk:—

The world at large, and British people in particular, are wont to depreciate the British taste for music and to refer disparagingly to the British capacity for producing great compositions. Yet, in 1601, when Thomas Morley published "The Triumphs of Oriana"—a collection of madrigals in praise of Queen Elizabeth written by many of the great composers of the period—British music set the standard for the rest of Europe.

This period has been called the vocal millennium and certainly the subjects of good Queen Bess were a nation of singers; when community singing was truly singing and was most surely a community effort. The national attitude might be summed up in the couplet "Since singing is so good a thing I wish all men would learn to sing."

The neglect of the madrigal to-day is due chiefly to the great change in outlook both musically and socially that has taken place since the Elizabethan era.

THE steady increase in license numbers registered during the past few months is well maintained in the latest statistics, which show an increase of 3194 over the previous month's total.

DISTRICT.

Auckland	Receiving. 21,592
Canterbury	12,251
Otago	9,864
Wellington	32,359

Totals 76,066

CLASS OF LICENSE.

Receiving.	Dealers'.	Transmitting.	Experimental and Special.	Free.
306	120	1	103	
192	134	1	48	
147	83	1	32	
483	225	4	61	
1,128	562	6	244	

Grand Total: 78,006.

Both the technique and the philosophy of music have undergone a metamorphosis; but to those who would don the Elizabethan mantle there is revealed a wealth of glorious music whose freshness and purity are but tarnished by the process of time.

The World Economic Crisis

A SERIES of 4, commencing Thursday, September 8, 7.30 p.m., by Dr. H. Belshaw, Professor of Economics, Auckland University College.

- Nos. 1 and 2: Conditions Leading up to the Crisis.
No. 3: The World Crisis.
No. 4: Toward Recovery.

Synopsis of the Four Talks.

THE material losses due to the war were quickly made good, but the

effects on economic, social and political organisation were serious, and eventually led to the economic crisis. The world of 1929 was a world suffering from serious disequilibrium. The addresses will be devoted first to analysing the factors making for this disequilibrium, such as the lack of balance in production, political insecurity and growing economic nationalism, the effects of war debts, reparation and other factors in the movement of capital, the failure of monetary policy to cope with the new problems of society and the economic rigidity which prevented adjustment to changing conditions.

The course of the crisis will then be traced and attention will be devoted to the collapse on Wall Street, which initiated the depression; the collapse of the Credit Anstalt in Austria, which

turned the depression into crisis, and the drain of gold to France and the United States which forced Great Britain off the gold standard.

After a survey of some of the effects of the crisis, an attempt will be made to indicate the main essentials to recovery. This will involve some consideration of monetary policy, reparations and war debts, and the reversal of trade barriers.

2YA Children's Sessions

Monday, September 5.—Uncle John and Kipling Lady will be here to tell you stories to-night, and to send you birthday greetings. It is to be a special Mother Goose evening arranged by "Tiki."

Tuesday.—Come along, Radioland children with Jumbo, Jumuna, and Aunt Molly to the Kelburn Observatory to-night. You will want warm coats on, as you are outside when you look through the huge telescope. Cousin Quinnell will be there to tell you all about the moon and stars.

Wednesday.—To-night the engineer at Mount Victoria has invited the Snow Queen, Aunt Molly, Sesame, and the Snowflakes to visit the transmitting station, and see all the wonderful colours which light up in the valves when we are on the air. Put on your skates and bring your toboggans, as we will have to slide down when we come back.

Thursday.—Big Brother Jack is to be very lucky to-night, because he is to be the guest of honour at a little play the children of Radioland have prepared to-night called "The Willow Pattern." During the interval Big Brother Jack will send you birthday greetings.

Listeners! Join the 2ZW Radio Club!

Send YOUR Subscriptions TO-DAY!
The need is urgent

Your Financial Support is needed to keep this Popular Station on the Air

Here is your opportunity to show your practical appreciation of the Station which provides such a valuable alternative service.

Some of the services provided by Station 2ZW have been made possible by the generosity of certain business firms, but the greater part of the cost of maintaining the Station has been borne by the Directors who have stated that unless some further source of support is forthcoming, the Station must either close down or the services be drastically curtailed.

Prominent business men have banded together and have decided to form a 2ZW Radio Club.

Membership is to consist of Radio listeners who desire the Station to continue, and who are willing to contribute not less than 2/6 per annum to the Club funds, the function of the Club being to ensure a continuation of the valuable service rendered by 2ZW.

2ZW MUST BE SAVED!
YOU CAN HELP! JOIN THE CLUB!

PROVISIONAL COMMITTEE:

Prof. H. H. Cornish, Messrs. Will Appleton, A. J. Luke, David McLaren and R. R. Scott, with Mr. A. Sando, Provisional Chairman and Mr. E. S. Neill, Acting Secretary.

If you want 2ZW to remain on the air, send in your membership fee or donation without delay. All subscriptions will be acknowledged by the Club Secretary.

THE SECRETARY,
2ZW RADIO CLUB,
c/o Station 2ZW,
WELLINGTON.

I enclose the sum of being
my membership subscription for the current year.

Name

Address

STATIC

by
"SPARK"

WHEN Mr. Gordon Short announced at the Hutt Liedertafel Concert (2YA) that he would play as a recall number "Musical Box," I'm sorry he did not describe what such a thing was. As the invention of the phonograph put the kybosh on the development of this mechanical musical instrument, there are more people who have not seen one than there are who have. I owned one long before the gramophone era. It was a nicely polished wooden box about eight inches long with a glass lid, and it emitted several tunes, two of which were "The Bluebells of Scotland" and "The Keel Row," so I think it must have come from North Britain. Inside the box was a brass rolling-pin thing, with the handles cut off and a piece sawn off each end. That is, it was a trifle shorter than the parallel part of a rolling pin. The roller had whiskers, not flowing ones, because they were of hard steel of low percentage ductility, but just as though it had not been shaved for three days. Alongside the rolling pin affair was another gadget like the elongated blade of a hair clipper. This gadget was a bit different though, for when you looked at it from the treble end the teeth became shorter as they receded, as though you saw it in abrupt perspective or through a kind of unanastigmatic lens. If all the teeth had been the same length, when you wound the rolling pin thing up you would have got one sound only and the time of the piece. When it went the teeth didn't go through the whiskers like a hair clipper reversed because the whiskers would have stopped it if they didn't break off. If they broke off there wouldn't have been any tune at all. Mine had several teeth bent or broken off, so it sounded very realistic and like a performer with poorly developed technique. It may be that only those who have seen one of these mechanical marvels will recognise this word picture, and as it is hard to explain, I can now understand why Mr. Short omitted to try.

WHEN listening to Mr. Drummond reading the news one evening last week, I was surprised to hear that the Australian police had recently made a "new" discovery, that Chinese were importing counterfeit Australian silver coins, mostly shillings, into the Commonwealth. We were informed that Australian silver coinage was very cheap in China, and anyone trafficking in the real article could make a profit of eight per cent. China has had twenty years of revolution, and that says mighty little for

"Stations Identified"

THIS true story wins "Spark's" weekly 5/- prize for the best paragraph:—

An amateur dixer, having just purchased a radio, naturally spent a lot of sleepless nights seeing what the ether had to offer. Asked how he was progressing, he replied: "Fine; I have had the Japs, Manila, Bombay, etc." Asked how he identified them, he said: "Oh! I heard a noise at the frequency the salesman said they ought to be."

our big neighbour's currency. What intrigued me was the information that after exhaustive assaying it was found that the spurious "deeners" were three per cent. deficient in silver content. It therefore appears to me that China's revolution has been responsible for the time-honoured profession of counterfeiting in that country passing into the hands of simple thieves. Somehow I cannot believe that the discovery is a new one, unless it refers to the shortage of silver in the coinage, and it seems to me that the Australian police are merely reiterating to the public what clever fellows they are. The business has been going on for generations, and the traffic from China to Australia is not always by the direct route. Many an innocent traveller at Port Said and Colombo, after making purchases, chiefly rubbish, from native "box-wallers" has demanded British or Australian silver for change and often thereby absorbed a little of the counterfeiters' output. Most of the imitative Australian currency, manufactured very likely in Canton, goes direct to its projected destination and, being exact in weight, stamping and fineness—the traffic is a difficult one to stop. The intrinsic value of silver coinage is seldom worth more than a fraction of the face value, and recently the amount of silver in a two-shilling piece could be bought for a few pence. It therefore seems to me an amateurish sort of trick to endeavour to palm off short-weight and risk breaking a good connection. I have seen barrels full of silver coinage in China, reputed to have never seen its supposed country of origin, awaiting shipment to Australia and other countries, and I cannot believe that the Australian police have just heard about it. Now that a mild interest has been aroused in the business the Australian police should turn it to commercial account. A film showing all the ramifications of the industry, with a bright young

heroine awakening a Rip Van Winkle policeman to the Chinaman's wily ways, should prove a draw and advertise the police astuteness more than a cable message.

ON looking at the names of lectures and their subjects for broadcast from the YA stations this week, I was impressed by the appropriateness or otherwise of some of them. For instance, I notice that Mr. Woodyear Smith is to give us seasonal notes, and Mr. H. F. Toogood is to speak on the economics of rural roads. Any Wellington motorist will say that any rural road is better than Lower Tinakori Road, but we shall have to hear what Mr. Toogood says before we can judge whether rural roads are too good or not. Then again, we are to have Dr. H. D. Broadhead continue his address upon social life of ancient Greece. Mr. J. L. Passmore's name may be appropriate to his talk on motor regulations, and I shall be interested to learn whether he urges the Government to pass more regulations, or whether he urges the car owner to step on it. In the talk on the depression of the eighties—and after, Dr. W. Boroman may possibly tell us if our popular policy has been the right one, and every listener will be repaid for giving Dr. Boroman attention.

WHEN speaking for Mr. Lloyd Ross, Mr. R. McIvor (4YA) gave some very interesting facts concerning our present day economic problem in connection with the fallacy that more money was needed. In this talk it was clearly shown that an expanded currency would not adjust the balance and rectify the evils that arise from an unscientific method of distribution. The contention held by some that the banks were not functioning by reason of withholding credit was shown to be absurd, and the instance of the German inflation was pointed to as an example that demonstrated that more money does not solve this very intri-

cate problem. The W.E.A. lectures on this subject are always most illuminating, and it is a pity that static and fading so often spoil reception at this distance.

EVERY girl who loves chocolate creams may have listened to Dr. Guy H. Scholefield (2YA) with sympathy for the whale, which man's ruthlessness for commercial gain threatens to exterminate. Every girl can show practical sympathy by refusing chocolate cream made from whale oil. The grubby little boy is not usually particular where his sweets originate, but seeing that by woman's decree, the young white heron is allowed to live and great plumes no longer adorn their hats, the big sea mammals would have a longer purchase of life if the girls knew how much cream was made from whale oil.

THE Christchurch Community Singers have every cause to be elated at the success attending their sings and in being proud that their smaller city can at times beat Wellington's takings. £33 cash collected, with articles for later sale and a donation of \$40 worth of milk is a good haul for one day, and one may wonder if the success is not largely due to the Mayor's attendance in the appeal for his fund. I think that that had a great deal to do with it. Of course it may be because the Mayor is an M.P., and to try this out, all community singers could request that their local M.P.'s should come along and see what they could do. I know Dan Foley draws more than one three-penny bit in Christchurch, and Wellington can be proud of that, but if Dan continues to respond so freely to encores he will have shortly to enlarge his repertoire. The real test of Christchurch generosity will come when it has been combed as long as Wellington has by Owen Pritchard and Company, and if the Christchurch City Council starts to sell petrified and rather dear milk, that will be one item Wellington won't have to consider in gaining her capital position.

LEARNING to aviate by broadcast, under the wing of the Vacuum Oil Company from 2ZW was a novel and good show, so the next morning I fed my benzine buggy with Plume. It's not getting any Laurel kerosene to drink though as the smell hangs round too long.

SURELY the Wellington Automobile Club could supply its secretary with better avian data than that which emanated from 2YA. Mr.



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PRIZE WINNERS WORD-BUILDING COMPETITION

1st prize, £10 cash: G. Hope, 5 Derby Street, Wellington (3342 words). 2nd prize, £2 cash: Mrs. F. Keegan, 26 Carlton Avenue, Onehunga (3333 words); and four prizes of 10/- each to: Mr. T. R. Jackson, C/o A. Anderson Esq., Bell Block, New Plymouth (3032 words); F. J. Aubrey, 169 Rattray Street, Dunedin (2070 words); Mr. A. Riddell, Jr., 18 Elizabeth Street, Mount Eden, Auckland (2031 words); R. G. Forrester, Leeston (2025 words); and prize of £1 cash for best entry under 15 has been awarded to Ivan Anderson (12 years), Bell Block, Taranaki (1895 words).

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P.O. Box 471, Auckland

Sutherland said that the fastest known bird in flight was the "swift," which could move at the speed of 120 miles per hour. Really that speed is almost in backgear compared to the "oof bird." I don't know the weight of a swift, but call it five pounds avoirdupois net. The feather it flies with is tare and in an empirical calculation may be disregarded. Using Mr. Sutherland's formula by adding half, that makes the swift change its position at the rate of 180 feet per second. Therefore its mass momentum equals, in top gear, 900 foot pounds per second. But everyone knows how he has had the oof and suddenly it has disappeared, so quickly that the swift couldn't have thought about moving. Returning to the foot-poundage of the swift, compare it with the Hataitai Traffic Tunnel oof, that hole that was holed almost wholly for motorists. The weight of oof leaving each day is forty pounds sterling, which is very much heavier than avoirdupois. I don't know if forty pounds includes sinking fund, but anyhow sinking fund, like feathers, doesn't weigh much, and as the differential in the calculus, it is only a little bit and can be discarded, so can feathers be in this calculation. That forty pounds is always moving away, but unlike the swift it always remains. Even if we take the time unit as one millionth of a second it is still going, yet stops in the same spot. Now just imagine the oof bird changing its position, that equals forty million foot-pounds per second just for Hattidly-haitai. I could give a lot more examples showing that the swift only crawls in comparison to the oof, but the calculations are somewhat involved. I've lost my book of logs, and these columns are too short for long-hand mathematics so we had better get Mr. Will Yates to do them next "surprise item," although I think I have shown plainly that the Automobile Club's information is faulty.

AFTER the huge success of the Ottawa Conference at which, according to Mr. Bruce, Australia gave away nothing in return for favours (which will need to be made up for by some other Dominion), and the departure of the Irish Free State delegates in high dudgeon, it is just as well for us to know how we stand with all parties to the tentative agreements. Listeners were therefore fortunate in hearing Mr. J. T. Burrows (3YA) tell us something of the attitude of the South African Dutch toward the Britisher. Mr. Burrows witnessed the celebration of the foundation of "flag day" in the Cape, and was able to see how much the Boer element had assimilated with the British. In recounting some of the incidents experienced that day it was plain that New Zealanders were not welcome either, and so tense was the feeling that apprehension of bodily harm was not without reasonable cause. The Afriander Dutch are not disposed to like anybody but themselves much, but if they did feel a fondness for anyone it would not be for a colonist who owed allegiance to their Motherland. The Boer shook off such a shackle at the dawn of enlightenment

and he can let the belief that this was the right thing to do even spoil his pleasure. That is why at Rotarua, when the South African footballers were here, he drank so heartily to the toast "the downfall of the British Empire." This attitude toward us is difficult to explain in view of the fact that the British have prevented the Dutch on more than one occasion. I have heard that Rotary is going to fix it up, though, and consolidate the dream of Cecil Rhodes, who visualised a nation of an admixture of British and Boer. Rhodes was an idealist and perhaps he never



Vincent Aspey,

a brilliant Auckland violinist
(late soloist and orchestra
leader of stations 2FC and 2BL,
Sydney), who will play
"Rondo" (Mozart) from 1YA
on Wednesday, September 7.

saw the clodhopper nature of the Dutch women nor the satisfied ignorance of the Dutch men.

MR. BURROWS spoke of the general altitude of the southern end of the Dark Continent, and it makes me wonder how high the country was a few million years ago. Geologists tell us that it is the oldest country on earth, and that while the Himalaya mountains were being pushed upwards South Africa was being blown away as dust. I wonder if the rise of India and the dissipation of South Africa has anything to do with Mr. Ghandi's hatred of British institutions, for it was in Natal where he learnt much of it. He could not have very well absorbed it from the Boer as, having been born discoloured in complexion, the Boer would class him with the Kaffir, whom he believes the Creator made black and consequently inferior, therefore beyond the pale and not worthy of being associated with. Mr. Ghandi, however, didn't live in the high part of South Africa, and spent most of his African time in Durban, where

the only really high part is the whale boiling-down factory. Mr. Burrows's observations were undoubtedly very keen, but I can assure him that he was fortunate in having no need for his mosquito net, for I have never seen mosquitoes so large as those in South Africa.

I HAVE no doubt the appeal made by 2ZW for the formation of a radio club to enable that station to continue operations will meet with the immediate response that the situation warrants. Every listener within range recognises that this popular B station has maintained a consistently high programme standard, in marked contrast to some of the B stations broadcasting in Australia. In making a direct appeal to listeners at the same time setting out the financial position, the proprietors have taken the wisest course, and appreciative listeners' aid will not fail them. My own subscription is for the delightful chamber music which we receive from 2ZW and, in paying for that only, I know I am still in debt, but unfortunately complete redemption will have to wait for better times. Jolly good luck to 2ZW and its radio club!

WHAT would our radio orchestras do without grand opera overtures and selections? Were they to be suddenly deprived of this substantial section of their repertoire the loss to listeners would be appreciable. Take the case of that tuneful Gounod opera "Mireille," selections from which the 1YA Chamber Orchestra is playing next Friday. Although the opera itself, like so many others, has fallen into something of oblivion, it enjoyed in its day quite a popular success. In 1864 it first saw the light in Paris, but as one writer puts it, "the action is probably too exclusively 'Provençal' to strike any responsive note in Anglo-Saxon audiences." Still the work successfully appeals in Paris, where it is performed at the Opera Comique frequently during the season. The opera tells of the course of true love running far from smoothly and ending in the lovers' union too late. Mirella and her sweetheart Vincent find each other and win consent to their wedding only for her to die in a mystic ecstasy. Gounod, who has been accused of the "waltz complex," most certainly has written no better waltz song than "Oh, Messenger of Love," by which many people know the opera best. The tragic end of the whole story would hardly be guessed from the overture, which is full of thoroughly bright and tuneful music and has always been among the favourites of Gounod's purely instrumental pieces. In the selection also an abundance of melodic material is drawn upon to build up an altogether charming orchestral number.

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S-O-S

TRAVEL IN COMFORT BY
CAR

WELLINGTON PALMERSTON
NEW PLYMOUTH

Variety Entertainment.

WHAT is happening to the radio programmes? We get the best programmes during the day, when a wide variety of records is put over, but what of the thousands who can listen at night only? They have to put up with the trashiest of stuff that the stations see fit to inflict upon them. We get an overdose of the so-called concert orchestra, while the happy little combination forming Frank Crowther's orchestra only appears about once in two weeks. Further, what are the programme organisers doing with our Sunday fare? Each Sunday from 2 p.m. we have to grin and bear the dullest of records, and last Sunday (August 21) was the limit. We had 27 minutes of most difficult piano music. Hasn't 2YA realised yet that somebody else beside music-teachers pay their 30/- license fee? The same night we had more dreary music and singers. Must these singers give us the heaviest stuff they can find, and why don't they, too, submit their songs for approval to the programme organisers? It is about time that they too took pattern from the world's greatest singers, who do not always sing high class songs. Now band concerts from the various theatres are no longer broadcast, away goes our best entertainment of the week. Are there any listeners-in who can truthfully say they enjoyed last Sunday's output from 2YA? The bells! Are we to be always inflicted with these? Why old-time dances and variety entertainments from Australia and not from New Zealand? Is 2YA afraid it might get too gay? Oh, well, we can still get opera and plays from Australia, so there is some consolation.—F. Osborne (Wanganui).

Stumbling-Blocks.

WHEN a man is getting his announcer's ticket he should be put through a test in the pronunciation of some foreign titles. Some of the attempts at pronouncing which one hears should be compiled and recorded.

Among some of the howlers I have heard there seems to be a difference in opinion about words such as "Mignonne," "Bach," "d'Helmets," "Tauber."

There has been a growing tendency for all stations to give listeners "feast and famine" programmes. That is, for a time there is too much popular music and very little if any classics. Then the pendulum swings the other way, and we have a feast of classics and a famine of popular music.

I have heard of late of a great number of headaches due to listening to massed orchestras playing classics which sound like thunderstorms—e.g., a rhapsody in fifty different sharps and flats entitled "Blunt," by A. Cheapfleonasaw (pron. Sheppfleonasaw). This piece has not yet been written, and I hope it will never be.—"Nuff Sed."

"B" Stations.

I WAS surprised at the remarks made by "Wairoa" in your issue of the 26th instant concerning "B" stations and their programmes. He describes the programmes as "tripe" and "tosh." May I ask him if he has ever listened to 2ZW? "B" stations must be given a chance, and if "Wairoa" is dissatisfied let him turn over to the "A" stations. His opinion is without any justification, and his uncalled-for remark of "When we must depend on 'B' stations

For Services Rendered.

YOUR correspondent "Wairoa," in criticising the vocabulary of others, discloses the inadequacy of his own by his use of such vulgarisms as "tripe and tosh." I suggest that he remove the mote from his own eye first.

According to him, "B" stations are unnecessary; well, probably as far as he is concerned they are, but he must remember that it takes all types of people to compose this world, and I for one still consider that the service rendered by the "B" stations merits reward. He must also remember that here in Auckland at least the increase in popularity of radio during the last few years is directly due to the service of the despised "B" station.

He must recall also that there are many who are not at all interested

in either sports or racing, and for these an alternative programme is necessary. Undoubtedly he will suggest the old remedy, i.e., "There is no necessity to listen, they can switch off"; but is this what we pay 30/- a year for? It may also be of interest to him to note that here in Auckland "B" stations supply us with 7½ hours' service a day before 1YA comes on the air at all, and even when the extension of time comes into operation they will still be on the air 2½ hours before 1YA.

Again, would your correspondent consider that he had received a fair reward if, after building up radio to its present-day popularity, he was calmly informed that now he was not wanted and that somebody else would take over and run the whole concern? Although the board is to be commended for the start it has made, the least it could have done was to permit the

"N.Z. Radio Times"

September Issue

THIS issue of the "Radio Times" sets a high standard. For the first time two constructional articles have been given; both are of a.c. sets, one the "Link Three" and the other the "Kriesler Five." The "Link Three" is a three valve a.c. set using two screen-grid valves and a pentode output. It incorporates a band-pass filter which may be used with any set to improve the selectivity.

The "Kriesler Five" is the first of a series of kit sets which the "Radio Times" intends to describe.

The "Kriesler Five" comes to the home-constructor all ready to assemble, and with the instructions and the diagrams which have been given in the "Radio Times," he should find no difficulty in doing this. The "Kriesler Five" has four amplifying valves, including three screen-grids and a pentode, and it is a set which any set-constructor would be proud to own.

These two sets, it is confidently expected, will prove two of the most popular yet described in this magazine, and all those interested in construction are urged to secure a copy of the "Times" even if it is only to see the new ideas incorporated in both these circuits. If one wishes to remain in the technical field he must keep up to date, and one way of doing this is to study new circuits as they come out.

The constructor will also find several other articles of interest, particularly two pages of very useful tips and jottings, as well as some very elementary notes for the beginner.

The principles underlying a.c. construction are described in the concluding instalment of the "A.B.C. of the A.C. Set"—a series which has been running for the last five issues of the "Times." In this issue the writer describes some of the pitfalls into which those who are unacquainted with a.c. set construction usually fall. It also points out how a.c. construction is

really as simple as battery work, providing certain precautions are observed.

Readers will be very interested to read the accounts of the new valves—the 56, 57, and 58—valves which will be incorporated in future sets.

The general reader and the dx enthusiast will find an excellent article on radio conditions in America. This authentic report explains how the great American systems operate by split second methods, and how everything in that great broadcasting machine works with the greatest regularity and smoothness.

The "B" station described this month is the popular Manawatu station, 2ZT, which recently celebrated its eighth birthday.

The trade section contains some useful suggestions for dealers and servicemen, while there is an interesting account of the activities of the newly formed New Zealand Radio Institute. The Service Page is up to its usual high standard, and contains some cases of more than passing interest.

The "Radio Log" section contains a wealth of dx news. The reports from the various parts of New Zealand have this month dealt more with actual listening conditions and the stations heard rather than with the reports of meetings. There is an announcement concerning the president of the Dx Club—there is a surprise in this direction—and the completed list of members of the Dx Club. There is a brief description of the equipment and methods of the winner of the Dx Competition, Mr. Frank Barnett, and much other useful and interesting information to dxers.

This month's "Radio Times" has been enlarged by an extra eight pages. Those technically minded and dxers are urged to secure their copies with a minimum of delay, as supplies are limited.

sponsored programme, limiting, of course, the advertising to the name of the sponsor.

In conclusion I think that the membership of the newly formed "B" station clubs is sufficient reply to his remarks on the "noisy minority," especially when one takes into consideration the objection of many persons to the membership fee. I am exceedingly pleased to read that the worthy person is prepared for some amateurism in New Zealand local talent; undoubtedly there are amateurs, but much of our local talent is by no means inferior to many of the recorded artists. It grieves me, however, to note that the worthy person found the necessity to conceal his or her identity behind a nom-de-plume.—T. J. Lane (Auckland).

[The board has no control over the advertising question, which is dealt with solely by the Post and Telegraph Department.—Ed.]

"B" Stations.

I HAVE been an admirer and appreciative reader of your Static Section, but "Spark" has disappointed me this week in his paragraph re 2ZW. His last two sentences about charity are not worthy of a broad-minded writer. It is undoubted that 2ZW has done an immense amount of good in this line, but apart from the relative amounts of service rendered by 2ZW and other agencies, why not give credit where credit is due, or at least refrain from disparaging worthy endeavour?

"Spark" considers that sponsored programmes are too near the advertising mark. I fail to see any reasonable argument why "B" stations should not be allowed to advertise. The opposition to radio advertising does not lie with those who use radio—listeners—but with powerful outside advertising agencies and mediums.

How many of us would seriously object to limited advertising? Do we not put up with it from Australia's many "B's"? I'm certain most of us would prefer to listen to a little advertising than to be forced to listen to our four model YA stations because the "B" stations, from whom we do get good programmes, were forced to close down. My best wishes for success to the deputation led by Mr. P. Fraser, M.P., last week.—"Oigle" (Oamaru).

Broadcast Service.

IT seems that our "hard-to-please" listener "Fed Up" (Auckland) is very much against the Broadcasting Board and its programmes. I suggest that he makes or buys a short-wave set, if these programmes are not suitable. Nearly all the listeners in our district and others I have spoken to seem to be satisfied with the board and their programmes. The board is trying to suit the needs of the majority

Jensen
SETS THE PACE!
By every test—
Jensen
DYNAMIC SPEAKERS
ARE SUPERIOR

of listeners, but it is impossible to suit everybody, especially the "Fed Up" class. Perhaps if he repairs his set a little he might get better results, as he has been a listener for seven years. If he has been using the same set it will probably want renovating or remodeling. Let him keep to the "B" stations if they suit him, as he is not compelled to listen to YA stations only. I would like to know why he does not like the National Anthem played before the concerts

any more than after. He must remember that when they used to play the National Anthem at the end of the concerts and programmes there was no closing down melody. He is now getting more music for his money.—Wireless (Omarama).

Cheap Gramophones.

IN reply to your Wairoa correspondent, whose unsigned letter appears in this week's "Record," I would like to say that gramophones are still cheap.

I am one of the "noisy minority" who has hitherto been silent. Long life to the "B" class stations!—L. Angelini (Pahiatus).

"Disappearing" Uncles.

REFERENCE has recently been made to "uncles" disappearing from 2YA, your correspondent complaining that various well-known characters have been allowed to depart "without one word of thanks or good-bye."

As one of the "uncles" concerned, I

should like to state that at no time during my long association with 2YA did I expect or desire the thanks of either the company or the Board. The time devoted to the children's session, so far as I am concerned, was cheerfully and gladly given for the purpose of assisting to interest and entertain the juvenile listeners, and I value most highly the many expressions of appreciation voiced by the children from time to time.

I hope in the not far distant future to be able to renew radio acquaintance with many whom I am glad to call my little friends.—"Uncle Jeff."

Talented Musician

To Broadcast Regularly from 2ZW

ON several mornings last week 2ZW listeners were entertained with pianoforte items by Mr. Lawrence Haggitt, F.T.C.L., L.A.B., a well-known Wellington musician.

Mr. Haggitt, who now holds the position of organist and choirmaster at St. John's Presbyterian Church, began his musical studies at Dunedin, where



Mr. Lawrence Haggitt.

at the age of sixteen he became a pupil of Dr. V. G. Galway, Mus.Doc., well known to listeners by his organ recitals relayed regularly by 4YA. During five years of study, Mr. Haggitt gained diplomas from Trinity College, the Associated Board of the Royal Academy, and the Royal College of Music, London, securing the Fellowship of the first mentioned for organ playing—a much-coveted distinction. Shortly afterward he was appointed organist and choirmaster at the Roslyn Presbyterian Church, Dunedin.

In 1926 Mr. Haggitt left for South Australia to further his studies at the Elder Conservatorium, Adelaide, and after several months there was appointed organist and choirmaster of the Flinders Street Baptist Church. During 1927-28 he broadcast regularly from station 5CL, Adelaide, as accompanist, solo organist, and pianist. In 1931 Mr. Haggitt returned to New Zealand to take up his present position.

Mr. Haggitt, who will be heard regularly from station 2ZW, will also, on the occasions he appears, play accompaniments for Miss Joan Laird, 2ZW's lady announcer, whose soprano solos are an extremely popular feature of that station's morning sessions.

The S.T.C. Console De Luxe—£35

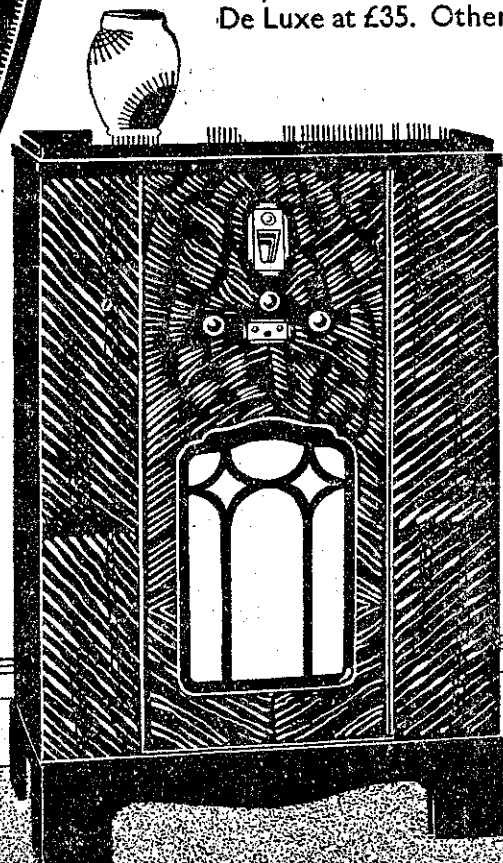
One of the most beautiful instruments ever produced at anything approaching the price. The cabinet, beautiful in line and design, is in hard-selected walnut and maple veneers of unusual richness of grain, polished in full piano finish, and inside the cabinet is a radio receiver of an efficiency and reliability outstanding even in this year of radio perfection.

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Before you buy any radio, see, hear, and test this wonderful product of a wonderful organisation—the S.T.C. Console De Luxe at £35. Other Console Models, £28, 10 to £32, 10.

The New STC RADIO



Questions and Answers

L. G.Y. (Auckland): Could I use the "Neutron Four" as an a.c. set?

A.: You could do, but it is designed as a battery set. If you wish to construct an a.c. set why not build up one of the many which are being described in the "Radio Times"? You would get far more satisfaction. The valves for the "Neutron Four" would be three 227's and a 171 or its equivalent, but such a set would be really old-fashioned. You could use the "Neutron Four" as a battery set and supply the last valve with a.c., using such a valve as PM4 or PM 254.

P. W.S. (Hamilton): One would expect a difference between the "Radio Guide" and the "Radio Call Book" with respect to station particulars, as many of these have changed since the former was published.

R. B. (Birkdale): When I remove the earth wire from my set reception is better, and if I plug the earth wire into the aerial terminal it is the same as with the aerial. By connecting the earth to the aerial reception is doubled.

A.: Quite possibly your aerial and earth terminals have been reversed in the process of manufacture. However, if this is not the case, you are not doing any harm by reversing them.

2. The volume is enormously increased when the earth is removed from an eight-valve battery set, but when an electric light is switched on the volume from the speaker was terrific.

A.: By removing your earth you are working your set closer to oscillation, but we cannot explain why it should be terrific when an electric light is turned on. It may be due to faulty electric wiring, but that is very doubtful.

A. E.B. (Christchurch): I had an aerial 15 feet high and about 120 feet long. Reception was good, though I picked up a lot of noise. I erected a shorter aerial, but I can hear 3YA while listening to 3ZC. The trouble does not occur when listening on a long aerial.

A.: It is usual that the shorter the aerial the more selective is the set. Your best plan to separate the two stations would be to use a wavetrap or a pre-set condenser.

2. Will salt improve the earth system when the ground is sandy and dry?

A.: Yes.

21 MC (Christchurch): I have had the "Sparrow Hawk" going for 10 days, and although excellent results have been had on the broadcast and the 80 metres

coils, the 40 and 20 metre coils are disappointing.

A.: If the set will not oscillate, try several more turns on the reaction winding, but you seem to be doing quite well in getting the stations you have. Tuning on these bands needs much practice. You may get better results by experimenting with potentiometer grid return in order to get a finer control of reaction. This possibly would do away with the hand capacity with which you appear to be troubled.

2. I tried to transformer couple the "Sparrow Hawk" into the grid circuit of a detector valve on an a.c. set, but all I could get was a hum.

A.: The method of connecting the "Sparrow Hawk" one to an a.c. set was shown in the "Radio Guide." You appear to be going about things the wrong way.

ZL1HW (Papakura): What are the filament voltages and current requirements of 2A?

A.: We have not heard of the valve.

2. What would be the voltage drop in a 280 valve working at 400 volts on each plate, at a current of 75 millamps?

A.: About 20 volts, which would be made up by a 4 mfd. condenser next the rectifier. You are asking for trouble by working an 80 valve at that point.

KENT (Christchurch): Will two aerials separated by a 3ft. length of wood and running at roughly the described angle result in interference? The aerials are on the same mast and run to two different sets.

A.: It is possible that interference will be caused between the two. However, with the very stable receivers of to-day it is unlikely that severe interference would take place.

2. What type of aerial would you recommend for my set?

A.: No greater than 80 or 90 feet overall, the aerial to be of the "L" type.

C. J.C. (Eastbourne): Would you give me particulars of the "Night Owl" three-valve short-wave set, as I cannot obtain the back number of the "Radio Record"?

A.: We could not re-describe it here, but a good short-wave set has been promised for the "Radio Times."

3. Where can I get a blue-print of a short-wave set? It must be all-electric.

A.: We do not know about a blue-print, but a full description of an all-electric short-wave set will probably appear in next month's "Radio Times."

"HAM" (West Coast): What are the American Philips' equivalent of the following Mazda valves: H12, L2, P220?

A.: A215, A209, B205.

2. Would my short-wave three-valver be as good as the "Differential Three"?

A.: We have not tried the one you have in mind, so cannot make a comparison.

W. H. (Gisborne): I have a PM5X as first audio and a PM6 in the last stage. Would 2 PM6's be better?

A.: No, PM6 is a power valve and must be used only as such.

2. What screen-grid six volt battery valve do you suggest for the "Kestrel Three"? I prefer Mullard valves.

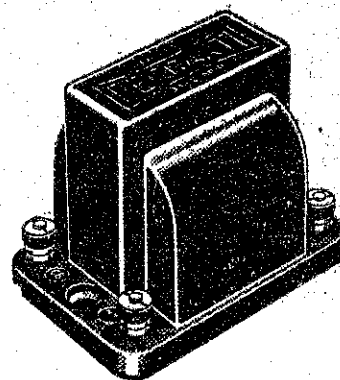
A.: PM16.

2. Which of the following is the true shape of the screening box for the "Kestrel Three"?

A.: "A," with the rear of the set open.

DX56HB (Hastings): What number of turns are required for broadcast coils of the "Kestrel Three," using 1½in. former, 28 enamelled wire, and .0001 condensers?

A.: You will require two coils, one with 170 turns of 30 gauge enamelled wire and the other with 250 turns of the same gauge enamelled wire. It is not a prac-



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Model

Name

Address

Nom de plume

To be kept in subsequent inquiries

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.
- (4) Limit three questions unless 1/- is enclosed.
- (5) Postal queries limit three questions. Enclose stamped envelope and 1/- fee.

licable proposition to make broadcast coils on such a small former and with such a small condenser. It is far better to use a larger condenser and have in series with it for shortwave, a fixed condenser, such as was recently described for the "Kestrel Three." Full particulars of all coils were published in "Questions and Answers" in radio.

"A BERDONIAN" (Wellington): I have built a three-valve short-wave set taken from the "Radio Guide," 1929, and am using a pentode which requires a lot of current. What other would be suitable?

A.: In the Osram series, PT2.

2. Can I have wound suitable coils for broadcast fitted into valve bases?

A.: Yes. Use valve base extension coils, wind on 180 turns of 30 gauge enamelled wire for the secondaries, and for the tickler 60 turns of the same gauge.

2. I have been told that by having my 30 ampere hour battery rebuilt into an 80 amp. hour battery that four-volt valves will have to be replaced by six volts. Is this so?

A.: Not unless the voltage is changed. Increasing the capacity does not affect the valves in any way.

"NORTHERNER" (Ngāio).—I cannot separate 2YA and 2ZW. I intend to incorporate a band-pass filter to the "Radiogram Five." Is my sketch correct?

A.: For a capacity coupled band-pass filter your sketch is correct, except that you have connected the bottom end of the first tuning coil with earth. This spoils the band-pass effect. A better band-pass filter would be such as described for the "Link Three" in this month's "Radio Times," which we strongly advise you to consult. The coils really need shielding

each with a can, the diameter of which should be twice the diameter of the coils.

2. Would it be advisable to shield each variable condenser?

A.: Such is preferable for best results.

"A DAPTER" (Hastings).—I cannot get the "Sparrow Hawk" adapter described in the "Radio Guide" to work on a five-valve battery set.

A.: Try reversing the connections to the tickler coil, i.e., "C" and filament. Try the effect of a midgeet condenser in series with the aerial. Lastly, wind extra turns on the tickler coil. The reaction coil is rather small, and you require a large number of turns.

"BUNG" (Arohina): I am using the "Outspan Five," having used 2in. coils in place of the 1½, but I cannot get the set out of oscillation. The trimming condenser also acts as a reaction condenser. The coil is situated over the top of the grid leak and very close to the detector valve.

A.: If you are using 2in. coils, the diameter of the shield cans should be 4 inches, and it would have been better had you used the size stipulated. You have evidently far too many turns on the detector valve. Is each stage properly decoupled, e.g., either a resistance or a choke and by-pass condenser used in the lead, particularly in the screen-grid lead. Examine the method of decoupling used in the "Link Three" in this month's "Radio Times" and you will get some idea of the method of breaking a resistance and using a by-pass condenser. A different r.f. choke may also make the set more workable. It is unlikely that the grid leak is in any way affecting the set.

2DX (Auckland): What information must I supply when applying for Q.S.L. cards?

A.: A typical report is made out in this month's "Radio Times."

2. In estimating the type of set with respect to the valves, is the rectifier included as a valve?

A.: In modern terminology it is usual to include the rectifier, and we think in replying to most stations if you did this they would understand.

"XMITTER" (Marton): In what issue is the description of the broadcast coils of the "Night Owl Three"?

A.: December 18, 1931.

2. Is it a good receiver for an amateur transmitter to use for the reception of shortwave amateurs?

A.: An excellent receiver.

Would a stage of screen grid ahead of the detector make the circuit more efficient?—Yes, but the three-valve set should be all you need to start with.

25MC (Picton): I cannot get Dunedin, as my set will not tune as low as that.

A.: To bring in Dunedin shunt a .0001 condenser across your main tuning condensers. It will be necessary to have one across each condenser.

J.C. (Dunedin).—Will the powerpack in the 1931 "Radio Guide" be suitable for the a.c. "Super Six," using three 227's, two 224's, and one 247 output?

A.: Yes, if you have sufficient heater windings to supply all these currents. You will need three separate windings of 18-gauge wire.

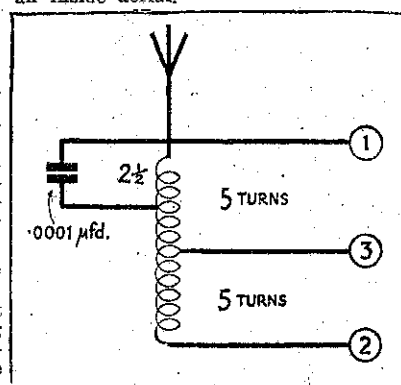
2. Where can I obtain a circuit of the a.c. "Super Six"?

A.: We have not brought out the a.c. version of this, and cannot supply one.

3. Would an output filter do instead of the output transformer for the pentode?

A.: Yes, providing the filter is tapped to match the valve. The correspondent adds: "I have had the battery operated 'Super Six' for about seven months now, and everyone is delighted with it, as it has given every satisfaction both on the medium and shortwaves. Now, I wish to build an a.c. 'Super Six.' I find that a shortwave coupling coil works much better than a small frame aerial, and I have given a diagram of same if you wish to send it to any of your readers. Specifications are for a 2½in. former, 5 turns

from 1 to 3, 5 turns from 3—2, 22 d.c.e. with a .0001 condenser between 1 and half-way up to 3, with 4 feet of wire for an inside aerial.



World Radio News

IN 1931 excellent progress was made in Canadian radio and, according to the latest figures, 40,000 new licenses were issued. During the year production of sets was 70 per cent above that of the preceding year and sales increased by 25 per cent. Owing to the change-over to a.c. operated receivers the sales totalled about 286,000 sets.

AT the end of April this year there were over 1,100,000 receivers in operation in Japan, where the license fee approximates 1/- per month. During the month of April permits were approved for 58,951 sets.

A FRENCH invention that will mark an epoch is an automatic radio. The transmission of messages is made by turning knobs to indicate positions on the dials, which have the letters of the alphabet and numbers inscribed on them. The apparatus is portable and may be incorporated in aeroplanes, motor-cars, launches, army posts and other such places. For submarines it may be attached to a buoy and set in operation, sending out an automatic S O S signal continuously. It can be set in operation merely by pressing a switch in the submarine, and should be of great value should that craft come to grief under the surface.

THE British Standards Institute has produced a set of wireless wiring symbols for architects and contractors. One symbol naturally indicates "Loud-speaker Outlet," which intrigues the home-builder as much as any creation of the architect.



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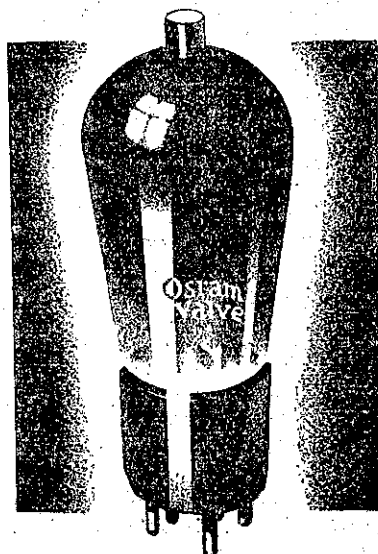
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News and Views of the DX Club

DX Club Meetings

CHRISTCHURCH BRANCH.

At the Radio Society's Rooms (Tisdall's Buildings), 91 Cashel Street, on Wednesday, September 14, at 7.45 p.m.—E. M. Watson (district secretary).

WANGANUI BRANCH.

At the Secretary's residence, 29 Ballance Street, Aramoho, on Wednesday, September 14, at 7.45 p.m.—L. C. Armstrong (district secretary).

POVERTY BAY BRANCH.

At the Secretary's residence, 151 Gladstone Road, Gisborne, at 8 p.m. on Monday, September 5.—G. H. Stewart (district secretary).

NELSON BRANCH.

At the Drill Hall, Harley Street, on Friday, September 9, at 7.45 p.m.—W. J. Welsh (district secretary).

Answers to Correspondents

14A. (Arohana), whose new address is c/o Public Works, No. 3 Camp, Arohana, would like to correspond with other dxers.

J.L.L. Tuakau: HSPI, Bangkok, on 856 k.c. (350m.), as well as several Chinese stations, are picked up regularly in this country. Full particulars of these appear in the "N.Z. Radio Call Book." Watch "DX Topics" for further information. Two South African stations which have been reported are: ZTC, Cape Town, 810 k.c. (370m.), and XTD, Durban, 730 k.c. (410m.). The DX Competition winner's log is published in the September "Radio Times."

"Red Bird" (Wellington): Many thanks.

R.R. (Timaru): By the rules of the DX Competition, no verifications of chain station programmes are accepted.

Identification Wanted

American heard at 6 p.m. on August 17, at R6 on about 803m. (990 k.c.). Call sounded like WVZ, Boston.—14A. (Arohana).

What is the name of the theme tune played by Phil Harris's orchestra at the beginning and end of their dance session each night from the Ambassador's Hotel, San Francisco, and relayed by KFI? I have never heard the name correctly, although it sounds like "Rose Bloom."—"Interested" (Wellington).

Four Japanese stations on 850 k.c. (508m.); 680 k.c. (441m.); and 780 k.c. (384m.). Also an American on 770 k.c. (389m.). "City of the Plains" was heard at 5.30 p.m. Also a station of 620 k.c. (484m.) heard at 10.30 p.m. on August 22, broadcasting news, and on a concert programme at 1.30 a.m. I think it is the Manila station. Bangkok was mentioned.—J.L.L. (Tuakau).

Some dxers give XGY as being on 306m. (980k.c.), but my call book gives it as 335m. (895 k.c.). Which is correct?—"Digger" (Hamilton).

Station on 1500 k.c. (200m.), heard at 9.30 a.m. on August 16, counting from 1—4 repeatedly.—37NW.

Station heard at R4-5 on August 23 on approx. 1400 k.c. (214m.). Items heard: "Good-night Melody." "Farewell to Thee." Announcer remarked programme was by courtesy of the U.S.A. Royal Navy. Closing item was then played,

followed by "God Save the King." Also another station on 770 k.c. (389m.) approx., heard on the same date at R7 with slight fading, from 1.12 a.m. to 3.14 a.m. Dance music with occasional foreign items was heard, but no announcements were made during the whole two hours. Also another station on 1120 k.c. approx. (268m.), heard several mornings lately. Dance music was heard from 1.44 a.m. until 2.10 a.m., when he went off the air, but at 2.18 a.m. he came back with "I am Guilty of Loving You." This was the item he was playing previous to going off.—"Fireside" (Dunedin).

Stations Identified

"Radio" (Wellington): Station on 680 k.c. (441 m.) is probably COHB, Harbin, China. I have heard them playing English dance records several times, but would not definitely say it was COHB. The announcer is not Japanese, and music is more Chinese than otherwise. 138W: Your American is KTM, and you will find that he is on JOPK's frequency, not JOHK. The ripple is due to the heterodyne with JOPK. W.M.: Station on 620 k.c. (484 m.) is KZRM (K-Zee-RM) and station on 690 k.c. (434 m.) is 6WF. Perth.—"Bulova" (Timaru).

26HB: JOHK on 770 kc.: this station tests at irregular periods, and can be heard in the early morning here. "Radio" (Wellington): First station is JOHK, on 680 kc.; second is JOHK (see above). "138W" (Wellington): Either KTM or KELW, on 780 kc. The ripple can be heard in this district too. "W.M." (Hikurangi): First is JOHK, on 770 kc.—"Omsk" (Whakatane).

DX Topics

A Curious Phenomenon.

WHILE lying in bed at 11 p.m. on August 22 I heard a crash on the roof. Thinking the aerial was down, I tuned in (the set is lying along my bed) and, to my surprise, 2FC came in very well, so I came to the conclusion that it must have been only one of the guys. Next morning at 7.15 a.m. I tuned in 2ZW and 2ZP, both at good strength. At about 7.30 my wife went out to investigate and, to her surprise, the aerial had broken in half. The lead-in was sprawled on the roof and the loose end, without

insulator, was lying on the ground. She knotted this to a fig-tree with a piece of rope, using no insulator. It was about four feet high, but the stations came in as good as ever with the exception that I have to put on more voltage. Can any dxer explain this?—"Digger" (Hamilton).

[Do you mean filament or plate voltage needs to be increased? A slight increase in the former, if normally the valves are being run under their rated filament voltages, would result in a marked increase in strength. A slight increase will be noticed by an increase of plate voltage. Do you find you have to advance the volume control more?—Ed.]

KERN Once KSNR.

KERN, Bakersfield, 1200 k.c. (250 m.), mentioned in this week's issue, is the old KSNR, and is affiliated with Don Lee, Inc. They are on the air till midnight, P.S.T. KMCS, Inglewood, has changed to KRKD, Los Angeles, 1120 k.c. (268 m.), and they issue a particularly fine stamp.

Nova Scotian Station Logged.

VAS, Glace Bay, Nova Scotia, makes excellent dxing. This station is owned by the Canadian Marconi Company. According to a verification received, they are on the air only as a radiophone station at 1 p.m. and 4 a.m., E.S.T., the latter being the time I picked them up on 685 k.c. (438 m.). The carrier power is 4 k.w., with 95 per cent. modulation. The officer in charge states: "We would greatly appreciate hearing from you again, or any of your friends from down under." "Omsk" (Whakatane): There is no NKS, Shanghai.—J.P.C. (P.N.).

On the Short-wave Band.

VE9JR, Winnipeg, Canada, on 25.6 m., is heard here regularly on Tuesdays from 2.30 to 3.30 p.m., N.Z.T. Their schedule is: Monday, 4 a.m.-5.30 a.m.; Tuesday, 4 a.m. to 3.30 p.m.; Wednesday and Thursday, 4 a.m. to 1 p.m.; Friday and Saturday, 4 a.m. to 3.30 p.m.; Sunday, silent (all N.Z. time). This is the old CJRK, well-known among dxers several years ago. A station whose call sounded like "Radio Scarrbeer" (Radio Sourabaya, Java, I presume), operating on 58.5 m., every morning from midnight till 2 a.m., has been heard at R6, Q.S.A. 3, very clearly. English music and vocal items are generally heard. Also a station on 45 m. from 12.30 a.m. till 2.30 a.m. During this period, the station goes off the air for short intervals. The announcer is a woman. Just before closing down at 2.30 a.m., a ticking was heard for a few minutes, followed by two long spaced dashes and a dot—no doubt a time signal. Station sounded Russian. Strength R8, QSA 5. Also an American on 49.8 m. is heard every day, closing down at 3.30 p.m., N.S.T. The carrier has a heavy ripple, not unlike a beam. An announcement, "W—R. New York, operating on —5 kc." was heard. Strength at best R2-3, QSA 2, with a strong hum. I have heard this station during the past two months. VE9GW, Canada, was heard at 3.30 p.m. on July 21 testing, on 49.96 m. Reception was R4, QSA 3. Numerous "hams" can be heard on phone on 20 metres in the afternoon—mostly Americans. Station KET, on about 31.5 m., was heard on August 12 on phones, on the occasion of a public address by President Hoover. 2XAF, 1XAZ, and 8XK were also relaying this.

Stations heard during July and August: —W2XAF, W1XAZ, W8XK (25 and 48 m.), W9XF, W8XAL, New York (49.7 m.), Radio Sourabaya, Java, DID, KET, ISX, KKW, EAQ, W6CIN, W7YH, 12RO, 5SW, Radio Colonial, Moscow (50 m.), REN, RV15, Zeesen, PRVA, CTIAA, OXY, Radio Maroc, VE9GW, VE9JR, W2XAD, VK2ME, 3ME, PLAA, a Japanese on 31 metres, a French station on 19.5 m. (Radio Colonial?), also a stranger on 50 metres heard regularly. He closes down at about 4.30 p.m. My set is a two-valve, detector and one audio.—ZL202 (Wellington).

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Programmes for Week ending Septem. 11

1YA AUCKLAND 902 kc.
Sunday 4.

2.0: Selected recordings.
6.0: Children's service.
7.0: Relay of service from St. Matthew's Church. Preacher, Rev. C. H. Grant Cowen. Organist and Choirmaster, J. H. Philpott.
8.30: 1YA Chamber Orchestra, "Norwegian Rustic March" (Grieg).
Overture, "Carnival" Overture (Mouton).
Contralto, Madame Irene Ainsley, "Ombra Mai Fu" (Handel).
Recording (Harp), Sidonie Goossens, "Whirlwind" (Salzedo).
Tenor, Roger Errington, "The Last Song" (Rogers); "The Song of the Palanquin Bearers" (Shaw).
The Orchestra, "Tales of Hoffman" (Offenbach).
Weather forecast and notices.
Recording (Piano), Ignaz Friedman "Old Vienna" (Schubert).
Contralto, Madame Irene Ainsley, "The Sea Wreck" (Harty); "Knowest Thou the Land?" (Thomas).
The Orchestra, "Peer Gynt" (Grieg).
Recording (Cello), Pablo Casals, "Flight of the Bumble Bee" (Rimsky-Korsakov).
Tenor, Roger Errington, "Once Again" (Sullivan); "When Through the Piazetta" (Mendelssohn).
The Orchestra, "Dance of the Hours" (Ponchielli).
Recording, Don Cossacks Choir, "Barynja"; "Dance Song" (both arr. Do-brown).
Selection, The Orchestra, "Tunelandia" (Lodge).

2YA WELLINGTON 720 kc.
Sunday 4.

2.0: to 4.30: Selected recordings.
6.0: Children's service by Uncle George, assisted by children's choir from Vivian Street Baptist Church.
7.0: Relay of evening service from Vivian Street Church of Christ. Preacher,

1YA AUCKLAND 902 kc.
Monday 5.

10.0: Devotional service.
10.15: Selected recordings.
12.0: Lunch music.
2.0: Selected recordings.
5.0: Children's hour.

Dinner Music.

6.0: Berlin State Opera House Orchestra, "The Beautiful Galatea" Overture (Offenbach). Paul Whiteman and His Concert Orchestra, "Coprice Futuristic" (Malneck). Heerman Trio, "Pierrette" (Chaminade). B.B.C. Wireless Symphony Orchestra, "Il Trovatore" Selection (Verdi).
6.20: J. H. Squire Celeste Octet, "Memories of Devon" Valse (Evans). Peter Biljos Balalaika Orchestra, "The Wide Dnieper" (Ukrainian Medley). Classic Symphony Orchestra, "Classic Memories" (arr. Ewing). Bohemian Orchestra, "Love and Life in Vienna" (Komzak, arr. Renard).
6.30: Heerman Trio, "Dalvisa" (San-dy). B.B.C. Wireless Symphony Orchestra, "La Boutique Fantastique" Selection (Respighi, arr. Carr).
6.47: J. H. Squire Celeste Octet, "Collette" Valse (Fraser-Simson). H.M.

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

Silent Days this Week

3YA, Tuesday. 4YA, Thursday.

Sunday

Church Services: 1YA, 7.0 p.m. St. Matthew's Church. Preacher, Rev. C. H. Grant Cowen.

2YA, 7.0 p.m. Church of Christ, Vivian Street. Preacher, Pastor W. R. Hibbert.

3YA, 7.0 p.m. Salvation Army Citadel, Victoria Square. Speaker, Ensign Neave.

4YA, 6.30 p.m. Church of Christ, St. Andrew's Street. Pastor W. D. More.

Features: 1YA, Madame Irene Ainsley (contralto), Rodger Errington (tenor) and the 1YA Chamber Orchestra.

2YA, Relay of concert by the Royal Naval Volunteer Reserve Band from De Luxe Theatre.

3YA, Relay of programme from 4YA, Dunedin.

4YA, Signor Martinelli Reggiardo's Instrumental Sextet: Mr. J. J. Devereux and the Stella Musicale (concerted vocal).

Pastor W. R. Hibbert (Chairman of Young People's Work). Organist, Robert H. Coombe.

Concert Programme. (Relayed by 2ZD, Masterton.)

8.15: Relay of concert by Royal Naval Volunteer Reserve Band from De Luxe Theatre (Conductor, Harry Baker).

3YA CHRISTCHURCH 980 kc.
Sunday 4.

2.0: Selected recordings.
5.30: Children's song service by the Salvation Army Young Brigade.
6.15: Musical chimes from the studio.
6.30: Selected recordings.
7.0: Relay of meeting from the Salvation Army "Citadel," Victoria Square.

Speaker, Ensign Neave.

8.15: Relay of programme from 4YA, Dunedin.

4YA DUNEDIN 550 kc.
Sunday 4.

2.0: Selected recordings.
5.30: Children, by Big Brother Bill.
6.15: Selected recordings.
6.30: Relay of evening service from St. Andrew Street Church of Christ. Preacher, Pastor W. D. More. Choirmaster, W. H. McKenzie. Organist, Miss V. Stokes.
7.45: Selected recordings.
8.15: Band of H. M. Coldstream Guards, "Les Cloches de Corneville" (Planquette).

8.22: Baritone, Thomas Kennedy, "For Thine Own Sake" (Barnard); "Bon Jour, Suzon" (d'Hardelet).

8.29: Signora Martinelli-Reggiardo's Sextet, "Rebel Maid" Dances (Phillips).

8.39: Mezzo-soprano, Valerie Elliott, "Far, Far Away" (Thomas); "Caro Mio Ben" (Giordani).

8.46: The Sextet, "Santiago" (Norman).

8.51: Tenor, Signor Giovanni Stella, "Elegie" (Massenet).

8.56: Recording (Cornet), Jack Mackintosh, "Carnival de Venise" (Arban); "Zelda" (Code).

9.0: Weather report and notices.

9.2: Recording, National Military Band, "Ballet Egyptien" (Luigini).

9.9: Soprano, Miss Clara Dillon, "L'Ete" (Chaminade); "To a Wild Rose" (McDowell).

9.17: The Sextet, "The Rose's Honey-moon" (Bruton); "Dreams of Home" (Englemann).

9.25: Baritone and Chorus, J. J. Devereux and the Stella Musicale, "The Toreador" (Bizet).

9.30: Recording (Piano), Mark Hambourg, "Hark, Hark, the Lark" (Schubert); "Jardins Sous la Pluie" (Debussy).

9.36: Contralto, Mrs. Edward Stone, "Dreams of Long Ago" (Nicholls); "If Winter Comes" (Gideon).

9.42: The Sextet, "Romance of a Rose" (O'Connor); "Gipsy's Wooing" (Trinka).

9.50: Tenor and Chorus, Signor Stella and Stella Musicale, "Gloria" (Buzzipecchia).

9.56: Recording, Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitomo).

2YB NEW PLYMOUTH 1230 kc.
Sunday 4.

6.0 to 6.45: Children's Sunday evening session, conducted by Uncle Jonathan.
7.0 to 8.15: Church relay.
8.15 to 10.0: Studio concert.

2YA WELLINGTON 720 kc.
Monday 5.

10.0: Selected recordings.
10.30: Devotional service.
11.12: Lecturette, "Cooking."
11.27: Lecturette, "Health Hints or First Aid."
12.0: Lunch music.
2.0: Selected recordings.
3.30 and 4.30: Sports results.
5.0: Children, by Uncle Jeff.

Dinner Music.

6.0: Berlin State Opera House Orchestra, "The Beautiful Galatea" Overture (Suppe, arr. Artok) San Francisco Symphony Orchestra, "Rosamunde-Rat-act" (Schubert). De Groot Trio, "Paraphrase of Strauss Waltzes" (arr. de Groot).

6.17: Jack Hylton and His Orchestra, "More Melodious Memories" (Finck). J. H. Squire Celeste Octet, "Minuet Sicilienne" (Squire-Hart). London Symphony Orchestra, "Korominskaya" (Glinka).

6.24: Organ, Jesse Crawford, "La Borachita" (Fernandez-Esperon). Musical Art Quartet, "Serenade" (Herbert). J.

Monday

Evening Talks: Agricultural Talk, "Seasonal Notes"—Mr. Woodyear Smith. 1YA, 7.30 p.m.

"Economics of Rural Roads"—Mr. H. F. Toogood. 2YA, 7.40 p.m.

"Social Life in Greece. Status of Women Slavery"—Dr. H. D. Broadhead (W.E.A. session). 3YA, 7.30 p.m.

"Motor Regulations"—Mr. J. L. Passmore, president Otago Motor Club. 4YA, 7.40 p.m.

"The Depression of the Eighties, and After" (2nd of series)—Dr. W. Boroman. 4YA, 9.2 p.m.

Features: 1YA, Relay of final demonstration of United Christian Witness, from Town Hall.

2YA, 2YA Concert Orchestra and Wellington Chamber Music Players. Assisting artists: Molly Atkinson, mezzo-soprano, and W. B. Brough, baritone.

3YA, Woolston Brass Band. Lyric Instrumental Trio. James Laurenson in humorous numbers.

4YA, Selected recordings.

Coldstream Guards Band, "La Fille de Smith, "Seasonal Notes" Madame Angot" Selection (Lecocq).

7.0: News and reports.
7.30: Agricultural Talk, Woodyear Hall.

8.0: Relay. Final Demonstration of United Christian Witness, from Town

H. Squire Celeste Octet, "Minuet in D" (Mozart, arr. Willoughby). London Palladium Orchestra, "Selection of Operatic Gems" (arr. Forbes).

6.50: Organ, Jesse Crawford, "I Loved You Then As I Love You Now" (Macdonald-Axt). National Military Band, "Ben Hur" (Byng).

7.0: News and reports.

7.40: Lecturette, H. F. Toogood, Wellington Automobile Club, "Economics of Rural Roads."

Concert Programme.

8.0: Overture, The Orchestra (Conductor, Leon de Mauny), "Athalie" (Mendelssohn).

8.7: Baritone, W. B. Brough, "The Stockrider's Song" (James); "Comrades of Mine" (James).

8.13: Recording (Vocal Quartet), Ritz Quartet, "Medley of Old Ballads."

8.19: Suite, The Orchestra, "Petite Suite" (Debussy): (1) "En Bateau," (2) "Menuett," (3) "Ballet."

8.29: Mezzo-soprano, Molly Atkinson, "On Wings of Song" (Mendelssohn); "Sylvain" (Sinding); "I Love Thee" (Grieg).

8.35: Instrumental Trio, Wellington Chamber Music Players, "Trio in C Minor" (First Movement) (Mendelssohn).

8.43: Recording, Columbia Light Opera Company, "Herman Lohr Vocal Gems" (Lohr).

8.51: Selection, The Orchestra, "La Traviata" (Verdi).

9.0: Weather report and notices.

9.2: Reserved.

9.15: Valse, The Orchestra, "Dreaming" (Joyce).

9.20: Baritone, W. B. Brough, "The Toreador Song" (Bizet); "Harlequin" (Sanderson).

9.26: Recording (Humour), Will Kings, "Bertram on Candidates" (Merry); "Bertram on Hobbies" (Merry).

9.32: Selection, The Orchestra, "Silver Wings" (Waller-Tunbridge).

9.42: Recording, Berna Union Choir, "Nena Mia" (Traditional); "Guarda che Bianca Luna" (Traditional).

9.48: Mezzo-soprano, Molly Atkinson, "Hindoo Song" (Bemberg); "Sing, Break into Song" (Mallinson).

9.54: March, The Orchestra, "Thurderer" (Sousa).

10.0: Dance programme.

3YA CHRISTCHURCH 980 kc
Monday 5.

3.0: Selected recordings.

3.15: Talk, Miss I. McGuinness, M.A., lecturer on Psychology of Canterbury College, under the auspices of the Sunlight League of New Zealand, "The Mental Health of the Child."

4.30: Sports results.

5.0: Children, by "Uncle John."

Dinner Music.

6.0: Berlin State Opera House Orchestra, "Abu Hassan" Overture. The Parlophone Salon Orchestra, "A Lover in Damascus" (Woodforde-Finden). Dajos

Bela Orchestra, "Russian Fantasie" (Lange).

6.15: Dajos Bela Orchestra, "I Pagliacci—Selection" (Leoncavallo). Edith Lorand Orchestra, "Hedgeroses" (Lehar). Ernest Leggett London Octet, "Operatic Fantasia" (arr. Aldington).

6.34: Dajos Bela Orchestra, "The Swallows" Waltz (Strauss). La Argentina, Castanets, with Orchestra, "Dance No. 5" (Granados). Dajos Bela Orchestra, "Fantasie Orientale" (Lange). "Viennese Waltz Potpourri" (Parts 3 and 4) (arr. Robrecht). La Argentina, Castanets with Orchestra, "La Corrida" (The Bull Fight) (Valverde).

6.55: Edith Lorand Orchestra, "O Maiden, My Maiden" (Lehar).

7.0: News and reports.

7.30: W.E.A. Session: Dr. H. D. Broadhead, "Social Life in Greece—Status of Women—Slavery."

Concert Programme.

8.0: March, Woolston Brass Band (Conductor, R. J. Estall), "Washington City" (Gumar). Overture, "Cosi Fan Tutti" (Mozart).

8.11: Soprano, Mrs. E. Cameron, "Love's Whispers" (Willeby); "A Little Pink Rose" (Jacobs-Bond).

8.17: Instrumental, The Lyric Trio, Trio, "Sally" (Haines); "Trees" (Towers).

8.25: Humour, James Laurenson, "Robinson Minor's Opinion of English History" (Lonsdale).

8.30: The Band, "Heart's Delight" (Ancliffe).

8.34: Recording, Vocal Quintet, Comedy Harmonists, "Over the Blue" (Heymann).

8.37: The Lyric Trio, "Hungarian Dance No. 1" (Brahms); "Waiata Poi" (Hill).

8.44: Bass-baritone, W. H. Inkster, "The Link Divine" (Picolomini); "Vale" (Kennedy-Russell).

8.48: Recording (Organ), Edward O'Henry, "Dream Lover" (Schertzing).

8.51: Recording (Tenor), Alfred O'Shea, "At the Mid Hour of Night" (Cowen).

8.55: Trombone March, The Band, "Posaunne" (Ord Hume).

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: Humoresque, The Band, "Old King Cole" (Campbell).

9.23: Soprano, Mrs. E. Cameron, "The Bells of Twilight" (Dorothy Forster); "The Hallowed Hour" (Haydn Wood).

9.28: Instrumental, The Lyric Trio, "In An Old World Garden" (Pepper); "Delicious" (Gershwin).

9.36: Humorous Lecture, James Laurenson, "The Face" (Robey).

9.41: Recording (Piano), Beryl Newell, "The Little Alabama Coon" (Starr).

9.44: Grand March, The Band, "Tannhauser" (Wagner).

9.49: Bass-baritone, W. H. Inkster, "My Task" (Ashford); "Plymouth Hoe" (Lady Leonard).

9.53: The Band, "A Keltic Lament" (Foulds). March, "The President" (Ord Hume).

Dinner Music.

6.0: Plaza Theatre Orchestra, "A Musical Switch—Humoresque" (arr. Alford). The Salon Orchestra, "Serenade" (Schubert).

6.14: Marek Weber and His Orchestra, "From Mozart's Treasure Trove" Fantasia (Urbach). The International Concert Orchestra, "Love and Spring" Waltz (Waldteufel). The Regimental Band of H.M. Grenadier Guards, "Parade of the Elephants" (Chenette).

6.29: London Symphony Orchestra, "Czar Sultan" Suite, No. 3 (Rimsky-Korsakov). Zonophone Salon Orchestra, "In the Shadows" (Finck). Marek Weber and His Orchestra, "La Tosca" Pot-pourri (Puccini, arr. Tavan).

6.48: Orchestra Mascotte, "The Gipsy Princess" Waltz (Kalman). Zonophone Salon Orchestra, "Sweet Adeline" (Armstrong). Pavilion Lescart Orchestra, "I Drive Out in My Little Limousine" (Cowler).

7.0: News and reports.

7.40: Talk, J. L. Passmore, President Otago Motor Club, "Motor Regulations."

Concert Programme.

8.0: Selection, Debroy Somers Band, "Ivan Caryll Memories" (Caryll); "Paul Rubens Memories" (Rubens).

8.8: Sketch, The Roosters Concert Party, "Tommy's Little Day" (Merriman).

8.16: Selections, Orchestra Mascotte, "Liebesfreund"; "Liebeslied" (both by Kreisler).

8.22: Soprano, Gladys Moneriff, "Gipsy Charmer" (Clarke); "Over the Wall of My Garden" (Bruno).

8.28: Piano Duo, Fairchild and Rainger, "Follow Through" (de Sylva).

8.34: Humour, Gracie Fields, "Obadiah's Mother" (Kennedy).

8.37: Waltz Medley, New Mayfair Orchestra, "Erinalia" (arr. Somers).

8.43: Baritone, Lawrence Tibbett, "Life is a Dream" (Strauss); "Without a Song" (Youmans).

8.49: Overture, The B.B.C. Wireless Military Band, "Jolly Robbers" (Suppe).

8.57: Duet, Layton and Johnstone, "Home" (Clarkson).

9.0: Weather report and notices.

9.2: Talk, Dr. Walter Boroman, "The Depression of the 'Eighties, and After" (Second of Series).

9.17: Selection, Gil Dech and His Orchestra, "Children of Dreams" (Romberg).

9.23: Piano, Master Wilfred Wordon, "Fantasie Impromptu" (Chopin); "Study in C Minor" (Chopin).

9.29: Contralto, Sigrid Onegin, "The Blind Ploughman" (Clarke); "The Fairy Piper" (Brewer).

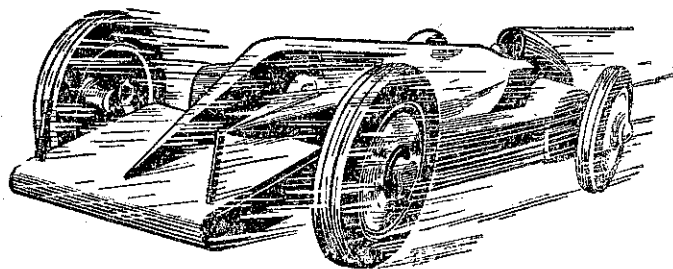
9.34: Humour, Alexander and Mose, "In Dark Subjects" (Bennett).

9.40: Popular Melodies, The Masqueraders Dance Band, "The King was in the Counting-house" (Ewing); "Sailin' on the Robert E. Lee" (West).

9.46: Violin, Mischa Elman, "Souvenir" (Drda).

9.49: Bass, Foster Richardson, "A Soldier's Song" (Mascheroni); "Queen of My Heart" (Cellier).

9.55: Selection, Debroy Somers Band, "Lionel Monckton Memories" (Monckton).



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4YA DUNEDIN 550 kc
Monday 5.

3.0: Selected recordings.
4.30: Sports results.
5.0: Children, by Uncle Jack.

2YB NEW PLYMOUTH 1230 kc
Monday 5.

7.0 to 8.0: Family session, conducted by Uncles Joe and Ted.
8.0 to 10.0: Studio concert.

IYA AUCKLAND 902 kc
Tuesday 6.

10.0: Devotional service.
10.15: Selected recordings.
11.0: Talk, Dr. Garfield Stewart, "Health."
11.15: Selected recordings.
12.0: Lunch music.
2.0: Selected recordings.
5.0: Children, by "Uncle Dave."

Dinner Music.

6.0: Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes). New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowsky). John Barbirolli's Chamber Orchestra, "A Little Night Music—Serenade" (Mozart).

6.24: Royal Opera Orchestra, "The Sleeping Beauty—Panorama" (Tschai-kowsky). Marek Weber and His Orchestra, "Tales of Autumn (Pomona)" Waltz (Waldteufel). "The Beggar Student" Selection (Millocker). New Light Symphony Orchestra, "Spanish Serenade" (Bizet).

6.42: Marek Weber and His Orchestra, "Faust—Selection" (Gounod, arr.

Tuesday

Evening Talks: "The Romance of Short Wave Radio"—Mr. T. R. Clarkson (ZLISQ). IYA, 7.30 p.m.

"Impressions of Switzerland"—Prof. R. M. Algie. IYA, 9.3 p.m.
Agricultural Talk, "For the Man on the Land," representative of Agricultural Department. 2YA, 7.40 p.m.

"Famous British Trials—Madeleine Smith," Mr. C. A. L. Treadwell. 2YA, 9.2 p.m.

Dialogue: "If We Were Dictators"—Mrs. A. Herbert and Mr. R. McIvor (W.E.A. session). 4YA, 7.30 p.m.

Features: IYA. Selected recordings, including Mischa Levitski and the London Symphony Orchestra in Liszt's "Concerto No. 1 in E Flat Major," at 8.27 p.m.

2YA. Frank Crowther's Novelty Orchestra: W. Binet Brown (baritone), Kathleen Bond (contralto).

4YA. Relay from Town Hall of second concert by Dunedin Symphony Orchestra.

Weber). Royal Opera Orchestra, "Shepherd Fennel's Dance" (Balfour Gardiner). Marek Weber and His Orchestra, "Blonde or Brunette—Waltz" (Waldteufel).

7.0: News and reports.

7.30: Talk, under the auspices of the N.Z. Amateur Radio Transmitters' Association (Auckland Branch). Speaker, Mr. T. R. Clarkson (ZLISQ). Subject, "The Romance of Short-wave Radio."

Concert Programme.

8.0: Berlin State Opera House Orchestra, "Preciosa" (Weber).

8.9: Male Quartet, The Salisbury Singers, "Round About a Wood (Morley); "Sleep, Gentle Lady" (Bishop).

8.15: Violin, Yelky D'Aranyi, "Bagatelle in D" (Gatty); "Rondino" (Beethoven).

8.21: Descriptive Ballad. Columbia Dramatic Players, "The Village Blacksmith" (Weiss).

8.27: Mischa Levitski and London Symphony Orchestra, "Concerto No. 1 in E Flat Major" (Liszt).

8.43: Soprano, Gladys Moncrieff, "They All Follow Me" (Kerker); "The Purity Brigade."

8.47: Humour, The Two Gilberts, "Yo Ho Ye Lubbbers"; "The Jolly Tanker."

8.53: Berlin State Opera House Orchestra, "From Opera to Opera" (Schechstak).

9.1: Weather forecast and notices.

9.3: Talk, Professor R. M. Algie, "Impressions of Switzerland."

9.25: Yodeling, Ernst Ruckstuhl, "The Red-Haired Swiss"; "Lower Woods" (Krenger).

9.31: Cornet Jack Mackintosh, "Facilita" (Hartmann); "Silver Shower" (Rimmer).

9.37: Baritone, Harold Williams, "Sanctuary" (Hewitt); "O Falmouth is a Fine Town" (Ronald).

9.43: Little Salon Orchestra, "Springtime in the Forest" (Zimmer).

9.49: Sketch, Regal Sketch Company, "Mr. Sparrow Puts Up For Parliament" (Lee).

9.55: Soprano, Lucienne Boyer, "Visions in the Smoke" (Bos).

9.58: Grand Massed Bands, "With Sword and Lance" (Starke).

10.1: Dance programme.

12.0: Lunch music.

2.0: Educational session.

3.0: Selected recordings.

3.30 and 4.30: Sports results.

5.0: Children, by Jumbo.

Dinner Music.

6.0: Herman Finck and His Orchestra, "Melodious Memories," Parts 1 and 2 (arr. Finck). Continental Novelty Orchestra, "Las Lagarteranas" (Foulkes). Sir Henry J. Wood's Symphony Orchestra, "Prelude in C Sharp Minor" (Rachmaninoff, arr. Wood). J. H. Squire Celeste Octet, "The Ant's Anties" (Squire).

6.17: Cordoba Philharmonic Orchestra, "Carnival" (Lucena). Regal Cinema Orchestra, "Viennese Nights"—Waltzes Selection (Romberg). Continental Novelty Orchestra, "Los Claveles de Sevilla" (Guerrero).

6.31: Sir Henry J. Wood's Symphony Orchestra, "Volga Boat Song" (arr. Wood). Cordoba Philharmonic Orchestra, "La Habanera" (Lucena). J. H. Squire Celeste Octet, "The Fly's Courtship" (Squire). The Victor Old Salon Orchestra, "Callirhoe" (Chaminade). Herman Finck and His Orchestra, "Melodious Memories" (arr. Finck). Parts 3 and 4.

7.0: News and reports.

7.40: Lecturette, Representative, Agricultural Department, "For the Man on the Land."

Concert Programme.

(Relayed by 2ZD, Masterton.)

8.0: Recording, Regimental Band of H.M. Grenadier Guards, "Rigoletto" (Verdi).

8.6: Contralto, Kathleen Bond, "The Enchantress" (Haddon); "Not Understood" (Houghton).

8.12: Selection, Frank Crowther's Novelty Orchestra, "The Bing Boys" (Ayer).

8.22: Recording (Humour), Clapham and Dwyer, "Buying a House" (Clapham and Dwyer).

8.28: W. Binet Brown, "Friend for Me" (McCall); "Captain Mac" (Sander-son).

8.34: Recording (Organ), Sandy Macpherson, "Merry Widow" (Lehar). Recording (Male Voices), The Revellers, "Singing a Vagabond Song" (Burton).

8.40: Frank Crowther's Novelty Orchestra, "Liebestraum" (Liszt). Trumpet, Dick Colvin, "When You Come Home" (Squire). Medley, Frank Crowther's Novelty Orchestra, "Favourites of Today" (arr. Crowther).

8.50: Contralto, Kathleen Bond, "Softly Awakes My Heart" (Saint-Saens).

8.54: Recording (Banjo), Joe Brannery, "Eccentric" (Robinson); "Take Your Pick" (Mandell).

9.0: Weather report and notices.

9.2: Lecturette, C. A. L. Treadwell, "Famous British Trials—Madeleine Smith."

9.17: Recording (Humour), The Two Gilberts, "Does a Choo Choo Go Puff Puff?" (Tilsley); "Policeman, Hold My Hand" (Kennedy).

9.23: Gavotte, Frank Crowther's Novelty Orchestra, "Softly Unawares" (Lincke). Xylophone, S. Bernard, "Father of Victory" (Ganne). Piano Improvisation, Frank Crowther, "The Rosary" (Nevin).

9.33: Baritone, W. Binet Brown, "Lighterman Tom" (Squire); "The Recruit" (Longstaffe).

9.39: Recording, Lions Quartet of Seattle, "Vere is Mein Little Dog Gone?" (Traditional); "O Dem Golden Slippers" (Traditional).

9.45: Waltz, Frank Crowther's Novelty Orchestra, "Live, Laugh and Love" (Heymann). Foxtrot, "By the Fireside" (Noble). Rhythmic Paraphrase, "Echoes of Ireland" (arr. Lango).

9.54: Recording, Regimental Band of H.M. Grenadier Guards, "Fighting Strength" (Jordan); "Radio" (Reckling).

10.0: Special broadcast by Wellington Savage Club Orchestra for members of scientific expedition and officers on "Discovery II" (at sea). The orchestra will play two selections.

4YA DUNEDIN 550 kc
Tuesday 6.

3.0: Selected recordings.

4.30: Sports results.

5.0: Children, by Wendy and Aunt Leonore.

Dinner Music.

6.0: Menorah Symphony Orchestra, "Shulamith" Selection (Goldfaden). G. Amers and the Eastbourne Municipal Orchestra, "Second Serenade" (Toselli, arr. Geesl). Zurich Tonhalle Orchestra, "Andante" (Mozart).

6.14: Halle Orchestra, "Rosamunde Ballet Music" (Schubert): (a) "Andantino"; (b) "Allegro Moderato and Andante." Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).

6.30: Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin). Grand Symphony Orchestra, "Midsummer Night's Dream" Scherzo (Mendelssohn). De Groot and His Orchestra, "Tina" (Rubens). Eastbourne Municipal Orchestra, "Tarantelle" (Saint-Saens).

6.45: Zurich Tonhalle Orchestra, "Gavotte from 'Idomeneo'" (Mozart). Menorah Symphony Orchestra, "Bar Kochba"—Selection (Goldfaden). Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).

7.0: News and reports.

7.30: W.E.A. Session: Dialogue, Mrs. A. Herbert and Mr. R. McIvor, "If We Were Dictators."

Concert Programme.

8.0: Relay from Dunedin Town Hall, of Concert by Dunedin Symphony Orchestra (Conductor, Mons. B. L. H. de Rose). Soloists: Miss Mary Pratt, contralto; Mr. C. S. Hawes, baritone.

Overture, "Il Guarany" (Gomez). Selection, "Adagio and Prestissimo from Symphony No. 2 in A Minor" (Saint-Saens).

Four Selections, "Hunting Song" (Tschai-kowsky): "Arioso" (Bach); "Chanson Romanesque" (de Rose); "Invitation to the Waltz" (Weber). Fantasia, "Fantasia from 'the Valkyrie'" (Wagner).

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2YA WELLINGTON 720 kc
Tuesday 6.

10.0: Selected recordings.

10.30: Devotional service.

11.12: Lecturette, "Fabrics and Fashions."

1YA

AUCKLAND 902 kc.
Wednesday 7.

- 10.0: Devotional service.
10.15: Selected recordings.
11.0: "Fashions and Arts and Crafts."
12.0: Lunch music.
2.0: Selected recordings.
5.0: Children, by "Uncle Reg."

Dinner Music.

6.0: Berlin State Opera House Orchestra, "Caliph of Bagdad—Overture" (Boieldieu). Edith Lorand Orchestra, "The Wedding of the Winds" (Hall). New Queen's Hall Orchestra, "Carmen—Entr'actes, Acts 2 and 4" (Bizet). Terence Casey (organ), and de Groot (violin), "Parted" (Tosti).

6.17: Marek Weber and His Orchestra, "Potpourri of Waltzes" (arr. Robrecht). London Novelty Orchestra, "Happy Darkies"—Barn Dance (Godfrey). Band of H.M. Goldstream Guards, "Martha—Selection" (Flotow).

6.36: Edith Lorand Orchestra. "The Merry Widow" Selection (Lehar). London Novelty Orchestra, "The Brooklyn Cake Walk." New Queen's Hall Orchestra, "Carmen—Overture" (Bizet).

6.50: Terence Casey (organ), and de Groot (violin), "Cavatina" (Raff). Edith Lorand Orchestra, "Ever or Never" Waltz (Waldteufel).

7.0: News and reports.

7.30: Talk, W.E.A. Session, by Owen Jensen, L.A.B., "The Glorious Age of British Music—The Triumphs of Oriana."

Concert Programme.

8.0: Selected records.

Wednesday

Evening Talks: "The Glorious Age of British Music—The Triumphs of Oriana"—Mr. Owen Jensen, L.A.B.

(W.E.A. session). 1YA, 7.30 p.m.

"The Care of the Dog"—Mr. P. R. Wingrove. 2YA, 7.30 p.m.

"International Affairs"—Dr. Guy H. Scholefield, O.B.E. 2YA, 9.2 p.m.

"Violet Day"—Mrs. Cecil Wood (Plunket Society). 3YA, 7.20 p.m.

"Travels, Biographies, etc"—Mr. E. J. Bell. 3YA, 7.40 p.m.

"Review of N.Z. Journal of Agriculture"—Mr. L. W. MacCaskill. 4YA, 7.15 p.m.

Features: 1YA, 8 p.m. Selected recordings, followed at 8.30 p.m. by Lillian Quinn Instrumental Trio. Assisting artists: Olive Worger-Thomas (soprano) and Morris T. Schroder (baritone).

2YA. Selected recordings, including portion of Rutland Boughton's "The Immortal Hour," at 8.20 p.m.

3YA. Song recital by Hubert Carter: Bessie Pollard with Orchestra, in Liszt's "Hungarian Fantasia."

4YA. Dunedin Glee Singers: Signor Squarise's String Orchestra.

8.30: The Lillian Quinn Trio, "Prelude" (Massenet); "Gopak" (Moussorgsky).

8.35: Soprano, Olive Worger-Thomas, "A Heart That's Free" (Robyn); "April is a Lady" (Phillips).

8.41: Recording, Berlin State Opera Orchestra, "Rustle of Spring" (Sinding).

8.44: Lillian Quinn Trio, "Andante Cantabile" (Tschalkowsky).

8.49: Baritone, Morris T. Schroder, "The Rosary" (Nevin); "The Great Awakening" (Kramer).

8.55: Violin, Vincent Aspey, "Rondo" (Mozart).

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: Soprano, Olive Worger-Thomas, "Land of Heart's Desire" (Kennedy-Fraser).

9.21: Lillian Quinn Trio, "Liebestraume" (Liszt).

9.27: Baritone, Morris T. Schroder, "My Dreams" (Tosti).

9.31: Dance music.

8.16: Pianoforte, Jeanne-Marie Darre, "Toccata" (Saint-Saens).

8.20: Concerted, Gwen Ffrangcon-Davies, W. Johnstone-Douglas, Bruce Flegg, and Queen's Theatre Chorus, "The Immortal Hour," Parts 3 and 4 (Broughton, arr. Irving).

8.28: Instrumental, De Groot and His Orchestra, "La Violetta" (Padilla).

8.31: Humour, Norman Long, "Going Down" (Frankau); "I Wonder What Made Her Go" (Frankau).

8.37: Organ, Leo Stin, "Berceuse de Jocelyn" (Godard); "Little Quinquin" (Dessousseaux).

8.43: Chas. Prentice and His Orchestra, "Daly's Theatre Waltz Memories" (arr. Prentice).

8.52: Baritone, Harold Williams and Male Quartet, "In a Persian Market" (Ketelbey).

8.56: Four Pianos, "Faust" Waltz (Gounod).

9.0: Weather forecast and notices.

9.2: Lecturette, Dr. Guy H. Scholefield, O.B.E.

9.32: Waltz, Regimental Band of H.M. Grenadier Guards, "The Grenadiers" (Waldteufel).

9.26: Soprano, Emmy Bettendorf, with Chorus, "Melody in F" (Rubinstein).

9.30: Violin, Yovanovitch Bratza, "Carmen Fantasia" (Bizet).

9.33: Concerted, Harry Welchman and Theatre Chorus, "Theatre Memories."

9.44: Hawaiian Novelty, Walter Kolomoku's Honoluluans, "Aloha Oe" (Liliuokalani).

9.48: Humour, Leslie Holmes, "Ask Me Another" (Henderson).

9.54: Grand Processional March, Regimental Band of H.M. Grenadier Guards, "Silver Trumpets" (Viviani).

2YA WELLINGTON 720 kc.
Wednesday 7.

10.0: Selected recordings.
10.30: Devotional service.
11.37: Lecturette, "Hollywood Affairs."

12.0: Lunch music.

2.0: Selected recordings.

3.8: Lecturette, Mrs. C. Long, "Bridge—Contract and Auction."

3.30 and 4.30: Sports results.

5.0: Children, by Aunt Molly.

Dinner Music.

6.0: National Symphony Orchestra, "Light Cavalry" Overture (Suppe). The International Concert Orchestra, "Spring, Beautiful Spring" Waltz (Lincke). Zonophone Salon Orchestra, "Killarney" (Balfe).

6.15: H.M. Goldstream Guards Band, "Wedding of the Rose" (Jessel). New Light Symphony Orchestra, "Peer Gynt" Suite, No. 2 Op. 55 (Grieg): (a) "Arabian Dance," (b) "The Return of Peer Gynt," (c) "Solveig's Song." International Concert Orchestra, "Over the Waves" Waltz (Rosas).

6.32: Dajos Bela Orchestra, "The Countess Maritza" Pot-pourri (Kalman). Kiriloff's Russian Balalaika Orchestra, "Shining Moon" (Russian Folk Song). De Groot and His Orchestra, "Under the Roofs of Paris" (Moretti).

6.46: Zonophone Salon Orchestra, "Old Rustic Bridge" (Skelly). Charles Ancliffe and His Orchestra, "Ancliffe Waltzes" (Ancliffe).

7.0: News and reports.

7.30: Lecturette, P. R. Wingrove, "The Care of the Dog."

Concert Programme.

8.2: Overture, Debroy Somers Band, "Rhapsodiana" (arr. Somers).

8.10: Baritone, Raymond Newell, "English Maids" (Messenger); "Red Rose" ("Monsieur Beaucaire").

3YA CHRISTCHURCH 980 kc.
Wednesday 7.

3.0: Selected recordings.
4.30: Sports results
5.0: Children, by "Cousin Beatrice."

Dinner Music.

6.0: Minneapolis Symphony Orchestra, "March Militaire" (Schubert). Pavilion Lescant Orchestra, "Pan and the Wood Goblins" (Rothke). A. and P. Gipsies Orchestra, "Herbertiana" (Stone). Brunswick Concert Orchestra, "A Thousand Kisses" Waltz (Joyce). Anglo-Persians' Orchestra, "My Little Persian Rose" (Friedland).

6.16: Minneapolis Symphony Orchestra, "Coppelia Ballet—Prelude and Mazurka" (Delibes). Dajos Bela Orchestra, "Delirien" Waltz (Strauss). Minneapolis Symphony Orchestra, "Prelude to Khovantchina" (Rimsky-Korsakov). Grand Symphony Orchestra, "Dance of the Waves" (Catalani).

6.36: Pavilion Lescant Orchestra, "Clog Dance" (Petras). A. and P. Gipsies Orchestra, "White Acacia; "Perle Causerie" (Stone). Brunswick Salon Orchestra, "Love Everlasting Waltz" (Friml); "Little Grey Home in the West" (Lohr).

6.52: Minneapolis Symphony Orchestra, "Dernier Sommeil de la Vierge" (The Virgin's Last Sleep) (Massenet). Dajos Bela Orchestra, "Count of Luxembourg" Waltz (Lehar).

7.0: News and reports.

7.20: Talk, Mrs. Cecil Wood, under auspices of Plunket Society, "Violet Day."

7.30: Addington Stock Market Reports.

7.40: Talk, E. J. Bell, Librarian, Public Library, "Travels, Biographies, etc."

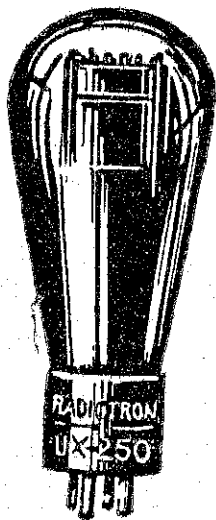
Concert Programme.

8.0: Studio Orchestra (Conductor, Harold Beck), "Fidelio" (Beethoven).

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8.6: Tenor Song Recital, Hubert Carter, "Come, Let's be Merry" (arr. Wilson); "Have You Seen but a White Lily Grow?" (Old English); "I Attempt from Love's Sickness to Fly" (Purcell); "The Lass with the Delicate Air" (Arne); "Yarmouth Fair" (Warlock); "Lord Randal" (arr. Scott).

8.20: Studio Orchestra, "Minuet all Antico" (Karganoff); "Northern Song" (Schumann); "Spanish Serenade" (Bizet).

8.27: Recording (Contralto), Muriel Brunskill, "Sea Wrack" (Harty).

8.31: Piano Recital, Bessie Pollard, with Studio Orchestra, "Hungarian Fantasia" (Liszt).

8.45: Tenor Song Recital, Hubert Carter, Serenade, "Shall I Tell Thee the Name of Thy Lover?" (Rossini); "Siegmund's Love Song" (Wagner); "Le Reve de des Grioux" (Massenet); "E Lucevan le Stelle" (Puccini); "Desolation de Werther" (Massenet).

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: 'Cello, Gregor Piatigorsky, "Scherzo" (Feltzer).

9.20: Studio Orchestra, "A Mediterranean Cruise" (Jalowiec); (a) "Malaga" (Shawl Dance); "Algiers" (Through the

Arab Quarters); "Nice" (The Battle of Flowens).

9.30: Dance music.

4YA

DUNEDIN 550 kc.
Wednesday 7.

3.0: Selected recordings.

3.15: Talk, Home Science Extension Department, Otago University, "Spring Cleaning Time Again."

4.30: Sports results.

5.0: Children, by Aunt Gretchen and Big Brother Bill.

Dinner Music

6.0: Philadelphia Symphony Orchestra, "Damnation of Faust—Marche Hongroise" (Berlioz). New Mayfair Orchestra, "Sons o' Guns" Selection. International Novelty Orchestra, "Gold and Silver" Waltz (Lehar).

6.15: Virtuoso String Quartet, "The Emperor" Quartet" (Haydn)—Theme and Variations. New Light Symphony Orchestra, "Persiflage" (Frances). De Groot and His Orchestra, "I Love You" (Grieg). The London Palladium Orchestra, "Longing" (Haydn Wood).

6.27: Organ, Edward O'Henry, "Dream Lover" (Schertzinger). London Novelty

Orchestra, "Love in Idleness" (Macbeth). Philadelphia Symphony Orchestra, "Samson and Delilah—Bacchanale" (Saint-Saens). International Novelty Orchestra, "Emperor Waltz" (Strauss).

6.41: Virtuoso String Quartet, "Londonderry Air" (arr. Bridge). Zonophone Salon Orchestra, "Love-in-a-Mist" (Forster). De Groot and His Orchestra, "Romance" (Rubinstein).

6.52: The London Palladium Orchestra, "Vivienne" (Finck). Organ, Edward O'Henry, "Just as We Used to Do" (Rulli).

7.0: News and reports.

7.15: Talk, L. W. McCaskill, "Review of N.Z. Journal of Agriculture."

Concert Programme.

8.0: Recording Band of H.M. Grenadier Guards, "Tom Jones" (German).

8.9: Dunedin Glee Singers, "Moonlight and Music" (Pinsuti); "In this Hour of Softened Splendour" (Pinsuti).

8.16: Signor R. Squarise and His String Orchestra, Two Melodies, (1) "Saterpentens Sontag," (2) "Norwegian Melody" (Ole Bull); "Pizzicatta—Caprice" (Henlay).

8.25: The Glee Singers, "The Sands of Dee" (Macfarren).

8.29: Recording (Piano), Alexander Brailowsky, "Valse Impromptu in A Flat Major" (Liszt); "Military March in D Flat Major" (Schubert).

8.37: Spirituals, The Glee Singers, "Swing Low, Sweet Chariot"; "Steal Away" (Traditional).

8.42: The Orchestra, Intermezzo from "Cavalleria Rusticana" (Mascagni); "It Was a Dream" (Ellenberg).

8.50: The Glee Singers, "Sweet Minstrel"; "Vesper Bells" (both by Philpot).

8.56: The Orchestra, "Schelm Amour" (Ellenberg).

9.0: Weather report and notices.

9.2: Reserved.

9.17: The Glee Singers, "Stars of the Summer Night" (Cruikshank); "Drink to Me Only with Thine Eyes" (arr. Austin).

9.23: The Orchestra, Excerpts from "Ballet Piquante" (Parker).

9.30: Dance music.

2YB NEW PLYMOUTH 1230 kc.
Wednesday 7.

6.30 to 7.30: Children's session, conducted by Uncle Ted and Aunt Betty.

8.0 to 10.0: Studio concert.

1YA

AUCKLAND 902 kc.
Thursday 8.

10.0: Devotional service.

10.15: Selected recordings.

11.0: Talk, "Cooking by Electricity."

12.0: Lunch music.

12.30: Service from St. Matthew's Church.

12.50: Lunch music.

2.0: Selected recordings.

3.15: Home Science Talk, prepared by Home Science Extension Service, Otago University, "Meal Planning on a Small Income," Part II.

5.0: Children, by Skipper.

Dinner Music.

6.0: Marek Weber and His Orchestra, "Cavalleria Rusticana" Selection (Mascagni). International Concert Orchestra, "My Treasure" Waltz (Becucci).

6.13: National Military Band, "Ballet Egyptian" (Luigini). De Groot and His Orchestra, "When the Great Red Dawn is Shining." Paris Philharmonic Orchestra, "Hansel and Gretel" Overture (Humperdink).

6.30: Albert Sandler and His Orchestra, "My Dream Memory" (Levant). Philadelphia Symphony Orchestra, "Casse Noisette" (Nutteracker) Suite; "Waltz of the Flowers" (Tschalkowsky). London Palladium Orchestra, "Classica Selection" (arr. Ewing).

6.47: International Concert Orchestra, "La Spagnola" Waltz (di Chiara). Albert Sandler and His Orchestra, "Give Me Back My Heart" (Novello). De Groot and His Orchestra, "Zinetta" (Geehl).

7.0: News and reports.

7.30: Talk, W.E.A. Session, Dr. H. Belshaw, "The World Economic Crisis—Conditions Leading Up to the Crisis," Part 1.

Concert Programme.

8.0: Recording, The B.B.C. Wireless Military Band, "The Mill on the Rock" (Reissiger).

8.9: Contralto, Phyllis Gribben, "My Heart is Weary" (Goring-Thomas).

8.15: Recording (Quartet), The Maestro Strauss "Requiem" (d'Hardelot).

8.21: The Orchestra, "Keltic Overture" (J).

8.27: Sketch, J. M. Clark and Company, "The Rehearsal" (Thomas).

Thursday

Evening Talks: "The World Economic Crisis—Conditions Leading Up to the Crisis, Part 1."—Dr. H. Belshaw

(W.E.A. session). 1YA, 7.30 p.m.

"Biological Aspects of Life—The Control of Life," Miss D. Spence-Sales, M.A. (W.E.A. session). 2YA, 7.30 p.m.

"Secret Service in the Great War"—Major-General B. S. Merlin. 2YA, 9.2 p.m.

"Lamb Diseases"—Mr. A. Leslie (Canterbury Agricultural College). 3YA, 7.20 p.m.

"Tangier—Gateway to Morocco"—Mr. L. R. Denny, M.A., F.R.H.S. 3YA, 9.2 p.m.

Features: 1YA. Sketches by Mr. J. M. Clark and Company, "The Rehearsal" (8.27 p.m.); "The Lamp" (9.27 p.m.)

2YA. Singing Circle of Pioneer Club, in glees—Haydock-Tanner Trio. 3YA. Selected recordings, including the Church Scene from "Faust," and Popy's "Suite Orientale," by Berlin State Opera Orchestra.

8.44: The Orchestra, "Flight of the Bumble Bee" (Rimsky-Korsakov); "Phantom Melody" (Ketelbey).

8.51: Recordings (Tenor), Derek Oldham, "I Love You" (Grieg); "In the Silent Night" (Rachmaninoff). Band, St. Hilda Colliery Band, "Thanks be to God" (Mendelssohn).

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: The Orchestra, "Stephen Adams' Songs" (Adams).

9.27: Sketch, J. M. Clark and Company, "The Lamp" (Cronin).

9.39: Recording (Violin), Leo Cherniavsky, "La Borrachita" (Esperon).

9.42: Contralto, Phyllis Gribben, "A Birthday" (Woodman); "The Maori Flute" (D'reen).

9.47: The Orchestra, "Csikos et Bohemienne" (Bohm).

9.51: Recording (Tenor), Beniamino Gigli, "All Hail, Thou Dwelling, Pure and Holy" (Gounod).

9.55: Waltz, The Orchestra, "Angelo" (Czibulka).

2YA WELLINGTON 720 kc.
Thursday 8.

10.0: Selected recordings.

10.30: Devotional service.

10.45: Lecturette, "Cooking by Electricity."

11.37: Lecturette, Representative of Health Department, "Health Hints."

12.0: Lunch music.

2.0: Selected recordings.

3.15: Lecturette, Prepared by Home Science Extension Department of Otago University, "Meal Planning on a Small Income," Part II.

3.30 and 4.30: Sports results.

5.0: Children, by Big Brother Jack.

Dinner Music.

6.0: Royal Italian Band, "Marcia Reale" (Royal March) (Gabetti). Vienna Philharmonic Orchestra, "Dorfschwalben—Waltz." De Groot and His Orchestra, "Une Heure D'Amour" (Alexander). Mandoline Concert Society, "Echoes of the Volga" (Rutter).

6.21: Jack Hylton and His Orchestra, "Memories of Paris" (Moretti). De Groot (violin) and David Bor (piano), with H. M. Calve (cello), "El Religario" (Padilla). New Queen's Hall Light Orchestra, "Britannia—Overture" (MacKenzie).

6.38: J. H. Squire Celeste Octet, "An

Old Church Legend—Intermezzo" (Trincoen). Royal Italian Band, "Inno di Garibaldi" (Ollivier). De Groot and His Orchestra, "For Ever and Ever" (Tosti). The Royal Opera Orchestra, Covent Garden, "Eugen, Onegin" Waltz (Tschalkowsky).

6.51: De Groot (violin), David Bor (piano), and H. M. Calve (cello), "Selection of Hebrew Melodies" (arr. Saunders). J. H. Squire Celeste Octet, "An Irish Love Song" (Squire).

7.0: News and reports.

7.30: W.E.A. Session: Miss D. Spence-Sales, M.A., "Biological Aspects of Life—The Control of Life."

Concert Programme.

(Relayed by 2ZD, Masterton.)

8.0: Recording, H.M. Royal Air Force Band, "Songs of Britain" (Trdtl.).

8.8: Glee, Singing Circle of Pioneer Club, "Still as the Night" (Bohm); "Shepherd's Dance" (German).

8.14: Bass-baritone, Trevor Thomas, "Cheerily, Yee-ho" (Phillips); "Tommy Lad" (Margetson).

8.20: Instrumental Trio, Haydock-Tanner Trio, "Three Spanish Dances" (Moszkowski).

8.27: Recording (Humour), Tommy Handley, "When I Met Connie in the Cornfield" (Damerell); "Iz Izzy Azzy Wozz" (Le Clerq).

8.33: Soprano, Ethna Greig, "Dusk and Dawn" (Tombo); "Cam' Ye By?" (Burrows).

8.39: Instrumental Trio, Haydock-Tanner Trio, "Mirage" (Coates); "Liebestraume" (Liszt).

8.48: Glee, Singing Circle of Pioneer Club, "Barcarolle" (Tosti); "Little Lady of the Moon" (Coates). (Soloist, Ella Fair).

8.54: Recording, Paul Godwin's Novelty Orchestra, "The Butterfly" (Schlenk); "The Spider" (Klose).

9.0: Weather report and notices.

9.2: Lecturette, Major-General B. S. Merlin, "Secret Service in the Great War."

9.17: Instrumental Trio, Haydock-Tanner Trio, "Hungarian Rhapsody" (No. 14) (Liszt).

9.24: Contralto, Mrs. M. E. Mitchell, "Jeunesse"; "What Shall I Sing you?" (Barry).

9.29: Recording (Humour), Sandy Macfarlane, "Bella Frae Balloch Myle" (Macfarlane); "Auld Scotch Songs" (Lesson).

9.35: Glee, Singing Circle of Pioneer Club, "Loch Lomond" (Trdtl.); "Still As the Night" (Trdtl.).

9.40: Recording, Orchestra Serinese, "Celestina" (Marranzini).

9.43: Bass-baritone, Trevor Thomas, "An Old English Love Song" (Allitson); "O Flower of All the World" (Wood-forde-Pinden).

9.49: Glee, Singing Circle of Pioneer Club, "Go Lovely Rose" (Markham Lee); "Love was Meant to Make Us Glad" (German).

9.56: Recording, Regimental Band of Grenadier Guards, "Martial Moments" (arr. Winter).

3YA CHRISTCHURCH 980 kc. Thursday 8.

3.0: Selected recordings.

3.15: Home Science Talk, prepared by Home Science Extension Service of Otago University, "Meal Planning on a Small Income," Part II.

4.30: Sports results.

5.0: Children, by "Ladybird" and "Uncle Dick."

Dinner Music.

6.0: Grand Symphony Orchestra, "The Great Elysian—Potpourri" (arr. Hruby). New Concert Orchestra, "Hydropaten" Waltz (Gungl). Organ, Stanley Macdonald; "Nicolette" (Batten, Campbell and Connelly). Court Symphony Orchestra, "The Gondoliers—Selection" (Sullivan).

6.22: Band of H.M. Grenadier Guards, "La Benediction des Poignards" (Meyerbeer). J. H. Squire Celeste Octet, "Mignon—Introduction et Romance" (Thomas). Orchestre Symphonique de Paris, "L'Arlesienne" (Bizet). — Incidental Music—Prelude—Overture, Act I. — Organ, Terence Casey, "The Irish Organist" Medley (arr. Casey).

6.43: New Concert Orchestra, "Jolly Fellows—Waltz" (Vollstedt). Band of H.M. Grenadier Guards, "Lo! Here the Gentle Lark" (Bishop, arr. Godfrey). Organ, Stanley Macdonald, "Was it a Dream?" (Coslow). J. H. Squire Celeste Octet, "Mignon — Polonaise" (Thomas).

7.0: News and reports.

7.20: Talk, A. Leslie, of Canterbury Agricultural College, "Lamb Diseases."

Concert Programme.

8.0: State Opera Orchestra, Berlin, "La Boheme" (Fantasia) (Puccini).

8.8: Bass-baritone, Stuart Robertson and Male Chorus, "Richard of Tannton Deane."

8.11: Gil Dech and His Orchestra, "Maori" Selection.

8.19: English Minstrels with Alexander and Mose, "Minstrel Show of 1931"

8.26: Song Melody, Edith Lorand, "Silver Threads Among the Gold" (Danks).

8.29: Mavis Bennett, "Mifanwy" (Forster).

8.32: Australian Kookaburra, "The Bird That Laughs."

8.35: Herman Finck's Orchestra, "Offenbachiana" (arr. Finck).

8.43: Layton and Johnstone, "Live, Laugh and Love" (Heymann and Leigh).

8.46: Comedienne, Gracie Fields, "Down at Our Charity Bazaar" (Aza).

8.49: Lily Gyenes and Twenty Gipsy

Girls, "Ungarische Rhapsodie No. 2" (Liszt).

8.57: Tenor, Richard Tauber and Orchestra, "The Opera Ball" (Heuberger).

9.0: Weather forecast and notices.

9.2: Talk, L. R. R. Denny, M.A., F.R.H.S., "Tangier—Gateway to Morocco."

9.17: Fantasy, Dajos Bela Orchestra, "Vindobona" (Vienna folk songs) (Leopold).

9.25: Ensemble and Orchestra of Berlin State Opera House "Faust—Act IV" (The Church Scene) (Gounod).

9.32: Plaza Theatre Orchestra, "A Musical Switch" (arr. Alford).

9.40: Tenor, Cavan O'Connor, "When It's Springtime in Old Ireland" (Pagden).

9.43: Organ, Quentin M. Maclean, "Three Little Times" (Hajos); "Hold My Hand" (Gay).

9.48: Baritone, Raymond Newell, "The Organ Blower" (Geehl).

9.52: State Opera Orchestra, "Suite Orientale" (Popy): (a) "Les Bayaderes"; (b) "Au Bord du Gange"; (c) "Les Almees"; (d) "Patronille."

6.34: The Salon Orchestra, "Chinese Lullaby" (Bowers). Orchestra Mascotte, "The Girl in the Taxi" Waltz (Petras). Peter Biljos' Balalaika Orchestra, "Blowing Winds" (Ukrainian Medley). The Salon Orchestra, "Sleepy Valley" (Hanley). Organ Solo, Jesse Crawford, "Indian Love Call" (Friml).

6.49: The Little Salon Orchestra "Springtime in the Forest" (Zimmer). A. and P. Gipsies Orchestra, "Bohemian Romance."

7.0: News and reports.

7.40: Lecturette, Representative of To H, "The History of Toc H."

Concert Programme.

8.0: Twenty minutes of selected recordings.

8.20: Selection, The Orchestra (Conductor, Leon de Mauny), "Follow a Star" (Ellis).

8.30: Twenty minutes of selected recordings.

8.50: Suite, The Orchestra, "Cinderella" (Coates).

9.0: Weather report and notices.

9.2: Sketch, Mr. and Mrs. J. W. Bailey, "New Year's Eve" (Lindo).

9.15: Instrumental, The Orchestra, "Meditation in C" (Squire).

9.21: Humour, J. W. Bailey, "The Colonel's Earwig" (Thomas).

9.27: March, The Orchestra, "Rakoczy" (Czernach).

9.31: Dance programme.

3YA CHRISTCHURCH 980 kc. Friday 9.

3.0: Selected recordings.

4.30: Sports results.

5.0: Children, by Uncle Jim.

Dinner Music.

6.0: Grand Symphony Orchestra, "Raymond—Overture" (Thomas); The Royal Music Makers, "Kiss Me Again" Waltz (Herbert); Victor Oloff Sextet, "Cherry Ripe" (Scott); Frank Westfield's Orchestra, "The Druid's Prayer" Waltz (Davson).

6.16: Dajos Bela Orchestra, "Electric Girl" (Holmes); "The Grenadiers—Waltz" (Waldeufel); Organ, Jesse Crawford, "How Am I to Know?" (King); Dajos Bela Orchestra, "Pique Dame" Fantasia (Tchaikowsky).

IYA AUCKLAND 902 kc. Friday 9.

10.0: Devotional service.

10.15: Selected recordings.

11.0: Talk, "Home Industries."

12.0: Lunch music.

2.0: Selected recordings.

5.0: Children, by "Nod."

Dinner Music.

6.0: Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen). J. H. Squire Celeste Octet, "Invitation to the Valse" (Weber). Jacques Jacobs' Ensemble, "Sobre Las Olas" (Roses).

6.12: Plaza Theatre Orchestra, "Gipsy Suite" (German): (1) "Valse" (Lonely Life); (2) "Allegro" (The Dance); (3) "Menuetto" (Love Duet); (4) "Tarentella" (The Revel).

6.25: Albert W. Ketelbey's Concert Orchestra, "In a Fairy Realm—Suite" (Ketelbey): (a) "The Moonlight Glade"; (b) "The Queen Fairy Dances"; (c) "The Gnomes' March." Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte—Le Carillon" (Bizet).

6.40: Columbia Symphony Orchestra, "Bridal Procession" (Grieg). Orchestre Symphonique de Paris, "L'Arlesienne Suite—Adagietto" (Bizet). Albert W. Ketelbey's Concert Orchestra, "Bells Across the Meadows" (Ketelbey). London Novelty Orchestra, "Amina—Egyptian Serenade" (Lincke). J. H. Squire Celeste Octet, "Chant Sans Paroles" (Tchaikowsky).

7.0: News and reports.

7.30: Sports talk.

Concert Programme.

8.0: Recording, B.B.C. Wireless Symphony Orchestra, "Samson and Delilah" (Saint-Saens).

8.9: Clarion Quartet, "The Sun will Soon be Shining" (Long). Soprano, Lilian Woods, "Happy Song—Four Ducks on a Pond" (del Riego).

8.16: Regal Saxophone Quartet, "Local Pride" (Ford); "The Blushing Rose" (Johnson); "Break-n-Sax" (Finder).

8.23: Recording, Wish Wynne, "A Servant Girl" (Wynne).

8.26: Organ Recital, Arthur E. Wilson, Twenty Minutes with Handel: (1) "Overture to the Occasional Oratorio";

(2) "Minuet from 'Berenice';" (3) "Air from 'The Water Music';" (4) "Largo from 'Xerxes'."

8.46: Duet, Duncan Black and Lambert Harvey, "The Song of the Sword" (Gilbert). Bass, Duncan Black, "A Fat Lil Feller" (Gordon).

8.51: Humour, Zante Wood, "Humorous Stories."

8.57: Recording, Regimental Band of H.M. Grenadier Guards, "Nell Gwyn Dances: 'Merrymakers' Dance" (German).

9.0: Weather forecast and notices.

9.2: Talk, A. B. Chappell, M.A., "Byways of New Zealand Story."

9.17: Regal Saxophone Quartet, "Kitchen Scamper" (Barroll); "Bear Tracks" (Barroll); (c) "Golden Spur" (Weber).

9.25: Clarion Quartet, "Aroun the Fire" (Parks). Contralto, Beryl Smith, "Meadowsweet" (Brahe); "Five Little Piccaninnies" (Anthony).

9.34: Recording (Bells, etc.), The Famous Barnardo Musical Boys, "The Bells of St. Mary's" (Adams); "The Chimes of Rouen" (Cons).

9.40: Humour, Zante Wood, "Mystery of the Midnight Moon" (Park).

9.45: Tenor, Lambert Harvey, "A Little Prayer For Me" (Russell); "The Scant of Sweet Lavender" (Olliver).

Friday

Evening Talks: Sports Talks. IYA, 7.30 p.m.

"Byways of New Zealand Story"—Mr. A. B.

Chappell, M.A. IYA, 9.2 p.m.

"The History of Toc H"—Representative of Toc H. 2YA, 7.40 p.m.

"Comets and Meteors—Visitors from Space"—Mr. A. W. Tucker, M.A., B.Sc., F.R.A.S. (W.E.A. session). 3YA, 7.30 p.m.

"Popular Fallacies—The Depression is Purely a Monetary One" (3rd of series)—Mr. Lloyd Ross, M.A. (W.E.A. session). 4YA, 7.30 p.m.

Features: IYA. Organ recital—Arthur E. Wilson, "Twenty Minutes With Handel" (8.26 p.m.); Humorous

stories, Zante Wood (8.51 p.m.)

2YA. Mr. and Mrs. J. W. Bailey in sketches: "New Year's Eve" (9.2 p.m.); "The Colonel's Earwig" (9.21 p.m.)

3YA. Programme by the Optimists' Club.

4YA. The Lady Minnesingers: Mons. de Rose and his Instrumental Quintette.

Clarion Quartet, "Mine Own Countree" (Old Irish).

9.54: Record, Debroy Somers Band, "Valse Memories" (arr. Somers).

2YA WELLINGTON 720 kc. Friday 9.

10.0: Selected recordings.

10.30: Devotional service.

11.12: Lecturette, "Fashions."

12.0: Lunch music.

2.0: Selected recordings.

3.30 and 4.30: Sports results.

5.0: Children, by Uncle Jim.

Dinner Music.

6.0: Milan Symphony Orchestra, "Mignon" Overture (Thomas). Organ solo, Jesse Crawford, "Serenade" (Romberg). New Symphony Orchestra, "Pastoral Dance from 'Nell Gwynn'" (German). Musical Art Quartet, "Deep River" (arr. Conrad Held).

6.18: New York Symphony Orchestra, "Entrance of the Little Fauns" (Pierne). Vienna Philharmonic Orchestra, "Die Fledermaus" Waltz (Strauss). Brunswick Concert Orchestra, "La Danseuse" (von Blom). A. and P. Gipsies Orchestra, "My Memories."

6.34: Frank Westfield's Orchestra, "Neapolitan Nights" Waltz; Plaza Theatre Orchestra, "Searf Dance" (Chaminade), "Pierrette" (Chaminade); The Royal Music Makers, "Ah! Sweet Mystery of Life" (Herbert); Dajos Bela Orchestra, "Eldgaffeln" (Landen).

6.48: Organ, Jesse Crawford, "I Will Close My Eyes to the Rest of the World" (Friend); Dajos Bela Orchestra, "Casino Tanz" Waltz (Gungl); Vienna Harmonic Orchestra, "Turkish March" from "Ruins of Athens" (Beethoven).

7.0: News and reports.

7.30: W.E.A. Session—A. W. Tucker, M.A., B.Sc., F.R.A.S., "Comets and Meteors—Visitors from Space."

Concert Programme.

8.0: K. G. Archer (song leader), assisted by Y.M.C.A. Orchestra. V. C. Peters (conductor). Accompanist, Melville Lavry. Introduction. Orchestra. "Morning" (Peer Gynt Suite), (Grieg).

8.4: Club Chorus, "The More We Are Together" (trad'l.); "Pack Up Your Troubles" (Powell). Baritone, Rex Harrison, "The Bandolero" (Stuart).

8.12: Part Suite, The Orchestra, "The Death of Ase"; "In the Hall of the Mountain King" (from "Peer Gynt Suite"), (Grieg).

8.17: Ken Archer, "The Vagabond Song" (with chorus), (Eric Randolph). Tenor, James Shaw, "Come Into the Garden Maude" (Balf).

8.26: Baritone, W. J. Spratt, "The Stockrider's Song" (W. G. James).

8.30: Selected recordings.

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: Choruses, Optimists' Club, "Roses and Radishes"; "Garden Suburb" (V. Peters). Baritone, W. J. Spratt, "Big Steamers" (German). Solo and Chorus, Rex Harrison, "Carry Me Back to Old Virginia" (Bland).

9.27: Orchestra, "March" (Tchaikowsky); "Danse de la fee Dragée."

9.33: Duét, Jas. Shaw and W. J. Spratt, "The Moon Hath Raised Her Lamp Above" (Benedict). Song and Chorus, Mark Richards, "Climb Up" (Negro Spiritual).

9.39: Orchestra, "Danse Russe Trepak"; "Danse des Merlions" (from "Nutcracker Suite") (Tchaikowsky).

9.46: Bass, J. Tennant, "The Yeomen of England" (German).

9.50: Orchestra, "Ave Maria" (Schubert).

9.53: Tenor, Jas. Shaw, "Serenade" (Schubert).

9.56: Orchestra (with violin refrain). "Sanctuary of the Heart" (Ketelbey).

Quartet and Chorus, Optimists' Club, "Good Night Ladies" (trad'l.).

4YA DUNEDIN 550 kc. Friday 9.

8.0: Selected recordings.

4.30: Sports results.

5.0: Children, by Aunt Sheila.

Dinner Music.

6.0: London Theatre Orchestra, "A Country Girl Selection" (Monckton). Organ, G. T. Pattman, "Cinderella—Waltz" (Pattman). Band of H.M. Grenadier Guards, "Ivanhoe—Selection" (Sullivan, arr. Godfrey). J. H. Squire Celeste Octet, "The Piccaninnies' Picnic" (Squire). Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey).

6.25: Orchestre de la Societe des Concerts du Conservatoire, Paris, "Le Ronet d'Omphale" (Saint-Saens). Organ, G. T. Pattman, "Alice, Where Art Thou?" (traditional). London Theatre Orchestra, "Maid of the Mountains" Selection (Fraser-Simson).

6.44: J. H. Squire Celeste Octet, "Twilight on the Waters" (Squire). Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures" (Ketelbey). Regal Cinema Orchestra, "Show of Shows—Selection."

7.0 News and reports.

7.30: W.E.A. Session—Lloyd Ross M.A.—"Popular Fallacies. The Depression is Purely a Monetary One" (Third of a Series).

Concert Programme.

8.0: Recording, Jack Hylton and his Orchestra, "More Melodious Memories" (Pinck).

8.8: Part Songs, The Lady Minnesingers, "Irish Folk Songs" (trad'l.); "The Last Rose of Summer," "The Min-

strel Boy," "Believe Me, if All Those Endearing Young Charms."

8.19: Selection, Mons. de Rose and his Quintette, "Gipsy Suite" (Hosmer).

8.30: Recording, humour, Zonophone Minstrels, "The White Blackbirds."

8.36: Chorus, Lady Minnesingers, "Gipsy Air" (Bizet).

8.40: Selection, The Quintette, "Irish Sketches" (Ansell).

8.50: Duét, Maude Kenward and Noni Davidson, "In the Garden of Your Heart" (Ball).

8.54: Recording (piano), Rale da Costa, "The Little Dutch Doll" (Revel); "Dancing Shadows" (Golden).

9.0: Weather report and notices.

9.2: Reserved.

9.17: Selection, The Quintette, "Princess Pat" (Herbert).

9.24: Chorus, Lady Minnesingers, "Fairies' Chorus" (German). Part Song, Lady Minnesingers, "Barcarolle" (Offenbach).

9.30: Recording (humour), George Graves and Myles Clifton, "The 'Ole in the Road" (Seamark).

9.37: Selection, The Quintette, "Tales of Hoffmann" (Offenbach).

9.46: Soprano, Miss Noni Davidson, "June is in My Heart" (Vaughan).

9.49: Recording (organ), Sandy McPherson, "Starlight" (Brownsmith).

9.52: Chorus, Lady Minnesingers, "The British Grenadiers" (trad'l.).

9.55: Selection, The Quintette, "L'Algerienne" (Tavan); "Pendulo Tango" (Maqueredo).

1YA AUCKLAND 902 kc. Saturday 10.

2.45: Relay Rugby football match from Eden Park. Selected recordings.

5.0: Children, by "Cinderella."

Dinner Music.

6.0: National Symphony Orchestra, "William Tell—Overture" (Rossini). International Novelty Orchestra, "Carmen Sylvia" Waltz (Ivanovici).

6.15: Berlin State Opera House Orchestra, "Capriccio Italian" (Tchaikowsky). National Symphony Orchestra, "Bolero in D Major" (Moszkowski). The Band of H.M. Coldstream Guards, "Floradora" Selection (Stuart).

6.34: La Francisco Symphony Orchestra, "Liebesleid" (Kreisler). New Mayfair Orchestra, "Wake Up and Dream" Selections (Porter). International Novelty Orchestra, "Eva" Waltzes (Lehar).

6.45: H.M. Grenadier Guards Band, "Hyde Park Suite" (Jalowiez), "Sunday Morning Church Parade"; "Rotten Row"; "On the Serpentine"; "Around the Bandstand." National Symphony Orchestra, "Spanish Dance No. 2 in G Minor" (Moszkowsky).

7.0: News and reports.

Concert Programme.

8.0: Recording, B.B.C. Wireless Military Band, Polish Dance (Schawenka).

8.9 Contralto, Nellie Lingard, "The Silver Chord" (Behrend); "Secrets" (Boanas).

8.15: Recording (violin), Fritz Kreisler, "Tango" (Albeniz).

8.18: Tenor, Leslie Belcher, "Ah, Sweet Mystery of Life" (Herbert); "Shy Mignnette" (Brahe).

8.24: The Orchestra, "Hungarian March" (Berlioz). Intermezzo from "Jewels of the Madonna" (Ferrari).

Saturday

Evening Talks: "Maori and Pakeha—The Maori To-day"—Dr. I. L. G. Sutherland (W.E.A. session). 2YA.

7.30 p.m.

"Back to Nature"—Mr. Frank Milner, M.A., C.M.G. (Youth Hostel Association). 3YA, 7.45 p.m.

Sports Broadcasts: 1YA. Rugby from Eden Park. 2YA. Rugby from Athletic Park. 4YA. Interprovincial Rugby, Wellington v. Otago.

Features: 1YA. Light popular programme, including song stories: "The Old Fiddler" (8.32 p.m.); "The Rouseabout" (9.38 p.m.) 1YA Chamber Orchestra.

2YA. Clement May and Company in sketches: "All Jam," "Switched," "The Hat Trick" (8.25 p.m.); "Shame the Devil" (9.29 p.m.); Songs at the piano by Muriel Johns.

3YA. Relay of programme from 4YA.

4YA. The Comedy Players in humorous sketches: "Mabel's Birthday" (8.14 p.m.) and "Madame Vane's Studio" (9.20 p.m.)

8.32: Song Story, Tom Harris and Company, "The Old Fiddler."

8.42: Selection, The Orchestra, "Plantation Songs" (Olutsam).

8.50: Popular Songs, Eileen Smithson, "Rocky Mountain Lullaby" (King); "While Hearts Are Singing" (Strauss).

8.56: Recording, Light Opera Company, "Wake Up and Dream" (vocal gems), (Porter).

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: Selection, The Orchestra, "H.M.S. Pinafore" (Sullivan).

9.25: Contralto, Nellie Lingard, "A Glance" (Boanas); "The Country Dance" (Brahe).

9.30: Recording (organ), Lew White, "Down South" (Myddleton).

9.33: Tenor Leslie Belcher, "Song of Songs" (Moya); "Lolita" (Peccia).

9.38: Song Story, Tom Harris and Company, "The Rouseabout."

9.45: Recording, London Piano-Accor-

deon Band, "Rio de Janeiro" (de Gre-

9.51: Popular Songs, Eileen Smithson, "One Heavenly Night" (Bryan); "Good-night Waltz" (Woods).

9.56: Waltz, The Orchestra, "April Buds" (Ancliffe).

10.0: Sports summary.

10.10: Dance programme.

2YA WELLINGTON 726 kc. Saturday 10.

8.0: Relay of Rugby football match from Athletic Park.

8.0: Children, by Aunt Molly and Uncle Jasper.

Dinner Music.

6.0: Bournemouth Municipal Orchestra, "Crown Diamonds—Overture" (Auber). Dajos Bela Orchestra, "Viennese Life—Waltz" (Translateur). Regimen-

tal Band of H.M. Grenadier Guards, "The Turkish Patrol" (Michaelis). Organ, Terence Casey, "Bird Songs at Eventide" (Coates).

6.16: Grand Symphony Orchestra, "Tales of Hoffmann—Entr'acte and Minuet" (Offenbach). Berlin State Opera House Orchestra, "Wine, Women and Song" Waltz (Strauss). Piccadilly Orchestra, "My Beloved Gondolier" (Tibor).

6.31: Regimental Band of H.M. Grenadier Guards, "The Smithy in the Woods" (Michaelis). Orchestra Mascotte, "Amoureuse—Waltz" (Berger). Grand Symphony Orchestra, "Tales of Hoffmann—Barcarolle" (Offenbach). "Fra Diavolo" Overture (Auber).

6.48: Organ, Terence Casey, "I'm Lonely" (Coates). Eddie Thomas' Collegians, "The Missouri Waltz" (—); H.M. Grenadier Guards' Band, "Country Dance" (German).

7.0: News and reports.

7.30: W.E.A. Session—Dr. I. L. G.

SHOO-FLY PLANT



It is said that flies will not stay in a room where it is grown if they can escape. What it is that repulses them is not clear, as the flowers have no odour. It is a beautiful flowering plant, and blooms in a short time from seed. It is a profuse bloomer in pots, both summer and winter, the blossoms being large, cup-shaped, and of a lovely light blue colour, with white centre.

Our principals in Canada inform us that they sold 25,000 packets of "Shoo-fly" plant seeds last year, and as we have the Australasian agency, and stocks are very hard to get, we suggest you send to-day and avoid disappointment. Be ready for summer and the flies.

Price 2/- per packet, and send stamped (id.) addressed envelope. Postal notes or stamps accepted.

DOMINION SEED AGENCY.
Box 1582, Wellington, New Zealand.

Sutherland, "Maori and Pakeha—The Maori To-day."

Concert Programme.

(Relayed by 2ZD, Masterton.)

8.0: March, The Orchestra (Conductor, Mr. Leon de Mauny), "Hands Across the Sea" (Sousa).

8.5: Recording, The Sundowner's Quartet, "Carry On" (O'Hagan); "The Sleepy Town Express" (Gillespie).

8.11: Songs at the Piano, Muriel Johns, "Everyone in the Town Loves Little Mary Brown" (Greer); "When the Roses Bloom Again in Normandy" (Ros-off).

8.17: The Orchestra, "Sylvan Scenes" (Fletcher), "In Beauty's Bower"; "Sylvan Dances."

8.25: Sketches, Clement May and Company, "All Jam"; "Switched"; "The Hat Trick" (du Garde Peach).

8.40: Selection, The Orchestra, "The Love Race" (Clark).

8.50: Recording (baritone), Peter Dawson, "The Smugglers" (Poppo); "The Man Who Brings the Sunshine" (Cooper).

8.56: The Orchestra, "Salut d'Amour" (Elgar).

9.0: Weather report and notices.

9.2: Reserved.

9.15: The Orchestra, "An Evening in Toledo" (Schmelting), "Serenade"; "Spanish Dance."

9.23: Songs at the Piano, Muriel Johns, "Auf Wiedersehen, My Dear" (Ager); "Lazy Day" (Postford).

9.29: Sketch, Clement May and Company, "Shame the Devil" (Johnson).

9.43: The Orchestra, "Sylvan Scenes" (Fletcher), "The Pool of Narcissus"; "Cupid's Carnival."

9.50: Recording (humour), Clarkson Rose, "Feminine Company" (Wright); "Ee, by Gum" (Flynn).

9.56: March, The Orchestra, "For Love and Honour" (Alberti).

10.0: Sporting summary.

10.10: Relay of dance music from Adelphi Cabaret.

3YA CHRISTCHURCH 380 kc.
Saturday 10.

3.0: Selected recordings.

4.30: Sports results.

5.0: Children, by Aunt Pat and Uncle Charlie.

Dinner Music.

6.0: Berlin State Opera Orchestra, "Oberon—Overture" (Weber). H.M. Air Force Band, "The Parade of the Tin Soldiers" (Jessel). Covent Garden Orchestra, "Ballet Russe" (Luigini); "Mazurka"; "Marche Russe."

6.18: Percy Pitt and Augmented Symphony Orchestra, "Poet and Peasant Overture" (Suppe). Organ, Reginald Foort, "The Sacred Hour" (Ketelbey).

National Symphony Orchestra, "Stradella" (Flotow).

6.36: Instrumental Trio—Fritz Kreisler, Hugo Kreisler and M. Raucheisen, "Marche Miniature Viennoise" (Kreisler). B.B.C. Wireless Military Band, "Le Reve Passe" (Helmer). London Symphony Orchestra, "Khovantchina—Persian Dances" (Moussorgsky). Organ, Leslie James, "Medley of Old Songs."

6.51: Fritz Kreisler, Hugo Kreisler, and M. Raucheisen, "Syncopation" (Kreisler). H.M. Air Force Band, "The Nightingale and the Frog" (Ellenberg).

7.0: News and reports.
7.45: Talk, Frank Milner, M.A., C.M.G., under auspices of Youth Hostel Association, "Back to Nature."

Concert Programme.

(Relay of Programme from 4YA, Dunedin.)

10.0: Sports summary.

10.10: Dance music.

4YA DUNEDIN 550 kc.
Saturday 10.

3.0: Relay, interprovincial Rugby, Wellington v. Otago.

4.30: Sports results.

5.0: Children, by Aunt Anita.

Dinner Music.

6.0: Brunswick Concert Orchestra, "March of the Tin Soldiers" (Pierne). B.B.C. Wireless Military Band, "Dance of the Tumblers" (Rimsky-Korsakov). J. H. Squire Celeste Octet, "Peter Pan Selection" (Crook).

6.14: Court Symphony Orchestra, "The Windmill Man—Selection." Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov).

6.35: Organ, Quentin MacLean, "Little Dolly Day Dream" (Stuart). Garde Republicaine Band, "The Two Pigeons" (Messenger). "The Two Pigeons" (Messenger), (Parts 3 and 4).

6.52: B.B.C. Wireless Military Band, "Goliwog's Cake Walk" (Debussy). Organ, Quentin MacLean, "Lily of Laguna" (Stuart).

7.0: News and reports.

Concert Programme.

8.0: Recording, New Queen's Hall Light Orchestra, "Britannia" (Mackenzie).

8.9: Duet and Solo, Cecelia Te Ara Nui and Mr. L. Brown, "Pokarekare" (Hill); "Hine E Hine" (Te Rangipā).

8.14: Humorous Sketch, The Comedy Players, "Mabel's Birthday" (Carty).

8.45: Recording, Marek Weber Orch. with Comedy Harmonists, "The Flower of Hawaii" (Abraham).

8.53: Xylophone, W. J. Sinton, "The Butterfly" (Bendix); "When Your Hair is Turned to Silver" (Tobias).

9.0: Weather report and Notices.

9.2: Reserved.

9.17: Recording, Scott-Wood Accordion Quartette, "Good-night, Little Girl, Good-night" (Dobson).

9.20: Humorous Sketch, The Comedy Players, "Madame Vane's Studio" (Carty).

9.47: Xylophone, W. J. Sinton, "Entry of the Gladiators" (Faick); "Aloha Oe" (arr. Jones).

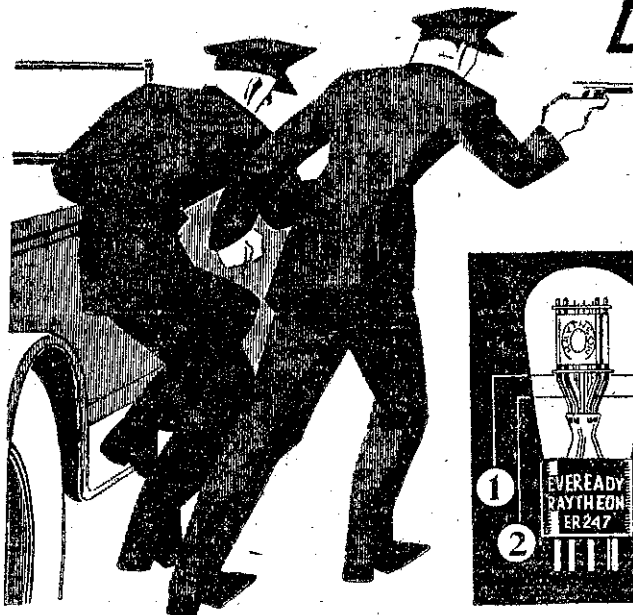
9.52: Duets, Cecelia Te Ara Nui and Mr. L. Brown, "Hoki Hoki Tono Mai" (Hill); "Whakapapa Noa Mai" (trad'l.).

9.57: Recording, The London Novelty Orchestra, "My Chin Chin Lu" (Christine).

10.0: Sports summary.

10.10: Dance music.

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1ZR Programmes

Friday, September 2.—10.30 a.m.: Devotional service, Uncle Scrim. 11.15: Speaker. 2 p.m.: Close down. 5: Dinner music. 6: Children's session, Uncle Cam and Fairy Princess. 7: Mr. Bill Hindman, "Sport." 7.30: Relay of Community Singing from Lewis Bady Hall. Song-leader, Vernon Drew. 9-10: Popular programme.

Saturday.—10.30 a.m.: Devotional service, Rev. C. Strand. 10.45 a.m.-1.30 p.m.: Music. 5: Dinner music. 6: Children's session, Polly Flinders and Jack the Giant-Killer. 7.15: Junior Chamber of Commerce speaker. 8: Popular programme. 10-11: Dance session.

Sunday.—9 a.m.: Uncle Tom's children's service. 9.45: Uncle Scrim conducting Studio Church Service with 1ZR Broadcasting Choir, under direction of Mr. J. Whitley McElwain. 6: Music. 6.15: Miss Baker's Church of England children's service. 7: Relay of Mr. A. H. Dallimore's Mission Service from Town Hall. 8.30: Studio standard classics. 9-9.30: "The Man Who Speaks."

Monday.—10.30 a.m.: Devotional service, Mr. Garner. 11-15 a.m.-2 p.m.: "Maoriland"—"Tittbits," and music. 5: Dinner music. 6: Children's session, Uncle Bern. 7.5-7.30: Mr. Neesham, "Football."

PRIVATE STATION PROGRAMMES

Tuesday.—10.30 a.m.: Devotional service, Uncle Scrim. 11.15 a.m.-2 p.m.: Speaker on "Horticulture," and music. 5: Dinner music. 6: Children's session, Aunts Ruth and Nina and Uncle Scrim. 7.15: Mr. Gargoyle. 8-10: Popular programme.

Wednesday.—10.30 a.m.: Devotional service, Uncle Scrim. 11.15 a.m.-2 p.m.: "Narium," and music. 5: Dinner music. 6: Children's session, Uncle Tom and Miss Muffett. 7-8: Music.

Thursday.—10.30 a.m.: Devotional service, Uncle Scrim. 11-15 a.m.-2 p.m.: Mr. Norman Kerr, "Physical Culture," and music. 5: Dinner music. 6: Children's session, Wendy. 7.15: Mr. F. R. Field, "The Earth's History." 8: Oil Company's programme. 10-11: Dance session.

2ZW Programmes.

1123 Kc. (268 m.)

Tuesday, August 30: 7 a.m.-8.30: Smokers' breakfast session, provided by The Dominion Tobacco Co., Petone.

10: Devotional service.
10.15: Session for womenfolk.
11.45: Pianoforte recordings.
12-2 p.m.: Lunch session.
7: After-dinner music.
8: Weather forecast and station announcements.
8.5: Special "Mystery Hike."
10: Dance session.
10.55: Good-night Waltz and close down.

Wednesday, August 31—7 a.m.-8.30: Smokers' breakfast session.

10: Devotional service.
10.15: Session for womenfolk.
11.45: Pianoforte recordings.
12 Noon-2 p.m.: Lunch session.
5-6 p.m.: Children's session, conducted by Aunt Joan and Uncle Toby.
7: After-dinner music.
7.30: Weekly talk on building and constructional matters by a member of the N.Z. Institute of Architects.
8: Weather forecast and station announcements.
8.5: Tabloid revue by the Merrymakers.

8.30: All-British concert programme.
10-11 p.m.: Dance programme, including relay of Mr. Frank Crowther's Orchestra from the Majestic Lounge.

Thursday, September 1—7 a.m.-8.30: Smokers' breakfast session.

10: Devotional Service.
10.15: Session for womenfolk.
11.45: Pianoforte recordings.
12 Noon-2 p.m.: Lunch session. Talk by Miss Madge Thomas. Quality musical programme.

3.30-4: A relay of afternoon tea music
5-6: Children's session, conducted by Ladybird and Uncle Kirk.

7: After-dinner music.
7.30: Talk by the Rev. T. Fielden Taylor, Wellington City Missioner.

8: Weather forecasts and station announcements.

8.5-11 p.m.: High-class musical programme.

Friday, September 2—7 a.m.-8.30: Breakfast session.

Saturday, September 3—7 a.m.-8.30: Smokers' breakfast session.

10: Devotional service.
10.15: Session for womenfolk.
11.45: Pianoforte recordings.
12 Noon-2 p.m.: Lunch session.
7: After-dinner music.

8: Weather forecast, station announcements, and sporting review.
8.5: Popular concert programme.

10-11 p.m.: Dance programme, including relay of Mr. Frank Crowther's Orchestra from the Majestic Lounge.

Sunday, September 4—11-12.15 p.m.: Devotional service by the Padre.

6.30: Eventide session of music.
7: Relay of evensong from St. Paul's Pro-Cathedral, Mulgrave Street.

8.15-10: Quality musical programme.
Monday, September 5—7 a.m.-8.30: Smokers' breakfast session.

10: Devotional service.
10.15: Session for womenfolk.

11: Weekly First Aid talk by Mr. C. Meachen, secretary of the St. John Ambulance Association.

11.45: Pianoforte recordings.
12 Noon-2 p.m.: Lunch session.

7: After-dinner music.
8: Weather forecast and station announcements.

8.5: Popular concert programme.
10-11 p.m.: Dance programme.

ON Tuesday, August 30, the Vacuum Oil Co., in the course of their evening programme, which commences at 8 o'clock, are staging a "Mystery Hike." In view of the popularity of the Mystery Trains run by the Railway Department at the present moment, this programme will be very topical, and the sponsors are hoping to make it one of the outstanding stunts of the year, so listeners would be well advised not to miss this programme.

With the Immortals in Music

(Continued from page 3.)

point of view occurs in each type of composition.

It is noteworthy that the oratorio standards were set by organists, and we may therefore assume that, indirectly, the inventive genius of those who, previous to the time of Handel and Bach, developed the organ, should be recognised as having played an im-

The Wellington Chamber Music Players

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"TRIO IN C MINOR"

From 2YA on
MONDAY, SEPTEMBER 5.

portant part in the great progress of the magnificent choral music which brings to millions of to-day the most intense enjoyment. It is interesting to note that the original organs such as that erected in Winchester about 1000 years ago, had keys about six inches wide which were struck with the fist. As a poem states:—

*Twelve pairs of bellows, ranged in
stately row
Are joined above, and fourteen more
below.*

*These the full force of seventy men
require
Who ceaseless toil and plentifully
perspire.*

And all this work resulted in the production of a simple tune—single notes, of course, not chords.

The invention of the forerunner of our magnificent organs is somewhat obscure, but it is supposed that the first pedal organ that could in any way be likened to the present type was that built by Bernhard, a German organist to the Doge of Venice, between 1470 and 1480; but even then the bellows keyboard and pipes were of a crude type.

During the following century improvements succeeded one another until in the 17th century the "windchest" was invented by one Christian Forner; thus an even wind pressure was obtained in all the bellows. Since that time, of course, the whole structure has been considerably improved, but at the same time we may assume that by the time that the master musicians such as Handel and Bach had commenced their wonderful work, a reasonably efficient instrument had been developed, and this paved the way for the fine organ and choral works that were composed.

[We regret that owing to undue pressure on space it has been necessary to withhold the remainder of this article until next week.—Ed.]



T.C.C.

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WELLINGTON

Day and Night Service



Round the World on SHORTWAVE

Conducted by F. W. SELLENS

Short-wave News

Empire Station's Progress.

ACCORDING to an English radio journal just to hand, good progress is being made with the Empire stations in course of erection at Daventry. The roof will be on the station building at Washford Cross by September, so that bad weather will not delay the installation of the plant. Work has begun on the masts, which are to be of the metal tubular type, 60 to 80 feet high, and not wooden as originally intended.

Addressed Programmes.

AT the conclusion of a sponsored programme featuring Richard Crookes, tenor, from one of the Californian broadcast stations last Tuesday afternoon, and which was relayed by KKW, they announced that the broadcast was "specially addressed for exclusive use by KGU, Honolulu."

Special Broadcast from EAQ.

THE special broadcast for New Zealand which station EAQ promised for August 25 apparently did not take place.

They commenced their regular programme at 11 a.m., as usual, which came in at R3. This increased to R5 by noon, when our programme was timed to start, but all announcements were made in Spanish after this time; in fact, a long talk in this language was heard soon after 12 a.m. They closed as usual at 12.30 p.m. Volume toward the conclusion was up to about R8, with slight gushiness.

Arrangements had been made for a relay by 2YA, but as reception was not good enough till near closing down, and the special programme did not eventuate, this was not attempted.

Log for Week Ending August 27

CONDITIONS have been normal during the past week, with nothing special to report.

RV15, Siberia, 70.1 metres. This station has come in well on most evenings up to R9.

HVJ, Vatican City, 50.26 metres. R8-9 on Saturday between 6.30 and 6.45 a.m., with slight static.

RV59, Moscow, 50 metres. Varies, some mornings about R7 at 8 a.m., but

usually weaker now till 8.30 a.m., after which they are seldom audible.

W9XF, Chicago, 49.18 metres. Tuesday and Wednesday, R5 at 4 p.m., to R8 by 5 p.m., but spoilt by static, etc.

W8KK, Pittsburgh, 48.86 metres. Very good on Tuesday, being R9 at 4 p.m., when they closed down.

REN, Moscow, 45.38 metres. R8 at 6.45 a.m. on Saturday, with slight fading.

PRVA, Rio de Janeiro, 31.58 metres. Tuesday, R4 and very gushy from 10.30 a.m. till 11 a.m.

VK3ME, Melbourne, 31.55 metres. Wednesday and Saturday, R9, with severe fading as usual. They commence at about 9.30 p.m.

OXY, Denmark, 31.51 metres. On Tuesday at 8 a.m. this, or another station on this wavelength, was quite good at R6, with some good music. No call was heard, while reception was so good. On other mornings they were only just audible at their best, which is about this time.

W2XAF, Schenectady, 31.48 metres. On Thursday at 9.30 a.m. I tuned in W2XAF as they were opening the station for the day. Volume was only R3, but readability about 50 per cent. They faded out soon after till near 2 p.m., reaching about R8 by 3.30 p.m.

Zeeson, Germany, 31.38 metres. Still varies quite a lot, but often very good at about 8 a.m. and earlier.

WIXAZ, Springfield, 31.35 metres. Also heard on Thursday morning at 9.30 a.m., a little better than W2XAF. Reception during the afternoon is usually good soon after 2 p.m. till 3.30 p.m.

VK2ME Sydney, 31.28 metres. Sunday evening and Monday morning, R9 with severe fading. They were on the air again on Saturday from 10 p.m. till 11 p.m., with a relay from Melbourne of the Melbourne Symphony Orchestra and a talk in connection with the celebration of Kellogg Pact Day.

CT1AA, Lisbon, 31.25 metres. Heard only on Saturday, when they were R3 at 9 a.m.

Japanese, 31 metres (about).—Talk at R7 on Saturday at 12 p.m.

J1AA, Japan, 31.6 metres (about).—Each evening from about 9 p.m. or soon after, talks and music, usually about R8 to R9.

EAQ Madrid, 30.4 metres. Every day from 11 a.m., not so good now as a few weeks ago, usually R7 at their best.

Radio Colonial, Paris, 25.6 metres. Still coming in well each morning from soon after 7.30 a.m. till 10.30 a.m. Volume goes off a little soon after 8 a.m.

G5SW, Chelmsford, 25.53 metres. Thursday was a little above the average, R4 at 8 a.m., increasing R7 soon after 9 a.m. Then down again to R4 till after 10 a.m., when the B.B.C. Dance Orchestra, under the baton of Henry Hall, was quite good at R7. Big Ben was very clear, striking midnight at 10.30 a.m. The announcements in reference to the next day's programme and news session was 75 per cent. readable. They closed down at 10.40 a.m. On Monday and Wednesday, at 11 p.m., 5SW was R3, but too gushy to be readable.

12RG, Rome, 25.4 metres. Every morning at about R6 at 8 a.m., to only just audible by 9.30 a.m., fading out soon after.

KKW, California, 21.77 metres. Tuesday with the well-known American comedians, Amos and Andy, from 2.30 p.m. at R9, and a programme for KGU from 3 p.m. till 3.30 p.m.

I did not hear KKW on any other day during the week.



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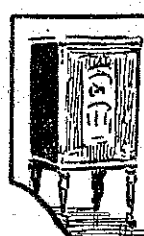
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Of FEMININE INTEREST

By "Patricia"



SOME handy hints were given by Mr. Meecham, secretary of the St. John's Ambulance, from 2ZW when he dealt with various forms of unconsciousness such as those derived from sunstroke, fits and hysteria. Sunstroke is possible even in New Zealand, although not frequent, but it is nevertheless essential that care should be taken to see that neither the head nor spine is exposed to the glare of the summer sun. In the case of fits, see that the mouth is kept open by something that cannot be bitten through, such as a piece of wood, so that the patient does not bite the tongue, at the same time loosening all clothing and allowing ample freedom for the respiratory organs. In the case of a woman who develops that type of hysteria which was at one time considered a woman's proclivity, the advice is to offer no sympathy, display no interest; in fact, totally ignore her; in fact, complete disinterestedness is the best corrective.

A few remarks were made in connection with clothes catching on fire. The advice is not to rush into the open air, but get a blanket, rug, or similar covering, wet if possible, lie flat on the floor and endeavour to smother the blaze. Failing to have a blanket handy, burning clothes can often be extinguished by lying flat on the floor immediately and rubbing out the flames with the hands.

MANY and varied are the lecturettes we listen to over the air, and one that will interest many of my own sex was on "Corsets" given from 2YA. It appears that women are being carefully catered for in these garments, which to-day are more than ever necessary if we are to have the correct figure on which to hang the almost skin-tight dresses that are the present vogue.

A GENERATION ago woman had one conventional form, no matter

what mould her anatomy decreed, and that form was willowy with bulges totally unlike anything in nature. Relentless fashion demanded the mode, and manufacturers made iron-clad stays with strong laces with which to draw in and compress Venus into a figure somewhat resembling a wasp. Since those days the artist, the medical faculty and anatomists have insisted that the dress-designer shall recognise the five foundation conventional forms of woman's figure, and corsets have been made accordingly. To each type there are thirteen variations, and it is therefore possible for every woman to retain or enhance her natural figure without undue discomfort and harm. In spite of physical exercises few women are developed so that corsets are unnecessary, and expert advice should be obtained if possible when buying these garments.

THROW in your weight and pull for the shore was the theme on which Canon Taylor dwelt when ap-

pealing to listeners of 2ZW. The City Mission is undoubtedly one among the many organisations that is doing a noble work in helping the distressed, but its finances are at such a low ebb that Canon Taylor is apprehensive of its being able to carry on the good work unless the £2000 which is so urgently needed eventuates at the coming "Silver Lining Fair" commencing on September 12. He has now 380 volunteers, and he asks that THESE receipts were put over the air from 2YA by Miss Christian. of the Wellington Gas Company:—

of one piece with the date cream, sprinkle with chopped almonds, place other half on top and coat with icing. Decorate with small pieces of sliced dates and almonds.

School Cake: 1lb flour, pinch salt, 1 lb sugar, 1/2 lb butter, grated rind of one lemon, 2 eggs, 2oz mixed peel, 4oz sultanas, 4oz currants, 1 large teaspoonful baking powder, 1 1/2 gills milk. Rub butter into flour, add baking powder, sugar, grated lemon rind, and prepared fruit. Mix thoroughly with beaten egg and milk. Pour into a well-greased tin and bake in a moderate oven for one and a half hours.

Our Cookery Corner

Anchovy Olives.—Take several olives, cut a thin slice off the bottom of each to make them stand well, then with a sharp knife peel them at the thick end like peeling an apple, but keeping the blade close into the stone so as to take the whole of the flesh off in a thick spiral coil, which when pressed together again will resume its natural shape. Into the place left by the stone put a little anchovy paste and, if liked, one or two capers. Spread some croutons thinly with anchovy paste, put teaspoonful of very thick mayonnaise sauce or well-whipped cream on each, and set the olive upright in the midst so that it stands like an egg in an egg-cup. Any other puree can be used instead of anchovy, such as chopped ham, tongue or liver, and a circle of chopped white of egg or aspic jelly can be placed round it.

Date and Nut Sandwich: 2 eggs, their weight in butter, sugar and flour, 1 teaspoonful baking powder, 1 teaspoonful vanilla essence, a little milk, and a pinch of salt. Sieve flour, baking powder and salt together, cream butter and sugar, add yolks of eggs,

and beat well; stir in the flour, etc., adding milk as required. Lastly fold in the stiffly beaten whites of eggs and essence. Pour mixture into shallow well-greased sandwich tin (6 inches in diameter), and bake in a moderate oven 30 to 35 minutes.

Date Filling.—Soak 6oz dates in a little warm water, remove stones, chop and mix with whipped cream. Split sandwich in two and spread the top everyone, young and old, no matter how little their strength, shall pull their oar, so that the boat may, out of the storm and chaos of the waves, reach the shore in safety. His appeal, I feel sure, will not go unrequited.

THESE recipes are from 2ZW:—

Sandwich Cake Filling.—Beat 2 tablespoonfuls of butter with 2 tablespoonfuls of icing sugar, with a wooden spoon for ten minutes. Add one tablespoon of milk and beat a little longer, then add 1 tablespoonful of boiling water and flavouring. Continue beating until it creams, spread one half of cake with raspberry jam, and on that spread the cream, and you will have a delicious filling.

Curried Eggs: 4 hard-boiled eggs, 1 pint curry sauce, which is made by mincing 1 onion and one apple, which fry in 1oz butter until pale brown. Add one dessertspoonful curry powder, 1 dessertspoon flour, a little salt and lemon juice, and one teaspoonful sugar, fry all till brown, then add milk and stir well until it boils. Shell and cut in quarters the hard-boiled eggs, and pour over them the curry sauce. Serve with a border of boiled rice and garnish with slices of lemon.

even more fascinating and should be of great assistance to all students and everyone who is interested in music.

I AGAIN listened with pleasure to Mr. Burrows's talk from 3YA on an "All Black's Impression of South Africa." It was like going over old ground for me. This week he did not speak so much of the places visited as of the people themselves, and he conveyed the impression that he was not particularly enamoured of the Dutch element. It is a calamity to be greatly deplored that the Dutch are so antagonistic to the British.

MR. BURROWS related some humorous incidents in connection with native servants, and these, although they would appear to be far-fetched, do really happen. I think the lady Mr. Burrows visited in Zululand was very lucky to have such a thing as a wash-house with a copper, as these utilities are scarce even in some of the cities of Natal. I know several people in Pietermaritzburg who in every other respect have beautiful homes, whose laundry work is done by a native woman in the garden, the clothes being boiled in the ubiquitous kerosene tin, lodged on bricks over a wood fire.

THE story of the Kaffir servant in Port Elizabeth who, while sitting on the door step cutting bread and butter, had the loaf on his lap, and a lump of butter stuck on his toe, is quite feasible, but this would not alarm the ordinary South African housewife. She gets used to these things. In spite of these little idiosyncracies, the native, especially the Zulu, as a rule makes a good domestic. He has, however, one failing, and that is that periodically he feels it incumbent to go home to his kraal, where he stays for three or four months, and although he usually arranges for a deputy to take his place, the custom is not always convenient to his employer.

MR. BURROWS also told how the Dutch were hated by the natives. It does not need an acute observer to see this, and probably one of the reasons why the Boer hates the British is because the latter demands that the native gets a fair deal, and is treated like a human being.

ADVICE of the utmost importance was given from 2YA by the representative of the Department of Health with regard to dogs and communication of hydatids to human beings. On an average one death per month occurs in the Dominion, through this disease, generally among young persons, which has been contracted from the dog. The complaint arises from swallowing the eggs of the tape-worm, which the dog gets from eating uncooked offal. In human beings the disease may show no obvious signs, and may lie dormant for twenty years. Eggs may be carried on the hair, or on the nose of the dog, and transmitted to vegetables in the garden, such

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as cabbages and lettuce, and even to watercress. It is therefore essential that all raw vegetables that could be contaminated should be thoroughly cleansed. Very often through ignorance children are allowed to play with dogs, which lick them, and rub against their mouths, thus allowing hydatid eggs to be absorbed into their systems, and so long as it is not known if a dog is absolutely free of worms—which he might have contracted in playing with other dogs—the practice is in every way inimical to children. Dog lovers who desire their pets to be well and healthy, should see that any offal eaten is thoroughly boiled, that they have clean bedding, and their kennels scalded regularly. Even these precautions are not always enough to free a dog of contamination, as it is impossible to prevent his association with other canines, and a drench should be given him three or four times a year, even if he is not suspected of harbouring hydatids.

MANY people have been through the "New Forest," that lovely corner of Old England that still retains much of its ancient glories. The name has never been altered since William the Conqueror had it planted and reserved for the Royal hunting ground. Mr. James Deane, president of the New Zealand Forestry League, gave a delightful talk (3YA) on this natural and national treasure. There are 60,000 acres of forest, where oaks, beeches, and elms predominate, and though the evergreens of New Zealand have a beauty all their own, the deciduous trees of our English forests, with their seasonal change of colouring, are the glory of the countryside. In the spring, primroses, bluebells, and violets grow wild in profusion in these lovely woods, while in the winter the scarlet berries of the holly lend a touch of colour to the sombre greyness of the leafless trees. For hundreds of years charcoal burning has been one of the chief industries of the Forest, and this highly specialised trade has been handed down in families for many generations. There are ruins of churches, abbeys, priories, etc., that date back to the Norman Conquest and before. A stone of great interest is the "Rufus stone," which marks the place where the red-headed king was struck by the arrow which ended his life. These and the quaint villages with their thatched cottages dotted throughout the Forest are sights that should not be missed by those who visit the Old Country.

FROM 2YA Captain Galloway gave an interesting talk on the efforts of Albert Calmette and his confreres to eradicate tuberculosis. With Pasteur as guide, philosopher and friend, Calmette early discovered that tuberculosis was mainly contracted by the digestive tract, and with untiring energy promulgated bacilli of bovine type from cattle which had become immune. His work was interrupted by the Great War, but upon resumption he was able to demonstrate that his theories were correct, and practical immunity from attack was achieved when newly-born infants were given his B.C.G. formula to swallow. It was noticed that the mortality rate decreased in this instance from 15.9 per cent. to 3.4 per cent., which is undoubtedly a very encouraging discovery to make.

A TEMPORARY setback which the method received through the recent calamitous Lubeck experiment was dissipated when the German Gov-

ernment after exhaustive investigation announced that the catastrophe was due solely to the accidental administration of a culture of human bacilli. Romantic biological discoveries of the great pathologists of all nations make extremely interesting broadcast talks, and I never listen to Captain Galloway without thinking how many honoured names are commemorated in thought only. We always expect to hear of immense numbers when anything appertaining to America is broadcast, and it was truly astounding to hear that by the efforts of the Junior Red Cross in the United States the bakers had undertaken to supply with Government flour ten million pounds weight of bread per week for the unemployed, and that 90 per cent. of the bakers were co-operating in the scheme. With this instance of com-

munity service one will have no doubt that the ultimate aim of the Junior Red Cross to have a ten million membership will have actuality within a very short period.

A LADY who recently entered the Columbia Broadcasting System, New York, for an audition, asked to be allowed to sing duets, because said she; "my voice is too strong for one person."

WHEN travelling with children, whether by car or train, mothers are well advised to substitute some "pillows" for suitcases. All that is needed are square pillow covers in dark casement cloth or gay cretonne, lined with white or light-coloured fabric, and provided with reliable press studs. Into such receptacles woven at-

tire, underclothes, bathing paraphernalia, dressing gowns, hose, and any soft odds and ends can be packed, the "pillows" being used for tired little backs and heads throughout the journey. The idea, where a party is concerned, relieves those in charge of all trouble in sorting at the journey's end, as each child can have a case, and if sufficiently grown up be responsible for its transit too.

BASEMENT and other concrete floors that are uneven can be satisfactorily covered and made even by this method: Fill the cracks and crevices of the floors with cement, and when this is dry and firm overlay the whole floor with a compressed paper—a substance nearly a quarter of an inch thick, treated with tar. This will resist damp, cold and all the disadvantages of rough, low flooring. Cover, if desired, with linoleum.

IT is interesting to observe that the Commission on Cultural and Educational Films recommends in its comprehensive report, "The Film in National Life," that the cultural future of the English kinema shall be safeguarded by the formation of a National Film Institute on lines similar to the B.B.C. Both kinema and broadcasting can command a national audience. The British system of broadcasting has preserved the programmes from the contact of commercial and sensationalist minds, and the suggested National Film Institute will be designed to free the film from utter slavery to methods of production and exploitation based upon the lowest possible estimate of public taste. It is designed to inspire the making, the exhibition, and the preservation of films in which the medium of the screen is used for scientific, cultural, educational, and documentary purposes, as well as of pure works of kinematic art. Broadcasting was fortunate to begin in its present form, while the kinema has suffered from thirty years of commercial exploitation. The first and natural reaction will be to suspect its sponsors as being "busybodies" who desire to sweep the commercial film out of existence. The report calls for nothing less than the mobilisation of the best brains, resources, and materials of the country for the gigantic task of "national projection," which is in danger of being overlooked in the profit-making schemes of commercialised theatre proprietors.

GLASS stoppers that have become wedged can be quickly removed in this way: Wind a piece of string once round the neck of the bottle, leaving both ends free. Pull these ends quickly, one after the other, and in a few moments the friction will have warmed and expanded the neck, and the stopper will be loosened.

DESPITE the generally supposed unpopularity of women announcers, many are still being engaged for the office at several important European stations. One has been specially engaged by the Oslo station for the daily broadcast of the evening news bulletin. Toulouse P.T.T. now has on its staff Madame Phalibbot, who, apart from her usual studio duties, will be responsible for running commentaries on local events. The Radio Luxembourg has, for its international publicity transmissions, already engaged the services of a woman announcer who is fluent in five European languages.

Prize Poem Competition

(Conducted by "John O'Dreams")

THE prize of half a guinea in the current competition is awarded to A.L.G. for the poem entitled "On Reading de la Mare." This subtle eulogy of the work of the English poet is very interesting, the central motive being emphasised with imaginative charm and literary dexterity, with a touch of authentic mystical atmosphere. Highly commended and extremely unusual is the work submitted by R.B.C., which is held in the meantime in the hope of publication later.

From correspondents: "I should like to add to that of other contributors my admiration and appreciation of the winning poems in the 'Record.' I found particularly beautiful and meritorious two recently published—

"Milton" and "Quest."—A.J.R.

"The Blind Potter" could not be passed unnoticed; it is what so much verse is not—satisfying."—A.J.G.

"Old Song": Picturesque in quaintness, and fascinating in lifting grace.

A.J.R.: Your subject evokes quick response in its poignant appeal, the skilful touch of the "cold mist upon the pane" linking up the elements with wistful humanity.

"Merrie" gives ear to call of the great Mother in a shadowy aspect of her diverse phases, a graceful metrical effect of spontaneity being achieved.

"The Crane" is poles apart from the work of the last-named versifier. It is a somewhat harshly-worded dedication of the great god of machinery, dynamos, and skyscrapers being presented with certainly arresting, if entirely unmusical, force.

"Democrat" sends an excellent parody of a poem of the ultra-sentimental variety, which lends itself admirably to sportive treatment of youthful iconoclast.

"Maid Marian's" pen-picture of a noonday landscape positively scintillates with enthusiasm and adjectives.

"Unfinished": A moving inspiration, adequately presented. Apparent failure is a big theme, treated in this poem with comprehension, dignified restraint, and in fitting literary form.

"We Two": Alas! a dull dialogue.

On Reading de la Mare

*He is the poet of all things lost,
The weaver of dreams come nearly true,
And he sings his songs to the hidden host
More than he sings them to me or you.
But I take his songs and I read them deep,
When Night comes down on a weary wing,
And Sleep, drawn nigh with an hundred sheep
Holds them stilled at their pasturing.
And I read and muse till the feeling comes
Of a changed state; till the murmuring
Of Her dear heart's throb in the silence drums
In the dirge of the passionate suffering.
Ah, Beauty! Though Time and the Worth of Things
Shall slay each other in bloody strife,
Thy Will lives on where the poet sings
With the sad, low voice by the side of life.*

—A.L.G.

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