How Sporting is Broadcast -- Imperial Lectures Introduced--A Valuable Location Map



unblished Weekly registered g.p.o., wellington, n.z., as a newspaper

Price 3d.

Vol. I, No. 4.

WELLINGTON, N.Z., FRIDAY, AUGUST 12, 1927.

Per Annum, Post Free, 10/-; Booked 12/6.

Sporting "On the Air Racing: : Trotting Football

Broadcasting is giving a new service to sports' enthusiasts in an instantaneous description of the race, match or contest. From "they're off" to the hard fought finish there comes pulsing through the air a running story of the thrilling struggle, so that, through the eyes of another and the unobtrusive "mike" distant listeners follow every phase.

Comparatively few of the many thousands who have heard a sporting event described have seen the narrator, or know how his work is done. As things go in this young game of broadcasting, the company's sports organiser and observer is an old hand.

He was a sporting narrator before 3YA was born. He knew 3YA's father, 3AC, who had a pittancy of 50 watts, but used it to some advantage, to the eminent satisfaction of all his clients (for in those days people, though greater connoisseurs, were not so critical as they are to-day).

Grand National week in Christchurch sees the sports organiser of the Radio Broadcasting Coy. celebrate his jubilee as a sports narrator. He has fifty creditable performances to his name. It is therefore a fitting time for a review of broadcasting conditions, so far as sports are concerned. The fear of some sports bodies that broadcasting would affect their "gate" are proving to have no foundation, but on the contrary, greater interest is created.

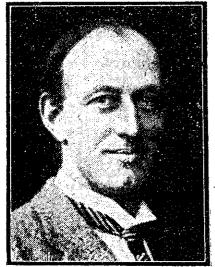


MR. A. R. ALLARDYCE, sports organiser of the Radio Broadcasting Cov., who celebrated his fiftieth broadcasting description

It is through these eyes that you will "see" the Christchurch racing this week. For the fiftieth time, Mr. A. R. Allardyce, sports organiser for the Radio Broadcasting Company, this week faces the microphone to put on the air his cool and collected account of the sporting event before him.

CONTRETEMPS AT PIONEER BROADCAST

The first sports event to be broadcast in New Zealand was the Rugby football match, Christchurch v. Old Boys, for the Charity Cup, in May, 1926. This stunt was carried through very successfully. It was, of course, a great novelty in Christchurch, and instantly found favour with all owners of listening-in sets. But little did the public know of the trials of the announcer. He incurred the displeasure of the Rugby Union officials, for they said he made too much noise, and interfered with the game. The announcer was greatly perplexed. He had been safely ensconced in a tower well above the field of play, and he could not understand how his voice could be heard by the referee, as was alleged. He thought he had spoken in a confidential manner to his friend "Mike," and that he had not become unduly excited. He puzzled over the matter for several days, and made many inquiries. Then the mystery was solved. A friend explained that a zealous "fan," proud of the reception he was getting, had put his loudspeaker on to the park fence and, with all stages of "audio" doing their best, it was hurling a description of the game back on to the ground, to the dismay of the players and referees on all the grounds.



-Jauncey, photo. MR. T. FLETCHER. Descriptions of the leading matches in Wellington are put on the air from 2YA by Mr. T. Fletcher, and are proving a popular service. sults of football matches in all centres are a regular feature of Saturday night broadcasts.

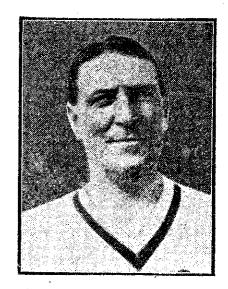
THEY GAVE IT ANOTHER GO!

This little contretemps was explained away, and the Rugby Union officials were again persuaded to let 3YA have another try. The expression on the faces of the officials seemed to say: "Poor fellow. How long has he been like this?"

The next event broadcast from Lancaster Park was the Ranfurly Shield match, Canterbury v. Hawke's Bay. With the Lew station going at its best, the transmission was heard all over New Zealand, as far north as Taranaki and Gisborne, and as far south as Invercargill. These were the pioneering days of radio broadcasting. Now, relays from Lancaster Park are regular features on 3YA programmes.

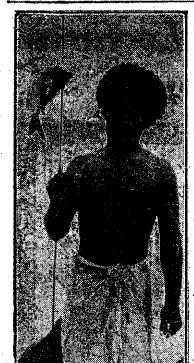
THE MASTERTON MATCH VERY TRYING.

So far as football is concerned, the zenith in achievement came in the recent broadcast by 2YA of the Ranfurly Shield match at Masterton. Although already a matter of history, this description is too fresh in people's minds to need any further reference. The spectators on that occasion gave a little trouble, but the announcer has now completely forgiven them. After all, he says they were justified in becoming a little excited. Onlookers are usually most considerate and tolerant, but at Masterton they encompassed him about and then crowded on to the touch line, so that the announcer, though six feet two in his socks, could see only half of the field. A little more provocation like that and he would add a periscope to his impedimenta, and would be imagining himself back in the trenches on Gallipoli.



MR. MEREDITH.

Broadcast descriptions in Auckland, come from Mr. Meredith, a well-known figure in Rugby circles. An interesting recent event was his description of the Association match, Canada v. Auckland, played on the League ground—a happy case of sporting camaraderie.



-Photo, Publicity Dept. The Samoan or Navigator Islands were discovered by a Dutchman in 1722, but Samoa's quite disproportionate prominence in history did not commence until the middle of the nineteenth century, when Great Britain, the United States of America, and Germany established consular agents in Apia (pronounced Ali-peea) to watch the interests of their respective nationals. Fifty years of almost continual native warfare between rival claimants to the overloadship of the islands led to constant intervention by the consuls, to much publicity throughout the world, and to an exaggerated sense among the Samoans of their importance in world affairs. The distracted people offered the sovereignty of the islands without success, firstly to Great Britain and then to the United States of America, and ultimately an arrangement was made that the affairs of the European settlement in Apia should be administered by a board consisting of the three European consuls, while outside that area the native chiefs dealt with their people in their own way. In 1888 the perennial disputes concerning the kingship reached a crisis, and an international dispute developed owing to the Consul of the United States, supported by the British Consul, adopting the cause of one party, while the German Consul supported another. Three German and three American ships of war, and one British warship gathered in Apia harbour, and there seemed every prospect of war when a violent hurricane wrecked all these vessels save the British ship Calliope. The dramatic suddenness of the disaster and the great loss of life stayed the hands of the Powers, and a conference led to an agreement that the international regime already existing in Apia should be extended throughout the whole ter-

STEVENSON'S HOME.

It was at this period that Robert Louis Stevenson settled in Samoa, and it is of interest to note that his beautiful home "Vailima" (pronounced Vyleema), high up on the hills overlooking Apia, is at present the official residence of the Administrator, and was used for a similar purpose by the Germans. Stevenson took a lively interest in the native dissensions, and earned among the Samoans, but it was not until some years after his untimely death that the native bickering finally came to a head in 1899. As the result of a further conference between Great Britain, the United States of America, and Germany, Great Britain, compensated by territory elsewhere, agreed to withdraw from Samoa; the United States of America was allotted the

The Pros and Cons of Samoa.

Here is given in a nutshell the facts concerning our administrative problem in From official information supplied by the Prime Minister's Department, the following authoritative summary of the Samoan situation was given listeners by the editor-announcer from 2YA on Friday evening last.

the only good harbour at Pago Pago (pronounced Pango Pango-all g's in Samoa being sounded ng as in "singer"), while Western Samoa, including the large islands of Upolu (pronounced Oo-pol-oo, the central o as in pole) and Savaii and the town of Apia were left to Germany. The German administration continued with periodical outbursts of native unrest until the islands were taken by the New Zealand Forces in 1914, held under military occupation until 1920, and since then under mandate from the League of Nations.

THE PENALTY OF TEMPERAMENT.

The outstanding point to be noticed is that almost as far back as the record goes the Samoans have been quarrelling and fighting among themselves. They are a brave and honourable people. loveable and excitable, with the faults and the virtues of a child. 'Political intrigue is hred in their history and in their blood, their resentment is easily roused and difficult to appease, and they are quick to seize upon any cause that can be made the subject of the endless debates and disputes that are to them almost a national pastime. Stevenson suggested as a motto entirely suitable to Samoa: "Enter rumour painted full of tongues."

New Zealand's administration of the territory has not been free from examples of the unrest that is characteristic of the people, and it is only a few years ago that the Faipule (pronounced Fy-pool-ee) of Samoa, who are

George Richardson, who is advised by two bodies dealing respectively with the concerns of the natives and the Europeans. On native affairs the Administrator is advised by the Fono of Faipule, consisting of chosen representatives of the 33 districts into which the territory is divided, and on European matters the Administrator is advised by the Legislative Council, which consists of six official members nominated by the Administrator and three unofficial members elected by the European constituency. The elected members on the Legislative Council are the Hon. O. F. Nelson, Hou. G. E. L. Westbrook, and Hon, A. Williams.

COMPLAINT AND ANSWER.

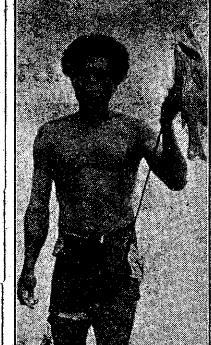
The committee which is acting as, the mouthpiece of the present movement consists of the Hon. O. F. Nelson as chairman, Hon. G. E. L. Westbrook, Hon. A. Williams, Messrs. S. H. Meredith, E. W. Gurr, and A. G. Smyth, and six native Samoans, some of chiefly rank. Their complaints and the answers of the Administration thereto, put as shortly and as fairly as possible, are as follow:-

(1) The committee content that both natives and Europeans should equally be elected to the Legislative Council, which they say should have authority to deal with all the affairs of the territory, both European and native. To this the Administration reply: (1) That the Samoans themselves in their Fono of Faipule have repudiated this suggestion, and (2) that native af-

fact that New Zealand subsidises the Samoan Treasury to the extent of some £20,000 per annum, equal to about one-seventh of the total aumual expenditure of the terri-

- (3) The committee next complain of the cost of the medical administra-tion. To this the Administration reply (1) that this service has resulted in an increase in the population, better health, better sani-tation and a large decrease in infant mortality, and that the re-sults are sufficient to justify an even oreater expenditure, and (2) that the natives in their Fono have themselves agreed to the imposi-tion of a tax for medical purposes of £1 per head on all adult natives.
- (4) The committee allege that the Fono of Faipule is not truly re-presentative of the Samoan people. To this the Administration reply that no Faipule has ever been ap-pointed or removed by the Ad-ministrator except with the approval of his people, and that no request for the removal of a Faipule has ever been refused.
- (5) The committee complain of the power taken and exercised by the Administrator to order the banishment of a native from one part of Samoa to another, and to deprive a Chief of his titles. The reply of the Administration is that this is an ancient custom of the Samoan people, its continuance was considered necessary by the Germans and is still considered necessary as a disciplinary measure by the present Administrator, and that the Fono of Fainule have approved the course adopted.

The committee criticise the Administration's prohibition of the



-Photo, Publicity Dept.

1919; that it is on all fours with the policy adopted in the other island dependencies of New Zealand, and that so far as the natives themselves are concerned, prohibi-tion is imposed in accordance with the terms of the Mandate.

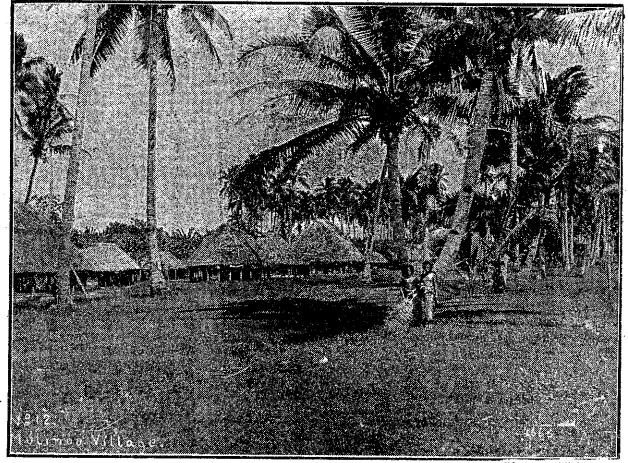
THE BASE FOR CRITICISM.

The committee base their case on what they regard as reasonable criticism of the Administration and on the principles of British justice, which they say place no restriction on such criticism, while the Administration in reply call attention to the admittedly great progress that has been made in Samoa since the inception of New Zealand administration, to the undesirability of interfering with that progress, and to the effect that the Administration's assistance in disposing of native copra has had upon the interests of certain of the European traders. The Administration further contend that whatever may be the rights or wrongs of the questions in dispute, any means by which native unrest and disaffection are aroused must be detrimental to the Samoans' own interests, which the Administration and the people of New Zealand have entirely at heart.

APPEAL TO PARLIAMENT.

A petition from Samoa has been with Parliament, and, on the other hand, a Bill introduced by the Prime Minister has been passed by both Houses of Parliament authorising the deportation of Europeans from the territory or the removal of Samoans from one portion of the territory to another if, after a hearing, it is clear that the performance of the duties imposed upon New Zealand by the mandate or of the functions of the Administration has been hindered. The Hon. Mr. Nelson and Mr. Smyth are at present in New Zealand to support the petition, which is now being considered by the School Committee of the Committee o sidered by a Select Committee of both

Opinion of all shades will agree in regretting the present state of affairs. No one who has visited these lovely islands can fail to be charmed with their beauty and with their people. Calm sunny days; cool still nights; the rolling surf of the Pacific breaking over the white reefs; the green coconut palms contrasting with the vivid scarlet of the hibiscus; luxuriant vegetation; pretty running streams and waterfalls; shady streets and paths covered with foliage as an avenue; and the picturesque open houses, or fales foronounced fa-lays), of the natives dotted about the green sward, make an unforgettable picture. The people themselves are normally the happiest and cheeriest souls, brightly and cleaning the descend require quickly and happing. ly dressed; moving quietly and happily through their easy lives, contented with little, easily amused; pleased merely to be alive, and passionately fond of singing In the evenings the whole of singing In the evenings the whole island resounds with the songs of little groups—hymns and simple melodies voices delightfully true and harmonic-Finally, the committee complain of the prohibition of alcoholic liquor in Western Samoa. To this the Administration reply that the policy was approved by the National Government of New Zealand in Votces definitive true and harmonically blended. As the next item the studio orchestra will play to vou as an example of Samoan melody the plaintiff song of farewell which is as characteristic of Samoa as is Aloha-oe of Hawaii.



-Plioto, Publicity Dept.

ONE OF THE PICTURESQUE VILLAGES OF SAMOA.

for himself undying respect and esteem the selected representatives of the whole people, addressed a petition to His Majesty the King praying that the administration of the islands should be removed from the control of New Zealand. On this occasion the Faipule have repudiated the criticism of the Administration.

UNDER OUR ADMINISTRATOR.

Samoa is at present governed by eastern portion of the group, including an Administrator, Major-General Sir a Fono of 33 members than by a minority of Samoan members on the Legislative Council.

The committee complain of extra-vagant financial administration of the territory, giving numerous de-tails in support of their allegations. The Administration in reply traverse these details, deny extra-vagance, and assert that even if there were extravagance New Zealand's bona fides in the matter are perfectly clear by reason of the

(pronounced ma-lunga), which is a ceremonial visit of one village to another. The Administration contend that these visitations resulted in the hosts being eaten out of house and home, and that their prohibition was requested by the Fono.

Finally, the committee complain of

20,000,000 LISTEN

WORLD'S BIGGEST AUDIENCE

RECORD-MAKING PRO-GRESS

How distant is the day when all New Zealand will listen to one speaker-uttering direct to the people important views on policy or performance?

The fullest present-day development of radio broadcasting obtains in the United States, which contains not only

developments of the future in relation radio engineers were on duty, since to linking the whole community into one and placing it in direct touch with an important pronouncement

By wireless, President Coolidge, a few months back, spoke directly to an audience estimated to total twenty millions. The organisation necessary to the accomplishment of this feat is outlined in the July "Scientific American," The occasion was the payment on February 22, 1927, of a tribute to George Washington. Through a network of 42 broadcasting stations, scattered throughout the territory from Portland, Maine, to San Francisco, President Coolidge spoke directly to not less than twenty million people. In addition to the regular broadcast, special short-wave length transmission enabled the voice to be heard in London, Paris, and South Africa. The British Broadcasting Cor-poration rebroadcast the American waves from station 2LO, so that listen-ers throughout the British Islands heard the President and Heart the President and the playing of "The Star-spangled Banner" by the United States Army Band, despite occasional interference and fading.

The special wire circuits used to link

the greatest number of listeners but the greatest number of operating stations. Developments there make it possible to foresee something of the gineers. In addition, more than 200 the

five or more men were occupied with the transmission of the programme at each of the 42 stations. The circuits utilised for the broadcast action consisted of telephone lines specially adapted for the purpose; as, while ordinary long-distance telephone wires may carry at the same time four or five telephone messages and numerous telegraphic communications, a special circuit for radio broadcasting must be cleared of all other traffic. Also, the broadcast circuit must be equipped with special vacuum tube repeaters or amplifiers since the ordinary repeaters have not a sufficiently wide range to cover the frequencies that are involved in the broadcasting of music and speech.

Important Predecessors.

While this is the most notable feat so far attained by broadcasting in placing an important speaker in direct touch with a nation-wide audience, it has had everal important predecessors. first occasion was when President Hard ing delivered an address at St. Louis at the World Court. This was in June 1923

little later in the ex-President Woodrow Wilson spoke over a trio of stations upon the course of events since Ar-

mistice Day and its significance. This was recognised as a very important occasion, and every precaution was taken to avoid interference, the stations not broadcasting the speech agreeing to keep off the air during the time occupied. The broadcast was quite successful. voice of the ex-President was a trifle busky, but grew better as he preceeded in what proved to be the first and last address by him, as he died a few months later. His reference to the last address by him, as ne uncommonths later. His reference to the American attitude since the war will be interesting to New Zealand listeners. He said that the attitude of America since the World War had been "deeply ignoble, cowardly, dishonourable"; that they "had withdrawn from the affairs of the world in sullen and selfish isolation," after their soldiers had aided in winning their soldiers had aided in winning "the war for right," and that the hapby memories of those "never-to-be-for-gotten days of November of 1918" were for ever marred and embittered for America by her refusal to bear any responsible part in the administration of peace and the establishment of the rights won by the war,

Effect on the People.

Many observers have tried to analyse

the peoples of the world that various improvements in the art of communication and transfer of news and thought have had. The most important advance along that line yet made is unquestionably the art of radio broadcasting, by which the leader of a na-tion, or any important, thoughtful, writer or lecturer, can make writer or lecturer, can make immediate contact, unhampered by perverted or second-hand versions of his statements, with the widest possible audience. New Zealand land is just entering upon that era, and it remains to be seen exactly what modifying and moulding influences radio broadcasting will have upon our national life. The plans hoped to be developed through 2VA, Wellington, provide for a due balance between education and a state to be a succession of the su cation and entertainment, and, as we are a moderately serious people, will incorporate into the broadcasting service a due proportion of thought-provoking matters.

Following on the example given by President Coolidge, it may be considered likely that, in the course of the coming vers, important speeches of political and other leaders will be put upon the air for the benefit of listeners unable to be bodily present.



TROTTING VETERANS BORROW ALLARDYCE'S EYES.

On being approached, Mr. A. I. Rattray, the secretary of the Metropolitan Trotting Club, Canterbury Park Trotting Club, and New Brighton Club, was only too pleased to grant permission to the company to broadcast descriptions of the trotting meetings from Addington, and allotted a dress circle position in the stewards' stand at their excellently appointed course. The first transmission from the racecourse created a great deal of interest, and one of the greatest difficulties to be contended with was to keep inquiring sportsmen from asking numerous questions while the station was on the air. They are now thoroughly educated, and behave really well.

A little coterie of old members are among the most interested onlookers. Their eyesight is not what it once was, and they everythe the amounter and

and they encircle the announcer and listen to the description of the race. They are thus able to follow the for-tunes of their respective investments. On the occasion of the Duke's visit they must have felt lost, as on this oc-casion the announcer's position was moved into the main stand.

EDUCATED UP TO THE "MIKE."

The appearance of the microphone at these events always creates a great deal of public interest, and gives rise to many animated discussions on the wonders of wireless. To-day the "mike" at Addington is an accepted fact, so much so, that on one occasion when it was decided not to broadcast the announcer went for a tramp through the country. Arriving at a

wayside inn about midday, he was interested to see someone tuning in a set. On inquiring what the fan was trying to pick up, he was told that a congregation of local residents had assembled to hear the races at Addington. It was quite impossible to convince the listeners that there was no transmission without disclosing his identity, and this he had no desire to do. The disgust of these sports can only be imagined when they tuned in at 3 p.m. and heard a selection of gramophone records from the studio.

PIONEERING EXPERIENCES AT RACING.

The first transmission from Riccarton racecourse took place a year ago this week, when a description of the races was broadcast on the occasion of the winning of the Grand National by Peter Maxwell.

This first transmission has almost become historic in Christchurch on account of the difficulties to be overcome before it could be accomplished. Firstly, the C.J.C. would not allow the broadcasters to have a position in the grandstands, as they might interrupt some of their officials or patrons, but they gave permission to work from any part of the course outside the en-

The next difficulty arose over a suitable telephone line, as at that time Riccarton was not very well supplied with lines. This difficulty was over-come by the generous action of Mr. J. McCombe, the well-known Riccarton mentor, who placed his private 'phone at 3YA's disposal during the time the races were on. Then a position had to be secured, and after a thorough investigation it was decided that the most suitable place would be on top

"They're Off"--How you get the Sporting Results

This article, continued from the cover, describes the establishment and progress of the Broadcasting of sporting events in New Zealand. Mr. A. R. Allardyce, the company's sporting organiser, has now described over fifty first-class events. From the first uncomfortable perch on a haystack, depicted below, the service has expanded, till now all facilities are courteously afforded by sporting authorities.

of a half-eaten haystack, which was situated round by the scraping sheds. or nearly three furlongs from the finishing post, at the beginning of u. back straight.

SUCCESSFUL FIRST VENTURE.

Only those who know the size of Riccerton racecourse can appreciate the distance the announcer was away from the horses. As things were not so far advanced as they are now in the broad-casting world it was necessary for the announcer to go out alone, and, armed with diagrams for the connecting up of

the amplifier, he left for the course.] Assistance was given to hanl the heavy batteries and gear connected with relays on to the top of the stack by the driver who went out, and then the an-nouncer was left to his own devices. It was necessary to run three furlongs across the course to see the starters and jockeys on the board in front of the stand, then another run back to give this information, describe the pre-liminaries, and the actual running of the race. Without glasses this was no easy matter, but the announcer was lucky enough to be able to place every

winner and second horse throughout the meeting without making a mistake. Of course, these difficulties were explained to listeners, with the added information that the placings were not to be regarded as official until he had time to go over and check them on the judge's box. "A DIPPY MAN ON A HAYSTACK."

The weather had been very wet and the stack was very cold and damp, and the only way to scramble on top was with the assistance of an old hurdle laid against the side of the stack, which wobbled ominously on every oc-casion it was used. Fortunately, the relay was voted a great success, and the announcer felt that all his labour had not been in vain.

The microphone on top of the stack may be seen in the accompanying photograph, and it certainly created much diversion among the few who had crawled through the fence to see the greates. One such group crowded management of the such group crowded managements. events. One such group crowded un-derneath the stack and indulged in much speculation as to whether the apparatus was a moving picture machine, electric timing gear, or just a perch for the stipendiary steward. They were sublimely unconscious that their conversation was being carried to the ends of the earth. The riders in the various races also evinced the greatest ous races also evinced the greatest curiosity in the contrivance, and one on returning to the birdcage reported that there was "somebody sitting on top of the haystack who was quite dippy, as he was speaking to himself."

A year has made a great difference A year has made a great united in the conditions under which a sports announcer works. He has now a snug seat in the grandstand, and every consideration shown to him by officials and patrons alike.



Location of the first sporting broadcast in New Zealand. Mr. Allardyce perched on a haystack at Riccarton, August, 1926.

THE CHIT CHAT CLUB

sleing a record of some of the dissertations of members of the X Club, on wireless matters of moment in New Zealand.

ABBCTHRANDRAETHARINNIETHBARRACTHRANBONCTHANNARACTHRANDDRCTBARRANDCTHRANDRCTHRANARCTHRANARACTHRANDRCTHRAC 🔮

fireplace in one of the well furnished, cheery rooms of the X Club was a little coterie of members. Anyone who was a frequenter of the club was to be found there regularly between five and six in the evenings. Here, in front of the blazing open fire, reinforced with glasses of something conducive of good fellowship, these self-same members nightly discussed problems small and big connected with

"Wireless bugs, poor devils," was eatch it."

joined by the oldest member, who, er, or a professional man, was needthough detesting wireless and all con- ed, and it was up to everyone to try nected with it, felt called upon to and make themselves as efficient as give his views, "for the benefit of possible through introducing medern those cheeky young devils who need keeping in their place, sir!"

drifted from squealing valves, and the particular corner of Hades reserved for their owners, to a general discussion of the programmes of the were under discussion, there were heated patches.

"I rather liked that address of Morrison's from 2YA on the 'Economics of Business,' said Larton—commonly known as "Blinks," because of his huge American goggles, and his habit of blinking fiercely at you in order to clinch a remark. "It's the sort of thing a chap needs these days, ject. with the fierce competition we have.'

"I didn't hear that one," said

Brenton, "what was it all about?"
"Well," said Blinks, planting his feet more firmly on the mantleshelf, "it was a dry subject, rather well the glass, in order, as it were, to ior-clothed with illustrations. Instead of "You can look bored if you like,"

Gathered round the great open ('fundamentals of economics' he took us for a trip round Wellington, showed us the sights, spoke of the splendid homes seen on the route, and then pointed gently, but firmly, to the would know that this same half-dozen | fact that all these represented money, and that all these people made a living somehow.

"Then he took us further afield to the dairyfarm, the forest and the sheep station, and showed us how delicately interwoven are the details of business. Even the fat middleman"-and here Blinks looked slyly at Winton Thribs--- "was shown to be the description applied to them by necessary. He said that business was many of the other club members, and the means used to supply the needs of visitors were often taken into the humanity, and in supplying those room just to have the phenomena needs business was also the way by shown to them. No one thought of which people earned their living. He entering the little circle unless he had likened the world of business to a had his baptism "on the air" for, as great machine, which, though con-Boodle, one of the wealthiest and sidered ugly and unwieldly by some, stinglest members, so aptly remarked, was generally accepted, in the hope "You never know when you might that we could further improve it. Everyone, whether he were a common At times, this little circle was labourer, a bushfeller, a skilled workmethods of thought and work."

"Hrmmph!" said the oldest mem-To-night the conversation had ber, clearing his throat. "Bosh, sirpure bosh! It's easy enough to prattle about modern methods, young man, but in my day we succeeded without them. Look at me, sir, look week, and, as usual when programmes at me. Retired at fifty through hard work. Modern methods be-"

"That's all right sir," replied Blinks, with a twinkle, "but you see, you had the advantage over us. Cash registers weren't invented in your young day."
At this, the oldest member looked

as though he were going to have an apopleptic fit, "the look of guilt," as Blinks afterwards described it-and Larton hurriedly changed the sub-

"One of the best addresses I've heard for a long time" he said, "was one from 3YA, by a missionary from China-a Dr. H. G. Anderson.

Blinks yawned prodigiously, and proceeded to take another sip from

opener for the ignorant.

"This doctor said that tourists and travellers who visit only the treaty ports consider themselves authorities on Chinese affairs and give vent to "but you can't handle them any way" on Chinese affairs and give vent to opinions which are supposed to give a true picture of China as a whole, but which in reality do nothing of the sort. While many of the treaty port business men consider that the big stick is the only way of settling the Chinese problem, this missionary says that in his opinion Britain will says that in his opinion Britain will from reap a rich harvest of good-will from her present attitude of patience and tolerance.

"This missionary has been many years in the province of Szechuan, close to the Tibetan border. In this province, about twice the size of New Zealand, there are about 60,000,000 and 70.000.000 people. More than half the population of the world lies within a radius of 1200 miles of the city! Outside the capital is the West China Union University, in which Dr. Anderson is working. The which Dr. Anderson is working. The city, from his description is a true meeting place of East and West, and in the last four years has been revolutionised through the introduction of electric light, motor cars and motor roads, telephones, and a postal system and this 2000 miles East of Shanghai.

'His chat put a different complexion on missionary matters too, for he says that there really is not the antagonism which the papers would have us believe. For years his province has been supject to the lootings of a nondescript army, and the poverty-stricken inhabitants cruelly

"Only a mob of Chinks would stand for it anyway," growled the growled the oldest member who could contain himself no longer.
"Yes, he went on to ask us to be

spared from the fools who talked of all Chinese as 'ignorant Chinks',' said Larton bitingly.

The oldest member subsided mut-

tering.

"What a gigantic task is ahead of the missionaries. He went on to say that there are 400,000,000 people in China, and the peaceful reforming of such a population is almost impos-The people in his province are changing from a 200-year-old culture to a brand new one in a single generation—and they are doing it without much friction."

"That all seems all right," said Blinks, "but don't you think the Chinks, er... I mean Chinese, just pull the legs of the missionaries in order to get medical aid and other "No, he dealt with that too. He

said that many of the Chinese were standing up against the persecution to which they were being subjected, and that, sure enough, is a pretty sound test. 'Remember,' he conclud-ed, 'the Chinese aren't just Chinks, they are people, different from rather than inferior to you and me. When ciotnea with mustrations. Instead of "You can look bored if you like," critics of the East cease to mix up to be careful, apparently, in the way can get, and dump it into the oil starting off in the usual way with the continued Larton, "but I tell you it inferiority and difference the racial you apply it, and it should not just be sump.

was something out of the ordinary, and," he added maliciously "an eye opener for the ignorant.

"The solution of the ordinary problem will be well on its way to solution." And for myself," concluded Larton, "I believe the missionary's

but with a big stick. "It's in the younger generation of Chinese that our hope would seem to lie," said Larton, "and praps its from

lie," said Larton, "and praps its from the younger generation of Englishmen that we're going to get that sympathy which will constructively help."

"I was a bit disappointed with that address on physical culture from 1YA by W. N. Kerr," said Brerton who prides himself on a knowledge of Jiu Jitsu, Swedish drill and the like. "It seemed to be a bit too much general stuff about what a decrepit lot we are—and of course we know lot we are—and of course we know it's true—and too little about what we should do."

"Yes, I thought that too," said Drexter, commonly known as "Silent George" because of the few contributions he made to the general conversation. "Modern life makes it versation. "Modern life makes it pretty hard to keep up physically, and we want to know the things we should do to put Nature at rights."

"What line did he take?" asked

Blinks. "He pointed out that disease was a coward, striking a chap only when he was run down, and that we all are

carrying around germs of diphtheria. tetanus and tuberculosis."
"Good God," said the oldest member rising suddenly, "you pack of blessed disease carriers! I'm off, for I'm damned if I want to catch any of

"I don't think he need worry much," said Drexter, "even if he has got a bit or a corporation." —"Well, to continue, this chap Kerr reckoned that it was particularly during the winter months that we should go in

your infernal diseases at my time of life," and with that he stamped heav-

for physical exercise." "What about football," said Blinks, "surely that's strenuous enough for anyone?"
"Yes, that's all right, but his talk

was really directed to the older crowd who have passed the football age. He said that a Harley St. specialist Dr. Leonard Williams, had said that if we got ill we shouldn't be pitied as victims, but should be condemned as fools. Kerr reckons that the normal life of man should be from 120 to 140 years, judging from the comparison between the time it takes for animals and for human beings to mature. His slogan is that 'the man who cannot spare time to look after his health, usually holds the averages good in taking time to be sick,' and I think there's something in that. He's a great believer in the use of the flesh glove, and almost the only prac-

tical hint he gave was to use this freely. He says that it is a very valuable exercise not only for the skin, but also for the muscles, reacting on the internal organs. You have to buy the cheapest brand of oil you

rubbed any way, but should always be up and down towards the heart. And it ought to be easy for you, Blinks, "concluded Drexter, "for you must never hold your breath—so you could still keep on talking."

"What about another?" said Brenton a remark that met with instant

ton, a remark that met with instant ton, a remark that met with instant approval. Glasses replenished, the talk drifted from wireless momentarily, to the subject of motor cars. Larton had just purchased a brand new Doshter, and was dilating on its many virtues, and the way it would climb on "top," which reminded Blinks of a trip he had had in one of the earliest models round about 1900. 1900.

"There was an interesting address on the history of motor cars from 4YA a week or so ago," said Harrison, another member of the magic circle, "and it made one think of the astonishing advances that have been made in only a few years. When you think that the first internal combustions are present weather that the state of the same than the sam tion engine wasn't made till 40 years ago, and then see the types of cars we have to-day, for carting bloated aristocrats like Larton about, you can see there's a history, and a jolly interesting one, to the motor car business.
"This bird, who called himself

'Gargoyle,' said that the first internal combusion engine using petrol, was invented by a German, Gottlieb Daimler in 1885, and was used for propelling a bicycle, later being fitted to a river boat. A Frenchman, M. Levassor, saw the possibilities of using the engine for propelling carriages, and fitting the engine to the front of the carriage, made the drive through the clutch to a set of reduction gears and thence to the back wheels. Although details have been altered, the principal of transmission remains exactly the same to-day. He went on to tell of the advances that had been made following on motor races disclosing weaknesses in different models. The first race from Paris to Bordeaux was won in a car which averaged 15 miles an hour "Another point I liked in that ad-

dress was the way in which he traced the growth of motor manufacturing in England, and he showed that we have taught the Yanks a few things about cars, and invented such things as the spare wheel, and the six cylinder engine. Feared as instruments of the Devil in the first place, all sorts of restrictions were placed on the use of motor cars, but these have been surmounted by time, and now we have the low-powered high-efficiency engine developing as much power as engines three and four times their size developed in the early days of motoring.

Another point stressed by 'Gargoyle' was the need for correct lubrication. If old Larton, for instance, doesn't give his fancy bus a good brand of oil, and plenty of it, she will seize up or peter out on him without so much as a by your leave.' Correct lubrication is a great thing and it is no longer considered sufficient

Radio Record

PUBLISHED WEEKLY.

Printed Tuesdays to permit of effective distribution before the week-end, with full copyrighted programmes for the succeeding week. Nominal date of publication

LITERARY MATTER.

All literary matter and contributions must be addressed to the Editor. If the return of M.S. is desired, enclose 1d. stamp.

SUBSCRIPTION RATES.

Rate of Subscription: Single copies, 3d.; Annual Subscription (if booked), 12/6, post free; pominal rate, cash in advance, 10/-, post free; special immediate offer for prompt acceptance, 7/6, post free, paid in advance.

ADVERTISING RATES.

Schedule of Advertising Rates available from all advertising agents in New Lealand, or write: "Advertising Manager," Box 1032, Wellington.

Advertisements requiring setting should be in hand not later than Friday of each week to ensure publication in succeeding issue. Stereos and blocks, providing space has been arranged beforehand, can be accepted up to midnight Monday.

No responsibility is accepted for blocks, stereos, etc., remaining unclaimed after last use, beyond a period of three months.

A. J. HEIGHWAY,

Managing Editor, "The N.Z. Radio Record,"

P.O. Box 1032. WELLINGTON.

WELLINGTON, AUGUST 12, 1927.

Broadcasting matters were prominently before Parliament last week, when debate arose over the action of the Government in loaning £15,000 to the Radio Broadcasting Company with which to finance the erection of 2YA. The Labour Party seized upon the incident with avidity, and attempted to flog the Government. In attempting this its speakers were anything but accurate or consistent, as is shown in our summary of the discussion elsewhere. Listeners perusing the debate will wonder at the small concern for their interests shown by the speakers. First, Mr. Holland condemned the loan "when money was so hard," and would have been satisfied apparently to have given listeners a much less efficient station. But a few moments later—away, economy, and on a new track! Mr. Holland urged the Government to take over broadcasting altogether - and of course find not only £15,000 as a loan, but outright, and the balance of £50,000 as well, and maintain the service on a basis that would suit the most extravagant! Quite palpably the whole debate was of artificial origin, staged only as an item in the pin-pricking political game. Mr. Holland showed a joint in his armour when he complained that the Prime Minister was put "on the air" and he wasn't!

The Prime Minister had no difficulty in defending the action of the Government in assisting the company to give service to the widest possible circle of listeners. The fundamental reason was national and Imperial; the obvious advantages of having a daylight range over the whole Dominion and a night range over the Southern Pacific. This, of course, transcended the agreement originally entered into, and in those circumstances a new basis had to be arrived at between the Government and the company. If one party to an agreement wishes, as in this case, the provision of an extra service, a new financial asis must be arranged. In this case the company originally planned to find £20,000. Including the Government loan of £15,000, it has now committed itself to £50,000, in order to give listeners an improved service. That indicates a more than generous desire on the part of the company to give service and satisfaction to listeners. We believe the majority of listeners appreciate the facts in the situation and are prepared to give the company a reasonable chance and a fair field. Already improvements in programmes and service are becoming apparent, and we would seriously advance that the time is ripe for the development at any rate of a period of suspended judgment. At the moment, on the point of State control, the listeners would seem to have quite convinced the Prime Minister - judging by his reply to Mr. Holland - that he would be a much happier man without responsibility for radio broad-casting than with it! The same thought impresses any who really contemplates the magnitude of the task presented by the provision of programmes satisfactory to all. Steady improvement, however, is being made, and an increasingly good range of selection made available.

With the provision of afternoon sessions from 2YA in the immediate future, a big step forward will be made, which will certainly have its effect all over New Zealand. The relaying of the Christchurch sporting events this past week proved most popular, and serves but to whet the appetite of listeners for more.

HELPING THE CHURCHES

SERMON BROADCAST

EXPERIENCE OF OTAGO.

How radio is assisting rural churches is illustrated by the fact that on two occasions when the service has been broadcast from this church, the Methodrough the sheener of dists at Kaitangata, in the absence of a local clergyman, have arranged for the installation of a receiver in their church and have joined in worship with the Central Mission congregation Reports from time to time indicate

that such is not an isolated case. use of radio in similar ways in other districts is being adopted to spread the Gospel,

When the Gipsy Smith mission services were broadcast from Dunedin by 4YA, his messages were heard in churches and homes all over Otago.

The delay in passing U.S.A. radio legislation, and the resulting confusion in broadcasting, cost the radio industry 100,000,000 dollars (£20,000,000), says I. B. F. Raycroft, vice-president of the National Electrical Manufacturers' Association ers' Association.

TRACKING OSCILLATORS

A BRITISH SLEUTH.

The latest addition to the twentieth century wonders is a van, like an un-dersized Black Maria, with a circular frame aerial on the roof H is used as a Post Office slenth in tracking down wireless oscillators. A hand on an innocent-looking dial inside the van is able to point with unerring certainty to the actual house in which the mysterious approxime oscillator resides. ty to the actual Rouse in which the mysterious annoying oscillator resides, after which the officers enter, and grafte persuasion and expert guidance follows. It is truly an ingenious system. Bearings are taken on three sides of an area visited and plotted sides of an area visited and plotted down on a large scale map. lines intersect each other, the location of the oscillator is known, and the van proceeds immediately in the indicated direction. As the house is approached the oscillations become gradually fainter, till zero point is reached, when the van gets immediately before the house ly before the house.

Novice: One who listens to a programme without getting the name of the station. Expert: One who gets the name of the station without listening to the programme.

BROADCASTING

DEBATE IN THE HOUSE

SUMMARY OF THE FACTS

During the week, debate occurred in the House of Representatives upon broadcasting matters in general, but particularly upon the loan of £15,000 by the Government to the Radio Broadcasting casting Company for the purpose of meeting the Government's desires, for Imperial and national reasons, to have a higher powered station at Wellington, that originally contemplated at the time of the agreement being reached between the company and the Government. This debate ran to some length.

THE £15,000 LOAN.

At the opening of 2YA, the Postmaster-General, the Hon. W. Nos-worthy, said that £15,000 had been loaned to the company to provide a station of a power much superior to that originally planned. On this being raised in Parliament, the Leader of the Opposition (Mr. H. E. Holland) said that the Broadcasting Company was in competition with the Post Office, and it was objectionable to lend such a sum of money without the authority of Parliament. He wanted to know why the money was lent. Was the company in such a bad position that it must go to the Government for a loan of £15,000 to enable it to carry on with its work? on with its work? He would like to know whether further loans were likely to be made. Why should such a loan be made when people who were waiting for loans for houses and other things were told that the money was not available? Mr. Holland also objected to the Prime Minister's speech being broadcast from Christchurch when his own was not.

Mr. J. A. Lee (Auckland East) said that if the Broadcasting Company was in such a had position, why should not the Government accede to the re-quest of listeners-in and make broadcasting a State monopoly? What was the return for such an example of po-

litical patronage?
Other Labour members spoke

WHY THE LOAN WAS MADE.

In the absence of the Postmaster-General, the Prime Minister capably replied to the discussion. The money was lent because the Government's technical experts recommended that it would be desirable for the Wellington station to be of such capacity as to have a daylight range over the whole of New Zealand and a night range over the whole of the South Pacific.

This necessarily altered almost entirely the financial arrangements with the company, because it introduced new factors and new costs. The big station was of the primest importance as a national and Imperial factor. The company had perial factor. The company had met fully its original commit-ments, but it was only fair on ex-tending the company's obligations to extend some temporary aid in meeting those obligations.

The Government had precedent for this from the national point of view in the advances made to coalmining and goldmining companies. ment had security for the advance made and he could see no danger provided the company gave good service to the

GOVERNMENT CONTROL?

Mr. Holland suggested that the Government should take over the control of the service,

Mr. Coates replied that if Mr. Holland had had as much to do with the matter as he had, he would be very of somebody else. It was a pioneering business and like all pioneering businesses certain difficulties were inevitable. The Government was just as anxious as anyone else to see broadcasting properly carried out and regulated. The day might come when the Government might take over the com-

THE COMPANY'S FINANCES.

In regard to the remarks of Mr. Holland and other Labour members relative to finance, the general manager of the company states: The facts are—(1) In addition to our original undertaking to find £20,000 for capital expenditure we have found and entered into commitments for £50,000, including this loan of £15-000 from the Government; thus we have ourselves already found £15,000 beyond our original undertaking and are responsible for £30,000 beyond the original sum. (2) All capital expenditures have been found by us and not penny of revenue has been diverted towards capital, but every penny of revenue has been returned to listeners in programmes and service. Our books are open in full detail to the Post and Telegraph Department and have been examined from time to

At the opening of 2YA, the Post-master-General on this point said: 'I have, on different occasions, had the finances of the company looked into and have satisfied myself that everything is in order, that there has been no unnecessary expense in administration and that the company gave as good a service as I could expect in the circumstances."

THE COPYRIGHT OF PROGRAMMES

Mr. R. McKeen in the debate said the company's "latest dodge" was to produce its own publication; to refuse to hand forthcoming broadcast pro-

grammes to the newspapers for publica-tion; and so to compel listeners-in to pay a high price for the company's

paper.
The official reply is: The facts are (1) The "Radio Record" is separate from the Radio Broadcasting Com-pany, is separately financed and separately administered. It exists to give a programme and news service to listeners and further the general cause of broadcasting. It is on a separate and independent commercial basis. (2) There has been no refusal to hand programmes to the Press for publication. I'wo free copies of each issue of the "Record" are posted to each newspaper that desires the programme serrice so that they may continue their former practice of giving daily programmes. (3) No paper formerly published programmes weekly in advance, although the opportunity was theirs to take. (4) There is no compulsion whatsoever to buy "The Record," and the price is not high.

COPYRIGHTS AND COUNTRY HALLS

The Hon. D. Buddo complained about restrictions on country halls through copyrighting,—The official reply is: The hon, gentleman must be under some misapprehension. There is no such restriction as he imagines. It is not true that the Broadcasting Company declined to allow wireless to be used in country halls unless the secretary held a license from the copyright holder. The question of the copyright of music was controlled by the owners or publishers, and once the Broadcasting Company met the royalties and copyright fees for transmission it was not concerned with what happened.

IN COMPETITION WITH THE POST OFFICE

Mr. Holland said "The company is in competition with the Post Office." -The company's reply is: We are not in competition with the Post Office. on competition with the Post Office. On the contrary, the Broadcasting Company materially enhances postal and telegraphic revenue. There is nothing that it helps more than it does the Post Office. Its ramifications extend from the North Cape to the Bluff. Listeners are continually writing and the company replies to all. It has a very large incoming and entoping a very large incoming and ontgoing mail bag. It spends a lot on telegrams and on toll calls, and it receives many telegrams and telephonic communications. It pays a large sum every year for telephones and relay lines. In a hundred different ways it augments the revenue of the P. and T. Department, but not in one particular does n deprive the Department of revenue. Nothing that it sends "over the air" makes it unnecessary for anyone to send anything by mail or "on the wire." The Broadcasting Company is not in competition with the P. and T. Department it deprive the Department of revenue. Department.

LEADING PAPER SPEAKS OUT

IRRATIONAL "CONSTANT CARPING."

A commonsense view of the broadcast situation in New Zealand and a desetved rebuke to the policy of constant carping maintained in some quarters was contained in an editorial in "The Dominion" newspaper following on the recent discussion in Parliament upon the £15,000 loan granted to the Radio Broadcasting Company. As we show elsewhere, this loan was made to facilitate the erection of 2YA, which the technical experts of the Govern-ment recommended should be made more powerful than originally planned in the agreement with the company. The company originally undertook responsibilities for £20,000, and for exceeded its obligations in the financial commitments entered upon. To provide a £27,000 plant chiefly for Empire rea sons was, however, beyond the original proposal, and hence it was only reaits own considered plans, should extend a temporary loan of £15,000 to the com-pany. Upon this peg the Official Opposi-tion fastened, and the discussion evoked this editorial comment, which is worth reproduction. reproduction:

A good deal of interest attaches to the discussion on broadcasting which took place in the House of Representatives on Wednesday evening. The number of listeners-in in New Zealand is rapidly increasing, and it is only a matter of a few years' time before something like 20 or 30 per cent. of the population may be expected to have their sets and find instruction and pleasure from wireless news and entertainments.

Most of the criticism indulged in by members was of the carping nature we have grown so accustomed to in these days. It is most wearisome and uninspiring. The Government has assisted the Broadcasting Company with a loan to enable it to develop its services to the country. Therefore, the Government is damned. Had the Government refused this assistance then the same people would have risen in their places and doubly damned the Government. How stupid it all is. How unhelpful.

There has been ground for complains amongst listeners-in on account of the quality of some of the programmes broadcast. The inferior service given was almost entirely due to lack of funds. More funds were necessary to secure the best type of broadcasting plant, and also in order to place the whole service on a stronger footing. The Government assisted by way of loan to secure some of the plant required, and to-day the service is in all respects greatly improved. As the Prime Minister stated, it has been, and still is, in its pioneering stage, and those who set out to build up the service faced the risks necessarily involved. The Government left those risks to private enterprise, and wisely so. At the proper time, should occasion arise, the Government can take over the charge of broadcasting. But that is for the future to decide.

In the meantime it is only right and just that the Broadcasting Company should be given a fair trial. In recent weeks it has made great improvements in the service given, and to-day, considering all the circumstances, listeners-in should be very well pleased with the progress recorded. There is a tendency in some quarters to expect too much. With four stations to support and four separate entertainments to provide, the Broadcasting Company is set a heavy task with a comparatively small population such as New Zealand possesses to look to for support. As the number of listeners-in increases more money should be available for improving matters. Helpful criticism should be welcomed, but the constant carping by disgruntled factions merely causes irritation and ill-feeling.

NEW YANKEE WAVE-LENGTHS

The mail just to hand brings details of the new wavelengths allo-cated to the United States broadcated to the United States cast stations by the recently ap-

The following will particularly interest New Zealanders:-

Į	Station	Location A	Tetres	Power
1	KFWI	San Francisco	267	500
1	KGO	Oakland, Calif.	384	2000
	KPO	San Francisco	422	1000
ĺ	KYA	San Francisco	309	1000
1	KFWI	San Francisco	267	500
-	KLX	Oakland, Calif.	503	500
	KFON	Lg. Bch., Calif.	241	750
į	KFSG	Los Angeles	275	500
1	KNRC	St. Monica, Calif.	. 374	1000
1	KOMO	Seattle	306	1000
1	KHQ	Spokane, Wash.	370	1000
1	KMTR	Hollywood, Calif.	526	500
	KFI	Los Angeles	468	5000
	KNX	Hollywood	337	1000
1	KOIN	Sylvan, Ore.	310	1000
1	KHJ	Los Angeles	405	500
1	KGW	Portland	491	1000
	KTBI	Los Angeles	283	750
	KFSG	Los Angeles	275	500
	KFOA	Seattle	447	1000

At present, owing to daylight saving in America, midnight in California syn-chronises with 8.30 p.m. in New Zea-

CHICAGO STATIONS

broadcast stations have been allotted the following new wave-lengths by the U.S.A. Radio Com-

WARA	208.8
WEHS, WHFC	215.7
WFKB, WCRW, WPCC	.223.7
WSBC, WWAE	232.4
WGES, WEDC	241.8
WMBB, WOK	252
WMBI, WJAZ	263
WORD, WTAS	275.1
WBCN, WENR	289.3
WGN, WLIB	305.9
WLS, WCBD	344.6
WIJD, WEBH	365.6
WBBM	389.4
WHT. WIBO	416.4
WMAQ, WQJ	447.5
WCFL	493.6
KYW	526

In trans-Atlantic telephone service the energy of the human voice is am-plified 2,000,000 times for its journey by radio. The little trickle of that energy received on the other side is then amplified as much to make it audible.

ARCHRENBURG GEBENAUT CHRURCHUNG DES CHENDERIG SEUGNOEUR SENTE AN CONTREBUNG CORRECTER REPORT CHRURC CHRURC CHRU

King in Radio

Browning Drake Sets, made up to order. From £8/5/-.

..... From £5 NEW ZEALAND CIRCUIT SETS £36/10/-KING 5-VALVE NEUTRODYNE

Nothing Else to Buy. One-valve Amplifier, including Batteries, Loud CRYSTAL SETS, 10/6 Speaker and Crystal Set £4/10/6

RADIO HOUSE. 'PHONE 41-446. F. J. W. Fear & Co. 63 Willis Street, Wellington

A RADIO EXPERT

RESEARCH APPOINTEE

A SERVICE TO LISTENERS.

'The "Radio Record" has pleasure in announcing that an appointment of outstanding interest to all radio enthusiasts has been made: that of Dr. Miles A. F. Barnett, M.Sc., Ph.D., Ass. I.R.E., as physicist to the Do-minion Laboratory. Dr. Barnett, who is now carrying out investigations in England for the New Zealand Department of Scientific and Industrial Research, is highly qualified as a radio

The services of Dr. Barnett will be available to radio in the Dominion and his advice on problems in which scientific research is necessary will

be invaluable.

Dr. Barnett has had a brillian Dr. Barnett has had a brillant scientific career. He is a son of Sir Louis Ederard Barnett, C.M.G., of Dunedin, and took his M.Sc. degree at Otago University in 1924, gaining first class honours in electricity, magnetism and mathematics. While attending the Research Station at Clara tending the Research Station at Clare College, Cambridge, he won the Den-Baynes Research Scholarship, and since then has been engaged as a qualified investigator under the Radio Research Board in England. He also worked at the Cavendish La-boratory, Cambridge, under Sir Ernest Rutherford.

Dr. Barnett has had a highly interesting radio career and has succeeded in solving a number of problems that were baffling investigators. He was one of the scientists who went with an expedition to Greenland to carry out research work into the question of the fading of radio signals, and has taken prominent part in a number of other investigations of the scientific side of radio.

Dr. Barnett is at present working at the National Physical Laboratory in England on problems associated with New Zealand's export produce, but will later be returning to New Zealand.

EMPIRE BROAD-CASTING

AN OFFICIAL STATEMENT

DIFFICULTIES OF RECEPTION NOT TRANSMISSION.

Empire broadcasting has been the subject of an important statement by the British Broadcasting Corporation. This denies that the corporation is definitely committed to play a rightful part in that connection, but declares that it declines to accept premature and unly retard and prejudice the full attain-ment of the objective.

The relaying of London programmes on a short wave-length would arouse temporary interest, but would inevitably be followed by keen disappointment and disillusionment. The corporation is relying on the zest of available scientific opinion and research at Home and abroad, and is pressing forward plans for regular Empire transmissions.

The problem is one of reception than transmission. eventual service is to reach the matority, it will have to be rebroadcast through the existing Dominion stations.

Meanwhile the corporation wishes amateurs every success in their efforts, which it hopes will contribute to a solution of a baffling problem. Though continuing the work of Empire broadcasting, the corporation is not disposed to give it priority of service. A greatly-improved system of distribution to English listeners is at present being per-

INTERNATIONAL CRISIS

VALUE OF 2YA, WEL-LINGTON

BROADCAST STATION IN CHINA SENDS TIMELY WARNING.

The Prime Minister, the Hon. J. G. Coates, recently stated that the Government would regard Wellington's superstation, 2YA, as a potent asset in time of a national crisis. Foreign residents in China received a timely warning from a broadcast station in Shanghai when the great upheaval occurred there

recently.

The Shanghai broadcast station KRC provided the means whereby thousands of missionaries and other foreigners were warned and their lives saved during the recent serious troubles in China. The story was told in a letter just received by the Kellogg Switchboard and Supply Company, of Chicago, sent to them by a group of missionaries, relating the part played by the lone Shanghai station in saving their lives.

The hampered facilities of communications and the broken-down telephone and telegraph lines and the control of the available lines by the Chinese military made the task of notifying for-eigners in the remote sections of China almost an impossibility.

Station Offers Services.

It was then that the manager of the broadcasting station in Shanghai offered to help out the American naval and consular authorities, by sending out varnings over its microphone.

While there were not many receiving sets in operation in the interior-since radio equipment is classed as munition of war in China, and therefore contra-band—there were quite a few receivers known to be scattered throughout the The warnings sent out over the Shanghai station and picked up by the lucky listeners, who spread the news to their friends and neigh-bours, made it possible to save thou-sands whose fate would have remained

Built Four Years Age.

The broadcasting station, operating under the call letters of KRC, is run jointly by the Shanghai office of the Kellogg Switchboard and Supply Company, of Chicago, and "The Chinese Free Press," a Chinese-American news-The entire apparatus, except the microphones, tubes, and other equipment sent from Chicago, is home made, having been put together four years ago in Shanghai by Roy E. De Lay, a Kellogr radio engineer. This was neces-sary, because of the embargo on the importation into China of foreign radio equipment.

Warned In Two Languages.

Little Miss Ai-lien Wu, who is the regular announcer of the station, was the one who broadcast the daily messages of warning which were picked up by thousands scattered in the in-She announces in both Chinese

and English.

The station has been broadcasting a regular daily programme in the two languages and on Sundays religious serlanguages and on Sundays religious services in three or four languages have been broadcast. The station is of 500 watt power, and has a wave length of 370 metres. It has been heard in British Columbia and in San Pedro, California. It will continue at the disposal of the authorities putil all danger is of the authorities until all danger is past.

We are on the verge of still more wonderful things in radio. A valve of higher sensitivity than heretofore 'nown was demonstrated recently in New York. The valve, which is termed a "grid-glow" relay, being filled with neon, is said to cause a modification in neon, is said to cause a modification in the plate current 100,000,000 times as great as that on the grid; or, in other words, it will respond with a 25-milli-ampere current to the most infinitesi-mal chance in its adjustment.

SHORT WAVE RECEPTION

NOW POSSIBLE TO ALL

WONDERFUL NEW DEVICE.

Until recently reception of short wave broadcast programmes was confined to amateurs and experimenters who could build their own short-wave through the invention of W. M. Bruce, Jnr., consulting engineer of the Crosley Radio Corporation, Cincinnati (U.S.A.), and expert ley Radio Corporation, Cincinnati (U.S.A.), and expert on submarine cable, the field has been widened so all radio fans who can afford the cost may use their ordinary receiving sets and enjoy the new form of entertain-

Short Wave Feats.

Short wave programmes, incidentally already are being broadcast by KDKA.
Pittsburgh; WGY, Schenectady; and
WLW, the Crosley radio station at
Cincinnati. Remarkable records have been achieved in receiving short wave broadcasts. Stations of but a few watts power have been picked up thousands of miles away.

The New Device.

The history of Mr. Bruce's new device, known as the "Lowave," is extremely simple. The unit consists essentially of a small short-wave receiving set with detector and one stage of audi frequency amplification and an oscillator tube adjusted to operate within the broadcasting range.

Short to Ordinary Waves.

Signals are received by the shortwave set and are detected and amplified by the two valves provided for this purpose. The amplified signals are then impressed on the oscillator valve, which is modulated by them and which

TORRES GERMANIS BORGONO PER CONTROL POR BORGONO PER CONTROL POR BORGONO POR LA CONTROL POR CONTROL POR

SOS

INFORMATION WANTED

We have received the following incomplete subscriptions, and would like the necessary data to enable us to send the paper:--

A P.N., 7/6, from Hastings, dated August 2; no name or address.

E. W. Meek.-No address (7/6 enclosed); August 1.

A. H. Hayes; no address. 7/6 from Morrinsville, dated August 5; no name or address.

TO SEE O PERSONAL DE SON A PROGRAMMENTA DE PRO

reproduces the signals on a longer wavelength, for example, 300 metres, so that they can be heard on an ordinary broadcast-receiving set attached to the device. It is merely necessary, then, to connect the output of this oscillator valve to a radio set, tune the set to 300 metres (or whatever wavelength the oscillator valve is adjusted to), and listen to the short-wave signals. In brief, the signals are picked up on the short wave, used to modulate an oscillator valve, and rebroadcast into the radio set at ordinary broadcast wave-

Simple, But Ingenious.

Simple as the unit is in theory, ingenuity of design has been used by the inventor in order to reproduce units in large quantities which would have uniform characteristics. The small capacities and inductances which must necessarily be used in the short wave portion of the circuit make it important that precision methods be used in its design and manufacture. As produced by fac tory methods, the new invention is both compact and rugged. The cabinet is about one-third the size of an ordinary five-tube radio set.

Connects to Ordinary Set.

To install the Lowave, the aerial lead wire is disconnected from the radio set and attached to the aerial terminal of the Lowave. The terminal on the Lowave marked "Set" is then connected to the aerial post of the radio set. The "A" plus and "A" minus terminals of the "A" plus and "A" minus terminals of the set. of the Lowave are connected to the regular "A" battery used with the radio set, while the "B" battery terminals of the unit are connected to a separate "B" battery.

Easy Operation.

Short wave tuning is accomplished by means of a control knob and a second dial adjusts the amount of regenera-tion of the short-wave detector valve In order to shift from short-wave reception to long wave reception, or vice versa, a push pull switch is provided. When this switch is pushed in, the antenna is connected direct to the antenna post of the radio set, cutting the Lowave out of the circuit. When the switch is pulled out, the incoming signals pass through the Lowave circuit before receiving the switch without cuit before reaching the switch without disturbing the connections, in order to shift back and forth from short waves to ordinary broadcast wavelengths.

To avoid mental shock to a patient who is undergoing an operation with the aid of only local anaesthetics, it is desirable to keep his mind engaged. Surgeons in St. Luke's Hospital, Chicago, now place a radio set beside the operating table and carve the conscious patient to the accompaniment of music.—Such items as "Nearer, My God, To Thee," should not be tuned in.

STATIONS LINKED

SIMULTANEOUS BROAD-CASTS

It is only a matter of time when the New Zealand broadcast stations will be linked together by land lines, so that a special programme or announcement from one of the stations will be simultaneously broadcast from each of the other three. In the United States this system has been in vogue for some time, and now one big combination operates three huge chains of stations.

HUGE AMERICAN CHAINS.

The National Broadcasting Company, with its three networks, covers the eutire United States. There are at pre-sent on the Red Network 22 cities, while eight are associated with the Blue. The Pacific coast network, which reaches from Los Angeles to Spokane, includes seven stations. It has been over these three comprehensive radio systems that the nation has heard President Coolidge and other speakers of national importance, as well as the Chicago Civic Opera radiocasts last January and other musical, political, and sports events of outstanding interest.

AUDIENCE OF 26 MILLIONS

Officials of the National Broadcasting Company have estimated that au audience of 20,000,000 persons listen when the three networks are transmitting, which is indicative of the tremendous number of radio enthusiasts to whose enlightenment and entertainment Chicago will contribute.

RED AND BLUE NETWORKS

Stations of the Red and Blue Networks are located in the following cities: WEAF and WJZ, New York; WEEI and WBZA, Boston; WJAR, Providence; WTAG, Worcester; WTIC, Hartford; WBZ, Springfield; WGR, Buffalo; WLIT, Philadelphia; WRC, Washington; WCSH, Portland, Me.: WCAR and KDKA, Pittsburg; WTAM, Cleve land; WWJ and WJR, Detroit; WSAI Cincinnati; KSD, St. Louis; WOC, Davenport; WSM, Nashville; WMC, Memphis; WMAQ, KYW, and WIEH.

ADVANTAGES IN THE DOMINION.

The chaining together of the New Zealand stations by land lines would prove of particular advantage in the event of a national crisis. Announcements brodeast, for example, from 2YA Wellington, could be simultaneously broadcast by the other three stations so that even the crystal set owners in each city could hear them.

AUSTRALIAN SUCCESS.

During the opening ceremony of the Australian capital, Canberra, several Australian stations, including SLO, Melbourne, were linked by land lines to Canberra, and listeners operating crystal sets in Melbourne heard every word uttered at the ceremony. On previous occasions Australian sta

tions have been connected by land lines with successful results.

RADIO ON THE FARM

New Zealand farmers, read this! More adio sets were sold to farmers in Western Canada last year than to any other class. Radio has developed into an important factor in land settlement. It has banished the traditional isolation of the farm. Radio keeps the new settler in constant communication with the outside world, gives him information on the latest phases of agriculture, on the latest phases of agriculture, keeps him in touch with market prices and furnishes his family with music heartsick spinster turned on the gas. and entertainment.

send you particulars.

LEARN ESPERANTO

Lesson 3 of our Esperanto course, which, as most readers are aware, is being conducted in conjunction with

2YA, is presented below.

During the instructional transmission from the station, students should have a copy of the printed lesson at hand. This point is again stressed in order that the broadcast lesson may be more readily followed and understood.

Inquiries relative to Esperanto may

be made to "The Esperanto Instruc-tor," N.Z. Broadcasting Co., Ltd., Wel-lington, or care of "Radio Record." A stamped addressed envelope must accompany each inquiry, otherwise a re-

LESSON III.

(To be broadcast from 2YA on August 18, from 7.39 to 7.51 p.m.)

The Adjective.

All ADJECTIVES (words which qualify or describe nouns) end in A. They agree with their noun in number and case. La lertA amatoro desegnis novan cirkviton. The clever amateur designed a new circuit. Grandaj stacioj sendas longajN ondojn. Large stations transmit long waves.

Degrees of Comparison of Adjectives,

The comparative of EQUALITY is expressed by TIEL (as, so) KIEL (as); mi estas TIEL forta, KIEL vi. I am as strong as you. The comparative of SUPERIORITY by PLI (more)... OL (than): ml estas PLI forta OL vi. I am stronger than you. The compara-tive of INFERIORITY, by MALPLI (less)...OL (than): mi estas MAL-PLI forta OL vi. I am weaker (less strong) than you. The SUPERLATIVE of SUPERIORITY by PLEJ (most)... EL (out of, ol); mi estas la PLEJ forta

EL (out of, of): mi estas la PLEJ forta EL c'inj. I am the strongest (most strong) of all. The SUPERLATIVE of INFERIORITY, by MALPLEJ (least). ... EL (out of, of): mi estas ta MALPLEJ forta EL c'inj. I am the weakest (least strong) of all. The SUPERLATIVE ABSOLUTE by TRE (very): mi estas TRE forta. I am very strong strong.

Vocabulary.

bela-beautiful. blanka-white blua-blue. bona—good fidela—faitliful fres'a-fresh juna-voung matura-ripe nova-new nutra-mutrition's neg'o-snow ric'a-rich sana--well, healthy c'ielo-sky heaven feste -holiday fraulino---maiden lady, miss

nomo-man, human being hundo—dog infano—child Johano—John lakto-milk mano-hand pura-pure, cleam pano-bread papero—paper table—table vino-wine onklo-mucle pli—more ol—than sed-but tre-very ne-no, not sur-on, upon

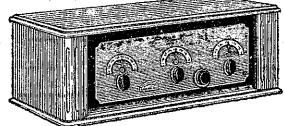
Translate and read aloud: La patro estas sana. Infano ne estas matura homo. La c'ielo estas blua. Leono estas forta. La patro estas bona. Le mano de Johano estas pura. Papero estas blanka. La papero estas tre blanka, sed la neg'o estas pli blanka. Lakto estas pli nutra of vino. La onklo estas pli ric'a oli la frate. La hundo estas fidea. La libre estas nova.

"Lady Singleton is asking for you on the television, sir." "Dear me, I shall have to call her back. I'm not dressed."

—Frank Godwin in "New York Evening Post." The first "radio snicide" is reported

from Vienna, where a middle-aged dom-estic fell in love with a musician whose broadcasts she heard over her radio. She bought his photograph and treasured it; but her impassioned love let-

5-VALVE NEUTRODYNE



This is the Wonderful Receiving Set, tested and highly recommended by the N.Z. Co-op. Dairy Co.

A £40 set for £35.

Amrad sells on its own exceptionally fine performance, and easily ranges itself alongside other sets selling at £40. AMRAD WILL GIVE ALL AUSTRALIA AND N.Z. STATIONS ON LOUDSPEAKER.

AMRAD IS NOTED FOR MELLOW TONES, FAITHFUL REPRODUC-TION, EASE OF CONTROL.

AMRAD IS BUILT FOR N.Z. CONDITIONS, AND IS SUPPLIED WITH ALL THE BEST ACCESSORIES.

REMEMBER! AMRAD IS THE BEST VALUE ON THE MARKET. PRICE 235 CASH, COMPLETE (except for poles). EASY TERMS ARRANGED.

Write now for information.

ROBERT A. GUMMER, 151 Queen Street, Auckland. (Chief Agent for Auckland Province). HAMILTON: L. V. Martin and Co., Ltd.

District TE PUKE: I. G. Shaw. Agents:

AGENTS WANTED IN UNALLOTTED TERRITORY.

The Two Biggest
Things in Radio! YA WELLINGTON WATER KENT ATWATER KENT RADIO FIRST in tonal quality, range, selectivity and ATWATER KENT RADIO is BIGGEST in sales having passed the one million mark and well on towards the second million, IT SPEAKS FOR ITSELF. Let us demonstrate or

Illustrating Model "30" Six-valve Receiver and Model "L" Speaker,

C. & A. ODLIN & CO. LTD. Wellington N.Z. DISTRIBUTORA.

From the Woman's Point of View.

\$2000 MINESTER AND A STATE OF THE ADDRESS OF THE AD

COLOUR HARMONY

Can you think of any woman of your acquaintance who is really indifferent to the atmosphere created by her surroundings? Who does not wish to capture that illusive thing called "charm" for her drawing-room or lounge? To know, too, how to choose fabrics for the bedroom that are soothing, calming, and restoring. The home is not merely a medly of haphazard colouring. It is far more—it stands as a restful retreat from the outer world, picturesque, but peacefully in-timate. To choose and blend colours correctly necessitates a knowledge of colour balance and design that will give the right atmosphere.

The production of colour harmony, said Miss Puchegud recently from 4YA, depends on the expression of a correct feeling for colour; and in or-der to express colour harmony we must know what the meaning of col-

What Are Colours?

Colours are the result of rays of white light falling upon various substances, each of which has the property of absorbing some of these rays and reflecting others. Thus red paint absorbs all other rays except red ones, which it reflects. Violet absorbs all

certain colour arrangements which are harsh and discordant, immeditely change or alter to agreeable combinations by the introduction of another tone or colour. It is true that some are born colourists, knowing instinctively the right combination to use. These happy beings have what is known as true colour sense—some-times with, but mostly without, actual knowledge of the laws operating. These people are, indeed, fortunate, for they are true artists.

Tone Values.

"Tone," she continued "-a word continually on the lips of modern artists and critics—implies the relation of all colours to each other, as determin-ed by the amount of light which each reflects. It is the value of the colour in the scheme of the whole. Tone values are to the painter or decorator what harmonies are to the musician. Splendour of colouring is not produced merely by the use of brilliant local colours. There is all the difference in the world between a number of bright, unblended tints promiscuously spotted together in a kind of patchwork, and a consistent colour scheme.

Nature's Colour Schemes.

"In nature, objects do not appear as simple masses of hard and uniform colours, but are broken into subtle grada-tions of endless variety, every tint bor-



A GREAT WIRELESS PERFORMANCE.

A great performance in which many New Zealand listeners were free performance in which many New Zealand listeners were interested at the time was an address given by the Queen of Holland from Station PCJJ to the Dutch East Indies. This was received in Australia and relayed, and altogether was a unique demonstration of the growing capacity of wireless for world transmission. The illustration shows the Queen, together with her daughter Princess Juliana, before the microphone.

xcept violet rays, and so on. urther, each colour has its contrast-ng or complementary colour, green be-ng the complementary of red, orange of blue, and vellow of violet. Thus, fter looking intently for a few momnts at a patch of red on a white round, the eye sees more or less disinctly that the red patch is surround-d by an aureole of its complementary, nd on turning immediately to a plain hite ground a patch of green is disnctly visible Again where there e two colours side by side, each surnctly visible ounded by its complementary, these omplementary colours will be fixing here they meet or overlap, again proucing a new combination.

Primary Laws of Colour.

There are two main primary laws be borne in mind—that complemenry colours, when placed side by side, eighten one another, while colours hich are not complementary detract om one another. Thus blue placed the side of its complementary, orage, appears more intensely blue, beause it receives the addition of the lue which is the complimentary of range. Contrast of colour is due to be modifications in the appearance of colours that are caused by the differences ces in hue, brightness, and purity adacent or contiguous colours. see how necessary it is to have understanding of the natural laws it govern the production of colour attempting to successfully haronise or contrast colours.

Are Colourists Born or Made?

"It is common enough to hear that blour cannot be taught," said Miss uchegud. "This is, however, an erneous idea, for colour can te taught only requires, as I have already

But in rowing something from its neighbour, complicated, because no substance can every surface displaying reflections and counter-reflections, every colour exerting its influence by relation or contrast. We have only to look at the irridescent colours seen in the plantage of the colours seen in the colours seen in the plantage of the colours seen in the c of peacocks' feathers, humming and other birds, also the splendid greens, blues, browns, and ruby colours of beetles, moths, and butterflies and other insects, also shells, to realise the wonderful law that operates in governing colour harmony and contrast. Some o the wonderful and exquisite combinations of colours seen in these farnishes one with schemes of colour harmony superior to any of the flora or other domains of nature. The more brilliant combinations might be used with great advantage in stained glass, enamels, and pottery. While some more soher and dusky harmonies seen on certain moths and butterflies' wings could very well be used, as motives for carpets and other textiles, wall coverings and other interior decorative colour schemes.

Early Use of Decorative Art.

"Right down through the age from the most primitive times humans have been susceptible to the influence of colour-from the savage who, knowing only the bright primary colours of red, vellow, and blue, down to the present period of culture and appreciation of the finer harmonies. The use of colour in decorative art dates at least from the It would be safe to say that the first attempts in solone attempts in colour arrangements were those affects produced by the weaving of different kinds of grasses and strips of bark together to form mats for clothing and other purposes. We know that some of the very earliest examples of colour arrangements in ancient Egyptian decoration were copied from the designs and patterns of woven mats Coloured bricks and small discs of coloured clavs have been used in the formation of these patterns and specimens of this work have been found in some of the oldest tombs and pyramids



MISS MARGUERITE PUECHEGUD.

whose extremely interesting lecturettes are broadcast from 4YA during the afternoon sessions, is the recinient of many letters of appreciation from listeners. On Tuesday she talks on "Interior Decovation" in its numerous branches, and she has a thorough knowledge of her subject, having studied architecture, and accumulated a wonderful knowledge of wallpapers, paints, stains, enamels, etc. She is also well versed in furniture of all periods.

Miss Puechegud has now commenced a series of cookery talks, which are heard on alternate Friday afternoons.

figure and animals, the treatment adopt ed was the illumination in colour of flat surfaces, and consequently they relied on well-balanced contrasts of colour for artistic effects. Considering the limitations of their colour range and methods of execution, it is remarkable how well they managed to obtain and preserve the fine sense and expression of colour harmony which generally characterises their work.

Origin of Primary Colours.

Miss Puchegud proceeded to say that Aliss Pachegua proceeded to say man "The colours used by the Egyptians were the pigments and tints of yellow, red, blue, green, brown, black, and white. The yellows, reds, and browns were obtained from the ochre earths, the bright blues were mineral colours. the bright blues were mineral colours composed of copper, sand and a sub-carbonate of soda. Some colours used were of vegetable origin, such as indigo. The greens were mixtures of blue and yellow, blacks were obtained from carbonaceons substances, and whites were made from lime and gypgypsum Egyptian colour combinations have a distinct character of their own, that is quite different from the colour arrangement of any time and country. As an illustration of the knowledge of the laws of colour put into practice, the Egyptians, like other nations of the Bast, remembering their bright and dazzling sunlight, have used only strong and positive colours, in order to emphasise the forms and contours of their architecture, to give the necessary varicty to surface, to keep the construction clear and to distinguish the various members of architecture which would be, if it were not for colour, almost indistinguishable in the brilliancy of the Eastern sunshine. The positive colouring of the dress material used by the natives of the East is not by any means harsh or strong when seen under the intense sunlight. Every colouring, but whatever the arrangement it will always be found that it is the expression of a correct feeling for

The Eye the Best Judge.

"Although successful decorative harmony and contrast depend on the correct feeling and expression, it must be admitted," concluded Miss Puchegud, "that the eye is the best judge of what constitutes harmony and contrast. Sometimes one is at a loss to know what particular fint or shade one should se-lect to complete the harmony of some arrangement. When in a situation like this, turn your attention to some of the countless schemes of natural harmonies. The time spent in the study of this fascinating subject will more than repay one, for there are few more lasting and exquisite pleasures than the creation of beauty in our homes and intimate surroundings."

MY HAPPY INVALID

(By "Verity."

In an upstairs room, lying on his back month in, month out, is a sick man I know, Until the other day, he used to lie for hours in tragic boredom watching a belated, stupefiled fly stagger aimlessly across the ceiling, or staring at the pattern on the wallpaper wondering fretfully why that bird with an open beak didn't have the sense to shut it. If only that blinking bird, repeated at least sixty times on the same old bough, would have the sense to shut it's blessed beak, or close it's

so tiring to hold a book directly over one's face. So until the other day he had nothing to do between doses of medicine and the doctor's visits, except So there, now, is my happy invalid. listen to the sounds in the house—a door banging (oh, curse that banging door!), the woman sweeping the stairs (what a devil of a time she takes over that flight of threadbare stair carpet!), and the occasional ringing of the door bell. Not much fun lying there with a nagging pain from a jumping nerve. Down below in the street is a vague hum of active life—lucky people are walkin about, taxi-cabs and buses are taking people to theatres, pictures, and pleasant places. Not much interest or pleasant places. Not much interest or life in a cick man's room alone with his thoughts, which are daily growing more domin-until one day a miracle It was this miracle of wireless which he had scorned so much be fore. Fate had dealt him her terrible blow. It was his wife who had it in stalled, despite his fretful protests. Now for hours at a time he forgets that jumping pain. He ignores that stupid fly, and that silly bird watching him with its bead, eye all day. He doesn't groan every time the church clock strikes another quarter, because it seems like an hour since the last chime. He has something wonderful to look for-

I see him sometimes. He is a change! And all due to wireless. . . . All our big hospitals are seeking to extend a wireless service to their patients. What a boon that will be!

OBLATION

Tis little I can give you, yet I can give you these . . . A little naked dwelling to dress it as you

please, And a low moon, a gold moon, swinging ... in the trees.

And may be in the quiet, when the stars

out-throng, Your beating heart will tell you how you were not wrong

count gold nor silver sweeter than my song.

So, fare you well or stay you, and I will go or stay,

Tis little I can give you, save love for cvery day.

And little golden heads for when your

grey.

-A. Newberry Choyce.

"WHISPERINGS FROM HOLLYWOOD"

LECTURETTE, 2YA, THURSDAY, AUGUST 11).

Mr. Lester Browne, Head Office Representative of Fox Film Corporation, who has recently returned from a visit to Los Angeles, will give a lecturette entitled "Whisperings from Hollywood," from 2YA at 9 p.m. on Thursday next, August 11. This lecturette gives a full description of the homes, habits and hobbies of the famous stars of the motion-



picture city. Every person who has heard the names of such famous people as Delores Del Rio, Mary Pickford, Tom Mix, Douglas Fairbanks, Madge Bellamy, Harold Lloyd, the Talmadges, Janet Gaynor, Olive Borden, George O'Brien, Charlie Chaplin, Victor McLaglen, Edmund Lowe, etc., cannot fail to be interested in this intimate glimpse of their social lives, and of all those people who are connected with the making of motion pictures. Mr. Browne knows most of the film stars intimately. motion-pictures. Mr. Browne knows most of the film stars intimately, and his experiences will give listeners-in of 2YA unusual and interesting broadcast entertainment of news from the city made famous by the motion-picture.

ward to! 2YA calling, all the odds and ends of the news of the day, and an evening's entertainment. Some of those lectures and talks are good in a sick man's room. They take his thoughts away—away. He ponders over the problems discussed. And all that the problems discussed. And all that music makes the time pass like winking. Some of those entertainers are such cheery fellows, too!—as though there were no such things as ill-health in the world, and yet some of them sometimes must have the toothache and feel a bit chippy. Not a bad lesson in its way to a man who grouses overmuch.

Anyhow, life has come into a sick man's room. The world of adventure and art, and music, and business, and bustle comes surging into his ears, and he takes part again, and his tortured soul is comforted. There are slips on the line, rough weather crossing to-night. Better in bed, perhaps! What a dreadful fire that was. China seems to be in a rotten state. Pity 'Varsity

didn't win that match.

What, time already for that last dose of medicine? Through the microphone voices speak to the sick men and seens idea, for colour can te taught only requires, as I have already in the valley of the Nile. Even in their colour. How often do we not see

💠 inaranciana magamatana ana magamatana ana 🦠

TELL YOUR **FRIEND**

ABOUT OUR PROGRAMME SERVICE—A WEEK AHEAD.

> The more subscribers the better service can we give.

SUBSCRIPTION RATE:

10/-Per Annum Post Free

Or 7/6 if accepted before August 13.

The Radio Record

P.O. Box 1032, WELLINGTON, Or "Dairy Exporter" Office, 23

THE BIRTH OF THE VALVE

GREATEST RADIO INVEN-TION

> You sit at your wireless set furning the dials, and through the night, from across the seas, comes music, speech, or morse, but who ever ponders over the wonder of the whole thing?

"What is the greatest radio inven-Surely not a difficult question, yet some would hesitate to answer it. And not only is it the greatest radio invention, but also the greatest electrical invention. It is the vacuum valve—the three-element radio valve without which our progress would be greatly handicapped. The transcontinental telephone, our radio broadcast stations, public address systems, transmission of photos by radio, and other very important de-

velopments of modern life, depend upon it. And to think that at the base of all these wonderful inventions lies the so-called Edison effect, a dis-covery made many years ago, and lit-tle thought of for several years later!

Thomas Alva Edison, the electrical wizard, in his pioneer work in investigating the peculiarities and behaviour of the incandescent lamp, naviour of the incancescent tamp, came upon a phenomenon which was termed the Edison effect. His work led him into the study of the physical and chemical actions which take place in highly evacuated glass tubs containing an incandescent filament.

What Effect Is.

What Effect is.

By the term "effect" physicists have long designated phenomena or groups of phenomena which are new in themselves, and which fail to arrange themselves into any given theoretical classification or to admit of an explanation under existing theories. Thus we have in physics a large number of effects to which have been given the names of their discoverers, all of . hom have been distinguished in the field of pure science, such as, for instance, the

a powerful magnetic field; the Purkinje effect, having to do with the variation of seusibility of the eye or the red and blue ends of the spectrum with high and low illumination; the Zeeman effect, having to do with the displacement of spectral lines when a radiating gas is submitted to a pow-erful magnetic field, etc.

. Edison's Great Discovery.

Of all these effects, none has been so prolific in practical consequences as the Edison effect. What is the Edison effect? It is best answered in Edison's own words, which appear in a patent filed by him in October,

"I have discovered that if a con-ducting substance is interposed any-where in the vacuous space within the globe of an incandescent lamp, and said conducting substance is connectsaid conducting substance is connected outside of the lamp with one tered outside of the lamp with one ter-minal, preferably the positive one of the incandescent conductor, a portion of the current will, when the lamp is in operation, pass through the shunt circuit thus formed."

In other words, Edison was the first to notice that a current flowed through the space in the evacuated tube, but since at that early date electrons were unheard of, no satisfactory explanation was available.

formulas governing the laws of emission and Langmuir's supplementary work showing the so-called space charge effect, we are able to give an accepted hypothesis showing that the Edison effect is simply this; that negatively charged particles of electricity, called electrons, are shot off from an incandescent conductor, such as a heated filament, and that these electrons are attracted either by the positive leg of the filament or by a second conductor, called a plate. The thermionic current which flows is unilateral. We then have the subthermionic current which flows is un-ilateral. We then have the sub-stance of a rectifying valve which will conduct currents in one direction only. And, due only to the fact that Edison was too busy with the develop-ment of the electric lamp, his discov-ery was not practically applied until Fleming (the English scientist) took advantage of it and applied it to the reception of wireless signals, eleven years afterwards.

years afterwards. years afterwards.

Fleming, in "Principles of Electric Wave Telegraphy," states:—"A third method of utilising the properties of rarefied gases for the purpose of a cymoscope was discovered by the author in 1904, based upon a fact discovered by him in 1890 in the course of some investigations upon incandesof some investigations upon incandes-cent electrical lamps."

This statement would lead one Clearer Idea Now.

To-day, in the light of Richardson's tronic emission takes place when a

filament is heated, and that the elec-tronic stream is conductive in one di-

Credit Claimed for Edison,

The Americans claim that the full credit belongs to Edison, since what flenning merely did was to apply the known principle to the rectification of wireless waves. The fact, they urge, that no mention has been made by Fleming on the Edison effect has been erroneously construed by some to indi-cate that Fleming first came upon the principle.

From the Fleming valve, which was not particularly effective as a wireless detector, the next advance made was a 8-electrode tube as conceived by De Forest. This remarkable step for-ward was the introduction of a third element—the grid—which could regu-late the passage of the electrons between filament and plate.

The audio or 3-electrode tube, in its property of operating as a detector or rectifier of signals, as an amplifier, and generator of alternating currents of any frequency, is a most wonder-ful and versatile piece of apparatus. Since its inception by De Forest it has undergone some remarkable develop-ment work, and from the unpreten-tions "oscillion valve" to the 100 kilo-watt water-cooled power tube is a tre-



Full Programmes for Next

-Copyright-

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

1YA FEATURES

TWO INTERESTING TALKS.

Mr. Stanley Bull is to speak at IYA m Tuesday at 7.30. His talk will be m "A Burmese Public Library."

n "A Burmese Public Library."
The series of lectures on "Physical Culture" by Mr. Norman Kerr will be ontinued at IYA on Wednesday evening at 7.30.

SCOTTISH NIGHT AT 1YA.

Mr. Duncan Black, the popular bass, has, by special request, arranged a special Scottish evening for IYA on Tuesday, August 16. Among the contributing artists will be the Orpheus Quartet, consisting of Misses Beryl Smith and E. Bentley, Messrs. Duncan Black and J. Simpson, all well-known performers in Auckland. The combination is a new one and has not previously been heard by radio. The Majestic's new orchestra will also be "on the air."

A GOOD CONCERT.

A GOOD CONCERT.

Mr. Barry Coney will be heard again at 1YA on Wednesday, August 17. This popular baritone will sing two brackets, "Break, Break," by Easthope Martin, and "Pat," an appealing number by C. L. Seiler. Mr. Coney's other bracket consists of "The Holy 'hild," by Easthope Martin, and "The Joy of Love," by Martini, Messrs. Davies and Salthouse will present the popular cornet duet "Besses of the Barn," and the triple tongueing number "Ida and Dot." Mr. Frank Willoughby will contribute humorous songs and sketches at the piano. Miss R. Chellburg, contralto, will sing two brackets: (a) "Lilacs," by Cadman, (b) "Down Here," by Brahe; "The Lord is My Delight," by Allitsen, and "Beloved, Sleep" (Slater). Mr. Norman Watson, violinist, is a soloist with the Acolian Orchestra.

PONSONBY BOYS' BAND.

The main portion of Thursday evening's concert at 1YA, will be given by the Ponsonby Boys' Band. The band will be assisted by Mrs. J. Parry, soprano She will sing, among other items, Sullivan's well known "Orpheus with His Lute." Mr. J. Hutton and with His Lute." Mr. J. Hutton and Mr. J. Dickson will sing some of the best songs of their repertoire.

THE MAGIC BOX.

At 6.30 on Friday evening at 1YA Tom Thumb will further mystify the children with exciting things from his magic box.

Mr. George Campbell will continue his talks on motoring at IYA on Friday evening.

A GOOD CONCERT.

Friday night's concert at 1YA has been arranged by Mr. Arthur Colledge, a bass singer who acted as soloist

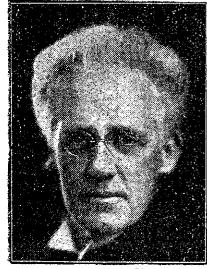


Photo Hurst. MR. CYRIL TOWSEY.

Mr. Towsey is Auckland's leading pianist, and recently delighted listeners to 1YA. He has acted as accompanist to Dame Melba, Marchesi, and John McCormack. He has toured with Mark Hamburg, Marchesi and Carreno, and is official accompanist to the Auckland Choral Society, Royal Male Choir, and Bohemian Orchestra.

or the local Choral Society in last ear's "Messiah." Miss Phyllis Grib-en, controlto, is a soloist at muni-ipal band concerts and is one of the est known contraltos in the city Miss Fladys Gammon, an elocution st well mown on the local platform. Is performing for the first time before the nicrophone Miss Gammon is a gold nedallist with the Wellington Competitions Society. The St Andrew's huartet have arranged a varied selection of items. One of Miss Gribben's sest numbers should be Del Riego's 'Sink, Red Sun.'

SATURDAY NIGHT.

At IVA on Saturday evening Mr. cred Baker will sing a new number in his tepertoire, "Uncle Rome," by Homer The Scott Sisters will preent elecutionary and soprane items, including Liza Lehmann's "Bird including Songs."

THE CATHEDRAL ON SUNDAY.

The service at the Cathedral will be broadcast by LYA on Sunday Canon Percival James is the preacher and Ar Edgar Randall is the organist and choirmaster,

Station 1YA Auckland

(WAVE-LENGTH 333 METRES.)

MONDAY, AUGUST 15.

SILENT. TUESDAY, AUGUST 16.

6.30 p.m.: Children's session-Aunt Betty.

7.15: News and information session.
7.30 to 7.45: Talk on "A Burmese Public Library," by Mr. Stanley Buil,

8.0: Chimes.

8.1: Special Scotch evening.
Relay of overture from Majestic Theatre. Mr. J. Whitford-Waugh, con-

ductor.

8.20: Bass—Mr. Duncan Black, "Scots Wha Hae."

8.25: Soprano—Miss E. Bentley, "Angus McDonald."

8.31: Quartet—Orpheus Quartet, "Ye Banks and Braes."

8.37: Tenor—Mr. J. Simpson, "Cameron Men."

8.43: Contralto—Miss B. Smith, "Hame."

8.49: Duet—Miss Bentley and Mr. Black, "Turn Ye to Me."

8.54: Quartet—Orpheus Quartet, selected.

9.0: Weather report.

9.1: Relay from Majestic Theatre.

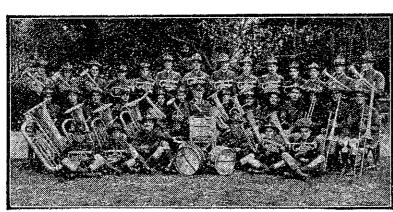
9.0: Weather report.
9.1: Relay from Majestic Theatre.
9.20: Bass—Mr. D. Black, "Melville Castle."
9.25: Duet—Miss Smith and Mr. Simpson, selected.
9.31: Soprano—Miss E. Bentley, "Comin' Thro' the Rye."
9.37: Tenor—Mr. J. Simpson, "Mary of Argyle."
9.43: Contralto—Miss B. Smith, "My Ain Folk."
9.49: Quartet—Orpheus Quartet, "There Was a Lad."
9.55: Duet—Messrs. Black and Simpson, selected.

WEDNESDAY, AUGUST 17.

7.15 p.m.: News and information session. • 7.30 to 7.45: Talk on "Physical Culture," by Mr. Norman Kerr. 8.0; Chimes.

8.1: Relay of overture from Prince Edward Theatre. Mr. Geo. Poore, con-

8.20: Contraito-Miss Chellberg, selected.



PONSONBY BOYS' BRASS BAND (Auckland).

8.28: Violin—Mr. N. Watson, "Serenade" (Pierne).
8.33: Baritone—Mr. Barry Coney.
8.38: Cornet—Messrs. Dayles and Salthouse, (a) "Besses o' the Barn," (b)

"Garden of My Heart."

8.47: Boy soprano—Master D. Lunney, (a) "Tatters" (Lanc), (b) selected,

8.55: Vocal—Mr. F. Willoughby, songs at the piano.

Weather report.

9.1: Relay from Prince Edward Theatre.

9.20: Contralto—Miss Chellberg.
9.25: Violin—Mr. N. Watson, (a) "Paradise" (Kreisler), (b) selected.
9.33: Baritone—Mr. H. B. Coney, selected.
9.41: Cornet—Messrs. Davies and Salthouse, (a) "Ida and Dot," (b) selected.
9.50: Boy soprano—Master D. Lunney, "La Donna e Mobile" (Verdi).
9.55: Humour—Mr. Willoughby—Songs at the plano.

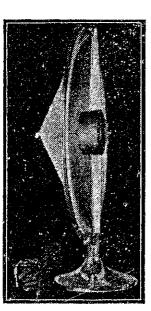
THURSDAY, AUGUST 18.

7.15 to 7.45 p.m.: News and information session,

8.0: Chimes.

8.0: Cnimes,
8.1: Relay of overture from Rialto Theatre. Mr. Henry C. Engel, conductor.
8.20: March—Ponsonby Boys' Band, (a) "Heroes of Gallipoli" (Bulch), (b)
"Paramount" (Beyer).
8.30: Bass-baritone—Mr. J. Hutton, "The Vulcan's Song."
8.35: Serenade—Ponsonby Boys' Band, "Farewell, My Love" (Mackie).
8.41: Soprano—Miss J. Parry, (a) "Echo" (Somerset), (b) "Orpheus With
His Lute" (Sullivan).

THE MASTERPIECE OF CONE SPEAKERS.



DISTORTIONLESS

FAITHFUL POWERFUL **BEAUTIFUL**

Produced by SOCIETE FRANCAISE, RADIO ELECTRIQUE, PARIS.

NEW PRICE £4/4/-

The SFERAVOX

FROM ALL LEADING RADIO DEALERS. BROWN @ DUREAU LTD.

Sole Representatives for New Zealand and Australia.

8.49: Selection-Poisonby Boys' Band, "Lucia di Lammermoor" (Donnizetti). 8.55: Baritone-Mr. J. Dickson, "Lochnagar" (Gibson).

Weather report.
 Lecture by Mr. H. C. Borrodaile, announcer, 4QG.

Lecture by Mr. H. C. Borrodaile, announcer, 4QG,
9.1: Relay from Rialto Theatre.
9.20: Bass-baritone—Mr. J. Hutton, (a) "I Will Not Grieve" (Gounod), (b)
"The Lute Player" (Mitzen).
9.29: Fantasia—Ponsonby Boys' Band, "Alexandra" (Dacre).
9.36: Soprano—Mrs. J. Parry, "To a Miniature" (Brahe).
9.41: Baritone—Mr. J. Dickson, (a) "Crown of the Year" (Martin), (b) "Garement Antique and Rusty" (Puccini).
9.50: Intermezzo—Ponsonby Boys' Band, (a) "Dancing by the Moon" (Rimmer), (b) "Under the Old Flag" (Safroni).
Mr. Fred G. Lawn, conductor.

FRIDAY, AUGUST 19.

6.30 p.m.: Children's session-Tom Thumb.

7.15: News and information session.
7.30 to 7.45: Talk on "Motoring," by Mr. Geo. Campbell.

8.0: Chimes,
8.1: Relay of concert from Messrs. John Court's, Ltd.
8.30: Quartet—St. Andrew's Quartet, "So Glad of Heart" (Oliver).
8.35: Bass—Mr. A. College, "Drake Goes West" (Sanderson).
8.40: Monologue—Miss G. Gammon, "His First Long Trousers."
8.46: Piano—Mr. G. Colledge, overture, "Bohem'an Girl" (Balfe).
8.51: Tenor—Mr. R. Peters, "I Hid My Love" (d'Hardelot).
8.55: Contralto—Miss P. Gribben, "Like to the Damask Rose" (Elgar).
9.0: Weather report

9.0: Weather report.
9.1: Violin—Miss M. Stoddart, selected.
9.5: Quartet—St. Andrew's Quartet, "Pussy's in the Well" (Rutenber).
9.11: Piano—Mr. G. Colledge, "Arabesque" (Schumann).
9.16: Duet—Miss A. Taylor and Mr. R. Peter, "Maying."

9.10: Duet—Miss A. Taylor and Mr. R. Peter, "Maying,"
9.21: Monologue—Miss G. Gammon, selected.
9.26: Tenor—Mr. R. Peters, "Farewell in the Desert" (Adams).
9.31: Soprano—Miss A. Taylor, "Solveig's Song" (Greig).
9.36: Violin—Miss Stoddart, selected.
9.41: Quartet—St. Andrew's Quartet, "In This Hour of Softened Splendour" (Pinsuti).

SATURDAY, AUGUST 20.

Pakaranga Hunt Club meeting, Ellerslie. 7.15 to 7.45 p.m.: News and sports results.

8.0: Chimes.

8.0: Chimes.
Relay of overture from Strand Theatre, Eve Bentley conducting.
8.20: Soprano—Miss R. Scott, "Bird Songs" (Lehmann).
8.25: Baritone—Mr. F. Baker, "Uncle Rome" (Homer).
8.30: Violin—Mr. A. Gracie, (a) "Herd Girl's Dream," (b) "Minuet in G."
9.47: Piano—Mr. G. Colledge, selected.
9.50: Contralto—Miss P. Gribben, "Sink, Red Sun" (Del Riego).
9.54: Quartet—St. Andrew's Quartet, "Good Night, Beloved" (Pinsuti).



WALTER SMITH'S CLICK-CLACK BAND (Auckland),

8.38: Elocution—Miss N. Scott, (a) "The Highwayman," (b) selected. 8.46: Soprano—Miss R. Scott, "Little China Doll." 8.50: Baritone—Mr. F. Baker, (a) "King Charles," (b) selected. 8.55: Elocution—Miss N. Scott, humour. 8.58: Violin—Mr. A. Gracie, "Old Refrain." 92: Weather report and sport results 9.2: Weather report and sport, results.
9.5: Relay of dance music from Click-Clack Cabaret, by Mr. Walter Smith's

Orchestra. 11.0: Close down.

RADIOTROP

SUNDAY, AUGUST 21.

6.55 p.m.: Relay of church service from St. Mary's Cathedral. Preacher,

Canon P. James. Organist, Mr. E. Randall. 8.30 to 9.30: Selected studio items.

Station 2YA Wellington

(WAVE-LENGTH 420 METRES.)

SUNDAY, AUGUST 14.

6.55 p.m.: Relay of The Terrace Congregational Church. Preacher, Rev. Ernest
R. Weeks. Subject, "The Potter's Field and Broken Earthenware." Text, Matthew 27-7. Organist, Mr. H. Brusey. Musical Director, Mr. L. Barnes.
8.15: Relay of Municipal Tramways Band from His Majesty's Theatre. Mr. T. Goodall, conductor.

The Manufacture of RADIOTRONS is exacting

Each tube must pass through thirteen stages, and at each stage it is rigorously tested and inspected. If it fails to measure up to R.A.C. standard it is rejected. Every Radiotron is a faultless and matchless radio detector or amplifier-a supreme achievement of research, engineering and manufacturing.

Made by the Makers of the "Radiola."

Send for Radiotron Booklet to Sole N.Z. Distributors:

AMALGAMATED WIKELESS (A'sia.) LID. WELLINGTON.



None Genu-

Week-All Stations- to Aug. 21

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

MONDAY, AUGUST 15.

3 to 5 p.m.: Afternoon session.

3 to 5 p.m.: Afternoon session.
7.15 to 7.30 p.m.: News session and market reports.
8-10: Chimes of the Wellington G.P.O. clock.

Instrumental—Studio Orchestra, "Reconciliation" (Fletcher).

Drawing-room concert by Miss Gwen Shepherd and party. (No times arranged. Party will do own announcing.)

Piano duet—Miss G. Shepherd and Mrs. Claude Moss, "Allegro" from "Pastoral Symphony" (Beethoven).

Baritone—Mr. Claude Moss, "In a Monastery Garden" (Ketelby).

Recitation—Mr. Will McKeown, "The Chauffeur's Dream."

Soprano—Miss Jeanette Briggs, "The Hills of Donegal" (Sanderson). 'Cello—Mr. Wynne Watkins, "Gavotte" (Popper).

Monologue—Miss G. Shepherd, "What is a Gentleman?" (Andrews).

Baritone—Mr. Sydney Allwright, "Two Grenadiers" (Schumann).

Monologue—Miss G. Shepherd, "What is a Gentleman?" (Andrews).
Baritone—Mr. Sydney Allwright, "Two Grenadiers" (Schumann).
Contralto—Miss Hilda Chudley, "Forever and a Day" (Mack).
Chorus—The company, "Funiculi Funicula" (Denza).
Instrumental—Studio Orchestra, "Soiree" (Zamecuik).
Elocutionary—Mr. Clement May, studies from Dickens.
Instrumental—Studio Orchestra, "Sarabande" (Rameau).
Piano duet—Miss Gwen Shepherd and Mrs. Claude Moss, "Bolero" (St.

George).

Recitation—Mr. W. McKeon, "Blood Oranges."

Baritone—Mr. Sydney Allwright, "Muleteer of Malaga" (Trotere).

Contralto—Miss Hilda Chudley, "Let Miss Lindy Pass" (Rogers), "A

Little Wheel a-turning in my Heart" (Goldie).

'Cello—Mr. Wynne Watkins, "Priere" (Squire).

Monologue—Miss Gwen Shepherd, "Greetings" (Parker).

Baritone—Mr. Claude Moss, "Ka Mati" ("The Bride"), (Te Rangi

Hikeroa).
Soprano—Miss Jeanette Briggs, "Pur Dicesti" (Lotti).
Chorus—The company, "Good Night" (Ross).
Instrumental—Studio Orchestra, "Valsette" (Borowski).

TUESDAY, AUGUST 16.

3 to 5 p.m.: Afternoon session.

7.15 to 7.30 p.m.: News session and market reports.
8.0: Chimes of the Wellington G.P.O. clock.
Relay of orchestral concert for school children from the Town Hall.

Relay of orchestral concert for school children from the Town Hall.
Instrumental orchestra—Savage Club Orchestra, overture, "William Tell"
(Rossini), "Praeludium" (Jarnefeldt), "Grasshoppers' Dance" (Bucalossi), "Andante" from Haydn's "Symphony" (Haydn), "Poupee Valsante," march, "Old Comrades" (Te'ke).

9.1: Lecturette—Douglas Tayler, "Music and Work,"
9.16: Contralto—Miss Audrey Bevan, "Where Corals Lie" (Elgar)
9.20: Tenor—Mr. Egerton Pegg, "Love's Pleading" (Buzzia Peccia).
9.24: Piano—Miss Gwen Shepherd, "Hexentanz" (Macdowell).
9.29: Baritone—Mr. Val. Jones, "Friend" (Novello David).
9.33: Soprano—Mrs. A. Harris, "Unmindful of the Roses" (Coleridge Taylor).
9.38: Piano—Miss Gwen Shepherd, "Rustle of Spring" (Sinding).
9.43: Contralto—Miss Audrey Bevan, "Drumadoon" (Sanderson).
9.47: Tenor—Mr. Egerton Pegg, "Good Night, Beloved" (Balfe).
9.53: Instrumental—Studio Orchestra, "Characteristic Dance, No. 1" (Coleridge Taylor).

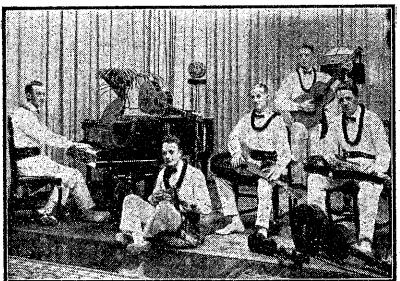
Taylor).

9.58: Soprano—Mrs. A. Harris, "The Enchanted Forest" (Phillips).

10.3: Baritone—Mr. Val. Jones, "Pagan" (Lohr).

10.8: Instrumental—Studio Orchestra, "Sous la Feuillec" (Thome), "La Belle

Pierette" (Foulds).



Barry Ingall's Hawaiians, whose popular number is frequently heard on the air from 3YA.

WEDNESDAY, AUGUST 17.

Southland v. Wellington, Rugby relay. THURSDAY, AUGUST 18.

3 to 5 p.m.: Afternoon session

7.15 p.m.: News session and market reports.

"" We W King, D.E.B.A., "Esperanto."

7.30: Lecturette—Mr. W. King, D.E.B.A., "Esperanto."
8.0: Chimes of the Wellington G.P.O. clock.
8.9: Band—Central Mission, march, "Pomp and Pageant" (Wright).
8.14: Soprano—Miss Beatrice Brittain, "Love is a Slave" (Squire).
8.18: Quartet—Bandsmen McPherson, Smith, W. and H. Baker, "Scotia" 8.18: Quartet—Bandsmen McPherson, Smith, W. and (Round).

8.25: Tenor—Mr. J. G. Osborne, "Harlequin" (Sanderson).

8.30: Band—Central Mission, "Lolita" (Lithgow):

8.35: Contralto—Miss R. Arnold, "In Haven" (Elgar).

8.39: Band—Central Mission, selection, "Slave" (Bishop).

8.50: Baritone—Mr. J. M. Meck, "Dorren" (Allen).

8.54: Elocution—Miss E. Brice, "The Sisters" (anon.).

Weather report.

9.0: Weather report.

9.11: Band—Central Mission, waitz, "Always" (Berlin).

9.16: Soprano—Miss B. Brittain, "The Crescent Moon" (Sanderson)

9.20: Band—Central Mission, selection, "Carisbrooke" (Calvert).

9.30: Tenor—Mr. G. Osborne, "Emblem" (Thompson).

9.34: Elocution—Miss E. Brice, "The Dentist" (Leacock).

9.40: Band—Central Mission, hymn, "Rock of Ages."

9.45: Contralto—Miss R. Arnold, "Jeunesse" (Barry).

9.49: Baritone—Mr. J. Meek, "To a Miniature" (Brahe).

9.53: Band—Central Mission, march, "Now, Colonial" (Hall).

10.0: National Anthem.

10.0: National Anthem.

FRIDAY, AUGUST 19.

3 to 5 p.m.: Afternoon session.

3 to 5 p.m.: Afternoon session.
7.15 p.m.: News session and market reports.
7.30: Lecturette—Mr. T. Fletcher, "Rugby."
8.0: Chimes of the Wellington G.P.O. clock.
8.1: Instrumental—Studio Orchestra, "Snowflakes" (Thiele).
8.7: Baritone—Mr. E. Quirk, "Cloze Props" (Charles).
8.11: Phono Fiddle—Mr. C. Rashbrooke, "In a Monastery Garden" (Ketelby).
8.15: Soprano—Miss E. Kimbell, "Ships of Arcady" (Head).
8.19: Instrumental—Studio Orchestra, "Chant d'Amour" (Drdla).
8.25: Contralto—Miss E. Buckmaster, "Yonder" (Olive).
8.29: Tenor—Mr. C. Williams, "Thou Art Risen, My Beloved" (Coleridge

Taylor).

8.33: Cornet—Mr. E. Ormrod, "Pilgrim of Love" (Hortman).
8.37: Instrumental—Studio Orchestra, "Valse Intermezzo" (Roemer).
8.43: Baritone—Mr. E. Quirk, "My Old Shako" (Troteil).
8.47: Phono Fiddle—Mr. C. Rashbrooke, "Watchman, What of the Night?"

(Sargeant). 8.51: Instrumental-Studio Orchestra, "Redzi" (Caludi.)

8 58: Weather report.
9.0: Lecturette—"Imperial Affairs." 9.10: Instrumental—Kit-Kat Dance Band, "My Cutey's Due" (Schuerik), "Baby Face," vocal chorus (Chili and Colm), "Sunday," 9.22: Contralto—Miss E. Buckmaster, "Country Folk" (Brahe), 9.26: Tenor—Mrs. C. Williams, "Pale Moon" (Logan).
9.30: Instrumental—Kit-Kat Dance Band, "On the Riviera" (Forbstein), "What's the Use of Crying?"
9.38: Contralto—Mr. E. Ormrod, "I Never Knew."
9.43: Instrumental—Kit-Kat Dance Band, "Red Riding Hood," vocal choruses by Bard, "Hi, Diddle Diddle," "Kentucky Lullaby."
10.0: National Anthem.

SATURDAY, AUGUST 20.

3 p.m.: Football relay. p.m.: News session. Market reports and sporting results.

7.30: Lecturette—Mr. Chas. Wheeler, "Parliament at Work."

8.0: Chimes of the Wellington G.P.O. clock.

8.1: Instrumental—Studio Orchestra, "Edelweiss Gavotte" (Fourbie).

8.7: Vocal—Miss Phyllis Andrews, "Too Many Parties, Too Many Pals"

8.7: Vocat—Miss Phyllis Andrews, "Too Many Parties, 100 Many Pals" (Henderson).
8.12: Steel Guitar Duo—Berthold and Bent, "The Rosary" (Nevin).
8.17: Entertainers—Ronnie and Monty, "Bye, Bye, Blackbird" (Henderson).
8.22: Comedian—Mr. Douglas Stark, "Glesca" (Fyffe).
8.30: Bagp pes—Mr. A. D. Small, "Medley of Scotch Airs."
8.35: Humorous recitation—Mr. Fitzroy Robson, "Uncle Josh Buys an Automobile"

mobile."

mobile."

8.40: Instrumental—Studio Orchestra, "By the Tamarisk" (Coates).

8.46: Vocal—Miss Phyllis Andrews, "When You and I Were Seventeen" (Kohn), "I Wonder Where My Baby Is To-night?" (Donaldson).

8.50: Steel Guitar Duo—Berthold and Bent, "Kawaihau Waltz" (Keoki Auri).

8.55: Entertainers—Ronnie and Monty, "Then I'll Be Happy" (Friend).

9.0: Comedian—Mr. Douglas Stark, "The Postie" (a Scotch character study).

9.8: Bagpipes—Mr. A. D. Small, "Loch Rosque March," "Maggie Cameron, Strathspey," "Duntroon Reel" (traditional).

9.13: Humorous recitation—Mr. Fitzroy Robson, "The Rev. Foster Addressing His Flock."

His Flock."

9.18: Instrumental—Studio Orchestra, "The Children's Ball" (Souza).
9.25: Relay of Chas. Dalton's Columbian Solo Six Dance Orchestra from the Columbian Cabaret, Kilbirnie.

Station 3YA, Christchurch (WAVE-LENGTH 306 METRES.)

SUNDAY, AUGUST 14. 6.30 p.m.: Relay of evening service from St. Andrew's Methodist Church. Preacher, Rev. Norman L. D. Webster, B.A. Choirmaster, Mr. J. C. McLean. Organist, Mr. R. E. Lake. Anthems: "O God, Thou Art Worthy to be Praised" (Sullivan), "The Sun Shall be no More" (Woodward). Solo: Miss Agnes McLean, "A Song of Thanksgiving"

8.6: Musical items from 3YA studio.
Piano solo—Miss Alice Gibb, "March de Rakoczy" (Berliot-Liszt).
Baritone solo—Mr. Theo. Turner, "The Ships of Arcady" (Head).
Mezzo-contralto—Mrs. A. E. G. Lyttle, "Echoes" (three songs, a, b, and c).

(Allan).
Piano solos-Miss Alice Gibb, (a) "Cradle Song" (Schubert), (b) "Cascade du Chaudron" (Bendel).
Mezzo-contralto solo-Mrs. A. E. G. Lyttle, "Have You News of My Boy, Jack?" (E. German).
Baritone solos-Mr. Theo. Turner, (a) "Tis the Day" (Leoncavallo), (b) "Thanks be to God" (Dickson).

MONDAY, AUGUST 15.

6.30: Children's session, by Uncle Sam,

7.15: News and reports.

8.0: Chimes, Studio concert by Band of 1st Canterbury Regiment (Infantry),

under direction of Lieutenant C. H. Hoskin, assisted by vocal soloists, 8.1: March—Band, "Listen to the Band" (W. G. Chapman).
8.6: Mezzo-soprano solo—Miss Doris Irvine, "Sing! Joyous Bird" (Phillips).
8.9: Boy soprano soloist—Master Frank Robinson, "A Song of Holiday"

(Slater).
8.12: Fantasia—Band, "Country Life" (Le Duc).
8.19: Mezzo-soprano solo—Miss Freida Davison, "Come to the Garden, Love" (Slater).

8.23: Tenor solo—Mr. Leonard Neil, "Two Eyes of Grey" (McGeoch). 8.26: Overture—Band, "Elfin Revels" (Rowlings). 8.31: Devonshire dialect—Mr. W. C. H. Hallams, "How the Wireless Works"

8.36; Mezza-sopiano solo-Miss Doris Irvine, "Elf and Fairy" (Densmore).
8.39: Triple tongue polka-Band, "Bostonian" (Rimmer).
8.43: Boy soprano soloist-Master Frank Robinson, "Don't Hurry" (Sander-

son). 8.53: Talk-Sports announcer, "Cricket, in Relation to New Zealand Cricket

Team in England."

9.5: Fantasia—Band, "Nursery Ditties" (Raymond).

9.13: Mezzo-soprano solo—Miss Freida Davison, "The Dawn Has a Song"

9.16: Chorus—Band, "Comrades in Arms" (Adam). 9.21: Tenor solo—Mr. Leonard Neil, "Beneath Thy Window" ("O Sole Mio").

(Di Capua). 9.25: Devonshire dialect—Mr. W. C. H. Hallams, "The Beauty Show" (M.S.). 9.29: Selection—Band, "Pirates of Penzance" (Sullivan). (Continued next pgae.)

HAS BEEN "CUT OUT"!

RIGHT IN WELLINGTON CITY BY THE 5-VALVE WONDER.SET

. Proof of this can be given anywhere and anytime. . This Set is the Best Proposition offering to-day.

£35 complete

AND LOOK WHAT IT INCLUDES!

1 Receiving Set. 1 5-Wire Loom.

1 Speaker Plug.

1 Wet Battery.
2 Heavy Duty B Batteries.
1 4½ volt C Battery.
1 Qualitone Loud Speaker.
1 Speaker Plug.

Your Current Year's

License Paid.

100 ft. Aerial Wire. 70 ft. Strainer Wire. 20 ft. Earth Wire. 2 Pulleys. 4 Insulators. 1 Earth Clamp.

1 Lead-in Tube. 1 Lightning Arrestor.

Installed Free of Charge by an Expert.

Guaranteed for 12 months -----Hire Purchase Payments if required.

Show Rooms: NATCLA RADIO COMPANY

Call to-day and see this wonder Radio Set at our

63 COURTENAY PLACE (Opp. Gas Co.) WELLINGTON. Auckland Branch: 16, 17, 18 York Chambers, Victoria Street East.

FULL STOCKS OF ALL ACCESSORIES CARRIED.

5 Tube RADIO **£9**]

COMPLETE with Loud Speaker, Batteries, etc.

£18/17/6

Will be sent on 14 days' trial, freight forward, on receipt of price. Special purchase-cannot be repeated when present stocks are sold.

Royds Motors Ltd.

211 Cashel Street, CHRISTCHURCH.

2YA WELLINGTON

SUNDAY'S SERVICES.

The service at the Terrace Congregational Church will be broadcast by 2YA on Sunday, August 14. The preacher will be the Rev. Ernest R. Weeks, and his subject will be: "The Potter's Field and Broken Earthenware." Afterwards a concert provided by the Municipal Transways Band will by the Municipal Tramways Band will be relayed.

A DRAWING ROOM CONCERT.

A drawingroom concert presented by Miss Gwen Shepherd, L.A.B., and party-will provide most of the musical fare for Monday evening. Miss Gwen Shep-herd, herself an accomplished artist, has herd, herself an accomplished artist, has got together a talented combination, both vocal and instrumental, while she has not overlooked the humorous element. Her associates will be Mrs. Claude Mass, Mr Claude Mass (haritone), Mr Will McKeown (clocutionist), Miss Jeanette Briggs (soprano), Mr. Wynne Watkins ('cellist), Mr. Sydney Alfricht (haritone), and Miss Hilda. ney Allright (baritone), and Miss Hilda Cludley (contralto).

Miss Jeanette Briggs, soprano, who is to sing on Monday evening, is the tal-ented daughter of a talented mother—

Madame Emily Briggs.

Mr. Clement May, the well-known elocutionist, will be "on the air" againt from 2YA on the 15th Another selection of delightful characterisations from the works of great authors will be presented



MR. EGERTON PEGG

Mr. Egerton Pegg, a fine tenor soloist, is to sing at 2YA on Tuesday. August 16.

MUSIC AND WORK.

The next lecturette which is to be given on Tuesday at 8 o'clock by Mr. Douglas Tayler, Supervisor of Music for the Education Department, is entitled "Music and Work."

TUESDAY'S CONCERT.

Mrs. A. Harris, soprano, who is singing at 2YA on Tuesday evening, is a cultured and experienced vocalist. She has sung for the Royal Choral Union, and was a soloist in "Faust." MR. EGERTON PEGG.

To appear at 2YA on Tuesday, August 16, is Mr. Egerton Pegg, tenor soloist. Mr. Pegg has sung in London, and from the Auckland and Wellington Press he has received high encominant. Mr. Val Jones possesses a rich bari-tone voice. He is in demand for conert work, and was very popular with 2YK fans.

The contralto will be Miss Audrey Bevin, Following a very successful Bevin. Following a very successful song recital in Nelson recently, Miss Bevin is shortly to entertain concert audiences in Dunedin and Wellington.

(Continued next page.)

Frogrammes Continued

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

3YA CHRISTCHURCH (CONTINUED)

9.37: Mezzo-soprano solo-Miss Doris Irvine, "A May Morning" (Denza).
9.40: Fox trot-Band, "La Belle Francaise" (Hume).
9.44: Boy soprano soloist-Master Frank Robinson, "June" (Quilter).
Selection-Band, "The Geisha" (Jones).
Tenor solo-Mr. Leonard Neil, "Somewhere a Voice is Calling" (Tate).
March-Band, "The Old Regiment" (first time performed in New Zealand), (Thomas).

TUESDAY, AUGUST 16.

SILENT.

WEDNESDAY, AUGUST 17.

6.0: Children's session, by Uncle Jack. 7.15: Addington stock market reports and other market reports.

Relay of orchestral selections from Crystal Palace Picture

Theatre Orchestra, under the direction of Mr. A. J. Bunz. 8.15: Bass solos—Mr. F. R. Hawker, (a) "The Admiral's Yarn" (Rubens), (b) "Off to Philadelphia" (Haynes).

(b) "Off to Piniladelphia" (Haynes).

8.21: Mezzo-soprano solos—Mrs. Bingham Puddey, (a) "In a Monastery Garden" (Ketelby), (b) "It Ought to Be So" (Brewer).

8.27: Humorous recitation, Miss Kathleen O'Brien, "In the Rain" (anon.).

8.30: Talk—Mr. Donald Grant, M.A., "Austria" (the remnant of an Empire).

8.45: Violin solos—Mr. Bernard Barker, (a) "Minuet in E" (unaccompanied), (Bach), (b) "Hymne Autrichien" (unaccompanied), (Haydn), (c) "Fugue in A" (unaccompanied), (Tartini).

8.53: Tenor solos—Mr. Douglas Suckling, (a) "'Tis the Day" (Mattinata), (Leoncavallo), (b) "You in a Gondola" (Clarke).

9.5: Relay from Crystal Palace Theatre.

9.15: Piano solo—Miss Phemie Suckling, "Impromptu" (Merkel).

9.20: Mezzo-soprano solo—Mrs. Bingham Puddey, "Retournelle" (Chaminade).

9.24: Violin solos—Mr. Bernard Barker, (a) "Andantino" (Martini-Kreisler), (b) "Roudino" (Beethoven-Kreisler).

9.30: Recitation—Miss Kathleen O'Brien, "Walnuts and Wine" (anon.).

9.34: Piano solo—Mr. Douglas Suckling, "Tarantella" (Heller).

9.40: Tenor solo—Mr. Douglas Suckling," (a) "Land of Delight" (Sanderson), (b) "O Garden of Roses" (Trotere).

(b) "O Garden of Roses" (Trotere).

9.46: Bass solo—Mr. F. R. Hawker, "The Gladiator" (Adams), 9.50: Relay Crystal Palace Theatre. 10.0: Close down.

7.30: News and reports.

THURSDAY, AUGUST 18.

 7.15 p.m.: News and reports.
 7.30: Talk by Miss M. J. Shaw, "A Square Meal," under auspices of Home Economics Association. 8.0: Chimes. Relay of orchestral selections from Everybody's Picture Theatre

Orchestra, under direction of Mr. W. J. Bellingham, F.S.M.
8.15: Tenor solos—Mr. Russell Sumner, (a) "Red Devon by the Sea" (Clarke).
(b) "I Know of Two Bright Eyes" (Cadman).
8.21: Sograno. solos—Mrs. L. A. Waters, "O! Thou Waving Field of Golden

Grain" (Rachmanineff).

8.25: Flute solos—Mr. W. Hay, (a) "Canzonet," (Percival), (b) "Mazurka" (Percival). 8.31: Contralto solos—Miss Mary Taylor, (a) "Thou Art so Like a Flower" (Liszt), (b) "Oh! Lovely Night" (Ronald).

(Liszt), (b) "Oh' Lovely Night" (Ronald).
8.37: Piano duet—Miss Alice Scarell, L.A.B., and Mrs. A. L. Jones, "Prometheus" (Beethoven).
8.43: Baritone solos—Mr. Arthur Macdonald, (a) "Prelude" (Ronald), (b) "The Star" (Rogers). (Mrs. Macdonald accompanying.)
8.49: Violin solos—Mr. John Boschetti, (a) "Canzonetta" (d'Ambrosier), (b) "Ave Maria" (Schubert-Wilhelm).
8.55: Relay from Everybody's Theatre.
9.10: Tenor solo—Mr. Russell Sumner, "When My Ships Come Sailing Home" (Dorel)

(Dorel).

9.14: Soprano solo—Mrs. L. A. Waters, "A Woman's Last Word" (Bantock).
9.17: Flute solo—Mr. W. Hay, "The Angel's Serenade" (Leoncavallo).
9.21: Contralto solos—Miss Mary Taylor, (a) "Thou Hast Bewitched Me, My Beloved" (Coleridge Taylor), (b) "Thou Art Risen, My Beloved"

(Coleridge Taylor), (b) "Inou Art Risen, My Beloved"
(Coleridge Taylor), (c) "Inou Art Risen, My Beloved"
(Coleridge Taylor), (c) "Inou Art Risen, My Beloved"

9.27: Piano duet—Miss Alive Scarell, L.A.B., and Mrs. A. L. Jones, "First Movement of Unfinished Symphony" (Schubert).

9.35: Violin solo—Mr John Boschetti, "Bolero" (Bohm).

9.40: Baritone solo—Mr. Arthur Macdonald, "Song of the Toreador" from opera "Carmen" (Bizet).

9.44: Contraito solo—Miss Mary Taylor, "Friend o' Mine" (Sanderson).

9.48: Relay from Everybody's Theatre.

FRIDAY, AUGUST 19.

7.15 p.m.: News and reports. 7.45: Close down.

7.45: Close down.
80: Chimes. Relay of orchestral selections from Liberty Picture Thearte Orchestra, under direction of Mr. Ernest Jamieson.
8.15: Baritone solos—Mr. Sydney Armstrong, (a) "Because" (d'Hardelot), (b) "City of Laughter and Tears" (Nicholls).
8.21: Mezzo-soprano soloist—Miss Margaret Ormerod, (a) "Adelai" (Sperin). (b) "Mighty Lak a Rose" (Nevin).
8.27: Soprano solos—Miss Renetta Rings (a) "The Wren" (Lehmann), (b) "In a Garden" (Hawley).
8.33: Organ solos. Mr. Ravnor White. F.L.C.M.. (a) "Chorale in F Major"

8.33: Organ solos, Mr. Raynor White, F.L.C.M., (a) "Chorale in F Major" (b) "Concert Fantasia in F" (Lemare), (c) "Reverse in D Major"

(B) Concert Pantasia in Pantasia in (Br. Silver).

(Br. Silver).

8.53: Contralto solo—Miss Dorothy Spiller, "A Spirit Flower" (Tipton).

9.5: Tenor solos—Mr. W. J. Trewern, (a) "Come, Love, be Mine" (Leon-cavallo), (b) "Mignon" (d'Hardelot).

9.11: Piano solos—Miss Bessie Pollard, A.T.C.M., L.T.C.M., (a) "Arabesque" (Debussey), (b) "Gopak" (Moussorgsky).

9.21: Baritone solos—Mr. Sydney Armstrong, (a) "Cloze Props" (Charles), (b) "For You Alone" (Geehl).

9.27: Mezzo-soprano solo—Miss Margaret Ormerod, "Hine e Hine" (Princess

Te Rangi Pai).

de Valse" (Saint-Saens). Relay from Liberty Picture Theatre.

SATURDAY, AUGUST 20.

2.45 p.m.: Relay description Rugby football match from Lancaster Park, Can-

terbury v. Southland.

1.15: News and reports.

7.30: Football results. 8.0: Chimes. Relay of orchestral selections from Crystal Palace Picture
Theatre Orchestra, under direction of Mr. A. J. Bunz.
8.15: Mouth-organ solos—Mr. G. E. Chennells, (a) "Killarney" (M.S.), (b)

"Alice, Where Art Thou?" (M.S.).

8 20: Humorous solos (at piano)—Mr. Edward Sargeant, (a) "Sandy McClusky" (M.S.), (b) "When I Was a Boy at School" (M. Spurr).

8.25: String quartet—Habgood's String Quartet, (a) "Just a Bird's-eye View" (Donaldson), (b) "The Question" (Elkin), (c) "That Night in Argher" (Spudge)

Araby" (Snyder).

8.34: Vocal trio—3Y's Acres, (a) "Tie Me to Your Apron Strings Again" (Shay), (b) "Husha Bye" (Spencer).

8.38: Cornet solo—Mr. H. L. Oakes, "My Task" (Ashford).

6.41: Tenor solos—Mr. Leslie Stewart, (a) "Hats Off to the Stoker" (Arundale). (b) "Ten Thousand Years From Now" (Ball).

8.47: Mouth-organ solo—Mr. G. E. Chennells, "Over the Waves" (waltz),

8.50: Humorous solo (at piano)-Mr. Edward Sargeant, "Under the Circumstances" (Spurr). 8.53: String quartet—Habgood's String Quartet, (a) "Baby Face" (Donaldson), (b) "Parfait Amour" (Hume), (c) "Honey Bunch" (Snyder).
9.0: Vocal trio and sketch—3Y's Acres, (a) "With You" (M.S.), (b) "On

a London Bus" (M.S.).

9.5: Cornet solo—Mr. H. L. Oakes, "Love's Own Sweet Song" (Molloy).

9.8: Tenor solo—Mr. Leslie Stewart, "The Poor Old Bosun" (Longstaffe).

Relay from Crystal Palace Theatre. Relay of dance music from Kashmiri Cabaret, under direction of Mr. Les. Grummitt.

(2YA FEATURES CONTINUED (

CENTRAL MISSION BAND.

The Central Mission Band is to supply much of the music at 2VA on Thursday, August 18. Interspersing the tand selections will be items by local artists. Among them are Mr. J. G. Osborne, a tenor with London experience, Miss B. Brice, an elocationist very successful in Wellington Competitions, Miss R. Arnold, a fine contralto, and Mr. J. M. Meek, baritone.

Miss Beatrice Brittain, L.A.B., soprano, is a sweet singer with a lot of solo work to her credit. She will contribute two songs to Thursday's programme at 2VA.

THE KIT-KAT DANCE BAND.

Tune-in for the Kit-Kat Dance Band. The Kit-Kats supply the music for a newly-formed dance club, and, incidentally, present the very latest thing in jazz—the singing in harmony of the vocal choruses of their numbers. This idea, it may be said, comes from the leading American jazz bands, and is found to "catch on" with lovers of this style of music.

Miss E. Kimbell, who is to make her first appearance before the micro-phone, is the possessor of a very nice

soprano voice.
Miss E. Buckmaster is no stranger to the "mike," as listeners in to old 2YK well know Her delightfully pure and flexible voice is now to reach the larger audience of 2YA. This talented singer has established herself as a favourite

with Wellington concert patrons.

Mr. C. Williams, a tenor of marked purity, specialises in oratorio. A singer of good songs who is sure to be well worth hearing. Mr. E. Quirk, baritone, who is down

for two popular songs, is an experienced vocalist. He is recently from England. where, among other engagements, he included an appearance at the New Queen's Hall, London. He has sung successfully at several band concerts in Wellington

The phono-fiddle, with which Mr. C. Rashbrooke is to entertain listeners-in, may be described as somewhat of a novelty. The instrument used by Mr. Rashbrooke was made for him by the man who provided Cherowin, the famous white good Voffer with a civil famous white good Voffer with a civil famous results and Voffer with a civil famous results and Voffer with a civil famous results and Voffer with a civil famous results are described as a civil ous white-eved Kaffir, with a similar in-

PARLIAMENT AT WORK.

"Parliament at Work," the second of the series of talks by Mr. Charles Wheeler, of the Press Gallery, is to be given on Saturday evening at 7.30.

SATURDAY'S MUSIC.

Berthold and Bent, the well-known steel guitar duo, are favourites "on the air." They are billed for a couple of melodious items.

Ronnie and Monty are a brace of entertainers who have won success on the full circuit of Hayward's Pictures, Ltd., as well as in concert work. They are due to provide two very pleasing items.

The music of the pipes, played by Mr. A. D. Small, will appeal to all sons and daughters of Bonnie Scotland who "listen in" to 2YA on Saturday who "listen in to 2YA on Saturday are not doubt the lage. evening. To them, no doubt, the bag-pipes will be the gem of a glittering

programme.
Successful in competition work and on the amateur stage—he has played for various operatic and dramatic societies—Mr. Fitzzoy Robson is scheduled for a couple of humorous recitations. His efforts will doubtless contribute in no small measure to the pleasure of the evening the evening.

The latter portion of Saturday even-ing's broadcast will be a relay of Charles Dalton's "Columbian Solo Six" Charles Dalton's "Columbian Solo Six" Dance Orchestra, from the Columbian Cabaret, Kilbirnie. The "Solo Six" were always welcomed on 2YK. By the way, you may wonder why the "Solo Six"? The answer is that these six talented musicians are in combinations. tion so named because each one of them is capable of first-class solo work. People as far away as Gisborne have danced to "Solo Six" music from 2VK.

A YOUNG BROADCASTER.

Baby Phyllis Andrews, the talented hittle eight-year-old daughter of Mr. Frank Andrews, the clever New Zealand entertainer at the piano, is to be land entertainer at the piano, is to be heard from 2YA on Saturday, August 20 This little girl has sung to huge audiences at the Grand Opera House, the big Town Hall, and His Majesty's Theatre and is the youngest member of J. C. Williamson's Regent Theatre Ballet. She is not only a wonderful dancer, but possesses a delightful little voice, which should be heard to great advantage over the air. advantage over the air.

3YA ATTRACTIONS

SUNDAY NIGHT CONCERT.

Following the broadcasting of the service at St. Andrew's Presbyterian Church, a concert will be given in the studio of 3VA on Sunday, Aug-

NEW BAND ITEMS.

A feature of Monday's concert at 3YA will be the playing of four new pieces by the band of the First Canterbury Regiment. The pieces are: "Listen to the Band," "Nursery Dittes," "La Belle Francaise," and "The Old Regiment." The public will hear these for the first time.

Station 4YA. Dunedin

(WAVE-LENGTH 453 METRES.)

SUNDAY, AUGUST 14.

6.30 p.m.: Relay of service from the Methodist Central Mission. Preacher, Rev. H. E. Bellhouse. Organist, Mr. Chas. A. Martin.

8.0: Studio items and address by Miss Hunter-Watts (Mrs. Allan Wilkie) on

"Rogues and Vagabonds."

8.15: Relay from King Edward Theatre. Concert by the Band of the 1st
Battalion, Otago Regiment. Conductor, Mr. Lew Asten.

MONDAY, AUGUST 15.

SILENT. TUESDAY, AUGUST 16.

3 to 4.30 p.m.: Afternoon concert. Town Hall Chimes.

His Master's Voice recital.

Address by Miss M. Puechegud on "Interior Decoration—The Rejuvenation of Old Rooms."

Studio music.

Book talk, by Mr. H. Greenwood, librarian, Dunedin Athenaeum.

His Master's Voice recital.

7 to 7.30: Children's session—Aunt Diana's sister.

7.30 to 7.45: News service. Address by Pastor W. D. More, "A New Chum's Adventures in the Back of Beyond."

8 to 10. Below from the Training College Auditorium of concert by the Dunedin

8 to 10: Relay from the Training College Auditorium of concert by the Dunedin Teachers' Training College students, and dance orchestra, arranged by Miss Molly Vickers.

Teachers' Training College students, and dance orchestra, arranged by Miss Molly Vickers.

Overture—Selected, the orchestra.
Part-song—"The Rosy Morning," the ladies.
Pianoforte duet—"Spanish Dance," Miss L. and W. Robertson.
Part-song, "Night," the ladies.
Vocal solo—"Ouvre tes Yeux Bleus," Miss Elsie Watt.
Part-song—"Ocean Garden," the ladies.
Trio—"Ring Out, Wild Bells," Miss Wright, McFarlane, and Williams.
Pianoforte solo—"Prelude" (Rachmaninoff), Miss P. Feathers.
Vocal solo—selected, Mr. E. Hamilton.
Recital—"The King's Breakfast" (Milne), Miss M. Taylor.
Part-song—"The Chimes," the ladies.
Vocal solo—"Love's Rhapsody" (d'Hardelot), Miss Eglinton.
Recital—Selected, Mr. W. Pickard.
Trio—"Sunshine and Butterflies," Misses Wright, McFarlane, and Williams.
Pianoforte solo—"Jazz Medley," Mr. A. Golding.
Vocal solo—"In the Night," Miss Eglinton.
Part-song—"Cradle Song" (Brahms), the ladies.
Recital—"Laugh and be Merry," Miss Elsie Nelson.
Trio—"Orpheus With His Lute," Misses Wright, McFarlane, and Williams.
Quartets—(a) "To the Death," (a) "Drink to Me Only," Misses M. Taylor, E. Williams, Messrs. L. Hollow and E. Hamilton.
Vocal solo—"The Market," Miss E. Williams.
Pianoforte solo—"The Naiads" (Farjeon), Miss J. Hendry.
Trio—"Song of the Gate," Misses Wright, McFarlane, and Williams.
Recital—Selected, Miss Elsie Nelson.
Part-song—"The Rock," the ladies.
Recital—Selected, Mr. W. Pickard.
Part-song—"The Chase," the Glee Club.
Vocal solo—selected, Miss E. Williams.
Part-song—"The Chase," the Glee Club.
Vocal solo—selected, Miss E. Williams.
Part-song—(a) "Sweet and Low" (Barnby), (b) "Stars of the Summer Night," the Glee Club.

Part-songs—(a) "Sweet and Low" (Barnby), (b) "Stars of the Summer Night," the Glee Club.

WEDNESDAY, AUGUST 17

SILENT.

THURSDAY, AUGUST 18.

7 p.m.: Town Hall chimes.

Request gramophone concert.
7.45: Address by "Gargoyle" on "The Origin and Occurrences of Petroleum."
8 to 10: Town Hall chimes.

Studio concert by the Church of Christ Concert Party, and orchestral selections under Mr. Chas. Parnell, relayed from the Empire Theatre.

FRIDAY, AUGUST 19.

3 to 4.30 p.m.: Afternoon session. His Master's Voice recital.

Afternoon tea music from the Savoy. Studio items.

"Cookery Talk," by Miss M. Puechegud. Music from the Savoy. His Master's Voice recital.

7 to 7.30: Children's session—Aunt Diana's sister: 7.30 to 7.45: Market reports, 8 to 10: Town Hall chimes. Studio concert.

8.45: Address under auspices W.E.A. 9 to 10: Dance music relayed from the Savoy by Ern. Beacham and his Orchestra.

SATURDAY, AUGUST 20.

BOY SOPRANO.

Football relav-Taranaki v.

A wonderful boy soprano, Master Frank Robinson, just arrived from the Old Country, is to sing at 8YA on Monday, August 15. He has been a Cathedral chorister for several years, and his calculation that microphone in and his advent to the microphone in New Zealand will be a keenly awaited event. He will sing, "A Song of Holiday," "Don't Hurry," and "June." Some other singers new to 8YA will make their debut in radio. These will include Miss Freida Davison, Miss Doris Irvine, and Mr. Leouard Will, a new dramatic tenor.

WEDNESDAY'S CONCERT.

Mrs. Bingham Puddey, from the English Midlands, where she enjoyed a reputation as a talented soloist, is to sing at 8YA on Wednesday even-

On the same programme will appear Mr. F. R. Hawker (light bass), Mr. D. Suckling, Miss Suckling, and Mr. Bernard Barker (violin).

There will also appear on Wednesday evening at 3YA a very clever little reciter in the person of Miss Kathleen O'Brien. She is highly gifted, and has been well trained nuder Mr.

A GLIMPSE OF HISTORY.

"The Remnant of an Empire" is the title of Mr. Donald Grant's lec-turette at 3YA on Wednesday evening. Mr. Grant spent five years in Central Europe after the war, and is well qualified to speak of the disintegration of the ramshackle old empire of Austria.

NICE CONCERT ON THURSDAY.

Much good talent has been engag-ed for Thursday evening's concert at \$YA. Mr. Russell Sumner, who sang the well-known organist,

on the recent Scottish Night, will again please listeners. Miss Mary on the recent Scotish Night, will again please listeners. Miss Mary Taylor, late of Huddersfield, England, already very popular with 3YA's unseen audience, and Mr. A. Macdonald, a great favourite, will broadcast. Mr. Macdonald's items will be Landon Ronald's Prelude and Star, and the Song of the Toreador.

A new singer to radio will be Mr.

A new singer to radio will be Mr. L. A. Waters, lately heard to such advantage at the competitions. Other new performers will be Miss Alice Serrell, L.A.B., and Mrs. A. L. Jones, who will play pianoforte duets, and Mr. John Boschetti, who will contrib-ute violin solos. Mr. W. Hay as a flautist is also good.

A SQUARE MEAL.

The series of addresses which Miss Shaw is giving, under the auspices of the Home Economics Association, will be continued on Wednesday, the subject being "A Square Meal."

A STUDIO CONCERT. A studio concert, to which some good

artists will contribute, will be broad-cast by 3YA on Friday. Miss Dorothy spiller, always a delight to hear, will sing. Mr. W. J. Trewern, tenor, who sang on the opening night of 3YA, will be welcomed by listeners. Miss Renetta Rings (high soprano) and Miss Margaret Ormerod (mezzo soprano) will sing. rano) will sing. Mr. Sydney Armstrong, who has a nice baritone voice, will give his first

performance on the radio.

Miss Bessie Pollard, A.T.C.L., I.T.C.L., a highly talented pianist, as those who have heard her on 8YA know, will again please listeners. During the evening a number of pieces will be played by Mr. Raynor White,

ITEMS FOR SATURDAY.

For Saturday evening's concert at 8YA a bright and varied programme has been arranged. Mr G. Chennells will bring his mouth organ, and the Habgoods their stringed instruments. Mr. Ed. Sargeant will make his bow before the microphone in humorous songs at the piano. He will play his own accompaniments. Mr. James Laurenson, who took part in the Scottish Night Concert, will recite "Not Understood," and "Kitty O'Toole." "The "Three Wiseacres" will appear in concerted vocal items, and Mr. II L. Oakes, the well-known bandsman, will contribute cornet solos.

4YA, DUNEDIN

MRS. ALLAN WILKIE WILL TALK.

On Sunday, August 14, 4YA will broadcast the service from the Methodist Central Mission, when the preacher

will be the Rev. H. E. Bellhouse.
At the conclusion of the church service on Sunday evening, August 14,
4YA will broadcast an address by Miss Hunter-Watts, in private life Mrs. Allan Wilkie, whose subject will be "Rogues and Vagabonds."

This will be a most interesting talk dealing with the stage and Shake-

DECORATION OF ROOMS.

On Tuesday afternoon at 4YA Miss M. Puechegud will again address listeners on "Interior Decoration." Her subject will be "The Rejuvenation of Old Rooms." Many folk possessing rooms which are not decorated and founished on up-to-date lines are of-ten at a loss to know just how to go about renovating them without the purchase of new furniture. Miss purchase of new furniture. Miss Puechegud will tell them, giving many interesting and useful suggestions along economical lines. Questions will be welcomed and answered over the

CONCERT BY T.T.C.

Tuesday night's programme from 4YA will be of a high order, being supplied by the Otago Teachers' Training College, under the direction of Miss Molly Vickers. This institution possesses a large and well-trained choir which will render glees, madrigals and part songs. Vocal quartets, duets and solos will be heard, and orchestral and solo items will go towards making an enjoyable programme.

INTERESTING ADDRESSES.

Listeners are advised that during August Pastor W. D. More's addresses from 4YA will be delivered at 7.45

p.m. instead of during the concert session between 8 p.m. and 10 p.m.
On Tuesday night at 7.45 Pastor More will relate "A New Chum's Adventures in the Back of Beyond." This will be an amusing story of insects and reptiles in Central Australia, and the impressions they made in more ways than one on a new chum meeting them for the first time. It is hardly necessary to add that this talk will be told in Mr. More's usual breezy

TALK TO MOTORISTS.

That motorists far and wide are showing their appreciation of "Gargoyle's" lecturettes from 4YA every Thursday evening is demonstrated by numerous letters of thanks he re-ceives. "Gargoyle" is probably one of the best authorities in Otago on everything dealing with the motor industry, and is always delighted to assist in solving motorists' problems. His talk on Thursday will deal with "The Origin and Occurrences of Petroleum."

CHURCH CONCERT PARTY.

The programme on Thursday evening is to be provided by the Church of Christ Concert Party, and some very fine items will be heard. Orchestral selections will also be relayed at in-tervals from the Empire Theatre.

TEMPTING MENUS.

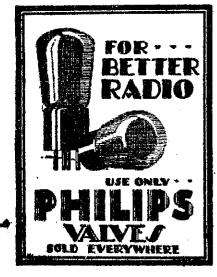
On Friday afternoon Miss Puechegud will conduct another of her series of talks on cookery from 4YA series of talks on cookery from 4YA.

Miss Puechegud can always be relied
upon to give details of appetising and
economically prepared dishes Studio
items and afternoon tea music from
the Savoy will complete this concert

The Workers' Educational Association will again "occupy the air" at

4YA for fifteen minutes on Friday evening, when another interesting ad-dress will be given during a studio programme.

Lovers of dance music will be catered for with an hour of Ern. Beacham's Orchestra from the Savoy.



A HUMAN AERIAL

TUNING IN 2YA IN VICTORIA.

A correspondent writes from Vic-toria: The musical items were perfect. I tuned in on a loud speaker neutrodyne set, and as the volume was so great I switched from the outside aerial on to the tape round the room. The reception was still so good that I disconnected all aerials and tried to bring you in off my own body by sim-ply placing my hand on the aerial post of the set. Doubtless you will be inthe set of learn that the volume from the loud speaker completely filled my dining room (20ft. by 18ft.), and there was no aerial other than my body. I have often brought in 3LO in this man ner (and also off the little terrier's foot), but I would not have believed that a station as far away as yours could possibly be heard distinctly un-der such conditions. You came through s strongly as 3LO, which is only some 180 miles away, and we did not suffer from the fading experienced from 3LO.

NEXT WEEK'S SPORTS

COMING BROADCASTS

CRICKET, RUGBY, RACING.

The following attractions have been arranged for next week:-

Monday: "Our Cricketers in England"—Talk at 3YA.

Wednesday: Southland v. Welling-ton-2YA.

Friday: Rugby, talk by Mr. T. Fletcher—2YA. Saturday: Canterbury v. Southland -3YA.

Saturday: Taranaki v. Otago-4YA. Saturday: Pakaranga Hunt Club meeting at Ellerslie—1YA.

Saturday: Rugby-2YA. (See programmes for fuller details.)

TELEVISION WAVE-LENGHTS

Official recognition of television's place in the broadcast band was given by the United States Radio Commission with the announcement that the band between 1500 and 2000 kilocycles (150 to 200 metres), now practically abandoned by the amateurs, would be utilised for broadcasting and further experimentation with "radio sight" instead of hearing. This band, with more than half as many channels as the whole broadcast range, indicates the importance assigned by the commission to the new developments. Another dictum of some interest was an official interview stating that the commission will recognise the right of local authorities to regulate stations, prescribe hours, prohibit excessive broadcasting power in congested distriets, etc.

AN ANCIENT MARINER

UNIQUE ATTRACTION AT SYA.

In the year 1871—56 years ago—two young British seamen (one of them born in New Zealand), created a record which has not since been beaten. They crossed the Atlantic Ocean in a 19ft, boat of 14 tons measurement. It was a remarkable achievement. As great in its time as an aeroplane flight across the Atlantic to-day—and not so common, One of the men who made that trip in a cockleshell of a boat is now living in retirement near Christchurch. He is a radio enthusiast, and he has been persuaded to broadcast his reminiscences of the trip.

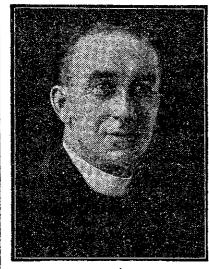
The filament of the 201A type valve must not be heated with less than 5 volts, as this causes it to become brittle. In other words, to get absolute satisfac-tion from a valve, with correct plate and grid voltages, the filament must be heated with the voltage stated by the manufacturer, no higher or lower.

SOME OF THE TALENTED PERFORMERS OF 4YA



MISS WINNIE McPEAK,

contralto, a pupil of Mr. Ernest Drake, is well-known from station 4YA. Her fine voice has been responsible for winning first place in three consecutive competitions in her class, in Christchurch and Dunedin,



REV. G. E. MORETON

is well-known throughout Otago and Southland for his social work, and also as a brilliant clarinet soloist. For many years past he has been associated with musical activities in Dunedin, being a vice-president of the Kaikorai Band, and also a foundation member of the Anglican Musical Club. Mr. Moreton's instrument ly heard over the air from 4YA.



MR. E. G. BOND,

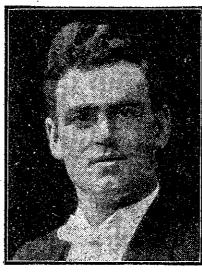
bass, is the possessor of a beautiful deep, rich voice, and his splendid modulated tones place him in the ranks of ideal broadcasting artists, Mr. Bond, who is a favourite 4XA artist, is one of the soloists in the St. Paul's Cathedral Choir, and has had considerable experience in all the branches of church music.

Station OGG, at Godhaven, the capital of North Greenland, was often heard in the United States last winter. This station, which entertains the Greenanders during their long night, rebroadcasts from high-power stations in the United States and Canada; and is also conducting research work on the aurora It transmits on 875 metres at 3 p.m.,



MISS GWEN COOPER,

is the possessor of a pleasing, strong, . clear mezzo-soprano voice, which is splendidly adapted to the microphone. This versatile young singer, who is equally at her ease in high-class ballad songs, or the lighter numbers, is a regular and eagily listened-for artist at 4YA, Dunedin.



MR. ALFRED WALMSLEY

is acknowledged as one of the finest tenors heard in Dunedin, and is a popular 4YA artist. Mr. Walmsley's excellent singing is always a signal for many telephoned requests of the older songs he so admirably renders. He frequently appears in the leading public concerts in the Southern City.

Broadcast listeners in New Zealand who suffer from power line interference will relish the following new item from America:-Peter J. Walter, of Milwau kee, was awarded a verdict for heavy damages against the lighting and trac-tion company, for erecting near his home a high-tension line which prevented reception on his radio set. The case has been fought through the State Courts, and is now expected to go to the Federal Supreme Court for final af-firmation. The case is legally unique.

🍫 THE HOLD OF STATEMENT OF THE PROPERTY OF TH

DO NOT **MISS** YOUR **PROGRAMMES**

Subscribe now to the Radio Record, and secure your weekly programmes in advance.

SUBSCRIPTION: 7/6 FOR the year if accepted before August 13. THEREAFTER 10/ ANNUM.

The Radio Record P.O. Box 1032,

Or "Dairy Exporter Office," 22



MISS MARJORIE WATTO,

pianiste (52 Brown Street, Dunedin), a performer who is always eagerly listened for, is most accomplished with the pianoforte, having enjoyed much success in local competitions, one year winning the chief piano contest, and another year amateur and professional classes. She is a holder of A.T.C.L. and L.T.C.L. degrees. Miss Watto is a regular 4YA artist.

When a galena crystal becomes usenwhen a garma crystal becomes many stive it can generally be resensitised by soaking in photographic "nypo" for an hour or two. The hypo is one of the few substances which exert a solvent action on galena This solvent action is only slight, but nevertheless it is sufis only slight, but nevertheless it is sufficient to dissolve away the surface of the crystal, and so to expose a new and satisfactorily sensitive area.

BLOW FOR BLOW

DEMPSEY v. SHARKEY

FIGHT DESCRIBED BY RADIO.

New Zealanders who were interested in the great battle between Dempsey and Sharkey will envy the millions of Americans who heard the ringside description of the fight described by radio broadcasting.

The San Francisco "News" and 25

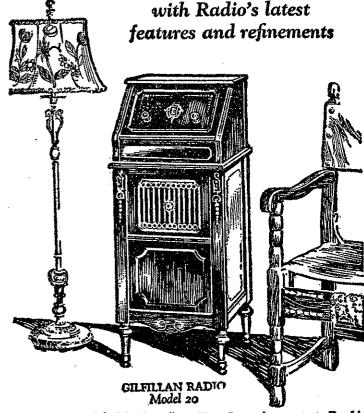
other Scripps-Howard newspapers ar-ranged with the National Broadcasting Tanged with the National Broadcasting Company to broadcast the boxing match at New York between Jack Dempsey, former world's champion, and Jack Sharkey, a strong contender, on July, 21, to decide who should attempt to wrest the championship from Gene

Tunney.
Thirty-seven stations were linked up by land-lines in the chain. It was the most extensive boxing hook-up in the history of radio.

Two nationally-known NBC announcers described the contest for the millions of listeners. One was Graham McName, famous for his microphonic pictures of the country's prephonic pictures of the country's pre-mier athletic events, who gave the blow-by-blow description, while his mate, Phillips Carlin, manager of WEAF, New York, gave listeners a resume of each round, in addition to furnishing interesting sidelights of the fighters, the crowd and other notes.

Like a scientifictitious romance is the plan actually to be carried out by French scientists in testing the action of radio waves in the upper air. Light balloons, carrying automatic transmit-ters, are to be sent up to a height of ten miles or more, where human beings cannot venture, and reception there-from carefully recorded and studied.

ONE DIAL Control



SIX tubes; shielded radio stages. Improved Neutro-dyne. Built-in Rola Cone Speaker. May be operated from light socket with battery elimination or with usual batteries. The Season's greatest Radio value, containing exclusive features in a Beautiful Hand-carved Cabinet. See this and other new Gilfillan Sets at our shop.

Barnett's Radio Supplies, Ltd., Dunedin; Broadcast Reception, Ltd., Christchurch; A. B. Clark, Kaikoura; H. J. S. Mitchell, Blenheim; W. A. Kenning, Nelson; Sidney Bott, Waipawa; R. McLean and Co., Waipukurau; Shalfoon Bros., Opotiki; M. Ramson, Whakatane; R. Munro, Tauranga; W. M. Pitcher and Co., Hamilton; Glen Mottram, Rotowaro; George Court and Son, Ltd., Auckland; Teeds, Ltd., Newmarket; Moore Plano Co., Auckland; Harrington's, Ltd., Auckland; Turabull and Jones, Ltd., Auckland.

Wholesale Distributors for Wellington District: HARRINGTONS, LTD., WELLINGTON., Or Sole New Zealand Agents.

RADIO LIMITED,

Wright's Building, Fort Street, AUCKLAND. (Write any of the above firms for particulars of prices).

RADIO IN ICELAND

BROADCASTING IN FULL

SWING

Mr. Keith H. Thow, who was

sent out by the British Stan-

dard Telephones and Cables, Ltd. to Wellington, in connec-

tion with the installation of

ed a broadcast station in Ice-

2XA, Wellington, recently erect-

Iceland is now one of the most ardent

radio fans among nations. This island, which touches the Arctic Circle, on the

THE TRANSMITTER.

Amongst the Listeners

This is the Listener's Corner. It is available for reports of receptions from individuals; the correspondence of Leagues of Listeners and reports of their proceedings; constructive criticism or suggestions for the betterment of radio in general and the consistent improvement of the service that broadcasting can render in our community life. We wish this page to be the meeting-place of listeners and officials for the better understanding of points of view and the problems of others. It is a "Service" page, and we invite you to make use of it. Address all communications: Editor, "Radio Record," P.O. Box 1032, Wellington.

HAWKE'S BAY NOTES

It is with very marked pleasure that bue is able to record a very noticeable improvement in the programmes which are being sent out from IYA, 2YA, and 8YA up this way. We never worry much about 4YA, for that station appears to have "gone to the pack" completely. At odd intervals 4YA dishes for transmission which is really worth up transmission which is really worth while, but so seldom is it that it is generally missed.

Whilst one must express pleasure at the improvement in programmes from 2YA, it is still a fact that the station still fades just as badly as ever, and antil this fault is remedied, 2YA is not going to be as popular with local listeners as either IYA or 3YA. IYA fades badly at times, but it is not in the same street as 2YA, and 3YA is looked upon as the best station up here.

At the last meeting of the Hastings Badle Society for as it is now civiled.

Radio Society (or as it is now styled Hawke's Bay Radio Society), there was a general grouse about interference of all kinds. More signals came in for trouble, and a resolution was passed arging the Postmaster-General to do something to climinate this. The trouble is that the Morse stations are not keeping a set 600 metre limit, and that is where the Government can take action. Howling valves were also freely discussed, and a sub-committee was set up to bring down a recommendation as to the best way to deal with this. A resolution on similar lines to that passed by the Auckland Listeners' League will probably be the result, but an addition will likely be made that it be the duty of the radio inspectors to make periodical inspections of all receivers. Interference from motors and power-line leaks was a hot topic, and this was also referred to the sub-committee to investigate.

Matters are moving along very quietly in connection with the proposed local station, but will be brought to a head very shortly. The annual meeting of the society was held on Monday night (8th), and the issue of debentures for the raising of the cash was a main topic of discussion. The issue of these will be under way very shortly, and if the response is as good as expected, in a month or six weeks there should be something doing.

ROVING BY WIRELESS

TRAVELLERS' TALK FROM 2YA.

We cannot all go a-roving, but the next best thing is to hear about it first hand from those who can.

On Tuesday last listeners-in were pri-vileged to hear a short talk from one of the two-intrepid motor cyclists, just arrived in Wellington, who are travel-ling round the world on their machines. speaker told us that so far they had had a delightful trip, with com-paratively few disagreeable adventures. The worst that had befallen them was in Turkey, where they were forced to spend a night in prison. Turkey, in its present state of upheaval, is a hotbed of spies, and Mr. Cathrick and his friend were arrested as such, immediately they really a Sec. It must be a state of the s atery they reached Sofia. It was in vain they produced their papers and expostulated with the authorities. They were marched off to prison to be examined at 5 minutes to 7 in the evening, where to their dismay, the governor blankly refused to listen to them, simply ordering that they were to be put in prison. It afterwards transpired that the governor had a dinner engagement at 7 p.m., which accounted for his summary treatment of the prison-ers. They spent a most dismal night in a verminous Turkish prison, but in the morning, the governor, having apparently spent a pleasant evening, returned in a good temper and they were given their freedom and allowed to proceed on their way

In Milan, where they spent a pleasant day, the lecturer was rather amused at a little experience he had. It was an extremely hot day, and he went to see the cathedral, being, as he told us, keenly interested in architecture, and knowing that Milan cathedral was one of the finest in the world. While examining the exterior he was accosted by a quaint little man, who looked about a hundred years old, and who asked him if he would like to see the finest view from the finest cathedral in the world. He, knowing Italy replied "How much?" and on producing the requisite number of lire, the old fellow led him to a little iron door in the wall and proceeded to mount innumer began to tire, but the guide urged him on with promises of "the finest view in the world." "The finest view I could bee," replied the traveller, "would be the sea large bette of to see in face. to see a large bottle of beer in front of me, it being, as he once more point-

to his intense surprise, the old chap inswered "Well, you shall." Greatly incouraged, the lecturer toiled upwards and finally came out on to the flat roof of the cathedral, where, to his amazement, was set out a small but comfortable bar, which contained all a man needed and entirely filled the bill as being "the finest view in the world"!

The lecturer was all too brief, merely

fouching on his trip through India, and fust detailing one place they visited, where in the past the natives used to

Our Mail Bag

"I should like to compliment you on vont 2YA souvenir number. I am glad that it is your intention to publish some of the popular lectures given." -C.C., Arrowtown.

"'The Radio Record' is what the listeners want. Accept best wishes for future success."—F.C.H., New Ply-

"The greatest value of your paper to me and many more of us out in the woods is to have a list of the programmes well ahead of time. It has filled a much-felt want, and will be heartly appreciated."—H.W.W., Marilarough borough.

"Your paper will fill a long-felt want, and I am sure it will receive the support it deserves."—T.P.A., Pahiatua.

Worth Double the Price!

"I think your publication a step in the right direction, and I would not be without it at double the price. Your programmes, I consider, are very good, and the song some people make about what they should get for a penny a night is amusing. I think the sporting results alone are worth the license fee. My one disappointment is the power of 2YA. On your opening night I turned my dials on 1YA and then on to 3YA without altering the volume control, and 2YA's programme came in just as strong through these stations. 2FC and 2BL come in as strong at 10 p.m. as 2YA. Can you account for this?"—G.L., Inglewood.

"I would like to take this opportunity of expressing my appreciation of your paper, and consider that it will fill a long-felt want in radio circles."— G.W.F., Dunedin.

"This paper will be much appreciated by most listeners-in. It certainly is reasonably priced."—H.C., Waiotira,

"The initial numbers of Radio Record' are excellent, the various articles extremely interesting to a listener-in, and the post-dated weekly programme supply a long-felt want. The sub-scription is moderate, and if the present standard is moderate, and it the present standard is maintained, I for one would not mind paying double the price. The programmes generally are showing a marked improvement, the 'Scots Night' from 3VA being a corker! Wishing the 'Radio Record' all success."—R.D.Mc., Obingati Ohingaiti.

"This paper just fills the missing link of fine programmes put out by the different stations. We can now see which evening's entertainment we would best enjoy, and get on to that station."
-H.N.S., Illawarra Farm, Morrinsville,

Value to Invalids.

"I am an invalid, and am confined to my bed, and greatly appreciate my wireless; and also your splendid paper, full of interesting matter. I wish you all success in your venture."—G.W.C..

"Radio has been a great boon to me I wanted a scenic book for one of my boys, and upon inquiry found it was unprocurable in Southland. My thought of writing to Uncle Jack, who procured one for me. I appreciate Uncle Jack's kind action very much To-night an old widow lady is coming to my place to hear her daughter singing from 2YA, Wellington. I think it would be a good idea if some of the listeners-in could let you know of some of the benefits received through vont stations."—F.J.Mc., St. Kilda. [We shall be happy to give a corner for "Benefits Received."]

"A" most excellent publication, and conceived on excellent lines. The more technical articles the letter, and your contributor 'Megolun' has begun well."

-P N. B., Silverdale.

"I wish to express my appreciation of this paper, which I think will do a great deal towards bringing the listeners-in to a better understanding of the position with regard to programmes."-E.H., Redeliffs.

Good Programmes.

"Received your souvenir number and am very pleased with it. I have a 5-valve set and got almost perfect re-ception on the opening night with no fading whatever. Your programmes to date have been very good. Best wishes for the success of the 'Radio Record.' "—I' W., Kaikoura.

"I must thank you for the initial number, it is most interesting, and if anything like the quality of the first number is maintained, then I am sure the journal will be most popular with the radio public."—A.F.G., Oruru.

"I must say how pleased we all are

worship a neighbouring volcano, which they placated once a year by casting in for a sacrifice the most beautiful maiden of the village.

The lecturer remarked on the pleasure it gave him to be in New Zealand and the comfort it gave them to feel they had completed half their journey. From here they would go to the United States of America, over the Andes, and through South America, thence to Africa and so Home. Truly a wonderful tour —and our best wishes go with them.

with our wireless. We are getting the very best results. Can hear Welling-ton distinctly on four valves, not so distinct on three, but on five valves very loud. We have got Australia on a good night with three valves and can hear every word."—B.I.F., New Plymouth.

THE N.Z. RADIO RECORD

The Winterless North.

"I have a six-valve set and heard your official opening splendidly. We are about 15 miles south of Kaitaia. Would appreciate bagpipe selection from 2YA."—P. Mc., Awaroa.

"We like Wellington's station much, and were absolutely charmed on the opening night. It is our clearest sta-tion up here."—E.A.G., Hokianga Hospital, Rawene.

"I must say we consider the paper a credit to the company. With regard to programmes, we are satisfied with the advance made during the past fortuight and realise that the company are doing their utnost to meet their obligations."-E.W., Kawhia.

"I must compliment you on the initial copy of the 'New Zealand Radio Re-cord,' and hope your enterprise will meet with the success it deserves."-R.P., Waimamaku.

Sticking to Wellington.

"Speaking voice excellent, except football unnouncer. Football otherwise most enjoyable. Orchestra does not come out at all well-jumbles bad-The same applies to band music. Clarinet, flute, violin, 'cello, and cornet are excellent. Piano not good—jumbles a good deal. I may add that I never go past Wellington now when the station is 'on.' I tune in and sit tight, till you close down."-R.N.A., Blenheim.

May We Have One Hymn?

"I must say one word about the descriptive piece (I think it was a Church parade) played by the Wellington Tramway Band on Sunday evening. It was simply beautiful. Priends who listened in with us thought it was the best item they had ever heard. So please thank them for, the pleasure it gave us. I do hope some future time they will play it again! May I say just one thing—could the bandsmen at any station play hymns, or one hymn, in any of their programmes? I am sure 10,000 listenersin would be pleased to hear just one liymn, even if the other 10,000 were displeased. It seems to appeal to many people, even just to remind them of bygone memories. If they object to it, may they play one on Sunday nights?"—B.J.M., New Plymouth.

Give the Company a Chance.

"In the past I have indulged in agitation against the company (not through the medium of the newspapers, as I am not in agreement with that method), especially with regard to programmes. I must say now (and other listeners in this neighbourhood concur with me) we are satisfied with the advance in this direction made by the company during the past fort-night, and realise that the company are at present doing their utmost to meet their obligations. A month ago I should have voted in favour of a change of control; to day I say, give the company a chance, and am not in favour of any such change. Thanking you."-E. W., Kawhia.

Timing Programmes.

"Having sent in my subscription for twelve months, I feel I have already commenced to take special interest in your publication. The other night an idea struck me. In giving the daily programme of the various stations in New Zealand, would it not be possible to put in front of each item approxi-mately the time that that item will be given? This, to my mind, would enable the listener-in to glance through the programme of the four stations and pick out items most attractive to him. By so marking the items the listener in could switch from one station to another, and so hear the particular item he wishes to. As it is, a great many of the items are lost while one is tuned in to the wrong station. This to my mind, could be avoided by pick-ing, as it were, the eyes cut of the four programmes, and one compiled by the listener-in of items special to his fancy. Approximate timing would aid the listener-in greatly."—D.E.B., Dunedin.

[This has been arranged for our readers. It is understood, however, that some variation may take place, but as far as possible the stated times will be observed.-Ed.]

A year or more ago, Britons were alarmed by the broadcasting of the sounds of a "revolution"; and those who missed the preliminary announcement felt that the levity was improper. Less serious was the announcement, a few days ago, that Germany and New York had been connected by the trans-Atlantic radiophone: later traced to a hoax played by a London operator on one in Frankfort-am-Main, which led to a Press dispatch followed by an official investigation on the part of the British postal authorities.

AFTERNOON SESSIONS

START FROM 2YA

MONDAY, AUGUST 15

As from Monday next, the 15th, 2YA will be on the air in the afternoons from 3 p.m. to 5 p.m. The initial programmes will mainly consist of gramophone selections, but lecturettes, descriptions of cooking by electricity and by gas will be arranged for and also talks on fashions by the experts of some of the leading firms. Final details cannot be given at the time of going to press. The initial programmes will be steadily improved.

NO OUTDOOR AERIAL

LOOP A GOOD SUBSTITUTE:

Residents in flats who cannot use an outdoor aerial can employ a loop or frame aerial with good results on a multivalve set over long distances. The loop or frame aerial will operate well with a neutrodyne or Browning-Drake

The loop may be used on either of these sets in the same fashion as an antenna or a regular loop. The following methods are illustrative of the antenna methods. (1)—One end of the loop may be connected to the antenna post and the other terminal left open. The regular ground is left on. (2)—Both terminals of the loop may be connected together and thence to the antenna post. The ground is still left connected. (3)—One terminal of the loop may be connected to the antenna post. The other terminal of the loop may be con-

TI GEORGE HITCH CHE BERT CE COERTAND CORTORE HOR BERT HER BERT HOR BERT HER BERT HER BERT HER BERT HER BERT HER

In response to several requests we shall publish at an early date full particulars of a four-valve Browning Drake receiver. This circuit, when properly constructed, should have very wide range of reception when conditions are favourable. The four-valve set has one radio-frequency amplifier, detector, and two transformer-coupled audio amplifiers. If the audio is resistance-coupled, then three amplifiers would be used and the total number of valves would be The later types of L.F. transformer, however, leave little to be desired in the way of tone and volume when coupled to suitable power valves.

ited to the stationary plate post of a known variable condenser. The rotary plate post of this condenser is then connected to the ground post. The ground may or may enot be connected. The last method when using the loop as an antenna, is to connect both terminals attenna, is minals of the loop to the antenna and the ground posts, shunting the terminals with a known variable condenser. Again the connection of the ground is optional. Now as to which connections to employ when using the loop as a regular loop. Either four binding posts or a double circuit jack will be needed. When using the posts, connect the beginning and the end of the secondary winding to two posts. Connect the stationary and the rotary plate posts of the condenser that originally shunted this secondary to another pair of posts opposite to those just installed and connected. When desiring to use the loop, connect the loop terminals to the posts connected to the condenser posts. When desiring to use the antenna and ground, short these posts with strips of bus bar. When using the jack, the inner terminals are connected to the beginning and the end of the secondary winding. The top terminal (should be near the end of the secondary winding) is connected to the grid post. The bottom terminal (near the end of secondary winding) is brought to the A minus poet.

Here is a hint to Wellington crystalset owners:—A correspondent writes to an American journal:—"I am using an aerial somewhere between 300 and feet-almost the length of the block I live in—but this is primarily to get loud-speaker volume on my "pure and simple" crystal set. Most of the time I listen to the locals on this crystal set, which brings them in about as loud as an ordinary two-tube combination with one stage of audio amplification." For crystal sets, the longer the serial the louder the reception.

which touches the Arche Circle, on the north, but is made habitable by the warming influence of the Gulf Stream on the coast, is probably the farthest north in radio enthusiasm.

A 500 watt transmitting equipment of standard Western Electric design, was installed at Reykjavik, Iceland's capi-tal, by Standard Electric Atkieselskap

of Oslo, an associated company of the International Standard Electric Company. It was impossible to erect a new building and new aerial masts during the winter, and the broadcast station was therefore installed in spare apart-ments in the principal commercial radio telegraph station at Reykjavik. NOVEL AERIAL.

This necessitated a rather novel arrangement of the new aerial, so that it would not conflict with the 600 and 1800-metre aerials for the radio telegraph transmitters. A sloping cage was swang from one of the masts to the station building.

ENTERTAINMENT WELCOME.

Iceland had only two movie theatres and a few choral societies and bands. The promise of the new broadcast entertainment aroused all the more interest for that reason.

"With all the disadvantages," says Mr. Thow, "of severe climatic conditions, isolation of towns, difficulties of travel and lack of entertainments, it seems likely that broadcasting will become of greater utility as a public service in Iceland than in any other European country."

RADIO DIFFICULTIES.

Iceland, however, has her own radio problems. The mountains and glaciers of the interior and the frequent activity of the aurora borealis interfere with reception. In the summer there is almost uninterrupted daylight from June through August, and consequent poor

results in broadcasting and receiving.

When the new station was ready for testing, no public announcement was made. But so rapidly does news spread in Iceland that everyone had heard of the tests within a few hours, and more than 100 crystal receiving sets were sold in Revkjavík the next day.

In the absence of professional artists, except for occasional visitors, the programmes are supplied by amateur talent. Reykjavik has two or three extensions and professional artists, cellent male voices and mixed choral societies and a number of talented soloists. On the instrumental side there are amateur brass bands and orchestra, and it is also proposed to broad-cast dance music by the small orches-tra playing at the chief hotel and

LECTURES WELCOMED.

The level of education is extremely high, and as a result lectures on subjects of real interest by professors of the colleges, by members of Parlia-ment, and others are assured of eager reception. Services at the cathedral are also broadcast, and since the rathedral is invariably packed to a point of dis-comfort, at least an hour before the service commences, the opportunity of those unable to gain admission to hear by radio in their own homes is anticipated eagerly.

RELAY FROM CHURCH.

The annual service for those at sea was held in a church at Hafnarfjord, about eight miles from Reykjavík. Arrangements were made to broadcast this service for the benefit of the trawlers at sea, and connection was made by telephone from the church to the broadcasting station. A large number of trawlers, up to a distance of 300 miles,

heard the service

The Iceland Broadcasting Company was financed by six prominent trawler owners and business men of Reykjavik and by public subscription. Revenue is derived from an annual license fee and a rovalty on radio receiving sets and certain parts.

A PIONEER OF BROAD. : CASTING

It would be difficult to determine who was the first person to broadcast music by wireless, but probably the late Prince of Monaco wins. His broadcasting was not accomplished by telephony, but by telegraphy—without the use of the Morse code. One morning in 1911 an operator put on the head 'phones in an island on the Mediterranean and not have afterwards were accounted to hear long afterwards was astounded to hear a squeaky, quavery, but quite recognisable performance of the British and French national anthems, Then came words in Morse acquainting all stations that the wireless piano on board the Prince of Monaco's famous yacht had been responsible for the surprise. It is supposed that by some ingenious arrangement on board the spark frequency was raised and lowered at the will of the operator, and thus it was possible to produce a tune.

This article, written from a recent number of the "Radio News,"

contains so many interesting sidelights upon studio problems, and the factors which cause variations in the results passing over the "microphone" (or "mike" as it is familiarly personified) that we reproduce it in its entirety for readers. The facts recorded will show that the conditions of the atmosphere, humidity, etc., are rarely constant, and therefore must be considered in the adjustment of the instruments for the best results.

Give your favourite broadcast station | a chance, even though the programme does not sound just as you think it should at the beginning of the evening's entertainment-the first five minutes are the hardest.

In five minutes it is possible to move the "mike," shift the orchestra, get a very good idea of the kind of air that fills the studio, or do any one of a half hundred—or more, if necessary—things that will very nearly assure you of a pleasing programme during the remain-der of the evening And, remember, poor transmission is no secret to those on duty in the station, and that they probably discovered it before you did and are already working to overcome

Most of us know that the microphone is now located as per blueprint—the re-sult of hundreds of tests and experience in scores of studios—but condi-tions change from day to day and there are always the unexpected "freak" oc-currences. It is these which cause the anxiety in the studio and transmitter room when the lights flash and "power" is cut into the antenna system that is radiating to perhaps a million listeners.

Radio always has been full of freaks. They were there galore back in the old days of the first audions. To-day high power and more efficient equipment have eliminated many of them, only to make room for still new ones in unex-

So critical now are the station opera-tors and the invisible, but no longer silent, audience that no two orchestras or soloists may be broadcast in just the same way. Quite often the same orchestra cannot be broadcast more than one time on the same general layout of musicians and microphone location. This, no doubt, sounds like gross exaggeration, but it is a fact, nevertheless, in more than one studio.

Problems of the Studio.

In addition, there are the less bothersome details of adding or substracting rugs on the floor to "tone" down "highlights" or to "pull" up the "low places"; the shifting of silencing drap eries that cover the walls of the studio and changing the location of the mike

The latter may be moved from the centre of the studio to one corner, then to another. It may face the orchestra or have its side or back turned to the musicians. When placed in a corner it may be hidden behind the drapes of the sidewall. One voice is "brilliant," another "dark," and so they require different track. ferent treatment in the pick-up; but just how different is dependent upon

many factors.

There are the air conditions in the studio, of which more will be said later, and the artist may be unnatural from nervousness and pitch the voice higher than is expected. These and many other things must be discovered after the programme starts. The 1000-watter does not sign off for fifteen minutes while making the discovery, and there-fore, the first five minutes are the hard-

Sometimes the studio may be a little bit cold for an afternoon broadcast in the middle of the winter; and when it begins to warm up there is more trouble. The orchestra must change its "shade." This happened recently in a studio. The first thirty minutes were fine and then the buzzer from the transmitter room on the roof began to sound like an SC

"What's happened down there?" demanded the outraged operator here it sounds like all the tin cans in town have been let loose. For the love of Pete, see what you can do about it, will you?"

The announcer knew that there had been no change in the way the orchestra was performing. Every man had broadcast many times before and knew how to keep the volume level that was requested. Groping in the dark for a moment, the announcer had them tone down their next selection, and then the operator reported the transmission per-fectly clear and satisfactory. After that there was no more trouble from that source.

Later we tried to analyse the trouble, but the only goat we could tag was the air in the studio.

Real "Atmospheric" Problems.

So many of these freaks are developing lately that some are beginning to dream about temperatures and humidity. One studio is new and supposed to be the most modern devised; there is an excellent forced-draft heating and ventilation system, but there are some unsolved problems that might be ex-plained if a miniature weather bureau was set up there. The writer thinks so and is gaining a few converts. Maybe thev'll get the weather bureau before they get through.

Does the temperature of a studio where the artists are in no danger of suffocation or frost-bite, have anything

UX201A 9s. 6d. from your, South Island Agents. Royds Motors Ltd. 211 Cashel St., Christchurch.

to do with the carrying power of the air between the artist and the mike?

Does the amount of humidity have any direct effect on the acoustic properties of the same air?

Do these two elements affect the walls, ceiling and floor of the studio and make them more or less vibrant? Even when the floor is oak, the walls concreted with an overcovering of "monk's cloth," and the ceiling is of felt composition?

Take this illustration. There is an orchestra which plays from a certain station every two weeks. It is composed of the same musicians, playing their usual instruments; but, every time they have returned to the studio, it has been necessary to alter their arrangement and change the mike pick-up Diagrams showing the location of

every instrument are made in the station log for every or hestra broadcast and it is but a moment's work to refer to them. However, they have proved of little service at a later date in helping to arrange a band for a return en-

Is there any other explanation than that the walls of the studio and the air are not in quite the same condition? And if this is true, isn't it also true that the atmosphere is affecting even the musical instruments which are not made of metal?

Rearranging the Setting.

Recently one of the regular orchestras moved into the big studio and the members took their accustomed places The first number had hardly started

4QG's ANNOUNCER

TO LECTURE AT 1YA.

Mr. Harry Borradaile, announcer at station 4QG, Brisbane, who has been appointed adjudicator of elecution and oratory for the forthcoming Auckland Competition Society's festival, to be held this month, will give a lecture at 1YA on Friday, August 19. His theme will be: "The Competition Movement as an Educational Factor." This lecture will take

place at 9 p.m. approximately.

when the buzzer from the roof started an uproar. The banjo was running away with the ether.

However, it was being played by the

same man who had been broadcasting every month for a year, and he knew his stuff. When the banjo was moved five feet further away from the mike its notes took their proper relative posi-

Another freak comes to mind. There is a blind entertainer, appearing regularly on a programme as a singer, who is his own accompanist. One week it isn't necessary to close the piano and the mike may be placed on its corner The next time the mike must go to a far corner and the piano be closed Sometimes it has even been necessary to restore the rubber cover to all except the keyboard. This man, being blind, has developed to a high degree the acuteness of his ears, of course, so it is not reasonable to believe that there is so much variation in his perform-

Be patient, give them five minutes. Maybe after the last piano solo the heavy rubber covering has not been restored to the piano and that instrument's strings are vibrating in unison with the violin or banjo: Possibly the sounding board of the piano is picking up some note to send it reverberating into the mike The mike can't well be moved, for you'd think your house was tumbling down, so great would be the thump when the stand was set down. And so that number goes to its conclusion in agony Then there is a little longer wait than usual after the announcement, and the next selection comes through as it should. The mike has been moved, the piano covered up. the side curtains rearranged, and so on

By the time these troubles are overcome, as likely as not, there is an al-together different type of number on the programme, and so the studio director and announcer may be standing on their heads again. At times an evening will become a nightmare, but none of it gets to the invisible audience; the listeners hear none of the long hours of rehearsals that precede a programme, or of the trouble that comes from last-minute programme cancellations.

There are all sorts of things like these constantly bobbing up, but the station personnel takes them as all in their day's work—which is providing you with a high brand of entertainment in your own home, every night of the week, and for which they do not

always get even vour thanks.

Remember, five minutes and a kind word once in a while are little in return for what we get. Let's give them both

Some New Zealanders have shielded their receiving sets in order to shut out interference, but have been sadly disappointed with the results Shielding, unless designed in the laboratory by competent engineers, is very likely to reduce the efficiency of the receiver.

COOLIDGE LISTENS

PRESIDENT'S WIFE TUNES IN.

Intended to help United States President Coolidge to while away the long evenings at the summer White House in the Black hills of South Dakota is a fine six-valve radio set taken along from the capital especially for that purpose. In fact, an enterprising broadcaster has offered to install a powerful temporary broadcasting station for the President's use in emergency com-munication and to be handy in case Mr. Coolidge decides to make a speech or two.

In the meantime, Fresident and Mrs. Coolidge will be enjoying radio programmes from nearby stations, with Mrs. Coolidge herself operating the set. The President is a much better listener than he is credited with being; never-theless, in Washington, he doesn't have much time for this. During the restful evenings in the Black hills, the situation is expected to be entirely dif-

ferent.

While there Mrs. Coolidge, who is reported to be quite a radio fan, will very likely for the first time regularly be able to hear some of the big coast stations, including KPO at San Francisco and KFI at Los Angeles. Likewise she will probably be able to get KOA at Denver with certainty. WCCO at Minneapolis will be the largest station close by, but others which ought to be heard without difficulty are most of the Chicago stations, WWJ, Detroit, KMOX, St. Louis, and most of the big stations within that area. In fact, lo cated about half way across the conti-nent, the Black hills ought to afford an ideal listening post, and weather conditions on the cool nights should be considerably better than in Washing-

BROADCASTS IN TURKEY

The people of Osmanieh, Turkey, have just had their first taste of radio broadcasting, according to a report to the United States Department of Com-A station has just been constructed in Osmanieh, and the people were amazed that a concert could be picked up out of the air with receiv

ing apparatus.
Sets are being rented to subscribers. and although the public is greatly interested in the project they are still incredulous as to its permanency.

A station also is being constructed at Angoria, according to the report. The Osmanieh station will work on 1200 metres, and the Angoria station on 1800 metres.

"Dad," said the little boy, "where is Atoms?" "You mean what are atoms," said his father; "there is no place called Atoms." "No. I mean Atoms—the place where kings get blown to."

(£60,000 RECEIVING STATION

The Fukuoka wireless station in Irumagun, Saitama Prefecture, said to be the largest receiving station in the Far East, has been opened and now is handling all incoming messages from Europe and America. The Haranomachi station in Fukushima Prefecture is functioning for transmission only The new station also will replace the Tomioka station in China Prefecture. The plant was started last August and £60,000 to build. It is equipped with apparatus made in Japan. It also has a transmitting plant, but this will not be used except in emergencies.

The prospectus of the Indian Broad-12,000 transmitters, in Bengal and the Bombay district, points out the possibilities when a chain of powerful stations shall make possible crystal recep-tion throughout the densely-settled areas. A listener's license in Indicosts 10 rupees (15s.) The two new The two new giant Indian stations are expected to be testing this month. New Zealanders should listen for them round about 1

CHURCH SERVICES ARE APPRECIATED.

Many letters indicative of how greatly the broadcasting of church services on Sunday evenings is appreclated reach the Broadcasting Company. Many letters, also, reach the preachers from those who listenin from afar. Typical of these communications is one, perhaps best described as an anticipatory epistle, which reached the Rev. Clarence Eaton on the eve of the recent Sunday on which the service was broadeast from Taranaki Street Methodist Church: -"I notice," says the writer, "you are 'on the air' on Sunday evening next. We shall be in the great ----en congregation. Mater, now nigh eighty years each, are ---ing over to join with you. Great is your opportunity 'midst the millions. We attend many church services in New Zealand and Australia—a flick in the wave-length and we jump thousands of miles. I notice Bishop Averill is 'on the air' the same night. The Spirit of Truth is nigh unto responsive people.

LOUD, BUT DISTORTED

AIM FOR TONE.

Don't bring in the music too louding or you will overload your valves.
There are physical limits to the capacity of radio valves just as there are to our appetites or the speed our car will develop without also developing trouble. Very few machines of any kind are efficient when overloaded. If we eat beyoud our normal requirements we suffer all manner of disagreeable conditions. indigestion, fatigue, sleeplessness, et al; if we drive our motor beyond its normal capacity we lose traction, are bounced about, and are as likely as not to burn out a bearing or two. If in our radio receiver, we are using small valves and we turn out enough volume to fill a dance hall we cannot expect music, because we are sure to get noise instead. Overloading our valves-and such operation is surely doing just that—results in a heavy drain on our batteries and produces dis-tortion which almost any ear will de-

Do Not Overload Valves.

Where small valves are employed ws may well be satisfied if our load supplies volume enough for a medium sized room. Where semi-power valves are properly used we may expect enough volume from our speaker to fill a large room without sacrificing tone quality, but where music loud enough for dance ing in a fair-sized ballroom is required ordinary valves will not do. We must use a power amplifier, equipped with power valves.

Harm to Radio.

The idea that an ordinary receiver may be used in a club or hotel diningroom without such a power amplifier is doing much more to hurt radio than to make it popular. In almost every case of this nature the receiver is cranked up to the last notch in order to have it heard above the rattle of dishes and buzz of conversation. The result is bediam. Radio receivers, when properly designed and properly operated, are capable of tremendous volume accompanied by beautiful tone colour. They may be called upon to serve where every other means for providing entertainment fail, and they will produce music in a most satisfactory manner if we employ, them with some regard for their limitations and do not look for Cadillac performances from a flivver.

While the rights of broadcast stations to the air are still to be determined, the city of Portland, Ore., U.S.A., has outlawed man-made interference (violetta), Normal similar electrical appliances) by an ordinance prohibiting the operation between 7 and 11 p.m. of any electric device causing interference to reception, and taxing each such article a 4s. license fee to pay for the inspec-tion. Other cities are contemplating

OUR 7/6 OFFER ENDS AUG. 13!

=== Send 7/6 =

for first year's subscription to "THE RADIO RECORD"—the progressive, national Radio Weekly-full programme: for week ahead.

THIS OFFER CLOSES AUGUST 13.

The "Radio Record" will be issued weekly at the low annual subscription rate, postage free. of 10/- (12/6 if booked).

SPECIAL OFFER OF 7/6 RATE.

As a special introductory offer, however, to induce the largest possible number of subscriptions in the shortest period of time, a concessionary rate of 7/6 per annum for immediate acceptance is submitted.

The "Radio Record," P.O. Box 1032, Wellington.

Please enter me as a subscriber to the "Radio Record" (published weekly) under your special introductory offer of 7/6, (Add Exchange on Cheques) post free, for twelve months from August 1, 1927. I enclose postal notes accordingly.

Name..... Address

Ordinary future Rates-

10/-, post free, paid in advance. 12/6 (booked) per annum.

7/6 Per Annum Paid in Advance



Fill in this Coupon NOW and save 2/6

Mainly about Construction

BY "MEGOHM"

GAN BE MADE BY ANY-BODY

There is a simple crystal set for the beginner in construction. It is not intended to be a permanent set, but can be quickly constructed and put into use while the owner takes his leisure to construct a more pretentions set. All that is required in addition to the items given are a pair of headphones and an

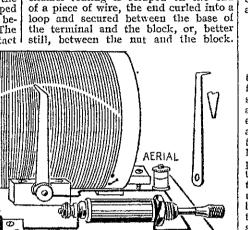
Articles Required.—Cardboard former about 5in. long and 3in. diameter, 3 brass terminals, 41b. 20's enamelled wire, permanent crystal detector, piece of board about 9 x 5 inches, 1 dozen of board about 9 x 5 inches, 1 do in. brass screws, sheet brass, etc.

As no condenser is to be used in tun-ing this set, it is necessary to provide a means of tapping the coil at the exact turn that tunes in the required sta-tion. Any means that will accomplish will answer well, but the simplest and most convenient is a metal arm moving in an arc across the wires, the insulating material having been scraped away to give good metallic contact between the metal arm and the wire. The end of this arm that makes contact

EFFICIENT CRYSTAL ing is now proceeded with as described elsewhere on this page, and this method will be found good whether the former is bought or made at home. The ends of the coil can be supported on small blocks of wood, and the coil clamped down by a lath running through the bottom, a hole being drilled in each end of the lath through which screws may be passed to fasten the whole to the baseboard. The finish of the coil is fastened through two holes in the is fastened through two holes in the former, but cut off close as it does not connect to anything.

The Tuning Arm.

The brass for the tuning arm should be hard brass for the tuning arm should be hard brass of 18's gauge, 2\frac{1}{2}in. long, at least, but the length can best be de-termined after the coil is fixed in posi-tion. When straight up it should con-tact the wires well above the centre of the coil. The wide part of the arm is about in across, drilled to fit over the about \$\frac{2}{2}\$ in across, drilled to fit over the terminal on the portion that usually holds a wire. Half an inch at the other end is turned over at right angles, the width at the bend being about \$\frac{1}{2}\$ in. The end is tapered nearly to a point, a small flat being filed at the extremity. The block should be thin enough to allow of the terminal projecting at the back through the hole projecting at the back through the hole drilled for it, so that a nut can be screwed on to keep it secure. The enamel coating is scraped off the end of a piece of wire, the end curled into a loop and secured between the bace of loop and secured between the base of the terminal and the block, or, better still, between the nut and the block.



the wire on the coil must have upon it a small flat which will rest upon one wire without touching the wire on either side of it. As a crystal set is generally used only on the local sta-tion, once the arm is set it will only require moving in the event of the station getting several metres off its usual wave-length. It is convenient, therefore, to fix the pivot of the arm in a suitable position below the few turns upon which contact is to be made. If two stations can be heard, then the pivot may be fixed half-way beween the two positions. The new Wellington station, 2YA, comes in best at about 80 turns on a three-inch former, with an 80 feet aerial, whilst about 100 turns should be provided to include 4YA if that happens to be the local station, and for 2YA 90 turns should be put on to leave a margin, and this same winding will suit for 1YA and 3YA, as they will tune in on fewer turns than 2YA as their wave-length is lower

The Coil.

Twenty's enamelled wire is to be used for the coil, and wound close together goes about 23 turns to the inch, 90 turns occupying about four inches, that a former five inches long will give a good margin at the ends. The diaa good margin at the ends. The diameter is to be three inches. Two holes are made near one end with a fine bradawl, the wire is passed in through one hole and out through the other, for the centre piece lin. by in. Holes eaving about five inches of end. Wind-

This wire is -craped clean where it is looped round the aerial terminal, and without cutting, continues to one end of the crystal, whatever type may be used as detector. The enamel must be carefully and thoroughly scraped off the wire for a distance of half an inch or more, wherever it is to connect to another part of the circuit. Even a small portion of enamel remaining will sometimes stop signals from coming through.

The Crystal.

The crystal shown in the drawing is good type of semi-permanent crystal that will go for days without resetting, and will give good volume Some may prefer the carborundum type, which is put up in similar cartridge form, but has the additional advantage of never requiring setting, and always gives good and consistent volume and tone. It pays to buy a good crystal to ensure continued good reception, and it can always be used in a more pretentiouslooking set that may be constructed later on. Of course, a cat's whisker and loose crystal can be used, but is not recommended for local reception.

'Phone Connectors.

The 'phone connectors shown are made from 30's hard brass sheet, curled roand a nail or drill shank bin. in diameter. The brass for the two outside pieces measures 14in. by 4in., and

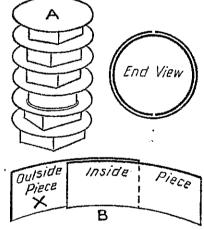
shown, and the connectors fixed to the board with in. No. 4 brass screws. The loose end of wire from the left-hand of the coil is now cleaned at the proper position, clamped under the earth terminal, and continues to clamp under the brass 'phone connection (1). These 'phone connectors will allow of two pairs of 'phones being used. If one pair is in use, plug the tags into 1 and 4; if two pairs, plug the first pair into 1 and 2, and the second into 8 and 4.

Final Remarks.

The baseboard may be finished with shellac, dissolved in methylated spirits, rubbed on with a rag, but this must be done before attaching any of the parts. The crystal is shown supported by the connecting wires, but a brass angle piece drilled in on one face and drilled for two screws on the other, can be screwed to the board, the wire from aerial clamped underneath. The broad end of crystal mount will then clied the screw of the The broad end of crystal mount will then slip through the \(\frac{1}{2}\) in hole and is secured by the nut provided, and stands in the same position as shown, but is more securely held. Provided that a reasonably good aerial is erected, this set will give all that can be desired in the way of crystal recording. Where set will give all that can be desired in the way of crystal reception. Where the aerial used is short, extra turns should be put on the coil to compen-sate. The track of the tuning arm should be bare copper kin, wide, the enamel being scraped off the wires with a sharp knife.

FORMERS FOR COILS

It is not always possible to purchase the particular size or diameter of coil former required, so here is given a simple and handy method of making a neat, true, and serviceable former of any exact dimensions. A sixteenth of an inch is usually sufficient thickness for the wall of an ordinary former. Two layers of the white card called by printers "8-sheet" will make up this thickness. If thinner card is used sufficient layers where the property to make the property to the pr thickness. If thinner card is used sufficient layers must be put on to make up one-sixteenth. The method will be best described by taking some particular size as an example, so we will suppose it is desired to make a former of three inches outside diameter and four inches layer. four inches long. From an old cardboard box cut six circles $2\frac{1}{5}$ in. diameter and pile them up with small blocks of wood or anything handy to separate them about $\frac{3}{4}$ inch as shown at



A in accompanying drawing. This is only to act as a core around which to make the former. Now cut a strip of the good card four inches wide and place round core, marking where it round. Now keeping this round the core, place another strip round the outside, marking the full distance round, and cutting off just short. Now glue about half of each together as shown at B, and when the glue is sufficiently set, glue all over portion marked X, place round core, work into position with both hands, wind two or three yards of twine round outside and leave to set. Seccotine used sparingly is a handy adhesive. A coat of thin shellac varnish will keep the damp

DON'T TWIDDLE

HANDS OFF THE DIALS.

Many listeners attempt to retune their set when one programme number gives way to another. They notice a decline in volume and assume that the set needs adjustment. If the dials are not turned, the volume control is adjusted, or perhaps both are tinkered with, on the assumption that this is

Nearly always there is no occasion for touching the set. The volume change is due entirely to conditions at the broadcasting station. Perhaps a soprano has just given way to a brass band. The operator in the control room of the station takes care of the volume by adjusting resistances connected with the speech amplifier—an audio channel used for regulating the ampli-

fication of everything broadcast. A different adjustment is needed for a band than for a soprano, and it may take a few moments before the transmitter is properly settled for the new conditions.

Therefore, when a station seems to be suffering from an odd form of fad-ing at the time of programme change keep in mind the probable cause and let your receiver alone. No attempt should be made at readjustment until a few minutes have elapsed

RADIO BATTERIES

DRY AND WET CELLS

INTERESTING FACTS.

Between the storage battery and the dry battery are four outstanding differences in operating characteristics:

First, the storage cell is rechargeable. Following the change of lead peroxide and sponge lead to lead sulplate in the normal discharge of the cell, this lead sulphate may be converted again to the original condition of peroxide on the positives and sponge lead on the negatives by connection to a suitable source of charging current, the cell then being again ready for another period of service discharge.

In other words, the discharging process is reversable, and the succeeding operations of discharge as a source of electric power supply and charge to bring back the conditions under which the storage cell may again furnish electric current may be repeated indefinitely until the cell wears out in service.

Various Differences.

The primary or dry cell, however, may act but once, continuously or intermittently, as a source of electrical current. When discharged it is useless.

Second, the difference in voltage of the storage cell between the state of full charge and that of nearly complete dis-charge is relatively slight. The voltage is well maintained under given conditions of discharge rate for the larger portion of the discharge period, drop-ping down less rapidly at the start and holding well up until nearly at the end. With the dry cell the voltage drops in more or less of a straight line from beginning to end of discharge and over a considerable range.

Internal Resistance.

Third, the virtual internal resistance, that is, the resistance factor which produces variation in voltage with change in current rate, is extremely low in the storage cell. Both storage and dry cells increase in internal resistance as dis-charge progresses. Not only is this increase in resistance less marked in the storage cell but the initial value of re-sistance is so low that this effect is practically nil The dry cell, however, gives a voltage somewhere near its ini-tial voltage for only a small portion of its rated capacity in terms of rate and time and exhibits more and more as discharge progresses variation of this

voltage with current change.

Fourth, the storage cell has to a marked extent the property of recovery. In intermittent operation, as usual in radio service, it gives at the beginning of any short discharge period a voltage higher than that given at the end of the previous discharge, and until the intermit-tent discharges have integrated nearly to the rated capacity, the storage cell gives under these conditions of intermittent use the voltage of a nearly charged condition.

Why Life is Shortened.

Reverting for a moment to the first outstanding charac cell, the type of plate used in both A and B radio batteries will give in laboratory practice from 400 to 600 cycles of charge and discharge before disintegra-This would indicate a service life tion. in radio of many years. Actually, this service life is greatly shortened, due to abuse, overcharging and overdischarging, idle periods in a discharged condition, lack of attention to the necession. sity of refilling to replenish evaporation and other causes. In farm lighting plants, where the same type of plate is used and the battery is given a more type of the control of the cont or less complete charge, usually weekly or twice a week, a service life of ten years is not unusual, and six to eight years something like the average. A radio A battery should give dependable service over a period of at least four to six years.

In our second consideration, the open circuit voltage of the storage cell of the pasted plate type may be taken as 2.15 volts at full charge and initial operating voltage at low rates as 2.1. Ralio bat-teries are usually of sufficient capacity for several weeks' intermittent opera-tion. The final discharge voltage may be as low as 1.80,

Greatest Discharge.

By far the greater portion of the discharge at radio rates, whether con-

and 1.95 volts. The final voltage is approached only as the cell nears complete discharge. This variation from 2.05 to 1.95 represents only 5 per cent. lowering in voltage over most of the discharge period. In comparison, the initial voltage of the dry cell, 1.5, drops down from the start, going to about 1.13 at the practical end of its useful service life, a variation of 25 per cent. Now, again, if partially charged of

Now, again, if partially charged at more frequent intervals than would be represented by the full discharge period, or installed with a so-called trickle charger, the available voltage of the storage cell may be considered as constant at or near the 2.1 voltage or full charge, whereas the continual loss in voltage of the dry cell is unavoidable.

Making Wet Batteries.

Storage batteries for radio service are almost universally in the lead-acid type of the so-called Faure plates. are made with grids or lattice frameworks of lead antimony alloy, on which by special machine processes are pasted mixes of lead oxides, constituting the active material.

After pasting, the plates are converted respectively into positives and negaed respectively into positives and negatives in the forming process, that is, by continued charging. They are then in A battery manufacture, assembled into groups by lead burning the plate lugs to so-called post straps, then assembled with the separators, usually of wood, Port Oxford cedar, in compartment type rubber or class containers ment type rubber or glass containers.

Cells are joined together by lead

links, integrally lead burned to the posts of the positive and negative groups, and to gas and acid tight lead bushings moulded in the rubber covers. When finished, the batteries are shipped either with the acid, charged and ready for use, or more often in what is called the add-acid type. In this form the batteries are without acid, but com-pletely charged and ready for service upon the addition of the necessary acid electrolyte.

Sizes of Batteries,

Radio A batteries range in size from 18 ampere hours capacity at four volts for some types of super-heterodyne re-ceiving sets, and 35 ampere hours at six volts for so-called trickle charge batteries, up to the larger A sizes of 75, 93½, 105 and higher ampere hour capacities. B batteries are usually in two plate types, in glass jars, of capacities 2500 to 4500 milliampere hours and in assemblies of 12, 24 and 40 cells, giving nominally 24, 48 and 80 volts, and covering the voltage range of standard 22½, 45 and multiples of these figures in dry batteries. Both the A and B types find application in broadcasting stations as well as for home receiving sets and amateur transmission.

PLUS OR MINUS?

TO ASCERTAIN WHICH IS WHICH.

Difficulty in ascertaining which is a positive or negative wire connected a battery is frequently experienced by radio fans. This applies particularly to loudspeaker cords. Connecting the loudspeaker with the wrong polarity causes weakening of the magnet within it

The simplest method of testing the polarity of wires leading from storage batteries of small voltage is by grasping any pipe or ground wire with one hand and touching the wire you desire to test to your tongue. The positive wire will give you a slight sensation or a sort of sour taste; the negative will have no effect. Do not attempt this, however, with alternating current, or, in fact, any current of high voltage. With any voltage up to 110, you can determine the polarity by touching with a fingertip. If an alternating current, touch very quickly. If it is a positive wire you will get a slight shock; if negative, there will be no effect. Direct current (used in radio receivers) will cause a slight tangling feeling, whereas alternating current will produce a a sort of sour taste; the negative will alternating current will produce a shock. There is no danger in making these tests on ordinary battery power in connection with radio. If, however, you prefer a different means, place a little common salt in a class of water and insert the ends of both wires in the solution. There will be a bubbling around the negative wire, while the positive will apparently produce no effect on the water.

Printed and published for the New Zealand Radio Publishing Company, at their registered office. Dominion Avenue, Wellington, of the Wellington Publishing Company, by Archibald Sando, of 47 Freyberg Street, Lyall Bay, FRIDAY, AUGUST 12, 1927.

HOME CONSTRUCTORS

Write for our Illustrated Catalogue of Radio Parts. DE FOREST VALVES BRANDE'S 'PHONES IGRANIC COMPONENTS RADION PANELLING

INTERNATIONAL RADIO CO., LTD., FORD BUILDINGS, WELLINGTON

Full particulars and prices from JOHN CHAMBERS & SON LTD

RADIO

BETTER TONAL QUALITY

CARBORUNDUM

DETECTORS

AND STABILISING UNITS.

Can be used on any set from crystal hook up to super outfit. Users of Carborundum Detectors in crystal sets have reached out to stations 1,100 miles away, and get perfect reception at 200 miles.

Also stocked: the world-famous

HELLESEN HIGH TENSION

RADIO BATTERIES.

SENSATION

INCREASED SELECTIVITY GREATER DISTANCE

WELLINGTON.

ALSO AT: Auckland, Christchurch, Dunedia and Invercargiii.

The Children's Corner

By "ARIEL"

Dear Boys and Girls,-Here is another picture for you to paint this week, and then next week we will see our No. 1 animal of the Wireless Zoo—the "Howler." Won't that be exciting? I have an idea he is going to be a beauty, too!

Have you all got your "Smilers" ready? Remember they have to be in by August 17.

For our third animal I think we will have a "Krytik." He is a "yarly-snarly" creature who sits around with his ears well back, showing all his teeth. No matter what you give him, he always wants something else. Even in his brightest moments he is rather "sniffy," and he has never once been known to show the least bit of gratitude to people who do their level best to please him. See what you can make of him and send in your drawings and verses with your letter writing competition by Aug. 24.

The picture for painting is of Kink and his Squizard meeting a Sandman over the hill. Kink says—

"My Squizard can turn himself head-over-tails.

And dance on the tips of his toes; But all I can do is to waggle my ears And balance a ball on my nose."

He's got the right kind of ears to waggle, hasn't he?

I am so glad to know that you are all interested in our corner. As one little girl remarks—"it helps to pass away a rainy evening." Another boy says he is "tickled to death" with the idea of drawing a Wireless Zoo! I am looking for great things from him!

Oh! I almost forgot to tell you to be sure and use water colours for your paintings (if you have them). You can make a far nicer picture with them than with coloured chalks.—Love till next time, Ariel.

HIDDEN FRUITS

In each of the following sentences is a hidden fruit—just ordinary, well-known ones. See if you can find them before you get your next week's paper. The letters occur in their correct order.

1. We each err, yet are always pardoned when repentant.
2. "Draw me a map, please," said the schoolmaster to his geography

class.
3. "Isn't this sweet pea charming?" said the gardener, proudly exhibiting

his flowers.

4. What is the difference between a turban, a narcissus, and a pillar-box?

5. Is this really the same London that I remember twenty years ago?

6. A mustered plaster will often stop

lumbago if put on in time.
7. At his birthday party poor Ted ate far too much cake!

8. The burglar was very cunning, but

could not escape arrest.

9. A little whimpering our ran through the half-opened door.

The answers will be given next week

MUDDLED NAMES

Here are some muddled names of people of whom you have all heard. Who are they?

1. BROOCHIND.

2. OREGLEDGLOY. 3. DANIBS.

TEENRAPP. LENNOS. 6. GETHINK.

A CHILD'S DREAM

I had a little dog, and my dog was very small;

He licked me in the face, and he answered to my call;

Of all the treasures that were mine I loved him most of all.

His nose was fresh as morning dew and blacker than the night; I thought that it could even snuff the

shadows and the light;
And his tail he held bravely, like a banner in a fight. We ran out in the morning, both of us,

to play, Up and down across the fields for all the sunny day; But he ran so swiftly-he ran right

away. I looked for him, I called for him, en-

treatingly, Alas!
The dandclions could not speak, though they had seen him pass,

And nowhere was his waving tail among

the waving grass. I called him in a thousand ways, and yel he did not come;
The pathways and the hedges were

horrible and dumb.

I prayed to God, who never heard. My desperate soul grew numb.

The sun sank low. I ran; I prayed: "If God has not the power To find him, let me die. I cannot bear another hour."

When suddenly I came upon a great yellow flower.
And all among its petals, such was

Heaven's grace, In that golden hour, in that golden

place, All among its petals was his hairy tace. -Frances Cornford.

WHAT AM I?

How pleasant to stroll along O'er upland, vale, or lawn, And listen to the joyous song Of my first at early morn. My second oft, too oft is used By hunters in the chase; And sometimes too is much abused by rides in a race. My whole is seen in summer time Amid the gay parterre, And blooms quite freely in our clime If treated but with care.

Answer to last week's: Schoolroom,

"Oh, doctor, the child has swallowed a bottle of ink!"

"And what have you done?"
"We made him eat a sheet of blotting paper.2

MAY DAY IS COMING

Although we have no real May Day here, I think this verse is so pretty we might adopt it for our coming spring

Silver stitchery

Elfin witchery,
Sew up the seams of my Lady's Smock!
Quick, and begin it!
Don't waste a minute!
What is the time by the Dandy's clock?

Robin's raggedy, Torn and jaggedy, Billy's buttons want tightening up;

Waken, you lazy, Sleepy-eyed Daisy,

Polish your petals, O Buttercup! Marshy Marigold, Every bud unfold!

Hawthorn, spread all your ledges with snow; Orchis! Celandine!

Meadows, gold and green!
May Day is coming! Didn't you know? —Catherine A. Morin.

A BEDTIME STORY

WHAT THE OWL HEARD.

Old Mother Owl, who lived in the largest oak tree in the village, woke one evening just as the rest of the world around her was thinking of going

She stood on the ledge of her home and blinked at the light. The sun had not finished setting, and little birds were still about. A chaffinch swung on a branch above her, though she could not see it properly, because the light was too strong for her eyes; but she heard it twittering and laughing at her.

"Come along," it said, "old blind wl. You can't catch me." But the owl felt too dignified to

make a dart at him, knowing he would only cheerfully hop on to a branch above and laugh at her again, for if she came out too early in the evening the little birds had a way of teasing her. So she just stayed there and talked to her fluffy but nearly grownup babies, who were in the nest inside

Presently the sunlight died down; a young moon appeared across the pale sky, and the night put on her silver

clothes.

"Come," said old Mother Owl, as she called to her children; and, being of rather a poetical disposition, which perhaps came of being so much among the dark trees when the beauty of moonlight was dimpling the shadows, she sang this little song The day sleeps now, so you must wake

Inside this woody tree; And come to where the shadows hide,

For you must hunt with me. The old dark oak which is our home

Is crowned with silver light; And overhead the little clouds, Like feathers soft and white.

Race through the darkness hand in And dance across the skies;

The moon has such a heaming face, The stars such shining eyes,

So pread your wings, and leave your

Inside this woody tree; And come to where the shadows creep, For you must hunt with me. And the young owls answered "To-whoo, to-whoo," and off they started,

whoo, to-whoo," and off they started, each on his journey in search of adventure and supper.

When Mother Owl got to the Squire's garden with its sweeping lawns and sleeping flower-beds, she paused to rest on the branch of a cedar tree and looked around her.

It was nearly dark now, and lights twinkled from the old Manor, and as it was a warm evening the windows

were open, and music and voices came from the inside. Humans inter-ested Mother Owl, those strange things that went in at night and came

things that went in at night and came out in the day, and she flapped her soft, quiet wings and flew nearer to the lights in the house to get a glimpse of the people inside.

The room she first went to was so bright that she was blinded and could see nothing; so she softly flew to a room above that one, which had the dimnest of glow-worm lights in it. And there she saw what to her seemed a wonderful sight.

CAN YOU PAINT THIS PICTURE AND WIN A PRIZE?



Read Ariel's letter in the next column, and see if you will be the lucky winner. Competition closes August 17. ARIEL, P.O. Box 1032, Wellington.

to bed in their white nests, and a grown-up one was singing to them the sort of little song that she sang to the babies in the old oak tree. Only these were the curious creatures who sang their lullabies at the time when she called her babies out to hunt and play:

When the dark is coming in You can see the stars begin; They are little pools of light In the meadows of the night.

Suddenly one of the babies looked towards the window.

"I saw a star begin then," he said.
And then, getting very excited, "Oh,
look! look!" he cried. "There's a
lovely big bird on the window-sill."

Mrc Owl felt this, and was wondering whether to fly away or not when the grown-up human came to the window, and the baby ones tumbled out of their nests and came running after her.

And still Mother Owl sat and blinked at them Lovely little white babies she thought they were, nearly as lovely as her own, but not quite. "Why, it's an owl," said the big nman. "I've never seen an owl so near the house before. What can it be thinking of?"

"Praps it wants to look inside our home, just as we like to look inside theirs," said the biggest of the babies. "Do you know Tony Hall found an owl's home a few weeks ago, and he took an egg from it. I saw it-''
But Mrs. Owl waited to hear no more.

So that's where one of her eggs had gone! She had missed it.
"I think it's disgraceful," she said to herself as she flew off to find sup-

"And I'll never be interested in humans again. Robbing people's houses like that! Why, we never steal from them. To come calmly and take one of my precious eggs, and then to be pleased about it!"

And next day when the dawn was coming, before they settled down to rest inside the old tree, she told her

children what she had heard.
And the owl babies said "To-whoo.
to-whoo!" which means a great deal more than it sounds.

And the human babies in the old

Manor house, as they were dressing next morning, said: "I wonder if that dear owl will ever come again and blink at us through the window?"

Granny: "You girls are so useless nowadays. Why, I don't believe you know what needles are for."

Grandchild: "What a dear old granny wonderful sight.

There were two baby humans going gramophone play, of course!"

MY SET WON'T WORK!

EVERYBODY ELSE TO BLAME!

It isn't so bad when the listener resides in the city, where service is readily available, but the distant upcountry novice listener is up against a serious proposition when he finds his set won't work. It went very well last night, but to-night it refused to perform. He, not infrequently, writes or wires to the nearest radio dealer: "My set won't work." The dealer hasn't much to go upon to diagnose the trouble in his correspondent's set, but the latter, by some obscure process of reasoning, decides that the dealer will know immediately where the trouble lies. Therefore, he says: "My set

won't work." Maybe the set, say, a five-year-old neutrodyne, has only one jack. And, therefore, it is not possible to narrow down the circuit by simple methods to ascertain whether the trouble is in, say, the detector circuit or the audio stages Causes of Trouble.

Among various causes of the "won" work" malady are the following:—
(1) A burnt-out transformer.

A loose connection in the circuit (3) A valve-prong not contacting properly in the socket. A fault developed in the valve.

itself, which may light, as usual. but not function (5) A faulty jack, the phone plug not contacting properly.

(6) A piece of fluff or dirt caught in-

side the jack, preventing proper contact. (7) Batteries connected the wrong

way. (8) Corrosion on battery connections which can be cleaned off with

household ammonia. (9) Batteries run down.
(10) A fault in one of the rheostats Possibly a broken resistance wire These are not all the ills that a radio set may be heir to, but they

CHURCH SERVICE VALUED

are among the most common.

Speaking at the Taranaki Street Methodist Church, Wellington, on Sun-day evening, the Rev Clarence Baton made reference to the broadcast service of the previous Sunday, stating that during the week he had received telegrams and letters from listeners-

in in Wanganui, Hawera, fauranga, Hastings, Nelson, Rai Valley, Marlborough, Oamaru, and Dunedin. Writing from Bethlehem, near Tauranga, a former member of Wesley Church stated that, though 400 miles away, every word of the sermon was heard, and the voice actually sounded clearer than if the hearers had been in the church. Mr. Faton said it was parer than if the hearers had been in the church Mr. Eaton said it was particularly pleasing to know that many in isolated and wayback townships were thus linked up with the more privileged dwellers in the cities. When next broadcasting, Mr Eaton said he would be glad to get a line from friends listening who appreciated the broadcasting of the service of the church.

RADIO ON THE FARM

"AN UNTOLD BENEFIT."

A small farmer in the middle of the North Island writes: "Within the last three months we have installed a wireless set and have derived great pleasure from your progs. There is no doubt that radio is of untold benefit to country people, whose isolated position renders them unable to take advantage of the many forms of pleasure possible to those living in or near a town."

💠 ZONITH OR O Z ZOON OO HULL ZARAGOONIL ZARAGOON OO KA ZOON OO KA ZARAGOON OO 🥸

AFTER **AUGUST 13** MOST

Radio Dealers and Booksellers will accept subscriptions for the Radio Record.

Subscription Basis 10/- per annum, eash in advance.

Tell Incoming Listeners!

The Radio Record

P.O. Box 1032,

WELLINGTON. 🚰 mannarchananan comananch mannarchan mannarchan 🖥

How Sporting is Broadcast -- Imperial Lectures Introduced--A Valuable Location Map



Dublished Weekly

REGISTERED G.P.O., WELLINGTON, N.Z., AS A NEWSPAPER.

Price 3d.

Vol. I, No. 4.

WELLINGTON, N.Z., FRIDAY, AUGUST 12, 1927.

Per Annum, Post Free, 10/-; Booked 12/6.

Brilliant Record of Gisborne Amateur.

Amateur radio station, 2AC, owned and operated by Mr. Ivan H. O'Meara, 209 Harris Street, Gisborne, has been on the air since 1923, and is known in amateur transmitting circles in every country of the world for its achievements. In all, Mr. O'Meara has been in communication, by morse, with 53

Mr. O'Meara first became interested in wireless in 1912, when crystals were in vogue, and when a perikon, or a good piece of galena, was considered the best detector in the world.

Station 2AC first came into promithence when it created a sensation by working Station CB-8, Mr. Charles Braggio, of Buenos Ayres, Argentina, on May 22, 1924. The distance spanned was 6700 miles, and almost twice the record of any other amateur station. This feat was accomplished on a wavelength of 125 metres. It received the praise of all amateurs and radio engineers throughout the world.

A RECORD REWARDED.

The Radio Society of Christchurch, New Zealand, presented a large silver cup to Mr. O'Meara on this occasion in recognition of this great achievementthe first amateur trans-Pacific communication. The society also made Mr. O'Meara a life member of that body.

This record was not broken until six months afterwards, when Mr. F. Bell, 4AA, worked California on a wavetength of 120 metres. Three weeks following this Mr. O'Meara changed his

Morse Contact with 53 Countries

Up in Gisborne, on the East Coast of the North Island of New Zealand, there is an amateur transmitting station, 2AC, which has made history in radio, not only in New Zealand, but in the world. Both in transmitting and receiving its owner and operator, Mr. Ivan H. O'Meara, has loomed large in the public eye from time To the broadcast listener in particular, Mr. O'Meara's name is familiar through his reception of news of great happenings in lands afar, which he has generously passed along to the Press. Only the other day he received a full report of the Dempsey-Sharkey fight in New York before the news filtered through by

wave-length to 80 metres, and again broke the record by communicating with amateur station ISF, Mr. Johnson, Short Beach, Mass., U.S.A., just north of New York.

SPANS 9000 MILES.

The distance spanued was 9000 miles This was the commencement of reliable radio communication on short waves. Mr. F. Bell then worked Great Britain, using 60 metres wave-length, and this then became the record for 80 metres.

On 40 metres new records were established, and soon broken, until work was carried down to 20 metres, on which wave-length Mr. O'Meara has done a considerable amount of operating and experiment. His best performance on 20 metres was a nine hours' continuous contact with amateur station 8JN, in Paris. This feat received the plaudits of General Ferrie, the great French scientist and experi-



MR. IVAN H. O'MEARA.

menter. Communication was maintained with the Paris amateur from 6 a.m. till 8 p.m. Paris time, and the signals from Mr. O'Meara were still good at 3

A 17,000 MILES RECORD.

Mr. O'Meara's best long-distance record was made on 20 metres, when he worked station SALY, in U.S.A., the "long way" round the world, which is approximately 17,000 miles. must be explained to the uninitiated that radio waves are stifled by sunlight, and when long distances have to be spanned radio waves always prefer to take the route of darkness. Thus it was that Mr. O'Meara's communication, which was accomplished at 8 a.m., New Zealand time, travelled over Australia, Africa. Europe, Great Britain and across the Atlantic Ocean,

The best relay work performed by Mr. O'Meara was his receiving of a message from amateur station 81N, in Paris, and its communication to another amateur in Shanghai. An answer was obtained by Mr. O'Meara, who relayed it back to Paris, the total time occupying less than ten minutes.

FIGHT NEWS FROM NEW YORK.

Last April 2, when the New Zealand boxer, Tom Heeney, fought the Spaniard, Uzcudon, at Madison Square Garden, New York, Mr. O'Meara arranged details with the officials of the Radio Club of New York to obtain prompt news of the contest. The result of the fight was published in a Gisborne paper five minutes after it was over. Probably it was published in Gisborne before it appeared in the New York papers. The fight was described blow for blow, and the details were keenly interesting to the boxing folk of New Zealand. This feat was described as unparalleled in the history of jour-

A similar achievement was recorded in connection with the Dempsey-Shar-key fight last month, when the result was known in Gisborne as soon as it was declared by the referee. The most exciting rounds were described blow for blow, and, thanks to O'Meara's wonderful little station, the description of each of these rounds was published in the Gisborne evening

GREAT WORK ON 20 METRES.

The most interesting work done by Mr. O'Meara is on 20 metres and even shorter waves. Both Canada and the United States are worked by him from noon onwards, with daylight all the way, on 20 metres. He has received recognition in many countries for his pioneer work on short waves. foreign correspondence would require the services of a private secretary if it were all to be answered.

RADIO MARVELS

GREAT PREDICTIONS

The next generation may live in homes lighted and heated by power transmitted through radio beams.

Instead of to-day's furnaces and small power plants for each home industry or community the power of to-morrow may be generated in a few gigantic stations, scattered strategically over the globe. From them it will go surging through the ground and the air to be tapped by an aerial or a grounded wire at any point, to drive airplanes, auto-mobiles, and trains, provide heat and light and operate factories

Many At Work On Idea.

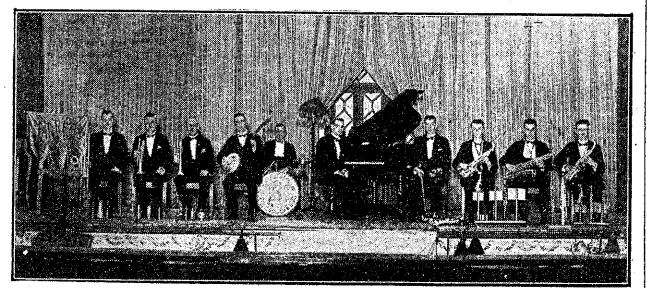
Such is the possibility pictured by Summer N. Blossom, editor of "New York Popular Science Monthly," in discussing the recent success of Dr. Phillips Thomas, Westinghouse research engineer, in lighting an electric lamp by radio power in a demonstration before the New York Electrical Society

While a group of engineers watched Dr Phomas raised in his hand an electric light bulb. To it was attached a four-foot copper rod. A short distance away a radio vacuum tube was turned on—and instantly the bulk glowed

"A few months ago," said Mr. Blosom, "no one dreamed that soon you would be able to see by radio—vet now we have television! Will radio power be the next great invention? Many scientists are at work on it to-day—and at any moment it may be realised on a practical scale

Organise Your Jazz Party for Aug. 27. 2YA Will Give Music from 9 to 11.

Allen's popular dance orchestra, featured below, will provide the music for a special jazz dance programme from 2YA on the evening of Saturday, August 27. There will be two solid hours of enjoyment from 9 to 11. Send out your invitations and let us know how you enjoy it.



A treat is in store for listeners-in one of New Zealand's leading ball-then Allen's Orchestra is on the air. room dancing teachers says: "I conwhen Allen's Orchestra is on the air. By giving the public what they want, this orchestra has made itself one of the most popular combinations of its kind in Wellington. This popularity is as much due to the individual members as to the band as a whole.

Noisy jazz is unknown to the orchestra, and all their numbers are of the Power By Radio.

Noisy jazz is unknown to the orchestra, and all their numbers are of the melodious type, but with plenty of pep and rhythm. They play all their efforts were always appreciated by discoverer of radio waves, tested its pos-

sider Allen's Orchestra most up-todate. They can always be relied upon to play the various dances at the correct tempo, and therefore the orchestra should be much appreciated by all good dancers." Many other compliments, too numerous to be mentioned,

sibility and found it feasible. Nikola Tesla, celebrated inventor, who devised a system of wired power to transmit alternating electric currents, now in use throughout the world, has experimented in the field for years. now he is designing an amazing wireless power plant to be erected at Niagara Falls. Dr. Charles P. Steinmetz, one of the greatest electricians the world has known, was a firm believer in future wireless power, and suggested a method by which it might be achieved. Senator Marconi, father of radio communication, adds his expert opinion that power by radio is near.

Beam Method Advocated.

"Only recently Marconi told the Institute of Civil Engineers in London. that the transmission of power by electrical waves awaited only the perfection of devices for projecting the waves in parallel beams in such a manner as to minimise dispension and dif-fusion of energy into space. The ordinary broadcasting station projects random waves in all directions. But Marconi has invented a radio reflector that concentrates the waves in one direc-tion, bunching them all together.

Would Make Wires Obsolete.

Short radio waves, 10,000 times shorter than those used in broadcasting, are the means Dr. Thomas will use. His goal is 'beam' radio—but a bean unlike any that has ever been produced. If he can make his radio waves short enough—and powerful enough—he will focus them to a narrow, four-inch ray by means of a curved metal mirror. Then he will project his beam, like a searchlight, to its destination Such rays would criss-cross and trumpet; Clarry Cummings, second trumpet; Bert Sutcliffe, trombone; Iim Goer, banjo; Mel. Wilkens, drums; Frank Idoyd, bass. Conductor, J. McRwan. shorter than those used in broadcast-