

PUBLISHED WEEKLY

THE RADIO RECORD

AND
ELECTRIC HOME JOURNAL

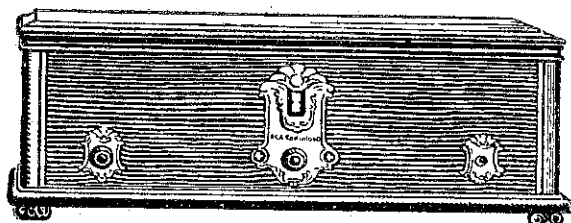
Vol. III., No. 36.

WELLINGTON, FRIDAY, MARCH 21, 1930.

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In Lighter Vein

Husband: "Don't sit quietly there! Can't you see I've been stung on the cheek by a bee?"

Wife: "Never mind, darling. Perhaps it's a vitamin bee—so good for you."

A Psychic Phenomenon.

A man and woman accidentally touched each other's feet under the table.

"Secret telegraphy," said she.

"Communion of soles," said he.

Equality.

Her Father: But, my boy, you are too young to marry my daughter. You are but twenty-one and she is twenty-seven.

Suitor: But, sir—

"No; at present the disparity is too great. Better wait half a dozen years and she'll probably be about the same age."

Welcomed Death.

The after-dinner speaker droned on and on. One diner after another yawned and nodded, one finally resting his head on the table. Leaning over, the chairman tapped him on the head with his gavel. The delinquent raised his head a little.

"Hit me again and harder," he said, "I can still hear him."

A Waiting Job.

Daisy: Dick, you look like a waiter in that dress suit!

Dick: I expect I do. Haven't I waited two hours for you to get ready?

Seeing is Believing.

A guide was conducting a party of visitors round New York. They stopped before the Woolworth building.

"That is a skyscraper," said the guide, laconically.

"Hm," muttered an old farmer, sceptically, "I'd like to see it at work."

He Got It.

"Well," said the lawyer for the defence to his client, "I was certainly surprised at your conviction."

"I wasn't; it was all your fault."

"All my fault? I put up a magnificent fight for you."

"Yes, an' you kep' yellin' at the jury that you demanded justice fer me till they went an' give it to me."

Topical Notes

A CORRESPONDENT recently wrote stating that two broadcast stations were clashing on the shorter broadcast wave-band. "Switch" gave it as his opinion that one of the stations referred to was in New Zealand. The other night the writer set about identifying the clashing stations, and identified them as the Invercargill station and 3DB, Melbourne. The latter was coming through with good volume, and the Invercargill station was working late, on tests.

ADVERTISING by radio is, in the opinions of many prominent radio people in America, becoming a menace to the popularity of broadcast listening. Dr. Lee De Forest, the famous inventor of the radio valve, as we know it today, speaking on his election to the presidency of the U.S.A. Institute of Radio Engineers, suggested that advertising by radio was "killing the broadcasting goose, layer of many golden eggs." This illusion aroused much controversy in the American newspapers, and met with widespread support for De Forest.

GERMANY is making most rapid strides in popularising broadcast listening. At the commencement of last October there were no fewer than 2,843,569 receiving licenses in Germany.

AMERICAN radio statisticians have been engaged on the question of how many people there are in the United States to the number of sets in use. To every receiving set in use, they estimate, there are 12½ persons in the United States. The figures computed for Europe are 53 persons to every set, and 88 persons in the world for every set in use. The writer ventures to suggest that the latter estimate rather exaggerates the number of sets in use, considering the teeming millions in China and coloured peoples

in Africa who have never seen a set. They would bring the average down considerably.

THE New York "Radio World" reports that "the speech by King George went over the Columbia Broadcasting system due to the heroic completion of an open circuit through the body of Harold Vivian, chief control operator. Someone tripped over the generator wire just before His Majesty was to speak. Thousands of listeners were eagerly awaiting the royal voice. Vivian grabbed the several ends, one in each hand. The shocks of the 250-volt charge and the leakage of current through his body to the floor shook his arms with spasms. But he held on until new wires could be connected. By that time his hands had been slightly burned and he was feeling the effects of the ordeal. As soon as the broadcast was finished he was sent home to bed. But officials of the company said that he was not seriously hurt."

THIS will interest New Zealand listeners: Mr. H. P. Brown, Director-General of the Commonwealth Postal Services, stated in Sydney recently that the plant for the relay station to be erected near Newcastle was on the point of delivery and the station would be in operation by the middle of May or June. The second station would be at Rockhampton (Q.) and would be working about two months later. Three more sites had been determined definitely, one on Spencer Gulf, South Australia, another, also in South Australia, near the borders of New South Wales and Victoria, and the third in the Albury district. Mr. Brown stated that it was not desirable to announce the sites of the remaining eight or twelve relay stations as circumstances might arise before their establishment to make it necessary to modify the present proposals.

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From April 15 to 21 railway fares will be reduced by approximately 6/4 in the £1. Tickets will be available for return until May 24.

Remember! The best places are always booked up well ahead. Make sure that your holiday reservations are made in good time.

Book Now at Railway Offices

And All the World Wondered

AT zero hour on Wednesday last was staged the most remarkable broadcast that has been enacted in the annals of radio. Six stations, the most distant separated by 10,000 miles, talking to one another as though connected by a telephone line, friends who had been separated for fifteen months chatting from continent to continent and exchanging pleasantries, bore striking testimony to the efficiency of radio broadcasting. Two days previously a small band of explorers who had participated in the most unusual expedition of the age, had made their appearance in our southern city. They had come from the vast snowy wastes that had up till their advent defied prolonged exploration. New Zealand welcomed them—through her radio Australia and their homeland, America, welcomed them. Never has there been accorded anyone such a welcome—probably not again for many years will such an event take place. It was wonderful—an awe-inspiring night that will live for ever in the memory of that vast audience of all nations and creeds.



NEW ZEALAND listeners will never forget the thrilling moments of last week. Those who heard the two-way conversations between Dunedin and New York will remember the occasion and prize it as one of their most valued experiences. The occasion of Rear-Admiral Byrd speaking to New York on his return from the Antarctic had a dual significance which will never happen again, and it completed in the most dramatic manner possible the important part which radio has played in the Antarctic expedition.

The speeches which were made in Dunedin and relayed to Wellington were rebroadcast throughout Australia, America, Canada, England and even in Germany. It was truly a most remarkable achievement. The number of people who listened in can be counted only in millions.

Apart from the interest attached to Rear-Admiral Byrd's share in the proceedings, the importance of the event, so far as it was confined to connecting Dunedin with New York for duplex radio telephony, was outstanding. It was, of course, the presence of Rear-Admiral Byrd which gave inspiration to the project and made the efforts worth while. The unlikelihood of there ever being any other incentive of a similar nature makes the one occasion more memorable.

Extensive Preparations.

FOR weeks past preparations have been in progress and tests have been made in anticipation of Rear-Admiral Byrd broadcasting. The problem to be overcome was how to make connection with New York. The only way which appeared to be practicable was to use the Sydney short-wave station of Amalgamated Wireless (2ME) to relay 2YA's transmission to 2AF, Schenectady. This plan was tested out, and then an extension was made to Dunedin requiring the use of 500 miles of telephone line and submarine cable. The whole scheme bristled with technical difficulties, on top of which were the uncontrollable atmospheric conditions. Fortunately, at this time of the year, reception in America is satisfactory, though not at its best, the best season for overseas reception there being now on the wane.

Listeners who heard the two-way conversations, although for the most part laymen in all matters pertaining to radio, could not help but wonder how it was possible for a New Zealand station to broadcast what was being said in the local studio and what was being said in America at the same time. The layman pronounced it all as marvellous and the more he tried to solve it all, the more confused he became. He heard 2YA speaking to New York, and he heard New York replying. That in itself was wonderful, but that was the simplest of the problems. It was when he heard the announcer at 2ME, then 3YA and then 4YA all taking a share in the conversation and all being broadcast from the local stations, that the "plot thickened."

It was, of course, all made possible by the use of relay lines connecting all the New Zealand stations. Excellent

to 2XAF and answer him immediately, his voice and the voice of the announcer at 2XAF being broadcast and heard by all New Zealand listeners.

Such is the speed of radio waves that although the voices of the speakers at 4YA went a round about way via Wellington and Sydney to New York, while the reception from 2XAF was direct, the difference in time was, of course, imperceptible.

Receiving Instrument

THE receiver in use at 3YA was a single control shortwave super-heterodyne set built specially by the Broadcasting Company's chief engineer for the purpose of shortwave rebroadcasts. The advantage of this type of receiver is that it can be set on two stations, marked by two stops on the dial, so that a single short turn can bring in either station. The cap-

Preliminary Testing.

THE final test before the big night when Rear-Admiral Byrd was to speak took place on Monday and was encouragingly successful. 2YA, 3YA and 4YA all took a share in conversing with 2XAF and 2ME. Those who spoke from 3YA were Mr. A. R. Harris and Mr. A. G. Henderson, of the United Press Association of New Zealand. These conversations were broadcast by all New Zealand stations and whetted the interest of listeners to hear the doings of the following evening.

As reception was direct and conditions were favourable, the voice of the American announcer, Mr. A. B. Hitt, was particularly clear. When final arrangements were being made, including a roll-call of all stations taking part, at 12.30 a.m. the following day, Mr. Hitt stated that a sound film was to be made and that a copy would be sent to the Broadcasting Company.

When the Moment Arrived.

ONE can well imagine the tension, even of listeners, as the radio zero-hour, 12.30 a.m. on Wednesday, March 12, approached. This was evident in the emotion betrayed by Mr. Adolph Ochs when he commenced to speak, realising as he did the part he played as one of the principals on an epoch-marking occasion. But all soon quickly settled down and the conversation was marked by the familiarity which exists between friends.

Mr. J. Ball, of 2YA, was the first to speak for New Zealand. He greeted 2ME and then 2XAF. "I am putting you right through to 4YA, Dunedin," he added.

Mr. A. B. Hitt (2XAF): All right. Thank you.

Mr. Ball: We wish you the best of luck.

From 400 miles further south at Dunedin, the voice of Mr. A. R. Harris came over the wire, greeting 2XAF.

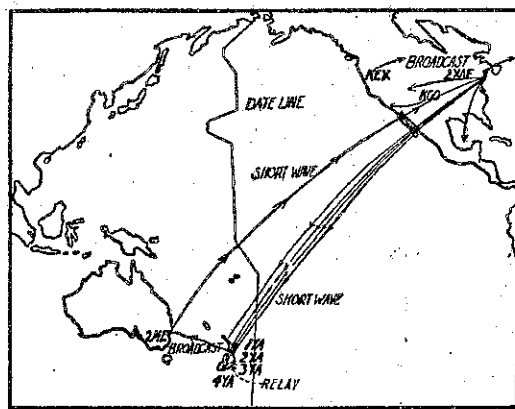
"How are you receiving us to-day?" asked Mr. Hitt.

"Very strongly," replied Mr. Harris. "How are you receiving us?"

"Much better than yesterday," came the reply from New York.

Mr. Harris said the Broadcasting Company was very glad to be able to co-operate in carrying out a two-way conversation with America and thanks were due to the Post and Telegraph Department for the assistance which had been given in placing telephone lines at the disposal of the company so that the New Zealand stations could be linked together and speech relayed from Dunedin to 2YA, Wel-

*How
Two Continents and Two Islands
took part in a broadcast that amazed the world.
Illustrating the vital part played by New Zealand*



*when
ADMIRAL
BYRD
spoke to his home
from
DUNEDIN
through
WELLINGTON,
SYDNEY
and
NEW YORK*

relay lines had been made available to the Broadcasting Company by the Post and Telegraph Department and made possible inter-communication between the stations. Each station had its own listening post where the 2XAF's transmission was received and relayed to the studio where it was superimposed on what was being broadcast from that station.

Thus, the announcer at 2YA, sitting with headphones on, was able to listen

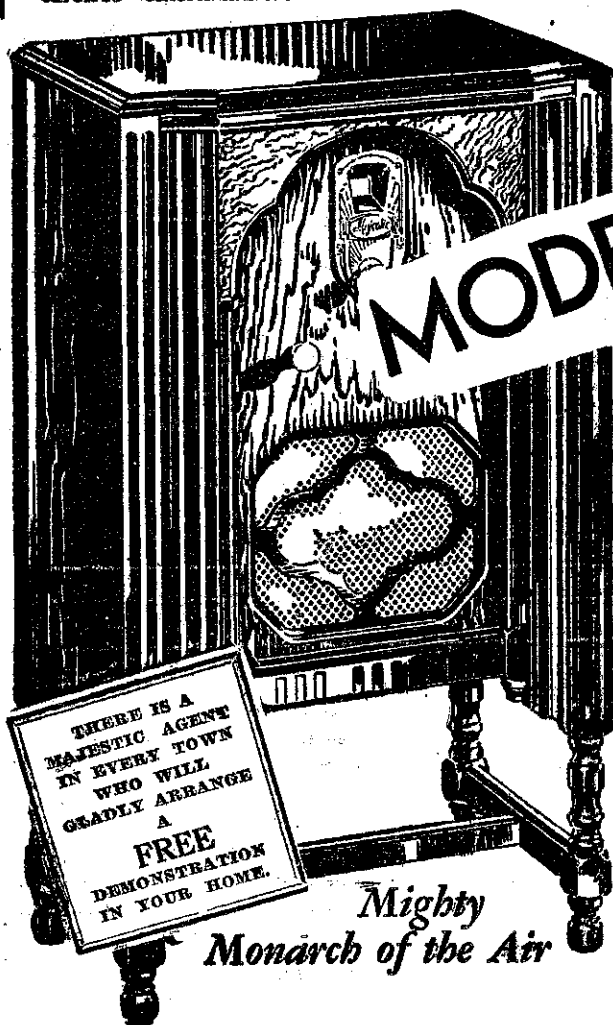
ability of the set was demonstrated by 3YA during the test on Monday evening when 2ME and 2XAF were conversing.

By the quick turn of the dial at the conclusion of the remarks by each speaker the conversation from both stations was heard. Otherwise, two receiving sets would have had to be used and the reception by each, relayed to the station, superimposed on the broadcast from 3YA.

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lington, which would transmit to 2ME, the short wave station in Sydney.

The Roll Call

AFTER Mr. Harris had read from a newspaper for a minute in order that 2XAF might make adjustments in tuning, the American speakers were announced and the stations were invited to call the roll.

2XAF announced itself, then 2ME was called, then 2YA, and then 4YA (the Chicago announcer overlooked 1YA and 3YA).

"What time is it?" New York asked of Sydney, adding, "It is 7.34 a.m. on Tuesday, March 11, here; a delightful spring day. What season of the year is it there?"

2ME's reply was not heard.

"Hullo, 2YA! What time is it?"

"12.35 a.m. on Wednesday, March 12," replied 2YA.

"Mr. Ochs will now speak."

"That you, Commander Byrd?" said a new voice, neglecting in the excitement of the occasion to address the gentleman concerned by his new and full title, Rear-Admiral.

"Yes, sir," a strong voice replied.

"I recognise your voice perfectly," said Mr. Adolph Ochs, owner of the "New York Times."

"I am delighted to hear your voice," echoed Rear-Admiral Byrd, and further pleasantries followed.

"I want to tell you that I could hear everything you said in your broadcasts. You don't know how much the boys enjoyed them. It is simply great to hear your cheerful voice now."

Welcoming Rear-Admiral Byrd.

MR. OCHS went on to welcome Rear-Admiral Byrd back to civilisation from the Antarctic, and to congratulate him on the complete success of the enterprise. "You have taken a place among the immortals," said Mr. Ochs. "The 'New York Times' had confidence that you would do what you undertook. In Russell Owen's story we had the greatest narrative of adventure in the history of journalism."

"You have to your credit the greatest success in broadcasting, operating over 10,000 miles. A royal welcome awaits you and your crew. When we think of the preparations and arrangements made and the dangers, perils, and hardships undergone, and when we think of your safe return with the enterprise fully accomplished, our wonder never ceases, and our admiration knows no bounds. Admiral Richard Evelyn Byrd is a national hero. You appear among those whose voice has been heard over half the globe. You are hearing to-morrow to-day."

Admiral Byrd: I heard every word, and am entirely overwhelmed. We realise what your support meant and all the things that were done to make the expedition possible.

Mr. Ochs: I want to say that you showed that Dicky Byrd is the greatest flyer.

Conversation then began with Mr. Russell Owen, Mr. Ochs saying he was delighted to hear his voice again, and was proud to know that he was associated with the "New York Times."

"We on the 'New York Times' want to say how glad we are that you are back safe and sound," said Mr. Ochs. "I hear you have lost 40lb. of flesh. How are you feeling?"

"I am feeling well," was the reply. "I only lost 20lb., and with the New Zealand milk they are feeding me on, I will rapidly get the weight back again." "You don't know how glad I

am to hear you, Mr. Ochs," was Mr. Owen's next remark.

Mr. Arthur Sulzberger, vice-president of the "New York Times," spoke to Mr. Owen, and also stated that the day was Mr. Ochs's birthday.

"I am tickled to death to be able to send congratulations in this way," said Rear-Admiral Byrd to Mr. Ochs, and he emphasised that every man in the expedition also joined in sending congratulations.

Mr. Ochs: Listen, Dick. This is, I think, the biggest hook-up and party line ever attempted.

Rear-Admiral Byrd: Is that so?

Mr. Ochs: It is almost overwhelming to hear your voice and to think that you have passed over the North Pole and the South Pole, and with your men have accomplished the great tasks and came through safe when ice threatened.

Band Concert Relays

Listeners will be interested to know that band concert relays from various Wellington theatres will commence on Sunday, April 6, with a recital by the Wellington Tramways Band. The Port Nicholson Silver Band will present a further concert on April 13, and on each succeeding Sunday evening throughout the winter, with the exception of Easter Sunday, further concerts will be presented.

you at Little America. We are pleased that you are now among friends.

Admiral Byrd: I heard that fine. What has been said to-night has so overwhelmed me that I am lost for words. We feel we don't deserve all you say, but we are human enough to like it all the same. We do not realise you felt like that up there, and we like to know it. We can thank you adequately when we get back.

Mr. Mark C. Rice, of the General Electric Company: "Good morning, Admiral Byrd." And he proceeded to extend a welcome and his congratulations.

"Thank you very much," said Admiral Byrd. "You cannot imagine what your broadcasts meant to us on the ice."

Mr. Russell Owen: It's nice to hear your voice again.

Mr. Rice said more people were listening-in to the broadcast than had ever listened-in before.

Mr. Ochs came to the microphone again and discoursed about the prosperity in U.S.A.

"I am pleased to hear that," said Admiral Byrd.

Mr. Emanuel Cohen, of the Paramount News Reel, familiarly addressed as "Mammy," was the next speaker, and then Admiral Byrd's private secretary, Mr. C. Lofgren, spoke.

At this stage it was intimated by 2XAF that atmospheric conditions were getting bad, and it would be desirable to close down. All stations then "signed off" and the world-wide broadcast was at an end.

N.Z. Stations keep on the Air.

NEW Zealand stations, however, kept on the air to hear Mr. H. L. Tapley, C.M.G., New Zealand agent for the expedition. He said that he was glad to have the opportunity of speaking on the occasion of the safe arrival from the South Pole of Rear-Admiral Byrd and his party. It was a great pleasure in-

deed to the citizens of New Zealand that Admiral Byrd had brought back from the ice every member of his party. They endured great hardship, and had achieved all that they had set out to do. On behalf of the people of New Zealand, he congratulated Admiral Byrd on his achievement.

"Admiral Byrd," continued Mr. Tapley, "if he had time, would like to visit every part of New Zealand, before going home, but that, of course, is impossible. He hopes he may be privileged some day later to return to New Zealand and visit the different centres. Listeners will feel that Admiral Byrd is to be congratulated most heartily on his great achievement, and the people of New Zealand will be glad in the knowledge that all the party are well, though looking somewhat thin owing to the food conditions. The Admiral, though somewhat tired, is looking well and is grateful to you for listening to him, and is pleased to have the opportunity of talking. I will try to get him to say a few words to you."

Admiral Byrd was then introduced to listeners.

"People of New Zealand," said he, "I am all taken by surprise. It was not on the programme that I should give a speech. I came down to talk to New York. But I want to congratulate most heartily this station on the wonderful thing they have done in making a world's record in communication. I appreciate the chance of speaking because the invitation came from my friend, Mr. Tapley, our representative in New Zealand.

"My own people could not have done better, or have worked more efficiently than he has done, and I must say he has treated us very well. When we came to New Zealand we did not anticipate receiving so much kindness from any people, and naturally my shipmates and myself find it impossible to express adequately our appreciation."

The New Zealand Government and the people of New Zealand, continued the Admiral, had contributed to the success of the expedition. He would say to the listeners in Australia that the present expedition of Sir Douglas Mawson, who was a very great man and a great explorer, would bring great results and would benefit Australia and the world as a whole.

"I have the honour of calling him my friend," said Admiral Byrd. "It is the same with Sir Hubert Wilkins."

"We carried the flag of New Zealand on our Polar flight," said the Admiral, "and flew the New Zealand flag when we sailed up the Otago harbour. Once every year when the expedition meets in New York we are going to fly the flag as a mark of appreciation for New Zealand's wonderful hospitality. Good night."

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"STORIES AND SONGS FROM OPERAS"

Fine Programme arranged for 3YA

A SPECIAL programme is to be presented on Wednesday evening, March 26, at 3YA, by Mr. W. H. Dixon, professor of singing, when he will describe the operas "Faust," "Carmen," and "Tannhauser." Mr. Dixon will be well remembered by 3YA listeners for the manner in which he described various operas, notably "Rigoletto," "Carmen," "Tristan and Isolde," last year, when gramophone recordings were used for the production of the vocal and instrumental music of the operas. On this occasion he has entitled his programme "Songs and Stories from Operas," and some of the leading vocalists from his studio will assist him in the renditions of the vocal excerpts which will support the descriptive matter by Mr. Dixon. The singers will be Miss Gladys Brooks, Miss G. Eaton, Miss Hilda Hutt, Miss Gladys Ferguson and Mr. R. Laurensen. Selections by the Studio Octet, under Mr. Harold Beck, will intersperse the operatic sections of the programme.

Press Comment.

COMMENTING on the achievement, the Dunedin "Evening Star" states: "The Byrd broadcast is described as epoch-making. Never before, it is claimed, have so many stations been linked together, and never before have America, Australia and New Zealand co-operated so successfully. It was a record-breaking performance for the countries of the Pacific, and one that places New Zealand on the map so far as wireless achievements are concerned.

Officials of the General Electric Company in America stated that reception there was better than it had ever been previously and Rear-Admiral Byrd and his party were equally enthusiastic.

A Christchurch Daily.

THE following telegram was despatched this morning by Mr. A. R. Harris (general manager of the Radio Broadcasting Company) to Mr. G. McNamara (secretary of the Post and Telegraph Department, Wellington):—"Heartiest thanks for your splendid co-operation in making possible last night's successful broadcast of a two-way conversation between Rear-Admiral Byrd and other members of the expedition, speaking from 4YA, Dunedin, through 2YA, Wellington, to friends in America."

Mr. Harris told a reporter this morning that the Dunedin station is not powerful enough to be rebroadcast by Sydney and it was necessary to provide a land line and submarine cable to Wellington to enable the more powerful station in that city to broadcast to Sydney, where voices were picked up and rebroadcast to America. Other lines were also provided by the department from Wellington to Auckland, Wellington to Christchurch, and Christchurch to Dunedin for arranging and checking details, and in case one locality offered better reception than others in respect to short wave signals from 2XAF Schneckady. He also expressed appreciation of the action of Mr. Fisk and his staff, of Amalgamated Wireless, Sydney, in arranging for 2ME, Sydney, to re-broadcast voices from New Zealand.

The work of the Broadcasting Company's staffs in the four centres was greatly appreciated also. Every member of the staffs had worked unsparingly, and it was their enthusiasm that made the unique broadcast the success it was.

Record-making Relays

Recent Great Achievements

IN the recent relays in connection with the Byrd Expedition and the Sarron-Donovan boxing match at New Plymouth, the Broadcasting Company set a record for the total mileage of relay lines used and for the longest relay carried out.

The linking-up of the various stations involved the use of the following lines: Auckland to Wellington . . . 419 miles
Wellington to New Plymouth 234 miles
Wellington to Christchurch 242 miles
Christchurch to Dunedin . . 248 miles

The longest individual relay was between Dunedin and Auckland, a distance of 909 miles. When the boxing match at New Plymouth was relayed to Auckland, the line in use was 653 miles long.

In every instance the Post and Telegraph Department supplied excellent lines, the telegraph engineers going to no end of trouble to ensure as perfect transmission as possible.

W.E.A. Lectures and Discussions

Interesting Series of Broadcasts

COMMENCING on Thursday, March 20, an interesting series of lectures and discussions was inaugurated at 1YA by Dr. I. L. G. Sutherland, Director of the W.E.A.

The discussions are a new departure. In these, two speakers discuss the pros and cons of a question.

The schedule of lectures and discussions is as follows:—

- March 20: W.E.A. Lecturette—Dr. I. L. G. Sutherland, Director W.E.A., "Education on the Air."
- April 10: W.E.A. Lecturette—Professor W. H. Gould, Professor of Education, Victoria College, "The Child in America."
- April 24: W.E.A. Lecturette—Mr. A. D. Monro, M.Sc., Lecturer in Chemistry, Victoria College, "What is Chemical Analysis?"
- May 3: W.E.A. Discussion—Mr. F. G. Maskell, B.A., M.Sc., and Mr. A. E. Campbell, M.A., of Victoria College, "Heredity versus Environment in Human Affairs."
- May 17: W.E.A. Lecturette—Mr. H. G. Miller, M.A., Victoria College, "A Forgotten Humorist."
- May 31: W.E.A. Lecturette—Professor T. A. Hunter, Victoria College, "Training the Emotions of Children."
- June 14: W.E.A. Discussion—Professor W. H. Gould and Mr. F. L. Combs, M.A., "Utility versus Culture in Education."
- June 28: W.E.A. Lecturette—Mr. J. R. Elliott, B.A., Lecturer in Classics, Victoria College, "The Roman Occupation of Britain."
- July 12: W.E.A. Lecturette—Professor B. E. Murphy, Professor of Economics, Victoria College, "The Economics of Fashion."

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See

"TRIALS IN TACT"

(On page 27 of this issue.)

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Wavemaster 24 to 1 Vernier 3/6 each
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Ormond SW. Vernier—

Special type 7/9 each

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—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

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

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

Advertisers are asked to note that alterations of advertisements should be in hand Friday of each week for insertion in the succeeding issue, printed Tuesday, bearing Friday's date. No responsibility is accepted for blocks remaining unclaimed three months after each insertion.

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

WELLINGTON, FRIDAY, MARCH 21, 1930.

THE BYRD BROADCAST.

BY the magnificent performance of enabling the whole of the listeners in the Dominion, wherever they were situated, to listen in to the two-way telephonic conversation conducted between Rear-Admiral Byrd in Dunedin and Mr. Adolph Ochs and a number of other prominent associates in New York, a remarkable service was rendered by the Radio Broadcasting Company. Not only was it possible for New Zealand listeners to share in this marvel, but a total of listeners that can only be computed by millions in the United States, Canada, Australia and Europe also had the pleasure of sharing in the marvellousness of the feat. A full account, which we give elsewhere, explains in detail the routine of the technical procedure necessary for its accomplishment. The clarity of the results secured was a tribute to all who rendered technical assistance. These include the Post and Telegraph Department of the Dominion, to whose efforts in providing fault-free land-lines between 4YA and 2YA and other stations the highest praise must be given. That was the essential element of success. The staffs of the New Zealand stations were all on their mettle to make the event fully successful. To 2ME, Sydney, the technical station of Amalgamated Wireless, Limited, the highest praise must also be given as an essential link in the chain of distribution. The delight experienced in New York by the success of the conversation was manifest. No less so was the thrill afforded Admiral Byrd and his party in the studio in Dunedin in thus dramatically making telephonic contact with their friends in America, men with whom they were associated in the closest degree in their venture, and to whose backing and support the successful results secured were so largely due. The event has made a definite impression upon the public mind in New Zealand, and for several days after its occurrence was the one topic of conversation. The absolute marvel of it dominated all thoughts. With the speed of light the voice from Dunedin was carried direct to New York, and almost before the last word was uttered, reply came back. This accomplishment marks at once the tremendous advance made in the technical field in the last few years, and can be taken as an augury for even more out-

standing events in the future. Recently listeners were afforded the opportunity of hearing the opening of the Naval Conference and the speeches attending thereupon. That was a remarkable event, but was not quite so dramatic or so outstandingly successful from the technical point of view as was that just staged.

Reports Speak Well of 2YA

Reception in New South Wales Satisfactory

THE recent two-way conversations between 2YA and 2XAF, New York, per medium of the Sydney short-wave station 2ME have brought forth many reports from Australian listeners.

Although 2ME reported that the reception of 2YA was not good, being marred probably by local interference, the conditions for reception in other places seem to have been excellent.

The following excerpts are taken from a few of the letters received:—

Roseville, Sydney.—The transmission was very clear and modulation good, while the volume was sufficient to operate a cone speaker. The night was particularly good for reception, there being no static interference, etc. This is the best reception I have had from 2YA within the last three months.

Caulfield, Victoria.—I switched on to you about 9.15, when you began calling 2ME. You came in quite loud and very clear. In fact, I could hear you quite clearly and loudly all over the house.

Manly, Sydney.—On the whole the reception was 90 per cent. clear and loud enough to be heard 100ft. from the loud-speaker; quite small sounds at your end, such as a needle on a record, coughs, asides, and other usual sounds, were clearly heard. In fact, the announcer might have been in the room talking over a telephone here, everything was so plain, except for fading in the early stages for periods of from one to two minutes. In the last portion we could hold you loudly all the time and during the last 20 minutes was clearer and louder than the local station.

Katoomba, N.S.W.—We listened to you last night between 8.25 and 10.15 p.m. (Sydney time) and every word was clear. At times Adelaide overpowered you and we heard more of them than of you. Generally speaking the reception was as clear as we normally get Sydney. We noticed you were calling and conversing with 2ME, but we could not hear 2ME or 2XAF reply, although I dialed to different stations. Evidently 2ME was not getting you too satisfactorily at times.

West Maitland, N.S.W.—I have been listening to your test with 2ME Sydney. It is the most remarkable reception I have had, and you are to be congratulated on it. Quite the best volume I have had from the set. Our station will not deliver the same amount of volume. It was well above bad static, and can only be heard on the one spot. There is no distortion and you did not fade during the conversation. Accept sincere congratulations. It is a vast improvement on previous reception from you.

Lithgow, N.S.W.—Everything came over very clearly with ample volume; in fact, I had to cut it down. The voice of the speaker was natural and with full power on was much louder than the normal voice. When cut down it was exactly as if the speaker were in the room talking to me. There was a very little fading at long intervals and then not enough to interfere with the transmission. There was occasionally a little distortion.

Lindfield, N.S.W.—You will no doubt be pleased to hear that your transmission came over the air perfectly distinct and clear.

A Night at Sea

"Outward Bound"

Nautical Programme at Feature Broadcast by 1YA
4YA

The central figure in a programme which has been arranged for presentation at 4YA on Saturday, March 29, will be Mr. A. Ellis, the veteran survivor of the wreck of the ship "Surat" on December 31, 1873. Mr. Ellis will give an account of the voyage of the ill-fated ship up to the time she piled up on the coast near the spot where the "Manuka" became a total wreck a few months ago.

Listeners can anticipate a very interesting description of life at sea, made all the more realistic by a concert programme of sea shanties, etc. The performers will be Mr. H. Magon, Miss Muriel Ribby, Miss Bertha Rawlinson, Mr. Carroll, Mr. Bruce Gladwin, Mr. Bert Proctor, Mr. Bert Rawlinson, and Mr. Les. Ireland. There will be numerous vocal solos and choruses, with violin solos, etc.

SUTTON VANE'S three-act play "Outward Bound" will be presented by the Auckland Little Theatre Society, at 1YA on Tuesday, March 25. It will occupy the whole of the evening. This play was such a success when performed at this studio last March that, in response to many requests, the repetition has been arranged. The whole of the production will be under the direction of Mr. Kenneth Brampton.

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Brilliant Artist Broadcasts

Miss Edith Harry to make New Zealand Tour

LISTENERS throughout New Zealand are to be accorded something special. Miss Edith Harry, who delighted vast audiences last year, is to reappear at 1YA, Friday, March 28, and will subsequently broadcast from the four centres.

Miss Harry, who comes from Sydney, is an eminent Welsh composer, pianiste and singer. She will sing six of her own songs, and will play as pianoforte solos, three numbers by Chopin, and one by Rachmaninoff. She has a charming manner at the piano and as a singer plays her own accompaniments.

MISS HARRY had a distinguished career at the Guildhall School of Music, London, where she studied piano, singing, chamber music, ensemble playing, harmony, composition and opera under Sir Landon Ronald, Hamish McCunn, Hubert Bath, Edward German, Liza Lehmann, Coleridge Taylor and others. Miss Harry has made many celebrity tours in the Homeland, and has appeared in company with such artists as Robert Radford and Peter Dawson, who sing her songs.

The English Press has, on many occasions paid tribute to her soprano voice and to her ability as solo pianiste and accompaniste.

AS a composer she has written delightful words and music for four books of children's songs. The charm of her personality makes itself fully felt in her own accompaniment. The songs are built up on the little happenings of everyday life, and owe their conception to the bedtime song hour which she holds every evening with her two little daughters. (In private life Miss Harry is Mrs. William C. Beckx Daly.) One of these songs, "Mary Magdalene," is to be sung by Miss Harry at 1YA. Another of her own composition to be presented will be "Roses for the King."

Also appearing on the vocal side of the programme at 1YA will be Mr. Roy Dörner, tenor, a member of the popular combination, the New Zealand Four. He will sing, "I Will not Grieve," "She is Far from the Land" and "I Know of Two Bright Eyes."

The Studio Trio has arranged a programme comprising some delightful numbers, and Miss Ina Bosworth, violiniste, has included one of Miss Harry's numbers, "Reverie" as one of her items.

Personal

MR. C. DRUMMOND.

MR. C. A. DRUMMOND, announcer of 2YA, will leave for his annual vacation on Monday, March 17. Mr. J. Ball, editor-announcer, will relieve him at the microphone. Mr. Drummond will be absent for about a fortnight.

Founders of Otago to Broadcast through 4YA

Eighty-second Anniversary Celebrated Next Month

THE 82nd anniversary of Otago is approaching, and, the usual annual celebrations are in hand. As the actual anniversary falls this year on Sunday, the Otago Early Settlers' Association will hold, on the afternoon of Monday, March 24, a meeting and concert programme for the early settlers, which all the available pioneers of early years will attend. In the evening there will be the usual concert.

Listeners will recollect the interesting programme that was provided by some of the early settlers on Pioneers' Night (December 21), when several of the earliest settlers provided some interesting reminiscences of pioneer days. Dunedin is fortunate in having such an organisation as the Otago Early Settlers' Association, with its wonderfully interesting museum, containing so much of historical value.

Sir Charles Fergusson, the late Governor-General, never failed to visit the Museum when in Dunedin, and members probably will have read the reference he made to our Early Settlers in his farewell speech. In that speech he said:

"What are those fundamentals? I suggest that we could best learn them by spending an hour or so in the Early Settlers' Museum. Look at the photographs of those men and women of the early days, and see how character is stamped on their faces; read the history of what they went through, and how they strug-

gled and fought and won through sheer determination. Go through the churches and look at the memorials, or go through the graveyards and read the inscriptions on the stones, to see what manner of men and women they were. Then sit down and think whether we cannot learn the fundamental lessons from those people to pass on to our children."

This is what visitors think of the Otago Early Settlers' Association, and early settlers are proud to have their names entered on the membership roll.

Radio Plays its Part.

THE programmes on Monday to be broadcast by 4YA will be of great interest to those early settlers who are in Central Otago and other centres of the Dominion. They will hear some of their friends of the pioneer days speaking, and will be able to listen to some of the old songs which they love so well.

These songs are to be presented during the evening between the speeches of welcome and congratulation. The entire proceedings will be broadcast by 4YA. It will be the endeavour of Mr. W. Paterson, the popular and well respected secretary of the Early Settlers' Association, to get as many old identities as possible to speak through the microphone. This should create a deal of interest especially amongst the younger generation.

Broadcast to School Children

Co-operation of Education Authorities

ARRANGEMENTS are in hand to assure the fullest co-operation between the education authorities and radio dealers throughout the Dominion, in connection with the broadcast of Admiral Byrd's address to school children from 4YA on Tuesday afternoon next. Yesterday a deputation of radio dealers, representing the Electrical Federation of the Dominion (radio section), together with the station director of 2YA, waited on Mr. Bell, Assistant Director of Education, in order to secure departmental co-operation. As a result, the fullest endorsement was received, and telegrams have been sent from the department to Education Boards throughout the Dominion requesting them to afford fullest possible facilities for enabling the school children to enjoy this historic talk. Organisation is also in train between the Dealers' Federation and its various branches throughout the Dominion to facilitate the closest possible link-up in connection with equipping of schools for radio reception. In Wellington two

Phillipoff at 3YA

Russian Balalaika Exponent

SIMON PHILLIPOFF and his balalaika, who have been travelling round the world together for the last seven or eight years since they left Ukraine, are now in Christchurch. They appeared on 3YA's programmes the last two Saturday evenings. Phillipoff is an adept with the balalaika, the Russian national musical instrument. Two of its three strings are tuned to "E" and the other to "A." It requires very great skill to extract from it the music that Phillipoff does. He provides a very interesting and entertaining turn.

special extra venues for reception are to be provided. His Worship the Mayor, Mr. G. A. Troup, has authorised the opening of the Town Hall for the occasion, and loud-speakers will be installed. Mr. T. Colman, chairman of directors of Kilbirnie Stadium, has also agreed to throw open the Kilbirnie Stadium and to the use of its loud-speaker system for the occasion.

Before a Vast Audience

Sarron and Donovan Contest Honours

STAGED in a magnificent amphitheatre, before the biggest audience that has witnessed a boxing contest in New Zealand, and through radio before an invisible audience of 30,000 or 40,000 enthusiasts, Sarron and Donovan contested honours Saturday last. It was a wise motive that actuated the Broadcasting Company to secure the broadcast of this contest and consideration and forethought on the part of the Taranaki Boxing Association to allow the broadcast.

A landline connected Western Park, New Plymouth, with the local station, 2YB, and 2YA, both stations broadcasting the description. At approximately 3.40 the relay was commenced, and from the outset it was apparent that success was forthcoming. The line was good, though the applause from the crowd made a difficult background for the announcements. The announcer, Mr. Aldridge, was announced and commenced the great relay by an account of the panorama. His vivid descriptions enabled listeners to fully grasp the atmosphere of this unusual event. Immediately prior to the description of the contest the announcer outlined the careers of the two contestants.

"There is a feeling of great expectation," said Mr. Aldridge, "hence the talking and whispering near the microphone."

Listeners heard the announcement of the referee. "On my right—" and all who were waiting in deep silence knew that the fight was soon to commence and that the hope of New Zealand sports was to be decided.

The announcer's description of each bout was an excellent one, his concise and crisp sentences leaving little to the imagination of even those who know nothing of the technicalities of boxing.

Until the seventh round, honours appeared to be fairly even, with perhaps a slight advantage in favour of Donovan. At the commencement of the seventh, however, Sarron put the New Zealander down for the count of two, and then twice for seven. From the announcer's description Donovan was "out on his feet" when he arose after being down the third time.

Suddenly there came a deafening roar from the crowd, and the pause before the announcer spoke again seemed interminable. The unexpected had happened. Donovan had won on a foul, Sarron delivering a rabbit punch which, though probably unintentional, yet was sufficient to secure his disqualification.

IT was announced at the conclusion of the broadcast that the Wellington Boxing Association is endeavouring to arrange a return match, to be fought at the Kilbirnie Speedways Stadium, Wellington. Though it is certain that the majority of those in Wellington who heard the exciting description of Saturday's fight will attend in person the next meeting between these two boxers, yet it is to be hoped for the benefit of other listeners throughout New Zealand that permission to broadcast a running commentary on the return match, should it eventuate, will be given.

Broadcasting of Rugby Football Matches

Listeners Await Decision of Delegates

TEST it should be permitted to broadcast Rugby Test matches was the tenor of an application to the management committee of the New Zealand Rugby Union by the Radio Broadcasting Co.

"The recently expressed decision of the Union," wrote the general manager (Mr. A. R. Harris), "was based on the probable loss which it is feared the provincial unions will suffer at their local matches on the days when the big matches are broadcast. In this respect, however, the prospect of any decrease in the takings would be more than balanced by the indirect gain from the wide publicity which the Rugby game would receive."

"If the games with the English team be not available, we must look elsewhere, but in view of the interest which will be taken in the Tests and other matches progress reports as complete as possible will have to be broadcast with the minimum of delay. In doing this we will only be carrying out the duty which we consider we owe to our listeners."

The Hawke's Bay Radio Society also wrote asking the union to reconsider their decision to disallow the broadcasting of Saturday matches and particularly of the Test matches.

Mr. Dean said he saw no objection to the broadcasting of Wednesday matches but the Broadcasting Company did not seem very keen to report these mid-week matches, as to do so would mean expense in arranging for relays. He would like to know what the Radio Broadcasting Company would be prepared to pay for the right to broadcast reports of the games played by the British team in the Dominion.

Mr. H. H. Sterling said that on broad lines he was in favour of reports of Rugby matches being broadcast in the Dominion. The New Zealand Union was the custodian of the game in the Dominion and they had to view the subject on broad lines.

Mr. Dean pointed out that the New Zealand Union had already agreed that reports of the matches played by the British team should not be broadcast.

Mr. Sterling: I thought we were having a general discussion on the subject. If I am out of order, so is everybody else.

On the motion of Mr. S. S. Dean it was agreed that the matter should be brought up in general business at the annual meeting of delegates of the New Zealand Rugby Union.

IT IS an open secret that the decision of the New Zealand Rugby Union not to permit the broadcasting of matches played by the British team on Saturdays has occasioned a good deal of comment and dissatisfaction in sporting circles. A further discussion upon the question of broadcasting Rugby matches occurred at the annual meeting of the Wellington Rugby Union, held last week.

The outcome was that a motion was passed conveying the recommendation to the incoming managing

entitled to earn, and that profit, it will be patent to any commercial man, is so limited as to entirely remove it from any charge of exploitation.

Few commercial men would be prepared to undertake the responsibility of administering a service of the nature of the Broadcasting Company, with its limitations and difficulties, for a return so moderate as 7½ per cent. It is therefore incorrect in our view to regard the company as a "commercial concern" with the objective only of profit-making. Rather is it to be regarded as a service organisation working, under direct responsibility from the Government, to give radio listeners the fullest possible service of news and entertainment under a limitation as to the profits to be derived.

WHEN the Racing authorities banned the broadcast of racing events, the suggestion was made that their attitude was dictated by the desire to extract a fee from the Broadcasting Company. At that time the principles actuating the Company were laid down by Mr. A. R. Harris. Those principles in our view are entirely sound. Mr. Harris pointed out that the funds pro-

Weather Reports

The broadcasting of the mid-day weather reports ceased on March 15, the last day of Summer Time. In co-operation with Dr. Kidson, of the Meteorological Department, who prepared the special weather forecasts, these broadcasts were for the benefit of the farmers of Canterbury engaged in harvesting. The weather reports, which were thus broadcast, proved of great value.

The Press derives a profit from the news service it renders, and there is no limit upon the profit which the Press, by good management and full organisation, is entitled to secure from its public.

BROADCASTING renders the same service, but its profit is limited. We think it will be recognised by the public who support football that it is wholly unfair to ask the Broadcasting Company, as a service organisation, to pay a fee for the right to broadcast football matches.

Such a practice is quite impossible, having regard to the need for conserving the money of listeners. We feel sure that very strong protests indeed will be directed towards the football authorities upon their attitude. After all, it is the public which support football and other sports, and the public has its rights.

Particularly has the incapacitated public its rights. In the effort to drive the fullest possible number of able-bodied sports to swell the gate-money, little regard is being given to those old-time sports who are no longer able to attend either through illness or age, to those in the country who, in their day, gave of their best, and to those in other centres who like to listen to the fortunes of war in their home town.

The wisest remark made in the course of the discussion was that by Mr. Martin Smith when he warned his colleagues that there was a double edge to the question, and that they needed to be careful of the way in which they trod. That is quite right. There are alternatives to broadcasting Rugby football, and having regard to the proved value of broadcasting publicity, those alternatives, if developed, might have far-reaching results.

So far as the Test matches are concerned, every footballer throughout the Dominion will be interested in the result. If the object of the tour is to encourage football what better way of doing it is there than allowing every footballer to either see it or hear it. As it is impossible for all to see it, why not suspend all matches on Test days and allow all footballers to follow the radio description and learn what they can of the relative tactics of the contest. In this way radio would be made to serve the prime object of the tour, namely promotion of interest in Rugby football and improvement of the standard of play?

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THE LYRIC MALE VOICE QUARTET.

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—S. P. Andrew.

committee that the broadcasting of matches should not be permitted unless the Broadcasting Company was prepared to pay a fee for the privilege.

This attitude is apparently based upon the statement made by Mr. J. Prendeville that "the broadcasting people are a commercial concern out to get dividends and profits." This statement is not wholly correct, and to that extent gives a wrong view of the situation.

WHILE it is true that the Broadcasting Company is organised as a commercial company, it is not "out to get dividends and profits."

The dividend or profit which it can earn is limited by its arrangement with the Government to 7½ per cent. upon the capital employed.

There can, therefore, be no question as to the Broadcasting Company utilising its revenue for the building up of undue profits. It has not always been able to earn even the profit it is

vided by listeners were fully taxed in providing upkeep and the running expenses of the five stations maintained by the Company, and in meeting the necessary costs in relation to musical programmes, artists' fees, etc. Having regard to the extensive nature of the sports, popular in the Dominion, of the service rendered them by their events and results being broadcast, it was not found possible in principle or practice to contemplate a payment of a fee for the service.

Newspapers are not asked to pay the football authorities, the racing authorities, the swimming authorities, tennis enthusiasts, golf enthusiasts, basket-ball devotees, or cricket teams, fees for the privilege of reporting their performances.

The Press is recognised as rendering a service to those organisations by giving them the publicity upon which they live. Broadcasting in its turn is a publicity medium, for it renders the same service. Why should it be placed in a different category?

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Dance Music.

THE March dance records issued by H.M.V. are well up to standard, and some of the world-famous orchestras contribute striking and tuneful orchestrations of a number of popular melodies of the day. The following are perhaps outstanding:—"Mucking About the Garden" (fox-trot), and "Let Me Dream in Your Arms Again" (waltz), played by Jack Hylton and his orchestra (B5696); "On the Alamo" (fox-trot), and "Me Queres" (Do You Love Me) (fox-trot), played by Rudy Vallee and his orchestra (EA620); "The Album of My Dreams" (fox-trot), and "Perhaps" (fox-trot), played by Rudy Vallee and his orchestra (EA 629); "Hittin' the Ceiling" (fox-trot), and "Sing a Little Love Song" (fox-trot), from "Broadway," played by Nat Shilkret and his orchestra (B5662). In each case there is a vocal refrain.

Gladys Moncrieff.

GLADYS MONCRIEFF, Australia's favourite musical comedy actress of the golden voice has revived for us memories of the good old "Maid of the Mountains." It is some fourteen years since this great comedy was first staged in London, where it ran for over a thousand performances, and was again revived about five years back. Miss Moncrieff shows two of the best-known favourites in "Love Will Find a Way" and "Villia," and she sings them with her usual fervour and skill. (Columbia 101,784.)

Wagner Played by Band.

DESPITE the difficulties attendant upon recording music of the character of the overture to "The Flying Dutchman," the Zonophone Company have made a surprisingly good job of it. The overture is played by the National Military Band, which enters with much zest into Wagner's tempestuous music, though they are just as earnest, if with a different objective, when the calm is reached. The woodwind is beautifully tender in the apotheosis on the redemption motif.

Colourful Music.

THE Philadelphia Symphony Orchestra, directed by its illustrious conductor, Leopold Stokowski, has recorded two items from Bizet's "Carmen." All the recordings by this wonderful orchestra are so splendid that no matter what it plays the performance is sure to be of outstanding merit. In the "Soldiers Changing Guard," a little episode from the first act, the trumpet has come out with exceptional brilliance and realism, the echo of the hall in which the recording has been done being clearly heard. The "March of the Smugglers" is from the beginning of the third act and precedes the card scene. As ever, the precision of attack and discipline of the members of the orchestra are superb. (H.M.V. D1618.)

Galli-Curci.

AMELITA GALLI-CURCI has recorded by the electrical process Bishop's "Home, Sweet Home." On the reverse side is Moore's "Last Rose

of Summer," which is sung in the second act of Flotow's opera, "Martha." As in the past, her husband, Homer Samuels, accompanies her on the piano. On another 10-inch record Amelita Galli-Curci sings two duets from Verdi's "Rigoletto," with the late Giuseppe de Luca, accompanied by the Metropolitan Opera House Orchestra, conducted by Giuseppe Setti. The first "Ah Veglia o donna," in which Rigoletto takes leave of his daughter, is from the second act. Both voices blend very well indeed, and de Luca sings his part with great precision. "Piangi fanciulla" is from the third act. (H.M.V., DA1011 and 1028.)

Brilliant Orchestra Recordings.

THE Berlin Philharmonic Orchestra has certain qualities of brilliant ensemble and superb unanimity which thrill any hearer. It is undeniable that to hear a great orchestra, which is so perfectly drilled that it becomes virtually a vast single instrument, is one of the most thrilling things a music lover can experience. In the new recording of "Tannhauser" and "The Damnation of Faust" the fine qualities of the orchestra's performance are marvellously reproduced with full and satisfying volume. The subject-matter needs no introduction, for both pieces are famous to a very wide public. The "Hungarian March" is, of course, a setting of the old Rackozki March tune, which in its time must have led thousands of Magyars into battle.

"Nut-Cracker" Suite.

NOTHING could be more delightful than the three records of Tchaikowsky's Casse Noisette (Nut Crackers) Suite, played by the Philadelphia Symphony Orchestra, under Leopold Stokowski. The suite includes an "overture miniature," a little gem of tunefulness which can be best described by the name which the composer gives it; a march of wonderful rhythm and vigour, the "danse de la fee drgee"—dance of the sugar plum fairy—in which Tchaikowsky experimented with the celeste which had only just been invented—a delicious composition in hearing which one can almost fancy that one sees the little fairy dancing upon the top of an iced cake; the Danse Russe-Trepak, Arabe, des Mirlitons and Chinoise, the last, although musical being excruciatingly funny, reminding one of the squealing of a Celestial who is pulled by his pigtail; and finally the exquisite Valse des Fleurs, with a melody as haunting as the famous Valse Trieste of Sibelius. (H.M.V., D1214-16.)

New Chopin Recordings

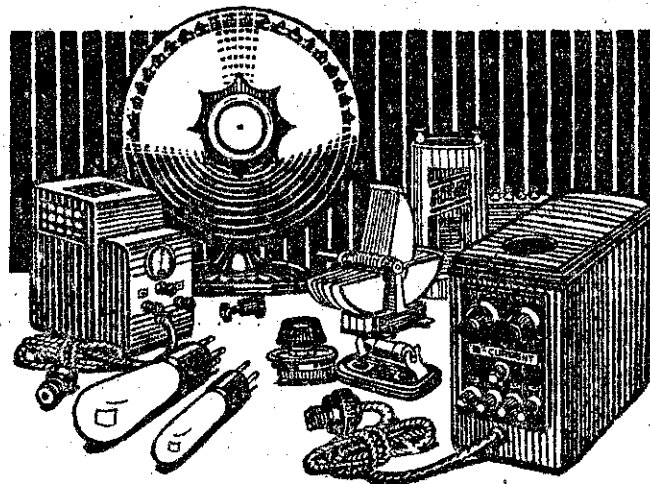
CHOPIN records have not been too plentiful of late, and a particularly warm welcome will be extended, therefore, to a first record by Jose Echaniz. Echaniz is a former pupil of the great Spanish composer, Albeniz, the most brilliant composer of modern Spain. Listeners will admire particularly his delicacy of touch and his happy understanding of Chopin's meanings.

He plays the Polonaise in E flat with the fury of a nation groaning under a foreign yoke; the angry coda bursts out with tempestuous ire in marked contrast to the almost submissive phrases of the second subject and its development. Echaniz keeps his tone

expressively varied with great skill. (Columbia 03639). Another Chopin record that will be greatly admired for entirely different qualities is the Etude in C Sharp Minor, from the Op. 25 group, played on a 10-inch disc by Miss Harriet Cohen. (Columbia 03636.)

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Identification Wanted

COULD anyone identify a foreign station heard at 10 p.m. on March 9, on about 430 metres (695 k.c.). Medium speaker volume. I think it was either a Chinese or a Japanese station. Someone was delivering a lecture.—T.S. (Palmerston North).

COULD any reader enlighten me of the foreign station testing on duplex (I say testing, I am not certain), on March 5? Wavelength, approx. 400 metres (750 k.c.), 65 on dials. Time of reception, 8.45-9 p.m. Strength R6. All I could decipher was the phrase "all right?" after each sentence. A 9 p.m. he vanished completely.—"Sonora" (Wellington).

AT 8.40 p.m. on March 5, I picked up a station at good loudspeaker strength on 420 metres (713 k.c.). The only words spoken were "Hullo, hullo, hullo!" and the station closed down at 9 o'clock.—F. H. Gear (Wanganui).

ON March 10 I picked up a station broadcasting in a language somewhat resembling Maori. The lecturer spoke at a very fast rate, and in a very excitable manner. We picked this station up at 7.50 p.m., and it closed down suddenly at 7.55 p.m. At one time a lady spoke in the same tongue. Wavelength, 441 metres (680 k.c.). The station came in at 67 on our dial.—C. Aplin (Waihou).

COULD any listener enlighten me, through the medium of your DX columns, as to the identity of a foreign station operating on 428 metres (700 kilo-cycles)? I heard the station on Sunday evening, March 9, after 2YA closed down. Speech was fairly slow, and sounded like Japanese. Volume on the speaker was excellent, being free from static and fading. After five minutes' speech the station suddenly went off the air, returning equally as suddenly, a few minutes later. I have not had any of the listed Japs anywhere near as loud as this stranger, and I should be pleased if any reader could inform me of his whereabouts.—"Majestic 7" (Hastings).

I WAS listening to the new B class station at Newcastle, N.S.W., on March 4, and received his call at 2HC—not 2HD. The latter call-sign already appears in the "Listeners' Guide" on wavelength of 288 metres (1040 k.c.). Has anyone received 4ZC Dunedin on about the same wavelength as 3DB? If so would they give me the wavelength and power?—A.E.T.W. (Havelock North).

WHAT station is transmitting on 445 metres (672 k.c.)? Speech came through at about R7, and was either Japanese or Chinese. I picked this up at about 7.10 p.m., and he finished abruptly at 8.5 p.m. without giving his call-sign. I see in your paper that a listener wanted to know the station that sounded like an aeroplane. It is

THE D.X. CLUB

Views and News.

2FC, Newcastle, and I get him exceptionally well here. I may also say that Perth is coming in very well, as well as several Americans, and as this is supposed to be a bad locality, I cannot complain of my reception. I am using a six-valve AC set.—D. R. Morgan (Te Kuiti).

[You have omitted date of reception. Also the station whose call you state to be 2FC, Newcastle, is probably 2HD, Newcastle, on 214 metres (1400 k.c.).—Ed.]

COULD any of your readers give me any information re station I picked up on March 10. I heard what sounded like "2BE, Hastings here," but I think this was a short-wave station. My set is a crystal and two-stage amplifier. Later I heard: "—Anyway, thanks very much for the call on the 'phone, James . . . about finances, James." The name "James" was mentioned a lot. I didn't hear them after 7.18 p.m., and fading was bad.—"Waikikamookau" (Auckland).

COULD any listener give me the whereabouts of the following station? On Sunday, 23rd, at 5.30 p.m., I picked up a station on 260 metres (1150 k.c.), playing "Should Auld Acquaintance Be Forgot." Following that speeches which lasted half an hour were made, and the station closed down, giving no announcement.—Universal Five (Ladbrooks).

Stations Identified

In reference to the inquiries by "Majestic" (Napier), and Mr. G. March (Rotorua), concerning the identity of a station on 1400 h.c. (214.2 metres). This station is 2HD, Newcastle, and it comes through here with great volume at all times. I logged this station on March 2 during a request programme. Also inquiry by "M.B.S." (Palmerston North) about a station heterodyning on 1YA's frequency. This is station KHJ, Los Angeles, wavelength 333 metres (900 k.c.). Also, the station of 1080 k.c. (278 metres) is WTAM, Cleveland, Ohio, on a power of 50,000 watts. Station KYW, Chicago, should be heard any night on their new 50 kilowatt station situated at Glen Ellyn, Illinois, which is 23 miles from Chicago. The old station (KFKX), situated in the Congress Hotel, is resuming the regular KYW programme until the big station is through testing and is ready to take

over the scheduled programmes.—S. Ellis (Okato).

"MAJESTIC" (Napier) asks for the station operating on 1400 k.c. This station is 2HD, Newcastle. He is frequently badly distorted and I understand he could eliminate the hum. Some days ago I had WGAM, Cleveland, Ohio, on 1075 k.c. (279 metres), volume exceptionally strong. Seven persons heard the announcement several times and all are positive the call was WGAM. Others say the station was WTAM. Can anyone confirm WGAM? I also picked up W2XAG testing on WGY's wavelength, 790 k.c. (380 metres). He was very loud. I spend little time "chasing" stations, but in less than a month I have logged 20 New Zealand, 14 Australian and nine American stations; total, 43 stations. I have also heard four Japanese and Perth not logged.—Majestic II. (Gisborne).

IN reply to M.B.S. (Palmerston North). The call of the American station on 333.1 metres (900 k.c.) is KHJ, Don Lee, Ind., Los Angeles, California. Power 1 k.w. They are on the air from 7 a.m. to 12 midnight, and the station belongs to the National Broadcasting Co. The station above KFVB is KSEI, 333 metres (900 k.c.) as I have heard the call distinctly. I could not catch his address.—Universal Five (Ladbrooks).

[Address is KSEI Broadcasting Association, Pocatello, Idaho.—Ed.]

DX Topics

ON March 3 I heard station WLWL, New York City, testing on 278 metres (1100 k.c.). They signed off at 7.45 p.m. Regarding the largest log. I received 371 identified stations and have 91 verifications. My best reception was of WWAB, Hammond, Indiana, power 100 watts (verified), wavelength 250 metres (1200 k.c.). The above reception is on four valves, and between 14 and 550 metres (21,430 and 540 k.c.), since June, 1928.—C. R. Elliott (Banks Peninsula).

I HAVE logged 12 more stations since I last wrote, when my total was 101 stations. This should have been just the century, as I included station KFB on 980 k.c. (306 metres), but I have heard it again and it is KFVD, Culver City. This station once broadcast on 700 k.c. (428 metres). My recent loggings are: Wairoa, Hawke's Bay, 1310 k.c. (229 metres), no call-sign allotted yet; 2ZE, Eketahuna; and 2HD, Newcastle, 1400 k.c., approximately (214 metres). Also the following Americans [here "Kauspanka" adds nine American stations, including KGER, Long Beach, California, 1370 k.c. (219 metres); and KGFQ, Oklahoma City, Oklahoma, 1370 k.c. (219 metres). These two stations are using

only 100 watts power.—Ed.] In answer to Mr. Dakers, my aerial is 120 feet long and 42 feet high, but the free end is only 20 feet from a tree, and I am shielded from every quarter except due north. My earth is an old tin chimney containing about ten square feet of tin. I have two sets, both four-valve Browning-Drakes, and both home constructed. I made the second this year from the "Listeners' Guide" and it is far better than the other on the high frequencies, as can be seen by looking at my recently-logged stations. I have only fifty stations verified, but 39 are American, with about twenty more on the way.—"Kauspanka" (Hawke's Bay).

"Calling-up" by Radio

A German Police Invention

A RADIO call signal which operates like a telephone call is now being used by the Berlin police to communicate with officials in their homes at any time of the night. Experiments have shown 98 per cent. of all calls arriving from a 200-volt transmitter 200 miles distant were received. The individual call-signals are composed of different arrangements of short and long dashes, each combination being characteristic of each signal.

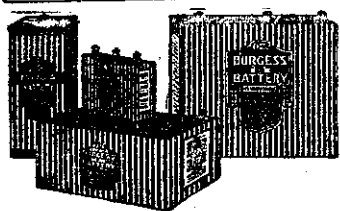
The receiver is tuned to the wavelength on which the call is expected, and while it receives all impulses on this wave, the calling-up device responds only to the signal for which it is adjusted. Provision also is made for overcoming disturbing impulses which might alter the signal. It appears as though the device could quite easily be adapted to enable broadcasting stations to acquaint listeners of special broadcasts or relays taking place outside regular broadcasting hours.

Wireless Echoes

Returning from Space

MOST listeners know that a radio signal can encircle the earth, but several months ago a Danish engineer, while listening to short-wave signals on a powerful receiving set, heard two echoes, one the ordinary echo of the signal circling the earth, and the other three seconds later. This led to experiments which revealed that echoes were heard at times varying from three to fifteen seconds after the original signal, the average time being eight seconds. As the speed of the electric wave is 186,000 miles a second, this suggested that an echo heard after eight seconds had travelled about 1,500,000 miles, or far beyond the moon.

The conclusion now reached is that the signals are reflected by swarms of electrons in space, the electrons issuing from the sun and being the cause of magnetic storms on the earth. On this basis, it would appear that there is no inseparable bar to sending short-wave wireless signals to other planets, if there were anyone there to receive them, and if they could be understood.



**BURGESS
RADIO
BATTERIES**

Dance Music.

WHY are the best items from the YA stations (dance music, etc.) given too late to be appreciated? When one has to arise at 6 o'clock every morning he cannot be up until 11 p.m. Couldn't some dance music be given about 7 p.m. to 9 p.m.? I'm sure this proposal would meet with general favour.—"Pro Bono Radio Co." (New Lynn).

Power Interference.

RE the power line interference at Eastbourne, the question seems to be: Can anything be done to cure interference by a high-tension power line? In this district over a wide band along the Coleridge main power line to the south decent radio reception is made impossible, and the radio inspector, after having the line inspected, reported to the effect that there were no defects to cause interference with wireless, but that interference was inevitable in proximity to the line. The consequence is that in this area the gramophone is fast taking the place of wireless, and dozens of licenses are lost.

As at Eastbourne, anyone going along the line on a damp evening sees a light at nearly every insulator, and a loud "frying" is heard. Practically all devices, such as low aerials, indoor aerials, counterpoises, and frame aerials have been tried, but the frying still gets there, and renders reception nearly impossible.—"Aerial" (Temuka).

Friday v. Thursday Programme.

CAN you explain why Wednesday is the silent night for Wellington when Friday would obviously be more suitable in every way? The majority of people in Wellington are on that night (Friday) either working at their places of business or taking advantage of the late night for shopping. Dozens of people have discussed this point with me. Another thing which has always puzzled me is why one of the best programmes is given on Friday, and certainly a very poor one usually, on Thursday. As a reader of your paper I shall watch with much interest for a reply to this letter.—"Radio Fan" (Kaiwarra).

Talking-Picture Broadcasts.

I READ with much amusement the letter of K. Swiney (Northland) in this week's "Record," in which he states his views on the broadcasting of "cheap and nasty forms of American music" in no uncertain terms. Perhaps he would like to stop the import of all such trash either in music, record or sound picture form, and stick to the good old stuff that made grandad happy. I, for one (and I am far from



Will correspondents please practice brevity, as heavy demands are now made on space. All letters must be signed and address given as proof of genuineness; noms de plume for publication are permitted. Address correspondence Editor, "Radio Record," P.O. Box 1032, Wellington.

being alone) have nothing against the American accent—it is unique, and goes extremely well with their jazz music, which, as everyone knows, came to stay years ago (the efforts of a few notwithstanding). I will admit there are sound films not suitable for broadcasting, but anything in the musical comedy line, or with good theme songs (representing a large percentage of pictures) come over well, and are really good entertainment. I suppose he would like the dance programmes stopped, too. No, Sir, the old egg about the "Yankee twang," much exploited with the advent of the speaking picture, blew up long ago, and our thanks are due to the Broadcasting Company for giving those of us away from the towns a chance of hearing the latest songs and dance hits per medium of the radio.—"Attaboy" (Okato).

Programmes! Programmes!

WHEN will the Broadcasting Company realise that it is in their interests to do all they can for we who depend for our livelihood on radio. We are supposed to receive consideration, and to this end receive continual assurance from the company that our interests are being considered—but are they? No; we are totally ignored. When we want to demonstrate and have convinced our clientele that they need radio, we are not supported with a decent programme—or there are power leaks to interfere. This week I have lost two sales through this cause—last week one, next week I suppose three.

The offending concert—I give it that name for want of another—was the relay from Eltham. I had gone to a great deal of trouble and expense in placing a good radio set in a home and arranged to demonstrate on this night. Gadzooks, when we tuned in at 8 p.m., what did we hear?—a continuous

roar. "Is this 2YA?" "Yes, that is the star effort the great 2YA." "Take it away." But I persisted, explaining that it was probably a noisy line and the concert would justify the initial noise. So it was tolerated till it cleared slightly and all waited in expectation for the up-country relay. Then it burst upon us—bands seeing who could perfectly murder respectable selections. Oh, it was awful. I took the set away, one good sale "gone west." Now, sir, could you honestly think I could have done otherwise under those galling conditions.

Later I went to demonstrate another, and what this time? Power noises, unrelenting from three o'clock. The same tale, "Take it away." I have had enough of trying to sell radio, henceforth gramophones or the wharf.—Yours in the soup. "Coal Shoveller" (Wellington).

4YA's Transmission.

I FAIL to see why "Disgusted" should complain about 4YA. I can tune it in almost any night, as clear as a bell. I can't find anything wrong with the transmission. The only trouble I experience is occasional bad fading, but that is not the fault of the station. Of late I have been troubled with static, and an electrical disturbance of a slight intensity. I am living over 100 miles north of Wellington.—"Satisfied" (Mangaweka).

Line Interference.

I WAS more than pleased to note that you gave prominence to correspondence in regard to power-line interference. I can substantiate the complaint against the Hutt Power Board's lines. Some three or four months ago the interference was so bad in my locality that I sought the assistance of the district radio inspector. I provided him with the names and addresses of

others who were complaining. As a result three sizzling sparks were definitely located on the Main Hutt Road between Petone station and the Hutt Road ramp. Efforts to have the lines attended to have proved fruitless, and in dry weather it is practically useless endeavouring to tune-in stations other than Wellington. I have a costly seven-valve set, and in view of the frequent interference, I might just as well own a crystal set. One wonders whether representations from the Public Works Department would have the desired effect, and I suggest that action be taken in that direction.—"Hutt Road" (Petone).

This Radio

A BRIGHT interlude during the welcome to Admiral Byrd and his fellow explorers by the city of Dunedin was the speech of Mr. Laff Davies, the physicist. Mr. Davies had a pronounced sense of humour and kept his audience in a state of hilarity. He made a reference to the part radio had played in the expedition. "One of the most cheering things we had with us was the radio, but it was not so cheering when our friends sent through a message from Montreal: 'Cheerio, we are drinking your health.'"

2YA Heard in Southern Seas

WHILE the Kosmos was working the lower latitudes on its whaling expedition, the members of the crew frequently listened to programmes broadcast from 2YA. For the special benefit of the Norwegian members of the crew, on one afternoon some Norwegian music was broadcast at a certain time. Information received from the crew on return of the Kosmos to port was that this particular transmission was listened to by a number of the crew with great delight, and although it was not dark in those latitudes when the transmission came through, reception was of the most perfect clarity.

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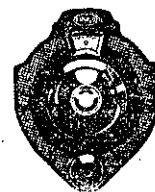
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VELMO

Features from

NEXT WEEK'S PROGRAMMES

SUNDAY

CONTEST ITEMS FROM 2YA

Broadcast from 1YA.

THE service in the Beresford Street Congregational Church will be relayed, the preacher being the Rev. L. B. Fletcher, and the choirmaster Mr. W. Gemmell. The after-church studio programme will include items by Miss Nellie Marriage, a new artist at 1YA, who will be heard in three ballads—"Shepherd's Cradle Song" (Somervell), "I Heard You Go By" (Wood) and "Sometimes in Summer" (Stern-dale Bennett). Mr. Tom Moffitt, tenor, will sing "Linden Lea," "Mignon" and "Flower Divine." The Studio Trio will include among their items "Raindrop Prelude" and "Gopak." Miss Ina Bosworth will play several delightful violin solos.

From 2YA.

THE service will be from St. Thomas's Anglican Church, Wellington South. The Rev. C. V. Rooke, M.A., will preach, the choirmaster and organist being Mr. W. A. Gatheridge.

The studio concert in the evening by the Wellington Municipal Tramways Band promises to be one of outstanding merit, a feature of the programme being the contest pieces, "The Victory," tone poem, and Beethoven's "Sonata Pathétique," numbers in which this band should show up to advantage.

Other items by the band will be the selection, "Euryanthe," Rimmer's waltz, "Senta," and the march "Torchlight." The supporting artists will be Miss Anne Sullivan (soprano), Miss Agnes McDavitt (contralto), and Mr. Chas. Edwards (tenor).

From 3YA.

THE service is from St. Paul's Presbyterian Church, the Rev. Bower Black being the preacher. A concert relayed from 4YA will follow.

From 4YA.

CAPTAIN Chandler will preach from the Salvation Army Fortress. The after-church studio concert will be provided by the Kaikorai Band, under the conductorship of Mr. T. J. Kirk-Burnand, with assisting vocal artists and special recordings. Miss Irene Hornblow will sing three negro spirituals. Other soloists will be

Miss Rita Holmes and Mr. Arthur W. Alloo.

MONDAY

OTAGO ANNIVERSARY BROADCAST

Broadcast from 2YA.

THE programme promises to be one of outstanding merit. The 2YA Orchestra, under Signor A. P. Truda, will play several numbers from classical composers, namely, the "Athalie" overture of Mendelssohn, Mozart's well-known suite "Eine kleine Nachtmusik,"

"Just Like a Woman" and "Cross Purposes," both items by the well-known sketch writer, Montague. Miss Glen Carty, L.A.B., F.T.C.L., a young pupil from the studio of Mr. Gordon Short, will play Friedmann's "Waltz." Organ solos to be played by Mr. H. Temple White will be Holloway's "Romanza," the "Gavotte" from "Mignon" and Battman's "Offertory in G Major."

From 3YA.

THE Woolston Band will present two marches, "Gallant and Gay" and "Gaily Thro' the World," the overture to Plotow's "Martha," the concert march "Pasano," and Rimmer's "Op-

TUESDAY

"OUTWARD BOUND"

Broadcast from 1YA.

AT 7.40 a further lecture, under the auspices of the Auckland Zoological Society, will be given by Mr. A. T. Pycroft, his subject being "Birds of the Kermadec Islands." The whole of the evening session will be devoted to the presentation by the Auckland Little Theatre Society of "Outward Bound."

From 2YA.

THE Salon Orchestra, under Mr. Mat Dixon with the assistance of Mr. Harry Matthew, Miss Janet Stirling, Mr. W. E. Elliott, and Mr. Will Yates will contribute a light popular programme. The orchestral items will be the "Plymouth Hoe" overture, Drigo's "Magic Serenade," "Contemplation" by Hope, the suite "Queen of Sheba" and Sinding's "Rustle of Spring." Miss Janet Stirling will be the soprano soloist for the evening and Mr. Harry Matthew will be heard in several light baritone solos. Popular songs will be sung by Mr. W. E. Elliott, and Mr. Will Yates, the popular entertainer, will recite some humorous numbers adapted and written by himself.

From 3YA.

The programme presented by the Kaikorai Band introduces an exceptionally fine selection arranged by Ord Hume on Sir Harry Lauder's songs. This selection contains all of Sir Harry Lauder's most popular platform items, and Dunedin listeners will welcome a selection of this type provided by the Band.

Amongst other artists assisting on this occasion is Mr. Norman Scurr, who has not appeared before the microphone for over twelve months. Mr. Scurr has just completed a tour through the Dominion with Fullers' and he is presenting three popular numbers accompanying himself on the guitar.

Mr. Davies, a new tenor at 4YA, is to present amongst other items, Stephen Adams's very fine song, "Good Company." Mr. Davies's voice is very fine indeed, and his interpretation of this item will be eagerly looked forward to by many listeners. Miss Rae Stubbs, soprano, will sing among other songs, "Callin' Herrin'." Three new items are to be presented by Miss M. Juriss whose elocutionary items have become so popular at this station; two of them are "The Sisters" (by Whittier), and "Peter" (by Gatty).

A very useful talk to parents on "Diet for the Runabout Child—the place of milk in the diet" will be given on Wednesday afternoon by the Home Science Extension Department of the Otago University. In the evening at

Excerpts from FAMOUS OPERAS

Presented from 3YA on March 26 by Mr. W. H. Dixon, supported by Leading Christchurch Artists and the Studio Octet.

The Operas

FAUST
TANNHAUSER
and
CARMEN

will be typified in
story and song



sik," Boccherini's celebrated "Minuet," Schumann's "Abendlied," and Brahms' "Valse in D Major."

The supporting vocalists will be the Misses Mavis and Mona Castle, Mr. John Prouse and Mr. William Renshaw. Their items will comprise excerpts from the works of Liza Lehmann, Waddington Cooke, Schubert, Hughes, Sullivan and Cowan. An interesting feature of the programme will be two vocal solos with violin obligato played by Miss Zilah Castle, the soloists being Misses Mavis and Mona Castle. They will sing "One Fleeting Hour" and "Fiddle and I" respectively.

Two light sketches will be given by Miss Gracie Kerr and Mr. Geo. Power

eratic Beauties." Bandsmen Williams and Anderson will play a euphonium and trombone duet, "The Moon hath Raised her Lamp Above." A cornet solo, "Titania," will be played by Bandsman R. Ohlson.

Further instrumental numbers on the evening's programme will be provided by the Christchurch Broadcasting Trio. The vocalists for the evening will include two young artists new to Radio, Miss Louisa Kiddle and Miss Helena Davidson. Mr. W. Bischlager and Mr. C. L. Richards will also be singing. Two sketches will be presented by a combination known as the Kiwis, while humorous recitations will be given by Miss K. G. Willetts and Mr. W. H. Moses.

From 4YA.

THERE will be a concert in the Old Settlers' Hall to celebrate the 82nd anniversary of Otago. See page five for full particulars.

WANTED AND FOR SALE.

For column of casual advertisements see page 31.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE

7.15 Dr. Hercus, of the Otago Medical School, will discuss "Hydatid Diseases" for the information of farmers.

WEDNESDAY

SONGS AND STORIES OF THE OPERAS

Broadcast from 1YA.

MR. NORMAN KERR will continue his series of talks on physical culture at 7.40. Included in the orchestral items during the evening's concert session will be a clarinet solo, "Alcanta," to be played by Mr. Gordon Eady, with orchestral accompaniment. Misses Alma McGruer and Beryl Smith, soprano and contralto respectively, will be heard in a number of solos and duets, and Mr. Albert Gibbons Taylor (bass-baritone) will also be singing some very fine songs. Mr. A. B. Chappell, M.A., will give his usual topical talk. Concluding the programme is a lecture-recital of the latest recordings.

From 3YA.

THERE will be a special programme, "Songs and Stories from Operas," arranged by Mr. W. H. Dixon, full details of which are given elsewhere.

From 4YA.

THE popular nature of the evening's programme will be augmented by the inclusion of saxophone novelties by Messrs. J. McCaw and T. Law. These instrumentalists are two of the finest in the city.

A welcome reappearance on the same programme will be made by Miss Roberta Williams, elocutionist. Miss Williams has been away from Dunedin for some considerable time. She is a very fine elocutionist, and excels in humorous items, three of which will be presented by her on Wednesday.

An artist who is to make her debut before the microphone is Miss Poppy Christie, mezzo-soprano, who is well known on the competition platform. Miss Christie is the possessor of a very sweet voice with clear enunciation. The items chosen for this, her first appearance "over the air," will give her ample scope to display her ability. The remaining artists on the programme are Mr. James Paterson (Scottish comedian) and Miss Gwenda Burt (contralto), with the ever-popular Novelty Trio.

THURSDAY

NEW COMBINATION

Broadcast from 1YA.

AT 7.15 a book review will be given by Mr. H. H. Driver, and at 7.40 Mr. D. A. Turner will give a talk on "A Sixteen-hundred-mile Motor Trip." This should prove very interesting to the lovers of the outdoors.

A combination new to 1YA, the Aloha Duo, consisting of banjo and guitar, will be heard in several popular melodies. The ever-popular Bohemian Duo have included in their items, "Hawaiian Melodies."

Miss Marjorie Fair, who has not been heard from 1YA for a considerable time, will be heartily welcomed. She is the possessor of a very fine soprano voice which will be heard in three solos. Miss Cherry Anderson will play two novelty piano solos. Mr. T. T.

Garland will dispense humour, and the well known Asquith combination will give a twenty-minute drawing-room entertainment. Dance music until 11 p.m.

On Thursday evening, from 8 till 9.45 p.m., there will be a relay from the Y.M.C.A., where a "President's Reception" is to be held. The programme will consist in the main of instrumental, vocal and humorous numbers, with two short speeches by the president, Mr. C. H. Furniss, and Sir George Richardson, on the work of the Y.M.C.A.

From 2YA.

MISS FLORA CORMACK will give another of her series of talks on "Hollywood and Motion Picture Artists"; the subject on this occasion will be "Hollywood—At Home." During the news session Mr. G. White will talk on "The Culture of Chrysanthemums." Mr. White is thoroughly qualified to speak on this subject, having



Two welcome reappearances before the microphone this week are Miss Roberta Williams (4YA) and Mr. Norman Scurr (3YA). Both these popular artists have been absent from their respective cities, and returning are linking up with the Broadcasting Company. Mr. Scurr has just completed a tour of New Zealand on the Fuller's circuit.

—Art-lite Studio.

ing been trained in Scotland and in New Zealand in matters appertaining to gardening in all its branches.

The Wellington City Salvation Army Band under the conductorship of Mr. H. Scotney will give a studio concert during the evening session. The band will have the assistance of the Lyric Male Voice Quartet, Mrs. E. F. Hollands (soprano), and Miss Rona Scott (elocutionist). The latter artist is well known to 4YA listeners, and this is her first appearance from this station. Miss Scott having now made her permanent home in Wellington.

From 4YA.

EXCERPTS from grand opera and classical items will constitute the main portion of the programme. The singers will be Madame Gower Burns, Miss Mavis Spiller, Mr. E. Rogers, and Mr. Jas. Filer. Harp and flute solos will be played by Mr. Harry Glaysher and Mr. W. Hay respectively. Miss Winifred Smith will recite. A piano lecture-recital will be given by Mr. Sydney Francis Hoben.

WANTED AND FOR SALE.

for column of casual advertisements see page 32.

FRIDAY

MISS HARRY REAPPEARS

Broadcast from 1YA.

ON Friday evening Miss Edith Harry will be the star performer.

A new artist at 1YA is Mrs. A. Rat-tray, Scottish soprano, and naturally she has included Scottish numbers among her items for Saturday evening. Instrumental and vocal items will be given by the Sunshine Duo, elocutionary items by Miss Rhona Speed, and humorous items by Mr. Owen Pritchard. The 1YA Orchestral Octet has included selections from "Romeo and Juliet," "Queen High," the waltz, "Painting Pretty Pictures," and the fox-trot, "Chloe."

From 2YA.

A FURTHER talk will be delivered on the "Stock Exchange" by a



o' the Wisp" and "Sally in Our Alley." Some old favourite solos will be sung: "A Heart that's Free," "The Trumpeter," "My Ships," "The Yeoman's Wedding Song," "The Band Alsatian Mountains," "In an Old-fashioned Town," "Comin' thro' the Rye," and "The Song of the Wagoner." Mr. John Campbell, the concertina and ocarino expert, will play popular melodies.

Miss Merle Miller, the studio pianist, will present some jazz improvisations in a piece called "Rambling Over the Ivories," her own arrangement. Miss Irene Morris (violinist) and the Christchurch Broadcasting Trio will play selections. From 9.30 till 11 there will be dance music.

From 4YA.

MR. A. H. PETTITT'S excellent orchestral combination presents two very fine orchestral suites, entitled "My Lady Dragonfly" and Percy Fletcher's "Nautical Scenes." These two selections have not been played a great deal in Dunedin and their inclusion on 4YA's classical programme will give a great deal of pleasure to listeners. Mr. Kenderdine and Mr. S. George of this combination are to present as a flute and clarinet duet with orchestral accompaniment, Bishop's "Here the Gentle Lark."

Mr. Noel H. North, baritone, is to make his second appearance in radio this evening, his songs being "The Trumpets Shall Sound" (by Handel), "O Flower of All the World" (by Woodforde-Finden), and "Obstinat" (by Fontenailles). Mrs. C. Drake (studio pianiste) is to present Weber's ever popular "Invitation to the Waltz." The remaining artists are Mr. Dall who has an excellent repertoire of new and original recitations, Mr. Geo. Crawford (the well-known tenor), and Miss Evelyn Shepard.

SATURDAY

NOVELTY NUMBERS

Broadcast From 2YA.

AT 7.40 p.m. Mr. F. Bird will give a short talk on "The Care of the Feet." The evening session programme will be of the usual Saturday vaudeville type. The Salon Orchestra, the Melodie Four Male Voice Quartet, Miss Gwen Lafferty, and Mr. A. C. Hannon will all contribute to the programme. The Golden Hula Quartet will feature Hawaiian instrumental numbers.

From 3YA.

MR. LESLIE FLEMING and Mr. Chas. Williamson will be the singers for the evening. The popular Chatterboxes will provide twenty minute entertainments of vaudeville items and humour. A specially interesting portion of the programme which will be presented by the Studio Instrumental Octet will be "Borrowed Plumes," showing how old melodies are borrowed for jazz versions. Introductory explanatory remarks will be made by Mr. Harold Beck and instance of the "borrowing" will be played.

On Saturday evening a programme descriptive of the voyage and wreck of the ship "Seerat" (1873) will be broadcast by 4YA.

From 3YA.

A POPULAR vocal programme will be provided by the Valencia Quartet. Concerted numbers will be "Will

Full Programmes for Next

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Sunday, March 23

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MARCH 23.

- 8.0 : Afternoon session, selected studio items, including literary selection by the Announcer.
 4.30 : Close down.
 8.0 : Children's Song Service, conducted by Uncle Lea.
 6.55 : Relay of Divine Service from Beresford Street, Congregational Church. Preacher: Rev. Lionel B. Fletcher. Choirmaster: Mr. W. Gemmell.
 8.30 : (approx.) : Choral—Russian State Choir, "Storm on the Volga" (Past-schenko (H.M.V. C4198)).
 Instrumental Trio—Studio Trio, "Children's Suite" (Bizet). 1. Doll's Lullaby; 2. Frolic; 3. Girl and Boy; 4. Galop.
 Soprano—Miss Nellie Marriage, "Shepherd's Cradle Song" (Somervell).
 Violin—Miss Ina Bosworth, "Midnight Bells" (Kreisler).
 Tenor—Mr. Tom Moffitt, "Linden Lea" (Vaughan-Williams).
 Instrumental Trio—Studio Trio, "Raindrop Prelude" (Chopin).
 Male Quartet—The Revellers, "Plodding Along" (Robison).
 Soprano—Miss Nellie Marriage, (a) "I Heard You Go By" (Wood); "Sometimes in Summer" (Sterndale-Bennett).
 Violin—Miss Ina Bosworth, "Valse Bluettes" (Drigo).
 Tenor—Mr. Tom Moffitt, (a) "Mignon" (D'Hardelet); (b) "Flower Divine" (Cadman).
 Instrumental Trio—Studio Trio, "Gopak" (Moussorgsky).
 Male Quartet—The Revellers, "Wake Up! Chillun Wake Up" (Robison) (H.M.V. EA609).
 9.30 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MARCH 23.

- 8.0 to 4.30 : Afternoon session.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by Church of Christ Sunday School Choir.
 9.0 : Relay of evening service of St. Thomas' Anglican Church, Wellington South. Preacher: Rev. C. V. Rooke, M.A. Organist and Choirmaster: Mr. W. Gatheridge.
 9.45 (approx.) : Studio Concert by Wellington Municipal Tramways Band, (Conductor, Mr. E. Franklin) and 2YA Artists.
 Hymn—Wellington Municipal Tramways Band, "Fierce Raged the Tempest" (Traditional).
 Selection "Euryanthe" (Weber).
 Soprano—Miss Anne Sullivan, "Prelude" (Ronald).
 Duet—Harold Williams and Francis Russell, (a) "Witness Yonder Marble Heaven" (Verdi) from "Otello"; (b) "I Lay With Cassio" from "Otello" (Verdi) (Columbia 9827).
 Tone poem—Wellington Municipal Tramways Band, "Victory" (Jenkins).
 Contralto—Miss Agnes McDavitt, "The Silver Ring" (Chaminade).
 Tenor—Mr. Chas. Edwards, "The Great Awakening" (Rimmer).
 Waltz—Wellington Municipal Tramways Band, "Senta" (Rimmer).
 Weather report and announcements.
 Soprano—Miss Anne Sullivan, "Down in the Forest" (Landon Ronald).
 Baritone—Roy Henderson, "The Signpost" (Schubert).
 Wellington Municipal Tramways Band, "Sonata Pathetique" (Beethoven).
 Contralto—Miss Agnes McDavitt, (a) "Red Sarafan" (Wishaw); (b) "Oh Man from the Fields" (Hughes).
 Tenor—Mr. Chas. Edwards, "Till Dawn" (Loewe).
 March—Wellington Municipal Tramways Band, "Torchlight" (May).
 God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MARCH 23.

- 8.0 : Afternoon session gramophone recital.
 4.30 : Close down.
 5.30 : Children's song service.
 6.15 : Chimes from studio.
 6.30 : Relay of evening service from St. Paul's Presbyterian Church, Cashel Street. Preacher: Rev. W. Bower Black. Organist: Mr. Norman Williams. Choir Conductor: Mr. H. Blakeley.
 8.45 (approx.) : Relay of 4YA Dunedin's programme.
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MARCH 23.

- 8.0 : Chimes. Selected gramophone items.
 4.30 : Close down.
 5.30 : Children's Song Service, conducted by Big Brother Bill.
 6.15 : Close down.
 7.15 : Relay of evening service from Salvation Army Fortress. Preacher: Capt. Chandler. Band Conductor: Mr. Millard.

- 8.15 (approx.) : Studio programme to be rendered by Kalkorai Band, under conductorship of Mr. T. J. Kirk-Burnand, assisted by 4YA artists.
 March—The Band "The Torchlight" (May).
 Selection—The Band, "Hanover" (arrgd. Round).
 Contralto—Miss Irene Horniblow, L.R.A.M. "Negro Spiritual," "Steal Away" (Burleigh).
 Choir with organ—Temple Church Choir, London, "Praise My Soul, the King of Heaven" (Goss) (H.M.V. B3047); "O Worship the King" (Goss) (H.M.V. B3047).
 Selection—Band, "The French Maid" (Sanderson).
 Baritone—Mr. Arthur W. Alloo, (a) "The Sun God" (James); (b) "Sacrament" (McDermid).
 Instrumental—Bayreuth Festival Orchestra, (a) "Prelude to Act 3," "Siegfried" (Wagner); (b) "Fire Music-Siegfried" (Wagner).
 Soprano—Miss Rita Holmes, (a) "The Lord is My Light" (Allitsen); (b) "Give Thanks and Sing" (Warren).
 Overture—The Band, "Der Freischutz" (Weber).
 Cello—Beatrice Harrison, "Viennese Melody" (Kreisler); (b) "Largo" (Handel) (H.M.V. C1647).
 Contralto—Miss Irene Horniblow, L.R.A.M. "Deep River" (Burleigh), "Sometimes I Feel" (Burleigh).
 Concert Valse—The Band, "Sunshine and Shadow" (Kela Bela).
 Chorus—Don Cossacks, "Evening Bells" (Jaroff); "Serenade" (trdt.).
 Baritone—Mr. Arthur W. Alloo, "Onaway Awake, Beloved" (Cowan).
 March—The Band, "The Imperator" (Moorhouse).
 Soprano—Miss Rita Holmes, "Wipe All Tears Away" (Blaze).
 Hymn tunes, The Band, "Hymn of Praise" (Kirk-Burnand); (b) "Radiocast" (Kirk-Burnand).
 9.30 : God Save the King.

Monday, March 24

1XA, AUCKLAND (900 KILOCYCLES)—MONDAY, MARCH 24.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, MARCH 24.

- 8.0 : Chimes. Selected studio items.
 3.30 and 4.30 : Sports summary.
 4.55 : Close down.
 5.0 : Children's session.
 6.0 : Dinner music session, "H.M.V." Hour.
 Orchestral—Berlin State Opera Orchestra, "Polonaise" (Liszt).
 Violin—Isolde Menges, "Nocturne in E Flat, Op. 9, No. 2" (Chopin).
 6.13 : Tacet.
 6.15 : Band—H.M. Coldstream Guards "Le Fille de Madame Angot" (Lecocq).
 Piano—Mark Hambourg, "Rakoczy March" (Liszt) (C1439).
 Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music, 1st Movement" (Mozart) (C1655).
 6.29 : Tacet.
 6.30 : Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music—2nd, 3rd, 4th Movements" (C1655/6).
 Piano—Mark Hambourg, "On Wings of Song" (Mendelssohn) (C1439).
 6.44 : Tacet.
 6.45 : Quartet—Virtuoso String Quartet, "Londonderry Air" (arrgd. Bridge).
 Violin—Isolde Menges, "Air on G String" (Bach) (D1288).
 Quartet—Virtuoso String Quartet, "The Emperor Quartet," Op. 76, No. 8 (C1470).
 6.58 : Tacet.
 7.0 : News session, market reports and sports results.
 8.0 : Chimes.
 8.1 : Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Athalie" (Mendelssohn).
 8.9 : Mezzo-soprano—Miss Mavis Castle, (a) "The Wood Pecker" (Lehmann); (b) "The Starling" (Lehmann).
 8.14 : Pianoforte—Miss Glen Carty, L.A.B., F.T.O.L., "Waltz" (Friedmann).
 8.21 : Baritone—Mr. John Prouse, (a) "The Wanderer" (Schubert); (b) "The Erl King" (Schubert).
 8.28 : Duet—Misses Mavis and Mona Castle, "The Swing" (Cooke).
 8.32 : Suite—2YA Orchestra, "Eine kleine Nachtmusik" (Mozart).
 8.40 : Sketch—Miss Gracie Kerr and Mr. George Power "Just Like a Woman" (Montague).
 8.48 : Contralto with violin obligato—Miss Mona Castle, "One Fleeting Hour" (Lee), (Violin obligato by Miss Zillah Castle).
 8.51 : Tenor—Mr. William Renshaw, "Onaway Awake, Beloved" (Cowan).
 8.55 : Instrumental—2YA Orchestra, (a) "Vol du Bourdon" (Rimsky-Korsakov); (b) "Celebrated Minuet" (Boccherini).
 9.3 : Weather report and announcements.

Week-all Stations-to Mar. 30

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- 9.5 : Organ—Relay of Organ Recital by Mr. H. Temple White, (a) "Romanza" (Holloway); (b) "Gavotte de Mignon" (Thomas); (c) "Offertoire G Major" (Battman).
- 9.17: Mezzo-soprano—Miss Mavis Castle (Violin obbligato by Miss Zillah Castle), "Fiddle and I" (Weatherly).
- 9.21: Baritone—Mr. John Prouse, "Thou'rt Passing Hence" (Sullivan).
- 9.25: Duet—Misses Mavis and Mona Castle, "Bed in Summer" (Waddington Cooke).
- 9.29: Instrumental—2YA Orchestral, (a) "Abendlied" (Schumann); (b) "Les Deux Pierrots" (Drigo).
- 9.37: Sketch—Miss Gracie Kerr and Mr. George Power, "Cross Purposes" (Montague).
- 9.44: Violin—Fritz Kreisler, "Rondino" (Beethoven-Kreisler) (DA1044).
- 9.47: Contralto—Miss Mona Castle, (a) "To People who have Gardens" (Hughes); (b) "The Moon Cradle" (Hughes).
- 9.53: Tenor—Mr. William Renshaw, (a) "An Eriskey Love Lilt" (Kennedy-Fraser); (b) "Sigh no More" (Aiken).
- 9.59: Instrumental—2YA Orchestral, "Valse D Major" (Brahms).
- 10.7 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—MONDAY, MARCH 24.

- 3.0 : Afternoon session, gramophone recital.
- 4.25: Sports results.
- 4.30: Close down.
- 5.0 : Children's Hour, "Scatterjoy."
- 6.0 : Dinner Session, "Columbia" hour.
Orchestral—Mengalberg's Concertgebouw Orchestra, "Oberon Overture Part 1 and 2" (Weber) (04347).
Octet—Squire Chamber Orchestra, "L'Arlesienne Suite" (Intermezzo).
- 6.13: Tacet.
- 6.15: Orchestral—Menorah Symphony Orchestra, "Shulamith" (Selection).
Band—B.B.C. Wireless Military Band, "Indian Queen."
Octet—Squire Chamber Orchestra, "L'Arlesienne Suite—Minuet".
- 6.29: Tacet.
- 6.30: Orchestral—New Queen's Hall Orchestra, "Slavonic Dance in G Minor".
Band—B.B.C. Wireless Band, "Helston Furry Processional" (02981).
Orchestral—Classic Symphony Orchestra, "Classical Memories".
- 6.44: Tacet.
- 6.45: Octet—Squire Celeste Octet, "Ave Maria" (Bach) (02569).
Orchestral—B.B.C. Wireless Symphony Orchestra, "Il Trovatore".
Octet—Squire Celeste Octet, "On Wings of Song" (Mendelssohn).
- 6.58: Tacet.
- 7.0 : News session.
- 7.30: Lecture—Mr. N. M. Bell, "Esperanto."
- 8.0 : Chimes.
Band programme featuring Woolston Band (Conductor, R. J. Estall), and assisted by 3YA artists.
- 8.1 : Band—March, "Gallane and Gay" (Rimmer).
Overture—Band, "Martha" (Flotow).
- 8.13: Soprano—Miss Louisa Kiddle, (a) "Advice" (Carew); (b) "Buy My Violets Fair" (Thompson).
- 8.19: Instrumental—Christchurch Broadcasting Trio, (a) "Serenade" (Drigo); (b) "Scottish Air" (MS.); (c) "Waltz" (Tschalkowsky).
- 8.29: Tenor—Mr. W. Bischlager, "I'll Sing Three Songs of Araby" (Clay).
- 8.33: Cornet solo to band accompaniment—Soloist Bandsman R. Ohlson and Band, "Titania" (Rimmer).
- 8.39: Sketch—The Kiwis, "Tit for Tat" (Anon.).
- 8.49: Contralto—Miss Helena Davidson, "Kathleen Mavourneen" (Crouch).
- 8.53: Humorous recitation—Miss K. G. Willetts, "The Rehearsals" (M.S.).
- 8.58: Concert march—Band, "Pasane" (Podmore).
- 9.4 : Weather report and announcements.
- 9.6 : Baritone—Mr. C. L. Richards, "When Drake Goes West" (Sanderson).
- 9.10: Instrumental—Christchurch Broadcasting Trio, (a) "Pierette" (Chaminade); (b) "Song of the North" (Svendson); (c) "Serenata" (Moskowski).
- 9.20: Soprano—Miss Louisa Kiddle, "Happy Song" (Del Riego).
- 9.24: Sketch—The Kiwis, "The Hairdresser" (Anon.).
- 9.32: Selection—Band, "Operatic Beauties" (Rimmer).
- 9.44: Tenor—Mr. W. Mischlager, (a) "Entreaty" (Smith); (b) "My Dreams" (Tosti).
- 9.49: Euphonium and trombone duet to band accompaniment—soloists, Bandsmen Williams and Anderson, "The Moon Hath Raised her Lamp Above" (Lily of Killarney) (arrgd. Rimmer).
- 9.54: Humorous recitation—Mr. W. H. Moses, "On Hamlet" (Anon.).
- 9.58: Contralto—Miss Helena Davidson, "The Arrow and the Song" (Balfe); "Sunflakes" (Phillips).
- 10.3 : Baritone—Mr. C. L. Richards, (a) "Marie" (Ethel Barnby); (b) "King Charles" (M. V. White).

- 10.8 : March—Band, "Gaily Thro' the World" (Macbeth).
God Save the King.

4YA, DUNEDIN (650 KILOCYCLES).—MONDAY, MARCH 24.

82nd ANNIVERSARY OF OTAGO.

- 2.0 : Relay from Early Settlers' Hall of musical programme and speeches by early settlers and prominent citizens.
- 4.30: Close down.
- 5.0 : Children's Hour, conducted by Uncle Allan.
- 6.0 : Dinner music session—"Parlophone" Hour.
Overture—Berlin State Opera Orchestra, "Mignon" (Thomas).
Instrumental—Grand Symphony Orchestra, "Tales of Hoffman—Barcarolle" (Offenbach) (A4061).
- 6.12: Tacet.
- 6.15: Fantasia—Edith Lorand Orchestra, "Faust" (Gounod) (E10579).
Piano—Karol Szreter, "Fledermaus" (Strauss) (A4082).
- 6.27: Tacet.
- 6.30: Selection—Dajos Bela Orchestra, "La Tosca" (Verdi) (A4045).
Cello—Orabio de Castro, "Nocturne in E Flat" (Chopin) (E10581).
- 6.42: Tacet.
- 6.45: Overture—Grand Symphony Orchestra, "Fra Diavolo" (Auber).
Instrumental—Grand Symphony Orchestra, "Tales of Hoffman—Entr'acte and Minuet" (Offenbach) (A4061).
- 6.57: Tacet.
- 7.0 : News session.
- 8.0 : Relay of concert from Early Settlers' Hall on occasion of 82nd Anniversary of Otago.
- 9.15: God Save the King.

Tuesday, March 25

1YA, AUCKLAND (900 KILOCYCLES).—TUESDAY, MARCH 25.

- 3.0 : Afternoon session—selected studio items, including literary selection by the Announcer.
- 4.30: Close down.
- 5.0 : Children's session, conducted by Uncle Dave.
- 6.0 : Dinner session, "Columbia" Hour.
Intermezzo—Milan Symphony Orchestra, "Cavalleria Rusticana" (Mascagni) (Columbia 02841).
Selection—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck).
- 6.12: Tacet.
- 6.15: Selection—Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck).
Marimba Orchestra—Rio Marimba Orchestra, "Three O'Clock in the Morning" (Robledo) (02685).
- 6.27: Tacet.
- 6.30: Orchestral—Bayreuth Festival Orchestra, "Siegfried-Prelude" Act 3 (Wagner) (L2015).
Waltz—Eddie Thomas' Collegians, "Moments With You" (Shilkret).
Waltz—Eddie Thomas' Collegians, "Moonlight on the Danube" (Gay).
Wurlitzer organ—Stanley MacDonald, "La Rosita" (Dupont).
- 6.43: Tacet.
- 6.45: Selection—Regal Orchestra, "Pagliacci" (Lencavallo).
Marimba Orchestra—Rio Marimba Orchestra, "My Isle of Golden Dreams" (Blauffuss) (Columbia 02685).
- 6.57: Tacet.
- 7.0 : News and market reports.
- 7.40: Talk—Under the auspices of the Auckland Zoological Society, Mr. A. T. Pycroft, "Birds of the Kermadec Island."
- 8.0 : Chimes.
Overture—Bournemouth Municipal Orchestra, "Pique Dame" (Suppe).
- 8.9 : Presentation by the Auckland Little Theatre Society, of "Outward Bound" (Sutton Vane).
Act 1—a scene in the smoking-room of a small ocean liner.
Baritone—Alexander Kisselburgh, "Song of the Flea" (Moussorgsky).
Act 2—The same scene in the evening of the same day.
Entr'acte—J. H. Squire Octet, "Polonaise" from "Mignon" (Thomas).
Act 3—The same scene on an afternoon some days later.

2YA, WELLINGTON (720 KILOCYCLES).—TUESDAY, MARCH 25.

- 3.0 : . . . Selected studio items.
- 3.30 and 4.30: Sports results.
- 4.55: Close down.
- 5.0 : Children's session.
- 6.0 : Dinner Music Session, "Columbia" Hour.
Waltz—Symphony Orchestra, "Artists' Life" (Strauss) (02841).
Instrumental—Columbia Symphony Orchestra, "Al Fresco" (Mascagni).

Foxtrot—La Nuova Orchestra, "Di Napoli" (Ramoni) (3066).

Band—H.M. Grenadier Guards, "La Paloma" (Yradier) (0987).

6.13: Tacet.

6.15: Instrumental—Ketelbey's Orchestra, "In a Monastery Garden" (Ketelbey) (02688).

Waltz—Jacque Jacobs' Ensemble, "Over the Waves" (Rosas) (02556).

6.27: Tacet.

6.30: Instrumental—Columbia Symphony Orchestra, "Bandinage" (Herbert).

Waltz—Royal Serbian Tambouritzza Orchestra, "Kosovo" (3066).

Waltz—Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (02577).

March—H.M. Grenadier Guards Band, "Twist and Twirl" (Kottann).

6.43: Tacet.

6.45: Waltz—Royal Philharmonic Orchestra, "Blue Danube" (Strauss).

Waltz—Jacque Jacobs' Ensemble, "España" (Waldteufel) (02560).

6.57: Tacet.

7.0: News session, market reports and sports results.

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

8.0: Chimes.

8.1: Overture—2YA Salon Orchestra, "Plymouth Hoe" (Ansell).

8.9: Soprano—Miss Janet Stirling, (a) "Arise O Sun" (Day); (b) "A Blackbird's Song" (Sanderson).

8.16: Baritone—Mr. Harry Matthew, (a) "One Alone" from "Desert Song" (Romberg); (b) "The Leader of the Town Brass Band" (Longstaffe).

8.23: Instrumental—2YA Salon Orchestra, (a) "Magis" (Drigo); (b) "Contemplation" (Hope).

8.33: Humour—Mr. W. Yates, "Our Literary Society" (Spurr arrgd. Yates).

8.40: Popular songs—Mr. W. E. Elliott (a) "I'm Bringing a Red, Red Rose" from "Whoopee" (Donaldson); (b) "A Kiss, a Caress and Then Adieu" (Sharp).

8.47: Soprano—Miss Janet Stirling, "The Lass With the Delicate Air" (Arne).

8.51: Instrumental—2YA Salon Orchestra, "Request item."

8.59: Weather report and announcements.

9.1: Lecturette—Dr. Louis Levy, "The N.Z. Obstetrical Endowment Fund."

9.11: Suite—2YA Salon Orchestra, "Queen of Sheba" (Goldmark).

9.19: Baritone—Mr. Harry Matthew, "A Tumble Down Shack in Athlone" (Sanders).

9.23: Humour—Mr. W. Yates, "The Sporting Announcer's Nightmare" (original).

9.30: Popular song—Mr. W. E. Elliott, "Where is the Song of Songs for Me" (Berlin).

9.34: Instrumental—2YA Salon Orchestra, "Destiny Waltz" (Baynes).

9.40: Dance programme, "Columbia."

Foxtrot—Palais Royal Orchestra, "Louise" (Whiting).

Foxtrot—Ambassadors' Band, "My Man" (Channing) (01566).

Foxtrot—Willie Creager's Orchestra, "On Top of the World Alone" (Whiting) (Regal G20527).

Foxtrot—Ambassadors' Band, "Second Hand Rose" (Clarke) (01566).

9.52: Hawaiian—Milford's Hawaiian Players, "Hawaiian Hotel" (Nainas).

Foxtrot—The Harmonians, "When My Dreams Come True" (Berlin).

Foxtrot—Paul Whiteman's Orchestra, "China Boy" (Winfree) (07025).

Foxtrot—Stellar Dance Band, "This is Heaven" (Yellen).

Waltz—The Piccadilly Players, "Lisette" (Major and Andrew).

10.7: Soprano—Marie Burke, "I'd Rather be Blue Over You" (Rose).

Foxtrot—Paul Whiteman's Orchestra, "I'm in Seventh Heaven" (De Sylva) (07023).

Foxtrot—Paul Whiteman's Orchestra, "Oh Miss Hannah" (Deppen).

Foxtrot—Paul Whiteman's Orchestra, "Little Pal" (De Sylva).

Foxtrot—Rhythmic Troubadours, "You're the Cream in My Coffee" (De Sylva) (Regal G20555).

10.22: Hawaiian—Milford's Hawaiian Players, "Honeymoon Chimes" (Brown) (Regal G20550).

Foxtrot—Royal Canadians, "This is Heaven" (Yellen) (01632).

Foxtrot—Royal Canadians, "I Get the Blues When it Rains" (Weaver).

Waltz—Milford's Hawaiian Players, "Kawaihau" (Hawaiian Air).

10.34: Soprano—Marie Burke, "You Kiss My Hand, Monsieur" (Erwin).

Foxtrot—Rhythmic Troubadours, "Jericho" (Robin) (Regal G20532).

Foxtrot—The Piccadilly Players, "I Found You Out When I Found You In" (O'Flynn-Pence) (01568).

Foxtrot—Ray Starita's Ambassadors, "Ever So Goosey" (Wright).

Foxtrot—Rhythmic Troubadours, "Do Something" (Green).

Foxtrot—Ipapa Troubadours, "To be in Love" (Turk) (01660).

10.52: Hawaiian—Milford's Hawaiian Players, "Aloha Land" (Herzer).

Foxtrot—All Star Trio, "Dream Mother" (Burke) (01630).

Foxtrot—Rhythmic Troubadours, "To Know You is to Love You" (De Sylva) (Regal G20555).

Foxtrot—Corona Dance Band, "Olaf" (Baer) (Regal G20519).

Waltz—All Star Trio, "Evangeline" (Jolson) (01630).

11.40: God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, MARCH 25

SILENT DAY

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, MARCH 25.

3.0: Chimes. Selected gramophone items.

4.25: Sporting results.

4.30: Close down.

5.0: Children's hour, conducted by Uncle George.

6.0: Dinner music session—"H.M.V." Hour.

March—U.S. Army Band, "Army and Marine" (Starke) (Zono. EE145).

Selection—Piccadilly Orchestra, "The Waltz Dream" (Strauss).

Jack Hylton's Orchestra, "My Inspiration Is You" (Nicholls).

6.12: Tacet.

6.15: Royal Opera Orchestra, "Sylvia Ballet—Prelude" (Delibes) (C1417).

Royal Opera Orchestra, "Sylvia Ballet—Intermezzo" (Delibes).

Salon Orchestra, "Chanson Boheme" (Baldi) (B2581).

6.27: Tacet.

6.30: Jack Hylton's Orchestra, "A Room with a View" (Coward) (C1577).

Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).

March—San Francisco Symphony Orchestra, "Marche Militaire" (Schubert) (ED9).

6.42: Tacet.

6.45: Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier).

Balalaika Orchestra, "Shining Moon" (Russian folk song) (EA48).

March—U.S. Army Band, "American Spirit" (Buglione) (Zono. EF145).

6.57: Tacet.

7.0: News session.

8.0: Programme of music to be rendered by the Kaikorai Band, under the directorship of Mr. T. J. Kirk-Burnand, assisted by 4YA artists.

Contest march—The Band, (a) "Schumadinska" (Mirovitch); (b) intermezzo, "Manuella" (Lotter).

8.7: Soprano—Miss Ray A. C. Stubbs, (a) "Top Flat" (Brahms); (b) "My Laddie" (Thayer).

8.13: Cello—W. H. Squire, "The Broken Melody" (Van Biene) (Columbia).

8.16: Recital—Miss M. E. Juriss, "Keeping a Seat at the Theatre" (Anon.).

8.20: Selection—Band, "The Siege of Rochelle" (Balfe).

8.32: Light vocal and guitar—Mr. Norman D. Scurr, (a) "Tip-toe Thru the Tulips" (Burke); (b) "When My Dreams Come True" (Berlin).

8.38: Orchestral—Court Symphony Orchestra, "The Windmill Man."

8.48: Contralto—Miss Irene Horniblow, "Love's Old Sweet Song" (Molloy).

8.52: Concert waltz—Band, "Torerero" (Translatour).

8.58: Tenor—Mr. J. E. Davies, (a) "Good Company" (S. Adams); (b) "A Dream" (Bartlett).

9.4: Weather report and announcements.

9.6: Cello—W. H. Squire, "Drink to Me Only" (trdtl.) (Columbia 04180).

9.10: Soprano—Miss Ray A. C. Stubbs, "Caller Herrin'" (Lady Nairne).

9.14: Selection—The Band, "Sir Harry Lauder's Songs" (arrgd. Hume).

9.21: Recitals—Miss M. E. Juriss, (a) "The Sisters" (Whittier); (b) "Peter" (Scott-Gatty).

9.27: Light vocal and guitar—Mr. Norman D. Scurr, "My Old Guitar" (McWilliams).

9.31: Intermezzo—The Band, "Penelope's Garden" (Ancliffe).

9.35: Contralto—Miss Irene Horniblow, (a) "Viking's Daughter" (Thomas); (b) "Roses" (Adams).

9.41: Orchestral—Plaza Theatre Orchestra, "The Three Bears" (Coates).

9.47: Valse de Concert—Band, "Kroll's Balkklange" (Lumbye).

9.53: Tenor—Mr. J. E. Davies, "Oh, that Summer Smiled for Aye" (Davies).

9.57: Cornet with band accompaniment—"Genevieve."

March—Band, "The Thunderer" (Souza).

10.2: God Save the King.

Wednesday, March 26

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, MARCH 26.

3.0: Afternoon session—selected studio items, including literary selection by the announcer.

4.30: Close down.

5.0: Children's session, conducted by Uncle Tom.

6.0: Dinner session, "Columbia" Hour.

Band—Band of the Garde Republicaine of France, "The Two Pigeons."

1. Entrance of Tziganes; 2. Scene and march of the Two Pigeons

(Messenger) (02924); 3. Hungarian Dance; 4. Theme and Variations

(Messenger) (02925).

6.14: Tacet.

6.15: Orchestral—Modern Dance Players, "Over the Waves" (Rosas) (Regal).

Orchestral—Modern Dance Players, "Amoretten Tanze" (Gung'l).

Piano—Gil Dech, "Le Jet d'Eau" (Smith) (01719).

Band—B.C. Wireless Military Band, "Fourpence-Halfpenny Farthing" (Arr. Cecil J. Sharp) (01710).

Trio—Stellar Instrumental Trio, "The Maiden's Prayer" (01719).

6.28: Tacet.

6.30: Band—H.M. Grenadier Guards, "Fantasia on 17th Century Music A.D.

1664" (Arrgd. Major George Miller) (02890).

Organ—Terence Casey, "Bird Songs at Eventide" (Coates) (01501).

Orchestral—Continental Novelty Orchestra, "Los Claveles de Sevilla".

6.43: Tacet.

6.45: Orchestral—Continental Novelty Orchestra, "Les Lagarteranas."

Instrumental—Squire Celeste Octet, "Come into the Garden Maud".

Instrumental—Squire Celeste Octet, "Killarney" (Balfe, arr. Sear).

Organ—Terence Casey, "I'm Lonely" (Coates) (01501).

Band—B.C. Wireless Military Band, "Lilli Bulerio" (01710).

6.59: Tacet.

7.0: News and market reports.

7.40: Talk—Mr. Norman Kerr, "Physical Culture."

- 8.0 : Chimes.
Overture—1YA Orchestral Octet under the conductorship of Mr. Eric Waters, "Merry Makers" (Coates).
- 8.11: Bass-baritone—Mr. Albert Gibbons Taylor, "The Song of the Waggoner" (Smith).
- 8.15: Vocal duet—Miss Alma McGruer and Miss Beryl Smith, "Island of the Purple Sea" (Geehl).
- 8.19: Clarinet with orchestral accompaniment, Mr. G. Eady, "Alcánte".
- 8.25: Soprano—Miss Alma McGruer, "Ringtime" (Brahe).
- 8.29: Instrumental—1YA Orchestral Octet, (a) "Before Dawn" (O'Neill); (b) "In Birdland" (Zamecnik).
- 8.36: Contralto—Miss Beryl Smith, (a) "None but the Weary Heart" (Tchaikowsky); (b) "My Heart has a Quiet Sadness" (Sargent).
- 8.43: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."
- 8.58: Evening forecast and announcements.
- 9.0 : Suite—1YA Orchestral Octet, "Chinese Suite"—The Willow Plate" (Herbert).
- 9.7 : Bass-baritone—Mr. Albert Gibbons-Taylor, (a) "The Merry Monk" (Bevan); (b) "Star Vicino" (Salvator Rosa).
- 9.14: Vocal duet—Miss Alma McGruer and Miss Beryl Smith, "I Wish I were a Tiny Bird" (Lohr).
- 9.18: Musical comedy selection—1YA Orchestral Octet, "Country Girl" (Monckton).
- 9.28: Soprano—Miss Alma McGruer, "Vilanelle" (Del Acqua).
- 9.32: Lecture-recital—a Commentator, Gramophone lecture-recital, "Latest Recordings."
- 10.2 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, MARCH 26.
SILENT DAY.

4YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, MARCH 26.

- 3.0 : Afternoon session gramophone recital.
- 4.25: Sports results.
- 4.30: Close down.
- 5.0 : Children's Hour, conducted by Uncle John.
- 6.0 : Dinner Session, "H.M.V." Hour.
Royal Albert Hall Orchestra, "Carmen Prelude Act 1" (Bizet).
National Symphony Orchestra, "Sylvia Ballet Cortège de Bacchus" (Delibes) (EB24).
Organ—Reginald Foort, "Schon Rosmarin" (Kreisler) (B2664).
- 4.12: Tacet.
- 6.15: Marek Weber's Orchestra, "La Tosca" selection (Puccini) (C1413).
National Symphony Orchestra, "La Traviata Prelude" (Verdi) (EB24).
- 6.27: Tacet.
- 6.30: Selection—National Symphony Orchestra, "Bohemian Girl" (Balfe).
Royal Albert Hall Orchestra, "Carmen Prelude Act. 2" (Bizet).
Organ—Reginald Foort, "A Brown Bird Singing" (Haydn-Wood).
- 6.42: Tacet.
- 6.45: National Symphony Orchestra, "Aida" (Verdi) (Zonophone A340).
Selection—H.M. Coldstream Guards, "H.M.S. Pinafore" (Sullivan).
- 6.57: Tacet.
- 7.0 : News session.
- 7.30: Addington stock market reports.
- 8.0 : Chimes.
Operatic and miscellaneous programme.
Special presentation programme. "Songs and stories from operas," arranged by Mr. W. H. Dixon (Professor of Singing) and interspersed with instrumental music by the Studio Octet.
- 8.1 : Instrumental—Studio Instrumental Octet. Variations in the form of (a) "Pastoral Dance" (Fletcher); (b) "Minuet Gigue"; (c) "Country Dance Canon"; (d) "Fiddle Dance."
Excerpts from opera "Faust" by Gounod, with introductory comments by Mr. W. H. Dixon.
- 8.10: Soprano—Miss Gladys Brooks, "The Flower Song" (Gounod).
Duet—Miss G. Eaton and Mr. W. H. Dixon, "The Garden Scene" (Gounod).
Baritone—Mr. R. Laurenson, "Clear the Way for the Calf of Gold" (Gounod).
Duet soprano and tenor—Miss G. Eaton and Mr. W. H. Dixon, "The Prison Scene" (Gounod).
- 8.50: Instrumental—Studio Instrumental Octet, "La Traviata Fantasia" (Verdi).
- 9.2 : Weather report and announcement.
- 9.4 : Violin—Heifetz, "Rondo" (Schubert) (H.M.V. DB1047).
- 9.8 : Excerpts from opera "Carmen" by Bizet, with introductory comments by Mr. W. H. Dixon.
Contralto—Miss Gladys Ferguson, "Avanera" (Bizet).
Duet—Soprano and Tenor—Miss Gladys Brooks and Mr. W. H. Dixon, "Speak to Me of My Mother" (Bizet).
Canzonet and Duet—Miss Gladys Brooks and Mr. W. H. Dixon, "Who Goes There?" (Bizet); (b) "At Last, 'Tis Thou Carmen" (Bizet).
Baritone—Mr. W. H. Dixon, "The Flower Song" (Bizet).
Aria—Miss Gladys Brooks, "Michaela's Song" (Bizet).
- 9.8: Instrumental—Studio Instrumental Octet, "Incidental Music to Monsieur Beaucaire" (Rosse).
- 9.48: Excerpts from opera "Tannhauser" by (Wagner) with introductory comments by Mr. W. H. Dixon.
Soprano—Miss Hilda Hutt, (a) "Dear Hall of Song" (Wagner); (b) "Elizabeth's Prayer" (Wagner).

Recitative and Aria—Mr. R. Laurenson, "O Pure and Tender Star of Eve" (Wagner).

- 9.58: Instrumental—Studio Instrumental Octet, (a) "Hymn to the Sun" (Rimsky-Korsakov); (b) "Pulcinello" (Ern).
God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, MARCH 26.

- 3.0 : Chimes. Selected gramophone items.
- 3.15: Talk—Home Science Extn. Dept. of Otago University, under auspices of 4YA Primary Productions Committee, "Diet for the Runabout Child—the Place of Milk in the Diet."
- 4.25: Sporting results.
- 5.0 : Children's Hour, conducted by Big Brother Bill.
- 6.0 : Dinner Music Session—"Columbia" Hour.
Orchestral—Herman Finck and His Orchestra, "Waldteufel Memories" (arrgd. Finck) (Columbia 02985).
'Cello—W. H. Squire, "Gavotte" (Mehul) (03646).
Orchestral—Sandler's Orchestra, "One Kiss" from "The New Moon" (Hazlett) (01758).
- 6.13: Tacet.
- 6.15: Band—B.B.C. Wireless Military Band, "Dance of the Tumblers" (Korsakov) (02893).
Octet—Squire Celeste Octet, "Funeral March of a Marionette" (Gounod) (01713).
Saxophone—Chester H. Hazlett, "Valse Inspiration" (Hazlett).
Orchestral—Plaza Theatre Orchestra, "Pearl o' Mine" (Fletcher).
- 6.28: Tacet.
- 6.30: Waltz—New Concert Orchestra, "Nights of Fragrance" (Ziehrer).
Quartet—Squire's Celeste Octet, "Air on G String" (Bach) (01713).
Saxophone—Chester Hazlett, "To a Wild Rose" (MacDowell).
Orchestra—Plaza Theatre Orchestra, "Bal Masque" (Fletcher).
- 6.43: Tacet.
- 6.45: Selection—Sandler's Orchestra, "Softly as in a Morning Sunrise" (Romberg) (01758).
Band—B.B.C. Wireless Military Band, "Goliwog's Cake Walk" (Debussy) (02893).
'Cello—W. H. Squire, "Madrigale" (Simonetti-Squire) (03646).
Waltz—New Concert Orchestra, "Vienna Maidens" (Ziehrer) (02979).
- 7.0 : News session.
- 7.15: Talk—Dr. C. E. Hercus, Otago Medical School, under auspices of 4YA Primary Productions Committee, "Hydatid Disease."
- 8.1 : Instrumental—Novelty Trio, (a) "Smiling Irish Eyes" (Spencer); (b) "Our Bungalow of Dreams" (Virgis); (c) "Dusky Stevedore" (Johnson).
- 8.10: Vocal items—Mr. James A. Paterson, (a) "Dr. McGregor and His Wee Black Hen" (Pyffe); (b) "Beila McCraw" (Lauder).
- 8.15: Saxophone Novelty—Mr. J. McCaw, "Rosemary" (Stenson).
- 8.20: Humorous recitals—Miss R. Williams, (a) "Tittle-Tattle" (Ambient); (b) "That is All" (Lindo).
- 8.26: Instrumental—Novelty Trio, (a) "Where is My Meyer" (Profes); (b) "It Goes Like This" (Friend); (c) "A Wee Bit of Love" (Spencer).
- 8.36: Mezzo-soprano—Miss Poppy Christie, (a) "I am Longing for the Spring" (Morris); (b) "The Spinning Wheel" (Thomson).
- 8.43: Saxophone duet—Mr. J. McCaw and Mr. T. Law, "Kitten Scamper" (Barroll).
- 8.48: Contralto—Miss G. Burt, (a) "A Faded Rose" (Oliver); (b) "You Will Never Grow Old" (Drummond).
- 8.53: Instrumental—Novelty Trio, "Painting the Clouds with Sunshine" (Burke); (b) "Sometimes" (Tiorito).
- 8.59: Weather report.
- 9.1 : Vocal Items—Mr. James A. Paterson, "The Egg" (Newman).
- 9.5 : Saxophone duet—Mr. J. McCaw and Mr. T. Law, "Saxema" (Weid-coft).
- 9.9 : Humorous recital—Miss R. Williams, "Nini Ninette Ninon" (Weatherly).
- 9.12: Instrumental—Novelty Trio, "I Think You'll Like It" (Whiting); "Alma Mammy" (Whiting); "My Sweeter Than Sweet" (Whiting).
- 9.21: Mezzo-soprano—Miss Poppy Christie, "Roses Softly Blooming" (Spohr).
- 9.24: Saxophone Novelty—Mr. T. Law, "Break'n Sax" (Finder).
- 9.27: Contralto—Miss G. Burt, "Daisy Children" (Oliver).
- 9.29: Instrumental—Novelty Trio, "Romany Rose" (Nicholls).
- 9.32: Dance session—"Columbia" hour and a half.
Foxtrot—Milt Shaw's Orchestra, "Walking With Susie" (Gottler).
Foxtrot—Fred Rich's Orchestra, "Used to You" (De Sylva) (01563).
Foxtrot—Milt Shaw's Orchestra, "Breakaway" (Gottler) (01553).
Foxtrot—Fred Rich's Orchestra, "Why Can't You?" (De Sylva).
- 9.42: Hawaiian—Lizzie Alohioka and Chorus, "Nani Kauai" (Alohioka).
Foxtrot—Debory Somers' Band, "The Egg Song" (Salisbury) (01523).
Foxtrot—Harry Roser's Syncopators, "I'm Wild About Horns on Automobiles" (Gaskill) (01543).
Foxtrot—Ted Wallace and His Campus Boys, "Jericho" (Meyers).
One-step—Debroy Somers' Band, "Shinaniki Da" (Carlton) (01523).
Waltz—The Cavaliers, "Lady Divine" (Shilkret) (01543).
- 10.0 : Organ solo—Milton Charles, "Love's Old Sweet Song" (Molloy).
Foxtrot—Don Voorhees's Orchestra, "Ol' Man River" (Kern) (01406).
Foxtrot—Ted Wallace and his Campus Boys, "I've Got a Feeling I'm Falling" (Link) (01586).
Foxtrot—Don Voorhees' Orchestra, "Can't Help Lovin' Dat Man" (Kern) (01406).
Foxtrot—Andy Sannella's All Star Trio, "Perfume of Roses" (Donovan) (Regal G20493).
- 10.15: Vocal duet—Dayton and Johnson, "Carolina Moon" (Davis) (01550).

- Foxtrot—Ernie Golden's Orchestra, "She's Got Great Ideas" (Tobias).
 Foxtrot—Piccadilly Players, "I Lift Up My Finger and Say Tweet Tweet" (Sarony) (01595).
 Foxtrot—Ernie Golden's Orchestra, "That's Her Now" (Ager).
 Waltz—The Cavaliers, "Underneath the Russian Moon" (Gusman).
 10.30: Organ solos—Milton Charles, (a) "From the Land of the Sky-Blue Water"; (b) "At Dawning" (Cadman) (01161).
 Foxtrot—Ray Starita and His Ambassadors' Band, "Wake Up, Chill'up Wake Up!" (Trent) (01595).
 Foxtrot—Hal Swan's Cafe Royal Band, "Me and the Man in the Moon" (Leslie) (Regal (320492)).
 Foxtrot—Andy Sannella and His All Star Trio, "I'll See You Thru" (Kassel) (Regal G20493).
 Waltz—Eddie Thomas' Collegians, "Billie" (Henderson) (01584).
 10.45: Hawaiian—Lizzie Alohioka and Chorus, "Lili E" (Kaulia) (01282).
 Tango—Anson Weeks' Orchestra, "Senorita" (Weeks) (01584).
 Foxtrot—Paul Whiteman's Orchestra, "Get Out and Get Under the Moon" (Shay) (07001).
 Foxtrot—Corona Band, "I Faw Down an' Go Boom" (Brockman).
 Foxtrot—Paul Whiteman's Orchestra, "Evening Star" (Turk).
 Waltz—The Cavaliers, "Bye and Bye Sweetheart" (Valentine).
 Reel—O'Leary's Irish Minstrels, "Turkey in the Straw" (Regal).
 11.0 : God Save the King.

Thursday, March 27

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, MARCH 27.

- 3.0 : Afternoon session—Selected studio items by Lewis Eady Ltd., including literary selection by the Announcer.
 4.30: Close down.
 5.0 : Children's session, conducted by Peter Pan.
 6.0 : Dinner session—"H.M.V." Hour.
 Selection—Kauffman's Orchestra, "The Gipsy Baron" (Strauss).
 Waltz—La Vittoria Orchestra, "Wedding of the Winds" (Hall).
 6.12: Tacet.
 6.15: Orchestral—Piccadilly Orchestra, "If Only I Had You" (Davies); (b) "Lolita" (Ferrete) (H.M.V. B2713).
 Hawaiian—Kolomoku's Honoluluans, "Aloha-oe" (Liliuokalani).
 Orchestral—Piccadilly Orchestra, "Charmaine" (Rapee) (B2528).

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- 6.27: Tacet.
 6.30: Selection—New Mayfair Orchestra, "This Year of Grace" (Coward).
 Orchestral—Waring's Orchestra, "Ah! Sweet Mystery of Life" (Herbert) (H.M.V. EB37).
 Hawaiian—Kolomoku's Honoluluans, "Three O'Clock in the Morning" (Robledo) (Zonophone EF23).
 6.42: Tacet.
 6.45: Orchestral—Victor Concert Orchestra, "Minuet in G" (Paderewski); (b) "Amaryllis" (Thys) (H.M.V. EA240).
 Orchestral—Piccadilly Orchestra, "Bird Songs at Eventide" (Coates).
 Waltz—International Concert Orchestra, "Blue Danube" (Strauss).
 6.57: Tacet.
 7.0 : News and market reports.
 7.15: Book review—Mr. H. H. Driver.
 7.40: Talk—Mr. D. A. Turner, "A Sixteen Hundred Mile Motor Trip."
 8.0 : Chimes.
 Relay of Concert and President's Reception from Y.M.C.A.
 9.45: Programme of Dance Music.
 11.0 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, MARCH 27.

- 3.0 : Chimes. Selected studio items.
 3.30 and 4.30: Sports results.
 3.40: Lecturette—Miss Flora Cormack, "Hollywood at Home."
 4.55: Close down.
 5.0 : Children's Hour.
 6.0 : Dinner Music Session, "H.M.V."
 Instrumental—Reg King's Orchestra, "Garden in the Rain" (Gibbons); (b) "The Song I Love" (De Sylva) (H.M.V. B2903).
 Waltz—International Concert Orchestra, "Gold and Silver" (Lehar).
 Instrumental—Victor Olof Sextet, "Cherry Ripe" (Scott) (B2697).
 6.12: Tacet.
 6.15: Waltz—International Concert Orchestra, "The Spanish Dancer".
 Orchestral—Victor Concert Orchestra, "Romance" (Tschalkowsky).
 Violin—Isolde Menges, "Salut D'Amour" (Elgar) (D1313).
 6.26: Tacet.
 6.30: Instrumental—Piccadilly Orchestra, "Friend O' Mine" (Sanderson); (b) "None but the Weary Heart" (Tschalkowsky) (B2857).
 Orchestral—Orchestra and grand organ—International Concert Orchestra, "My Treasure" (Bacucci) (Zono. EF15).
 Instrumental—Victor Olof Sextet, "Minuet" (Boccherini) (B2697).
 6.42: Tacet.
 6.45: Instrumental—Jack Hylton's Orchestra, "Melodious Memories".
 Waltz—International Novelty Orchestra, "Emperor" (Strauss).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Mr. G. White, "The Culture of Chrysanthemums."
 8.0: Chimes.
 Studio Concert by Wellington City Salvation Army Band (Conductor, Mr. H. Scotney) assisted by 2YA artists.
 8.1 : March—Wellington City Salvation Army Band, "Beaumont" (Dickens).
 Selection, "In Immanuel's Praise" (Coles).
 8.16: Tenor—Mr. Chas. Williams, (a) "Rose's Lament" (Franz); (b) "In the Wood" (Franz).
 8.23: Duet—Messrs. Will Goudie and Mr. W. Binet Brown, "Two Fools" (Bennett).
 8.27: Elocution—Miss Rona Scott, "The Glory of Toil" (Proctor).
 8.34: Hymns—Wellington City Salvation Army Band, (a) "Colne" (Duckworth); "Faithful Guide" (Wells).
 8.42: Soprano—Mrs. E. F. Hollands, (a) "Dolorosa" (Phillips); (b) "The Cuckoo Clock" (Schaefer).
 8.49: Baritone—Mr. Will Goudie, (a) "Fallen Roses" (Lambert); (b) "Romany Road" (Dixon).
 8.56: Chorus—Wellington City Salvation Army Band, "All we Like Sheep have Gone Astray" from "Messiah" (Handel).
 9.2 : Weather report and announcements.
 9.4 : Bass—Mr. W. Binet Brown, (a) "Sylvia" (Speaks); (b) "Chorus Gentlemen" (Lohr).
 9.11: Light Orchestral—Albert Sandler's Orchestra, (a) "If Only I had You" (Davies); (b) "Ol' Man River" (Kern) (Col. 01409).
 9.17: Elocution—Miss Rona Scott, (a) "The Birth of an Opal" (Wilcox); (b) "Billy" (Anon.).
 9.24: Selection—Wellington City Salvation Army Band, "The Homeland" (Hawkes).
 9.36: Quartette—The Lyric, "In Silent Mead" (Emerson).
 9.40: Piano—Gil Dech, "Le Jet D'Eau" (Smith) (Col. 01719).
 9.43: Soprano—Mrs. E. F. Hollands, "Love, Here is my Heart" (Silesu).
 9.47: Part song—Wellington City Salvation Army Band, "The Long Day Closes" (Sullivan).
 9.51: Columbia Light Opera Company, Vocal gems from "The New Moon" (Romberg) (Col. 05019).
 9.59: March—Wellington City Salvation Army Band, "Shining Angels" (Hall).
 10.4: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, MARCH 27.

- 3.0 : Afternoon session—Gramophone recital.
 4.25: Sports results.

- 4.30: Close down.
 5.0: Children's hour—"Uncle Frank."
 6.0: Dinner session—"Columbia" Hour.
 Selection—Court Symphony Orchestra, "The Windmill Man" (02909).
 J. H. Squire Celeste Octet, "Scene de Ballet" (de Beriot—arrgd. Sear).
 Halle Orchestra, "Hungarian Dance No. 5 in G Minor" (Brahms).
 6.13: Tacet.
 6.15: Plaza Theatre Orchestra, "The Three Bears Fantasy" (Coates).
 J. H. Squire Celeste Octet, "A Vision for Christmastide" (Harrison).
 6.27: Tacet.
 6.30: Regimental Band of H.M. Grenadier Guards, "La Benediction des Poignards" (Meyerbeer) (02931).
 Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
 J. H. Squire Celeste Octet, "Second Movement from Symphonie Pathétique" (Tschalkowsky—arrgd. Robertson) (02937).
 Halle Orchestra, "Hungarian Dance No. 6 in D" (Brahms) (01677).
 6.43: Tacet.
 6.45: Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
 Regimental Band of H.M. Grenadier Guards, "Lo, Here the Gentle Lark" (Bishop—arrgd. Godfrey) (02931).
 Hernan Finck's Orchestra, "Christmas Memories" (arrgd. Finck).
 6.58: Tacet.
 7.0: News session.
 8.0: Chimes. Grand Opera and Classical Programme.
 8.1: Overture—Philadelphia Orchestra, "Rienzi" (Wagner) (H.M.V.).
 8.13: Aria bass—Mr. Jas. Filer, "Within These Sacred Bowers," from "The Magic Flute" (Mozart).
 8.17: Harp—Mr. Harry Glaysher, "Ah Che La Morte" ("Il Trovatore") (Verdi-Chatterton).
 8.21: Mezzo-contralto—Miss Mavis Spiller, "Romance from Faust" (Gounod).
 8.25: Aria tenor—Mr. Ernest Rogers, "On with the Motley," from "Pagliacci" (Leoncavallo).
 8.29: Piano recital with introductory comments—Mr. Sydney Francis Hoben, (a) "Golliwogs Cakewalk" (Debussy); (b) "On Wings of Song" (Mendelssohn-Liszt); (c) "March" (Wagner-Liszt).
 8.46: Aria soprano—Madame Gower Burns, "An Empress Am I" (Massenet).
 8.50: Flute—Mr. W. Hay, "Romance" (Durand).
 8.52: Recitation—Miss Winifred Smith, "Breakfast Time" (Graham).
 8.56: Duet, tenor and mezzo-soprano—Miss Mavis Spiller and Mr. Ernest Rogers, "Dear Love of Mine," from opera "Nadeshda" (Goring Thomas).
 9.0: Weather report and announcements.
 9.2: Overture—Philadelphia Symphony Orchestra, "Invitation to the Waltz" (Weber) (H.M.V. D1285).
 9.8: Bass—Mr. Jas. Filer, "The Lute Player" (Allitsen).
 Quartet—Grand Opera Quartet, "The Wandering Minstrel" (Mendelssohn).
 9.15: Harp—Mr. Harry Glaysher, "The Bells of Aberdovey" (Thomas).
 9.20: Mezzo-contralto—Miss Mavis Spiller, "Still as the Night" (Bohm).
 9.23: Waltz—International Concert Orchestra, "Merry Widow" (Lehar).
 9.27: Duet, soprano and bass—Grande Opera Duo, "O Daughter," from "Rigoletto" (Verdi).
 9.31: Tenor—Mr. Ernest Rogers, "Celeste Aida" (Verdi).
 9.35: Flute—Mr. W. Hay, "Allegretto" (Harmston).
 9.39: Soprano—Madame Gower Burns, "Songs My Mother Taught Me" (Dvorak).
 9.43: Recitation—Miss Winifred Smith, "Before and After" (Graham).
 9.48: Quartet—Grand Opera Quartet, "The Commotion of Love," from "Flora's Holiday" (Lane Wilson).
 9.52: Orchestral—de Groot Piccadilly Orchestra, "Spanish Dances Nos. 1 and 2" (Granados) (H.M.V. C1553).
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, MARCH 27.

SILENT DAY.

Friday, March 28

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, MARCH 28.

- 3.0: Afternoon session—selected studio items, including literary selection by the announcer.
 4.30: Close down.
 5.0: Children's Session, conducted by Nod and Aunt Jean.
 6.0: Dinner session, "H.M.V." Hour.
 Suite—London Symphony Orchestra, "Ozar Sultan Suite."
 Waltz—International Concert Orchestra, "Waltz Dream" (Strauss).
 6.12: Tacet.
 6.15: Suite—New Light Symphony Orchestra, "Peer Gynt Suite" (Grieg). 1. Ingrid's Lament. 2. Arabian Dance (C1571).
 New Light Symphony Orchestra, "Prelude in G Minor" (Rachmaninoff).
 6.27: Tacet.
 6.30: Suite—Peer Gynt Suite (Grieg). 1. Return of Peer Gynt; 2. Solveig's Song (C5172).
 New Light Symphony Orchestra, "Prelude in C Sharp Minor". (Zono).
 6.42: Tacet.
 6.45: Philadelphia Symphony Orchestra, "Danse Orientale" (Glazounov).
 Waltz—International Concert Orchestra, "Sari" (Kalman) (Zono).

- March—Philadelphia Symphony Orchestra, "March of the Caucasian Chief" (Ippolitoff-Iwanoff) (E521).
 6.57: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. W. E. G. Wheeler, "Esperanto".
 8.0: Chimes.
 Relay from Lewis Eady, Ltd., of latest instrumental and vocal music.
 8.30: Instrumental—The Studio Trio, (a) "To the Spring" (Grieg); (b) "Moment Musical" (Schubert).
 8.37: Tenor—Mr. Roy Dormer, "I Will Not Grieve." (Schumann).
 8.40: Pianoforte and vocal—Miss Edith Harrhy, piano, (a) "Waltz in C Sharp Minor" (Chopin); (b) "Melodie in E" (Rachmaninoff).
 Songs: (a) "There is a Fair Isle" (Harrhy); (b) "Mother's Song" (Harrhy); (c) "Roses for the King" (Harrhy).
 9.0: Evening forecast and announcements.
 9.2: Violin—Miss Ina Bosworth, (a) "Reverie" (Harrhy); (b) "Samoan Lullaby" (Boyd).
 9.7: Instrumental—The Studio Trio, (a) "Why" (Schumann); (b) "Romance" (Schumann).
 9.11: Tenor—Mr. Roy Dormer, (a) "She is Far from the Land" (Lambert); (b) "I Know of Two Bright Eyes" (Clutsam).
 9.17: Overture—New Symphony Orchestra, "Children's Overture" Part 1 and 2 (Quilter) (H.M.V. B2860).
 9.25: Pianoforte and vocal—Miss Edith Harrhy, piano: (a) "Nocturne in E Minor" (Chopin); (b) "Waltz in E Major" (Chopin). Songs: (a) "You" (Harrhy); (b) "Mary Magdalene" (Harrhy); (c) "Colette" (Harrhy).
 9.45: Instrumental—The Studio Trio, "Vienna Life" (Strauss).
 9.53: Orchestral—New Symphony Orchestra, "Children's Overture" Part 3 and 4 (Quilter) (H.M.V. B2861).
 10.1: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, MARCH 28.

- 3.0: Chimes. Selected studio items.
 3.30 and 4.30: Sports results.
 4.55: Close down.
 5.0: Children's session.
 6.0: Dinner music session—"Parlophone" Hour.
 Selection—Edith Lorand Orchestra, "La Boheme" (Puccini).
 Waltz—Edith Lorand Orchestra, "La Serenade" (Metra) (E10522).
 Violin—Tossy Spiwakowsky, "Turkish March" (Beethoven) (A2561).
 6.12: Tacet.
 6.15: Waltz—Edith Lorand Orchestra, "Venetian Barcarolle" (Leoncavallo).
 Trio—Dajos Bela Trio, (a) "Traumerei" (Schumann); (b) "Chant D'Automne" (Tschalkowsky) (E10573).
 'Cello—Gregor Piatigorsky, "The Swan" (Saint Saens) (A2628).
 6.28: Tacet.
 6.30: Fantasia—Dajos Bela Orchestra, "La Traviata" (Verdi) (A4027).
 Walzes—Royal Music Makers, (a) "Kiss Me Again" (Herbert); (b) "Oh, Sweet Mystery of Life" (Herbert) (A2722).
 6.44: Tacet.
 6.45: Suite—Paris Opera Comique Orchestra, "Ballet Egyptian" (Luigini).
 6.57: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Member of the Wellington Stock Exchange, "The Stock Exchange the World's Financial Barometer."
 8.0: Chimes.
 8.1: Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Morning, Noon and Night" (Suppe).
 8.9: Soprano—Miss Myra Sawyer, "The Shadow Song," from "Dinorah" (Meyerbeer).
 8.13: Pianoforte duet—Misses Milly Cook and Molly Withers, "The Caliph of Baghdad" (Boieldieu).
 8.20: Baritone—Mr. William Boardman, "The Porter's Song," from "Martha" (Flotow).
 8.24: Humour—Mr. and Mrs. Albert Russell, "That's How I Like 'Em" (Weston); song, "My Moon" (Pallissier); duet, "All the Year Round" (Watson).
 8.36: Fantasia—2YA Orchestra, "A Midsummer Night's Dream" (Mendelssohn).
 8.44: Contralto—Miss Mary Bald, "Rose Softly Blooming" (Spohr).
 8.48: Duet—Miss Myra Sawyer and Mr. William Boardman, "The Manly Heart," from "Magic Flute" (Mozart).
 8.52: Tenor—Mr. E. W. Robbins, recitation and aria, "Let Me Gaze," "Be Mine the Delight," from "Faust" (Gounod).
 8.56: Musical comedy selection—2YA Orchestra, "The Student Prince" (Romberg).
 9.4: Weather report and announcements.
 9.6: Soprano—Miss Myra Sawyer, "As Thro' the Street," from "La Boheme" (Puccini).
 9.10: Band—Band of H.M. Coldstream Guards, (a) "Belle of New York" (Kerker); (b) "The Geisha" (Jones) (H.M.V. C1703).
 9.18: Baritone—Mr. William Boardman, "A Bachelor Gay," from "Maid of the Mountains" (Fraser-Simson).
 9.22: Selection—2YA Orchestra, "On with the Dance" (Coward).
 9.30: Humour—Mr. and Mrs. Albert Russell, "Why Did I?" (Henderson).
 Duet—"The Merry Miller" (de Koven).
 9.36: Wurlitzer organ—Jesse Crawford, (a) "Serenade," from "Student Prince" (Romberg); (b) "Indian Love Call," from "Rose Marie" (Friml) (H.M.V. EA638).

- 9.42: Contralto—Miss Mary Bald, "Lorraine, Lorraine, Loree" (Spross).
 9.46: Duet—Winnie Melville and Derek Oldham, (a) "Trot Here and There"; (b) "The Swing Song," from "Veronique" (Messager) (H.M.V.).
 9.52: Tenor—Mr. E. W. Robbins, "The Flower Song," from "Carmen" (Bizet).
 9.56: Selection—2YA Orchestrina, "Intermezzo Russo" (Franke).
 10.4 : Close down.
 Note.—This programme will be interrupted to permit of a relay of a talkie feature from the Majestic Theatre.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, MARCH 23.

- 3.0 : Afternoon Session Gramophone Recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's session, conducted by Aunt Pat.
 6.0 : Dinner session, "H.M.V." Hour.
 March—American Legion Band, "The Conqueror" (Teike).
 Selection—Savoy Orpheans, "Lido Lady" (Rodgers) (C1810).
 6.12: Tacet.
 6.15: New Light Symphony Orchestra, "Rustic Wedding Symphony" (Goldmark) (C1210).
 Victor Olof Sextet, "To a Water Lily" (Macdowell) (B2690).
 New Light Symphony Orchestra, "Spanish Dance" (Moszkowski).
 Wurlitzer organ—Reginald Foort, "Just Like a Darby and Joan" (Gilbert) (B2775).
 6.28: Tacet.
 6.30: Jack Hylton's Orchestra, "The Selfish Giant" (Coates) (C1253).
 Victor Olof Sextet, (a) "To a Wild Rose"; (b) "In Autumn" (Macdowell) (B260).
 Violin and Wurlitzer Organ—De Groot and Terence Casey, "Parted" (Tosti) (B2920).
 6.44: Tacet.
 6.45: Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli).
 Wurlitzer organ—Reginald Foort, "Love Lies" (Kellard) (B2775).
 March—American Legion Band, "Iowa Corn Song" (arrgd. Beeston).
 6.58: Tacet.
 7.0 : News session.
 8.0 : Chimes.
 Popular and dance programme.
 8.1 : Instrumental—Christchurch Broadcasting Trio, (a) "Waltz" (Carse); (b) "Serenade" (Liebe).
 8.10: Quartet—Valencia Quartet, "Will O' the Wisp" (Cherry).
 Soprano—Miss Lucy Fullwood, "A Heart That's Free" (Robyn).
 8.16: Violin—Miss Irene Morris, "Swing Song" (Ethel Barnes).
 8.20: Tenor—Mr. T. G. Rogers, "The Trumpeter" (Dix).
 Contralto—Miss Mary Taylor, "My Ships" (Barratt).
 8.27: Concertina and Ocarina—Mr. John Campbell, "Popular Melodies" (M.S.).
 8.33: Baritone—Mr. E. J. Johnson, "The Yeoman's Wedding Song" (Poniatowski).
 Quartet—Valencia Quartet, "Sally in Our Alley" (Carey).
 8.40: Instrumental—Christchurch Broadcasting Trio, (a) "Syncopation" (Kreisler); (b) "Viennese March" (Kreisler); (c) "Petit Bolero" (Ravina).
 8.50: Tenor—Mr. T. G. Rogers, "The Blue Alsation Mountains" (Adams).
 Contralto—Miss Mary Taylor, "In an Old-Fashioned Town" (Squire).
 8.56: Violin—Miss Irene Morris, "Serenade" (Ethel Barnes).
 9.0 : Weather Report and Announcements.
 9.2 : Scottish soprano—Miss Lucy Fullwood, "Comin' Thro' the Rye" (Miller).
 9.6 : Baritone—Mr. E. J. Johnson, "The Song of the Waggoner" (Breville Smith).
 9.10: Concertina and Ocarina—Mr. John Campbell, "Melodies of Popular Songs" (M.S.).
 9.18: Duet tenor and soprano—Valencia Duo, "Somewhere a Voice is Calling" (Tate).
 9.22: Piano jazz improvisations—Miss Merle Miller, "Rambling Over the Ivories" (Own arrangement).
 9.26: Quartet—Valencia Quartet, "O Dear, What Can the Weather Be" (Traditional).
 9.30: Dance music until 11 p.m.—Brunswick.
 Foxtrot with vocal chorus—Hal Kemp's Orchestra, "You Wouldn't Fool Me Would You?" (De Sylva) (4212).
 Foxtrot—Harold Stern's Orchestra, "From Sunrise to Sunset" (Miller).
 Foxtrot—Hal Kemp's Orchestra, "My Lucky Star" (De Sylva).
 Foxtrot—Arnold Johnson's Orchestra, "Tear Drops" (Davis) (4251).
 9.42: Comedienne with orchestra—Zelma O'Neal, "Button up Your Overcoat" (De Sylva) (4207).
 Foxtrot, with vocal chorus—Eight Radio Stars, "My Annapolis" (Weinberg) (4272).
 Foxtrot—Colonial Club Orchestra, "Hittin' the Ceiling" (Gottler).
 Waltz—with vocal chorus—Eight Radio Stars, "I Found Happiness" (Rapee) (4272).
 Waltz—Ray Miller's Orchestra, "My Angeline" (Wayne) (4233).
 9.57: Old-time Orchestra—Al Hopkin's Buckle Busters, "Polka Medley" (Lind) (321).
 Foxtrot with vocal chorus—Red Nicholls and Five Pennies, "On the Alamo" (Kahn) (4363).
 Foxtrot with vocal chorus—Ray Miller's Orchestra, "Cradle of Love" (Wayne) (4233).
 Foxtrot with vocal chorus—Hotel Ten Eyck Whispering Orchestra, "Then We Canoe-De-Oodle" (Woods) (Brunswick 4372).

- Foxtrot with vocal chorus—Al Goodman's Orchestra, "I'm Still Car-ing" (Vallee) (4362).
 10.12: Vocal solo with novelty accompaniment—Frank Luther, "Peg-Lee Jack" (Robison) (4371).
 Foxtrot with vocal chorus—Hotel Ten Eyck Whispering Orchestra, "Jericho" (Robin) (4372).
 Foxtrot with vocal chorus—Al Goodman's Orchestra, "I'm Just a Vagabond Lover" (Vallee) (4362).
 Waltz with vocal chorus—Regent Club Orchestra, "Sleepy Valley" (Sterling) (4370).
 10.24: Old-time orchestra—Al Hopkins' Buckle Busters, "Marosovia Waltz" (Belcher) (321).
 Organ solo with vibraphone—Lew White, "Mean to Me" (Turk) (4361).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Sing a Little Love Song" (Gottler) (4349).
 Foxtrot with vocal chorus—Roy Ingraham's Orchestra, "That's Living" (Ryan) (4366).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "There's a Four Leaf Clover in My Pocket" (Colwell) (4247).
 10.39: Vocal solo with novelty accompaniment—Frank Luther, "Barnacle Bill, the Sailor" (Robison) (4371).
 Foxtrot with vocal chorus—Six Jumping Jacks, "O! Baby, What a Night" (Brown) (4351).
 Waltz—Regent Club Orchestra, "My Dear" (Kahn) (4370).
 Waltz—Castlewood Marimba Band, "Wonderful You" (Medkiss).
 10.51: Organ solo—Lew White, "Deep Night" (Henderson) (4361).
 Foxtrot with vocal chorus—Colonial Club Orchestra, "Oh! What a Night to Love" (Herbert) (4247).
 Waltz—Regent Club Orchestra, "Evangeline" (Rose) (4379).
 11.0 : God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, MARCH 23.

- 3.0 : Chimes. Selected gramophone items.
 3.15: Talk—Miss Buccleugh, "Fashions."
 4.25: Sports results.
 5.0 : Children's Hour, conducted by Aunt Sheila.
 6.0 : Dinner music "H.M.V." Hour.
 Overture—National Symphony Orchestra, "Orpheus in Hades" (Offenbach) (Zono. EF16).
 Instrumental—San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler) (H.M.V. D1272).
 6.12: Tacet.
 6.15: Instrumental—New Light Symphony Orchestra, (a) "Spring Song" (Mendelssohn); (b) "Narcissus" (Nevin) (Zono. EF111).
 Instrumental—San Francisco Symphony Orchestra, "Coppelia Ballet" (Delibes) (D2172).
 Violin—Fritz Kreisler, "Tango Albeniz" (arrgd. Kreisler) (DA1009).
 6.28: Tacet.
 6.30: Instrumental—Philadelphia Symphony Orchestra, "Invitation to the Waltz" (Weber) (D1285).
 Instrumental—San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski); (b) "Oriental" (Auber) (ED6).
 6.42: Tacet.
 6.45: Orchestral—San Francisco Symphony Orchestra, "Valse de Concert" (Glazounov) (D1492).
 Instrumental—San Francisco Symphony Orchestra, "Liebeslied" (Kreisler) (ED6).
 6.57: Tacet.
 7.0 : News session.
 8.0 : Chimes. Salon Orchestra, under direction of Mr. A. H. Pettitt.
 Two-step—"Horse Marines" (Allan); (b) "Land of Hope and Glory" (Elgar).
 8.9 : Baritone—Mr. Noel H. North, (a) "O Flower of all the World" (Woodford-Finden); (b) "Obstination" (Fontenailles).
 8.13: String Quartet—Virtuoso String Quartet, "Mignon" (Thomas).
 8.17: Recital—Mr. D. E. Dall, "The Secret People" (Chesterton).
 8.22: Suite—Salon Orchestra, "My Lady Dragonfly" (Finck). 1—"The Call of the Sun"; 2—"The Bull-frog's Shadow"; 3—"Dance of the Silver Pool"; 4—"Golden Days"; 5—"The Love Spell"; 6—"The Last Dance of Summer."
 8.39: Soprano—Miss Evelyn Shepard, "Carissima" (Penn).
 8.42: Piano—Mrs. C. Drake, "Invitation to the Waltz" (Weber).
 8.47: Tenor—Mr. George Crawford, "When Shadows Gather" (Marshall).
 8.50: Suite—Salon Orchestra, "Nautical Scenes" (Fletcher). 1—All Aboard; 2—Sentimental Shanty; 3—Forecastle Frolics.
 9.0 : Weather report and announcements.
 9.2 : Male chorus—"War Songs" (H.M.V. EB25).
 9.6 : Baritone—Mr. Noel H. North, "The Trumpets Shall Sound" (Handel).
 9.10: Overture—Salon Orchestra "Tancredi" (Rossini).
 9.18: Recitals—Mr. D. E. Dall, (a) "Old Farmer Gray Gets Photographed" (Yates); (b) "The Heathen Chinese" (Harte).
 9.24: String Quartet—Virtuoso String Quartet, "Orientale" (Glazounov).
 9.28: Male chorus—"Sea Songs" (H.M.V. EB25).
 9.32: Fantasia Salon Orchestra, "Water Melon Patch" (Bidgood).
 9.40: Soprano—Miss Evelyn Shepard, (a) "The Nightingale" (Phillips); (b) "Still as the Night" (Bohm).
 9.46: Flute and clarinet duet—Messrs. Kenderdine and George, "Lo, Here the Gentle Lark" (Bishop).
 9.50: Tenor—Mr. George Crawford, (a) "June's First Rose" (Coates); (b) "The Meeting of the Waters" (Traditional).

- 9.56: Waltz—Salon Orchestra, "The Skaters" (Waldteufel).
 10.2 : God Save the King.

Saturday, March 29

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, MARCH 29.

- 8.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
 4.30: Close down.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner session—"H.M.V." Hour.
 Piccadilly Orchestra, (a) "My Beloved Gondalier" (Tibor); (b) "Souvenir Di Capri" (Bece) (B2575).
 New Light Symphony Orchestra, "Just a Memory" (de Sylva).
 Violin and kinema organ—Elsie Southgate, "I Hear You Calling Me" (Marshall) (Zonophone 5109).
 6.12: Tacet.
 6.15: Waltzes—Marek Weber's Orchestra, "Pot-pourri of Waltzes" (Robrecht) (C1544).
 Waltz—Hilo Hawaiian Orchestra, "Sweet Hawaiian Dream Girl" (Williams) (Zonophone EE156).
 6.26: Tacet.
 6.30: New Light Symphony Orchestra, "Scene de Ballet Marionettes" (Glazounov) (B2754).
 Violin and kinema organ—Elsie Southgate, "Rose in the Bud" (Tate).
 New Light Symphony Orchestra, "Persiflage" (Francis) (B2754).
 Jack Hylton's Orchestra, "When the White Elder-Tree Bloom Again" (Doelle) (C1616).
 6.44: Tacet.
 6.45: Salon Orchestra, "My Blue Heaven" (Whiting) (EB18).
 Waltz—Hilo Hawaiian Orchestra, "Sleepy Honolulu Town" (Earl).
 Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin).
 6.56: Tacet.
 7.0 : News and market reports.
 8.0 : Chimes.
 Overture—1YA Orchestral Octet, under the conductorship of Mr. Eric Waters, "Son and Stranger" (Myddleton).
 8.9 : Elocution—Miss R. Speed, (a) "He Didn't Ought" (Anon.); (b) "If This Is Life" (Anon.).
 8.16: Band—Royal Air Force, "Naila" (Delibes) (Columbia G20442).
 8.20: Instrumental and vocal—The Sunshine Duo, (a) "Blue Ridge Mountain Home" (Robinson); (b) "The Little Green Valley" (Delhart).
 8.28: Selection—1YA Orchestral Octet, "Romeo and Juliet" (Gounod).
 8.37: Humorist—Mr. Owen Pritchard, "Phanciphulphun" (own arrgt.).
 8.48: Hawaiian—Silver String Quartet, "Honolulu March" (Traditional).
 8.46: Mezzo-soprano—Mrs. A. Rattray, "Thanks Be To God" (Dickson).
 8.50: Waltz—1YA Orchestral Octet, (a) "Painting Pretty Pictures" (Weddell); (b) "Chloe" (Kahn).
 9.0 : Evening forecast and announcements.
 9.2 : Band—Royal Air Force, "The Whistler and His Dog" (Pryor).
 9.6 : Elocution—Miss R. Speed, "Singers and Talkers" (Kent).
 9.10: Hawaiian—Silver String Quartet, "Kawaihau Waltz" (Traditional).
 9.13: Instrumental and vocal—The Sunshine Duo, (a) "Sing On, Brother, Sing" (Robinson); (b) "Medley of Popular Foxtrot Hits" (own arrangement).
 9.21: Wurlitzer organ—Milton Charles, "Sonny Boy" (Jolson, de Sylva, Brown, Henderson) (Columbia 01363).
 9.24: Mezzo-soprano—Mrs. A. Rattray, (a) "We'd Better Bide a Wee" (Claribel); (b) "The Hundred Pipers" (Lady Nairn).
 9.31: Selection—1YA Orchestral Octet, "Pelerinage" (Franceschi).
 9.36: Humorist—Mr. Owen Pritchard, "More Phanciphulphun" (own arrgt.).
 9.43: Wurlitzer organ—Milton Charles, "There's a Rainbow Round My Shoulder" (Jolson-Rose-Dryer) (Columbia 01363).
 9.46: Selection—1YA Orchestral Octet, "Queen High" (Gensler).
 9.56: Salophone—Rudy Wiedoeft, "Melodie" (Tschalkowsky) (Col. 01472).
 9.59: Programme of dance music—"H.M.V." Hour.
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "Because I Know You're Mine" (Derickson) (EA515).
 Foxtrot—Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin) (EA519).
 10.9 : Banjo solo—Mario de Pietro, "Frivolous Joe" (de Pietro) (H.M.V.).
 Foxtrot—Nat Shilkret's Orchestra, "I Want a Daddy to Cuddle Me" (Ebie) (EA515).
 Foxtrot—Waring's Pennsylvanians, "That's How I Feel About You" (Davis) (EA516).
 Waltz—Jean Golkette's Orchestra, "Can You Blame Me?" (Goodwin).
 10.21: Baritone—Noel Coward, "Lorelei" (Coward) (H.M.V. B2737).
 Foxtrot—New Mayfair Dance Orchestra, "The Egg Song" (Salisbury).
 Foxtrot with vocal refrain—George Olsen and His Music, "In a Little Town Called Home, Sweet Home" (Donaldson) (EA516).
 Tango—Rio Grande Band, "The Tle Trot" (Penso) (EA517).
 10.38: Comedian—Frank Crumit, "The Road to Vickburg" (Crumit) (EA524).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "Broadway Melody" (Freed) (EA525).
 Foxtrot—Waring's Pennsylvanians, "My Castle in Spain" (Caesar).
 10.42: Mandoline—Mario de Pietro, "Concert Mazurka" (Calace) (B2820).
 Foxtrot with vocal refrain—Nat Shilkret's Orchestra, "You Were Meant for Me" (Freed) (H.M.V. EA525).

Foxtrot—George Olsen's Music, "Makin' Whoopee?" (Kahn).

- 10.51: Comedian—Frank Crumit, "The King of Borneo" (Crumit) (EA524).
 Foxtrot with vocal refrain—George Olsen's Music, "Until You Get Somebody Else" (Kahn) (EA498).
 Waltz with vocal refrain—Rudy Vallee and His Connecticut Yankees, "Sweet Suzanne" (Leslie) (EA523).
 11.0 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, MARCH 29.

- 3.0 : Chimes. Selected Studio items.
 3.30 and 4.30: Sports results.
 4.55: Close down.
 5.0 : Children's Session.
 6.0 : Dinner Music Session, "Columbia" Hour.
 March—National Military Band, "National Emblem" (Bagley) (01153).
 Cello—W. H. Squire, "The Broken Melody" (Van Blene) (04180).
 Albert Sandler's Orchestra, "I Kiss Your Hand Madame" (Erwin).
 Kinema organ—G. T. Pattman, "Cherie Waltz" (Valentine) (01344).
 6.12: Tacet.
 6.15: Court Symphony Orchestra, "The Gondollers" (Sullivan) (979).
 Paul Whiteman's Orchestra, "Gypsy" (Gilbert) (07505).
 6.26: Tacet.
 6.30: Albert Sandler's Orchestra, "Chalita" (Schertzing) (01467).
 Padilla's Marimba Serenaders, "Paree" (Padilla) (Regal G20344).
 Piano—Gil Dech, "Sometimes I'm Happy" (Youmans) (01205).
 Royal Serbian Tambouritzza Orchestra, "Serbian Melody" (01490).
 6.42: Tacet.
 6.45: Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadow" (Ketelbey).
 Rio Marimba Serenaders—"Dolores Waltz" (Waldteufel).
 Organ—G. T. Pattman, "Worryin' Waltz" (Fairman) (01344).
 March—National Military Band, "Stars and Stripes" (Sousa) (01153).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Mr. F. Bird, "Treatment and Care of the Feet."
 8.0 : Chimes.
 8.1 : Overture—2YA Salon Orchestra, (Conductor Mr. Mat Dixon) "Three Irish Dances" (Ansell).
 8.9 : Quartet—Melodie Four, "The Glow Worm" (Lincke).
 8.13: Tenor—Mr. Frank Bryant, "I Love to Hear You Singing" (Haydn Wood).
 8.17: Hawaiian Instrumental—Golden Hula Quartet—(a) "Adelia" (Spurin); (b) "On the Beach at Wakikik" (Kallimi).
 8.24: Popular song—Len Maurice, "You've Got Me Pickin' Petals off Daisies" (De Sylva, Brown and Henderson) (Columbia 01806).
 Humour—Mr. A. C. Hannon, "Advertisements" (Spry).
 8.34: Instrumental—2YA Salon Orchestra, "Sullivan's Songs" (Henley).
 8.42: Bass—Mr. W. W. Marshall, "A Thousand Leagues Under the Sea" (Petrie).
 8.46: Soprano—Miss Gwen Lafferty of Levin, "Annie Laurie" (trdtl.).
 8.50: Quartet—Melodie Four, request item.
 8.54: Instrumental—2YA Salon Orchestra, request item.
 9.2 : Weather report and announcements.
 9.4 : Baritone—Mr. R. S. Allwright, "The Irish Orchestra" (Till).
 9.8 : Vocal with orchestra, The Variety Singers, "An Old Time Music Hall."
 9.16: Hawaiian Instrumental—Golden Hula Quartet—(a) "Hula" (trdtl.); (b) "Maori Canoe Song" (arrgd. Piripate).
 9.23: Humour—Mr. A. C. Hannon, "Can't You See I'm Thinking" (Pether).
 9.30: Musical Comedy Selection—2YA Salon Orchestra, "Peggy Ann" (Rodgers).
 9.38: Tenor—Mr. Sam Duncan, "When Other Lips" from the "Bohemian Girl" (Balfé).
 9.42: Wurlitzer organ—Joseph Wayne, (a) "Mean To Me" (Turk-Ahlert); (b) "Kiss Me Again" (Blossom-Hubert) (Columbia 01726).
 9.48: Soprano—Miss Gwen Lafferty of Levin, "Was it a Dream" (Berlin).
 9.52: Quartet—Melodie Four, "In the Shadows" (Finck).
 9.56: Instrumental—2YA Salon Orchestra, "Dance Novelties."
 10.5 : Dance programme, "H.M.V." Hour.
 Foxtrot—Waring's Pennsylvanians, "Won't You Tell Me, Hon" (Lewis).
 Foxtrot—Rio Grande Band, "Dites Moi Ma Mere" (Yvain).
 Foxtrot—Rudy Vallee and His Connecticut Yankees, "The Album of My Dreams" (Davis-Arluck) (EA629).
 Foxtrot—Rio Grande Band, "Valentine" (Christine) (B5701).
 10.12: Vocal—Maurice Elwin, "I've Never Seen a Smile Like Yours" (Johnson) (Zonophone EE172).
 Foxtrot—Irving Aaronson and His Commanders, "Outside" (Flynn).
 Foxtrot—George Olsen and His Music, "I'm in Seventh Heaven" (De Sylva) (EA588).
 Foxtrot—Rudy Vallee and His Connecticut Yankees, "Me Queres?" (Vallee) (EA620).
 Waltz—The Troubadours, "One Kiss" (Romberg) (EA632).
 Waltz—Nat Shilkret and His Orchestra, "Let Me Have My Dreams" (Clarke, Akst) (EA627).
 10.30: Humorous Duet—Dora Maughan and Walter Fehl, "A Woman Who Knows" (Ruskin) (B3011).
 Foxtrot—George Olsen and His Music, "Little Pal" (De Sylva).
 Foxtrot—Jack Hylton and His Orchestra, "Everybody Loves You" (Dubin, Little) (B5651).
 Foxtrot—Nat Shilkret and His Orchestra, "Softly as in a Morning Sunrise" (Romberg) (EA632).
 Foxtrot—Nat Shilkret and His Orchestra, "Am I Blue?" (Clarke, Akst).

- 10.45: Vocal—Paul Oliver, "Evangeline" (Rose, Jolson) (Zonophone EE172).
 Foxtrot—Rudy Vallee and His Connecticut Yankees, "Perhaps" (Razaf) (EA629).
 Foxtrot—Rudy Vallee and His Connecticut Yankees, "On the Alamo" (Kahn) (EA620).
 Waltz—Jack Hylton and His Orchestra, "Let Me Dream in Your Arms Again" (Nicholls) (B5096).
 11.0 : Sporting summary.
 11.10: God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, MARCH 29.

- 3.0 : Afternoon session—Gramophone recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's session—"Aunt Pat."
 6.0 : Dinner session—"Parlophone" Hour.
 Selection—Edith Lorand Orchestra, "The Vagabond King" (Friml).
 Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss) (A4010).
 6.12: Tacet.
 6.15: Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton).
 Orchestral—Dajos Bela Orchestra, "O Sole Mio" (arrgd. Lindeman).
 Wurlitzer organ—Leslie Garvey, "Absent" (Metcalfe) (A2728).
 6.20: Tacet.
 6.30: Walzes—Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art" (Lincke); (b) "Songs D'Amour Apre Le Bal" (Czibulka).
 Instrumental—Dajos Bela Orchestra, "Humoresque" (Dvorak).
 6.42: Tacet.
 6.45: Dance Orchestra—Dorsey Bros.' Orchestra, "Was it a Dream?" (Coslow) (A2567).
 Wurlitzer organ—Lewlie Harvey, "Until" (Sanderson) (A2728).
 Waltz—Dajos Bela Orchestra, "Faust" (Gounod) (A4011).
 6.55: Tacet.
 7.0 : News session.
 7.30: Sports results.
 8.0 : Chimes. Vaudeville and dance programme.
 8.1 : Instrumental—Studio Instrumental Octet (Conductor, Mr. H. Beck), (a) "Melodie" (Friml); (b) "Vanity" (Jackson).
 8.10: Baritone—Mr. Leslie Fleming, "Funiculi Funicula" (Denza).
 8.14: Instrumental—Rio Marimba Orchestra, "My Isle of Golden Dreams" (Blautuss) (Columbia 02685).
 8.18: Twenty minutes of vaudeville and humour—The Chatterboxes in Mirth and Melody.
 8.38: Instrumental—Studio Instrumental Octet, (a) "Autumn Phantasy" (Leonard G. Booth); (b) "Scottish Tunes" (arrgd. Carse).
 8.47: Tenor—Mr. Charles R. Williamson, "Loves Garden of Roses" (Haydn-Wood).
 8.51: Male quartets—(1) Tisk University Singers, "Ezekiel Say the Wheel" (Traditional) (Regal G20421).
 Male quartet—(2) Sheffield Male Voice Choir, "There is a Tavern in the Town" (Terry) (Columbia 01175).
 8.59: Weather report and announcements.
 9.1 : Instrumental—Studio Instrumental Octet, "Borrowed Plumes" (showing the practice of borrowing old melodies for jazz versions, with introductory remarks), by Mr. Harold Beck, and illustrated by Studio Instrumental Octet, in excerpts from the following: (a) "William Tell" (Rossini); (b) "I Dreamt that I Dwelt in Marble Halls" ("Bohemian Girl") (Balfe); (c) "The Quilting Party" (MS.); (d) "Yes, We Have No Bananas" (Suvla Cohen).
 9.16: Baritone—Mr. Leslie Fleming, (a) "Pleading" (Elgar); (b) "A Dinner Courtship" (Eric Coates).
 9.22: Instrumental—Rio Marimba Orchestra, "Three O'Clock in the Morning" (Robledo) (Columbia 02685).
 9.28: Twenty minutes of vaudeville—"The Chatterboxes in Mirth and Melody."
 9.48: Xylophone and orchestra—Victor Sterling, "Colonel-Bogey March" (Alford) (Regal G20103).
 9.51: Tenor—Mr. Charles R. Williamson, (a) "Believe Me If All Those Endearing Young Charms" (Irish Traditional); (b) "Mignonette" (Harris).
 9.58: Instrumental—Studio Instrumental Octet, (a) "Legende" (Friml); (b) "Indian Dawn" Foxtrot (Zamecnik).
 Dance programme until 11 p.m.—"H.M.V." Hour.
 Foxtrot—Connecticut Yankees, "Where Are You, Dream Girl?" (Davis).
 Foxtrot—Ted Weem's Orchestra, "Here We Are" (Warren) (EA602).
 Foxtrot—Connecticut Yankees, "Pretending" (Porter) (EA605).
 Foxtrot—Ted Weem's Orchestra, "Piccolo Pete" (Baxter) (EA602).
 10.12: Vocal duet—Gladys Rice and Franklyn Baur, "You're the Cream in My Coffee" (de Sylva) (EA616).
 Foxtrot—Gus Arnheim's Orchestra, "Now I'm in Love" (Shapiro).
 Foxtrot—Jack Hylton's Orchestra, "Ever So Goosey" (Butler).
 Foxtrot—Ted Weem's Orchestra, "Am I a Passing Fancy" (Silver).
 Waltz—Connecticut Yankees, "Underneath the Russian Moon" (Kandis).
 Waltz—Hilo Hawaiian Orchestra, "Sparkling Waters of Waikiki" (Davis) (EA574).
 10.30: Tenor—Morton Downey, "The World is Yours and Mine" (Green).
 Foxtrot—Ted Weem's Orchestra, "What a Day;" (Woods) (EA606).
 Foxtrot—Connecticut Yankees, "The One That I Love Loves Me" (Turk) (EA565).
 Foxtrot—Coon Sander's Orchestra, "The Flipperty Flop" (Coslow).
 10.43: Vocal duet—Billy Murray and Walter Scanlon, "Oh, Baby, What a Night" (Brown) (EA613).

- Foxtrot—Gus Arnheim's Orchestra, "This is Heaven" (Yellen).
 Foxtrot—Gus Arnheim's Orchestra, "One Sweet Kiss" (Jolson).
 Foxtrot—Park Central Orchestra, "Tru Blue Lou" (Robin) (EA613).
 Waltz—Gus Arnheim's Orchestra, "Sleepy Valley" (Sterling) (EA555).
 11.0 : God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, MARCH 29.

- 3.0 : Town Hall chimes.
 Selected gramophone items.
 4.25: Sporting results.
 4.30: Close down.
 5.0 : Children's Hour, conducted by Aunt Anita.
 6.0 : Dinner music, "Columbia" Hour.
 Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder Medley" (Lauder) 02750).
 Waltz—Symphony Orchestra, "Doctrinen" (Strauss) (02529).
 6.12: Tacet.
 6.15: Piano—Gil Dech, "Wedding of the Painted Doll" (Freed) (01549).
 Piano—Constance Mering, "So Dear" (Caesar) (01224).
 Waltz medley—Eddie Thomas's Collegians (02904).
 Saxophone—Rudy Wiedoeft, "Minuet" (Beethoven) (01176).
 6.28: Tacet.
 6.30: Mandoline Band—Circolo Mandolinistico, "La Traviata Prelude Acts 1 and 4" (Verdi) (02566).
 Waltz—Symphony Orchestra, "When the Lemons Bloom" (Strauss).
 6.42: Tacet.
 6.45: Musical Art Quartet—"Mighty Lak' a Rose" (Nevin) (01506).
 Saxophone—Rudy Wiedoeft, "Valse Mazanetta" (Wiedoeft) (01176).
 Piano—Gil Dech, "I Kiss Your Hand, Madame" (Erwin) (01549).
 Eddie Thomas's Collegians, "Beautiful Ohio" (Earl) (02904).
 6.57: Tacet.
 7.0 : News session.
 8.0 : Special programme presenting an account of the voyage and wreck of the ship "Surat," 1873, with descriptive items, told by one of the survivors, Mr. A. Ellis.
 Instrumental—Hornpipe (trdtl.).
 8.4 : Choruses—The Company, "Sea Shanties" (arrgd. Terry).
 8.14: Talk—Mr. A. Ellis, an account of the voyage and wreck of "Surat" on December 31, 1873, near the spot where s.s. "Manuka" became a total loss a few months ago.
 8.25: Solo and Chorus, The Company, "Blow the Man Down" (arrgd. Terry).
 Talk—Mr. A. Ellis (continued).
 8.30: Chorus—The Company, "A Little Ship was on the Sea" (trdtl.).
 Talk—Mr. A. Ellis (continued).
 8.37: Solo and Chorus—The Company, "Shenandoah" (arrgd. Terry).
 Talk—Mr. A. Ellis (continued).
 8.45: Concert on board "Surat." The company and Mr. Carroll, Mr. Bruce Gladwin, Mrs. H. Magon, Miss Muriel Riby, Mr. Bert Proctor, Miss Bertha Rawlinson, Mr. Bert Rawlinson, Mr. Les. Ireland, assisted by violin solos, etc.
 9.0 : Weather report.
 9.2: "Concert on board ship"—continued.
 9.20: Talk—Mr. A. Ellis (continued).
 Selection—Squire Celeste Octet, "Vision of Christmas-tide" (Harrison).
 9.32: Chorus—The Company, "O God Our Help in Ages Past."
 9.36: Talk—Mr. A. Ellis, (continued).
 9.46: Solo and chorus—The Company, "Will Ye No Come Back Again."
 9.56: March—Grenadier Guards, "Dunedin" (Alford) (Columbia 01535).
 10.0 : Dance session, "Brunswick" Hour.
 Waltz, with vocal chorus—Regent Club Orchestra, "Marie" (Berlin).
 Foxtrot, with vocal chorus—Hotel Roosevelt Orchestra, "I Kiss Your Hand, Madame" (Lewis, Young) (4315).
 Waltz—Regent Club Orchestra, "Where is the Song of Songs for Me?" (Berlin) (4257).
 Foxtrot, with vocal chorus—Hotel Roosevelt Orchestra, "I've Got a Feeling I'm Falling" (Rose, Link) (4315).
 10.13: Baritone—John Charles Thomas, "Rolling Down to Rio" (Kipling-German) (15200).
 Foxtrot—Gerunovich's Roof Garden Orchestra, "Stairway of Dreams" (Stone) (4277).
 Foxtrot—Gerunovich's Garden Orchestra "That's the Good Old Sunny South" (Ager) (4277).
 Foxtrot—Hotel Roosevelt Orchestra, "I'll Tell the World" (Turk).
 Waltz, with vocal chorus—Hotel Roosevelt Orchestra, "Sweet Suzanne" (Leslie Gilbert) (4253).
 10.29: Vocal solo—Bob Nolan, "Rose of Mandalay" (Magine-Koehler) (4248).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Do You Ever Think of Me?" (Burtnett) (4217).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Ploddin' Along" (Caminando) (4217).
 Foxtrot—Colonial Club Orchestra, (a) "Naughty Eyes" (Fork-Locke); (b) "Leave Me with a Beautiful Melody" (Spier-Coslow).
 10.43: Vocal solo—Bob Nolan, "Caressing You" (Faziolo-Klages) (4248).
 Foxtrots, with vocal chorus—Hotel Roosevelt Orchestra, (a) "Mean to Me" (Turk) (b) "My Castle in Spain is a Shack in the Land" (Caesar-Friend) (4274).
 Foxtrots, with vocal chorus—The Clevelanders, (a) "Shout Hallelujah" Cause I'm Home" (Dixon); (b) "There's a Place in the Sun for You" (Green, Fain) (4255).
 11.0 : God Save the King.

Sunday, March 30

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MARCH 30.

- 3.0 : Selected studio items, including literary selection by the Announcer.
 4.0 : Close down.
 6.0 : Children's Song Service, conducted by Uncle Leo.
 7.0 : Relay of divine service by the Auckland City Mission from Lewis Eady Hall. Preacher: Rev. Jasper Calder.
 8.30 (approx) : Relay of Municipal Band Concert from Auckland Town Hall, under the conductorship of Mr. Christopher Smith.
 9.45 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MARCH 30.

- 3.0 to 4.30 : Afternoon session.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Lyall Bay Baptist Sunday School Choir, under Mr. M. G. Kain.
 7.0 : Relay of Evening Service of Vivian Street Baptist Church. Preacher: Rev. F. E. Harry. Organist: Mr. Chas. Collins. Choirmaster: Mr. J. R. Samson.
 8.15 (approx) : Studio Concert by Wellington City Silver Band, (Conductor, Mr. C. A. Forrest) assisted by 2YA artists.
 Hymn—Wellington City Silver Band, "Jesus Lover of My Soul" (Dykes).
 Overture—"Martha" (Hawkins).
 Soprano—Miss Jeanette Briggs, L.A.B., "Lord of Our Chosen Race" (Sullivan).
 Bass—Mr. G. Madigan, "Though Faithless Men" (Halevy).
 Chorus—Wellington City Silver Band, "Gloria in Excelsis" (Mozart).
 Contralto—Miss Ngaire Coster, "Not Understood" (Houghton).
 Instrumental Trio—Dajos Bela Trio, "Ideale" (Tosti).
 Duet—The Harmonic Duo, "Quis Est Homo" from "Stabat Mater" (Rossini).
 March—Wellington City Silver Band, "The Black Trooper" (Hames).
 Weather report and announcements.
 Soprano—Miss Jeanette Briggs, L.A.B., "The Star" (Rogers).
 Orchestral—Orchestra of the Opera Comique Paris, "Scenes Pittoresques" (a) "Fete Boheme"; (b) "Marche" (Massenet).
 Bass—Mr. G. Madigan, "I Am Fate" (Hamblin).
 Selection—Wellington City Silver Band, "H.M.S. Pinafore" (Sullivan).
 Concerted—The Chelsea Singers, (a) "Sigh No More, Ladies" (Stevens); (b) "Now is the Month of Maying" (Morley).
 Orchestral—Dajos Bela Orchestra, "Serenade" (Moszkowski).
 Duet—The Harmonic Duo, "The Passage Birds Farewell" (Mendelssohn).
 Waltz—Wellington City Silver Band, "River of Pearls" (Rimmer).
 March—Wellington City Silver Band, "Veni Vidi Vici" (Hall).
 God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MARCH 30.

- 3.0 : Afternoon session—Gramophone recital.
 4.30 : Close down.
 5.30 : Children's Song Service by Children from Baptist Sunday Schools.
 6.15 : Chimes.
 6.30 : Relay of Evening Service from Oxford Terrace Baptist Church. Preacher, Rev. Charles Dallaston, of Dunedin. Choir Conductor, Mr. K. G. Archer. Organist, Mr. W. Melville Lawry.
 7.45 : (approx.) Gramophone recital of selected items from studio.
 Studio concert programme.
 8.15 : Mezzo-soprano—Mrs. K. Henderson, "Nightingale of June" (Sander-son).
 8.19 : Orchestral—Grand Symphony Orchestra, "Scherzo," from "Midsummer Night's Dream" (Mendelssohn) (Parlophone A4072).
 8.23 : Baritone—Mr. A. G. Thompson, (a) "The Grey House" (Messenger); (b) "Hand of a Friend" (Russell).
 8.28 : Piano—Miss Olive Cooper, "Norwegian March" (Grieg).
 8.32 : Contralto—Miss Nellie Lowe, (a) "Trees" (Rasbach); (b) "Roll on Thou Mighty Sea" (Moir).
 8.38 : Orchestral—Philadelphia Symphony Orchestra, "Lohengrin Prelude" (Wagner) (H.M.V. D1468).
 8.45 : Baritone and contralto—The Dulcet Duo, "The Day is Done" (Lohr).
 8.48 : String quartet—Elman String Quartet, "Andante Cantabile," from "Quartet Op. 11" (Tschalkowsky) (H.M.V. DB1055).
 8.52 : Mezzo-soprano—Mrs. K. Henderson, (a) "One Golden Day" (Foster); (b) "Under the Deodar," from "The Country Girl" (Monckton).
 8.58 : Piano—Paderewski, "Valse Brillante in E Flat Major" (Chopin).
 9.2 : Weather report and announcements.
 9.4 : String quartet—Elman String Quartet, "Theme and Variations" from "Emperor Quartet" (Haydn) (H.M.V. DB1055).
 9.8 : Baritone—Mr. A. G. Thompson, "Fragile Things" (Lohr).
 9.11 : Piano—Miss Olive Cooper, "Rhapsodie in E Flat" (Brahms).
 9.18 : Contralto—Miss Nellie Lowe, "A Spirit Flower" (Tipton).
 9.22 : Orchestral—San Francisco Symphony Orchestra, "Valse de Concert" (Glazounov) (H.M.V. D1492).
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MARCH 30.

- 3.0 : Chimes. Selected gramophone items.
 4.30 : Close down.

- 5.30 : Children's Song Service, conducted by Big Brother Bill.
 6.30 : Relay of Evening Service from St. Andrew Street Church of Christ Preacher, Pastor W. D. More.
 7.45 : Selected gramophone items from the studio.
 Overture and Scherzo—San Francisco Symphony Orchestra, "A Midsummer Night's Dream" (Mendelssohn) (H.M.V. D6126/27).
 Tenor—Walter Widdop, (a) "Every Valley shall Be Exalted" (Handel); (b) "Comfort Ye, My People" (Handel) (H.M.V. C1620).
 Cello—W. H. Squire, "Slumber Song" (Squire) (Columbia L1759).
 Chorus—Salisbury Singers, (a) "Sleep, Gentle Lady" (Bishop); (b) "Round About a Wood" (Morley) (Columbia 01498).
 8.15 : Relay of studio programme from 3Y, Christchurch.
 9.30 : God Save the King.

RADIO DIRECTORY

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Making Life More Cheerful

Win a Washing Machine

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"Measure Out" Electricity

ELECTRICITY is measured in "watts" in exactly the same way that water is measured in gallons. Just as it takes eight pints to make one gallon, so one thousand watts make a kilowatt. A kilowatt used for an hour is a unit.

A 40-watt lamp consumes 40 watts of electricity in an hour, and this divided into 1000 shows the number of hours it will burn on a unit. Here it is 25 hours. A 500-watt iron consumes half a unit an hour and will burn two hours on one unit. A radiator marked one thousand watts uses one unit per hour, but heating, of course, is charged at a much reduced rate.

It will be seen that by judiciously selecting suitable lamps one can materially improve the lighting of the home without making for extravagance. It is foolish economy to restrict the number of switches or the number of points, as electricity is anything but expensive.

Linking Up the Villages

Electricity in Great Britain

STRANGE as it may seem, Great Britain has been slow to take up the advantages offered by electricity. The delay has been due in the main to the difficulty of providing the necessary capital, but in twelve years from now, thanks to a great national endeavour, it is estimated that every village will have electric light and every workshop, electric power. Some £650,000,000 will be sunk in the supply.

In 1907 electrical industries in the Old Country produced material at a cost of £14,000,000, while last year's output was valued at £86,000,000, more than five times greater than the 1907 output. In 1911, 66,000 workers were employed, as compared with last year 200,000. Before the war electrical exports amounted to £8,000,000; last year, two and a half times that value left English shores. It is evident that Great Britain is now rapidly making up for lost time.

AN American radio valve manufacturing concern has installed 22 loudspeakers in the assembly and manufacturing departments of its new plant. For one hour each morning and each afternoon, music is broadcast over the connected system of loudspeakers. These programmes have proved to be very popular with the employees. When in experiment they were omitted for one day, a petition was drawn up requesting them to be continued.

INTEREST in the Washing Machine Competition being conducted by the "New Zealand Dairy Exporter" and the "Radio Record" in combination is growing. Entries are rolling in in good style even at this early date, although the competition does not close until 9 p.m. on Saturday, April 12.

The problem is "Why I would like an Electric Washer in my Home," and the prize, as set out in an advertise-

A BOOT repairer in a small town in the North Island is somewhat of a Sherlock Holmes, so Aunt Pat recently found. While on holiday she walked so much that her shoes required mending, and taking them to the first boot repairer she could find, she asked that he make a speedy job, as she was just a visitor passing through the town. A little while later a parcel addressed to Miss Maynard Hall was received by her at her hotel, and on the sole of one of the shoes was written in pencil, "Aunt Pat."

As Miss Hall was travelling "incog.," just as Royalty sometimes do, she was very anxious to know how the shoe-maker had identified her. So she went back to the shop. There she found that the shoe man, being a regular listener in to 3YA's Children's Session, had immediately recognised her voice, the fact that she was a visitor being positive proof that she really was "Aunt Pat."

WEEKLY HALF-GUINEA PRIZE

TO ENCOURAGE ORIGINAL LITERARY TALENT

IN order to make the Home Journal Section of the "Radio Record" of the fullest possible use and interest to readers, and at the same time to encourage literary expression and development of thought, we have decided to inaugurate several special sections on the basis of original paid contributions.

In this we are following the experience of our contemporary, the "New Zealand Dairy Produce Exporter," which has discovered amongst the women readers of the Dominion's farm homes quite a mine of literary talent. We are sure that, in the special field covered by the "Radio Record," talent exists, and we think we will be rendering a national service in the literary field, and adding considerably to the value of our paper in its field of home interest, by affording the same opportunity for expression.

We are, therefore, offering a weekly prize of Half a Guinea for the best original Short Poem, on any topic, serious or humorous (providing the entry is up to standard).

In addition, a special page will be set aside for the publication of original matter of general interest to women, dealing if possible, but not essentially, with radio, electric equipment and home-craft generally; or views on books, radio, radio lectures, poems, thoughts and reflections—humorous or serious. All matter offered for publication must be definitely original and not hitherto published. Space rates will be paid for all matter used.

A special prize of 5/- will also be awarded in the Cookery Corner for the best and most useful recipe submitted each week, preferably adapted to, or suitable for, electrical cooking. Preference will be given to the originality of the recipe and the personal experience embodied in the contribution. The right is reserved to use recipes of other than the prize-winner on payment of space rates.

Successful contributors will be required to make their claims for payment at the end of each month, by forwarding a clipping of the matter published, together with date thereof, to "The Accountant 'Radio Record,' P.O. Box 1032, Wellington."

Foremen at the plant say that the effect of the broadcasts is to reduce fatigue, which in turn adds to increased production and decreased shrinkage in assembly operations. More than 1000 employees are enabled to listen to the music at their work through the loudspeaker hook-up.

ment elsewhere in this issue, is to be awarded for seven reasons, sentences or points of not more than 12 words each, giving the best answer to the problem. It is to be noted that the award is to be made on the human value and merit of the reasons given, and not merely on superlative literary

An Appeal

SELF-HELP seems to be the order of the day, and a good one, too. New Zealand women are advised to invest in the very becoming light woollen frocks for wear this coming winter, instead of artificial silk, and so relieve the wool situation; while, in Manchester, where the cotton industry is so depressed, women are asked to make a point of buying at least four cotton dresses, instead of a more expensive silk one. We are not told what the obvious effect will be on the silk trade, but obviously the idea is that charity begins at home.

quality in the expression of these reasons. This is an important point and throws the competition open to all, so that none need refrain from entering because of any fear that they cannot phrase the sentences adequately. It is the quality of the reason that will be taken into account. There is no limit upon the number of entries by any one competitor, provided all other conditions are complied with.

The advantages of the Washing Machine have been fully set out in articles in our columns, and the points of merit are also made available in various advertisements that have appeared and will appear. There can be no question but that a Washing Machine is an immense saver of labour in home life, and the lure of so substantial a prize is being reflected in heavy entries.

Amateur Dressmaking without Anxiety

New Styles must be Considered

FOR the last four or five years fashions have been so simple and attractive that practically every girl and woman has been able to make her own dresses and achieve considerable saving. By this means she has been able to indulge in a much more extensive wardrobe.

It is a long lane, however, that has no turning, and the pendulum of fashion has now swung very far indeed in the opposite direction. Those who have not already done so will soon be anxiously searching for a waist-line, swathing our hips, and cultivating curves. In spite of the invectives that have been hurled at the trailing skirts of other days, it does not require much foresight to perceive that we shall before long be adopting those also. It is surprising how "un-smart" and behind-the-times a short skirt looks even now for afternoon or evening wear.

Nevertheless, in spite of the fact that a survey of the new styles is apt to strike dismay to the heart of the would-be amateur dressmaker, the spade-work, as we may call it, that she has already put in on simpler things, should now stand her in good stead. A little study of the actual details wherein the new differs from the old should enable her to be as successful as before.

Patterns are Important.

A REALLY good paper pattern, happily not difficult to obtain, is a necessity, and should the figure for which the dress is intended not coincide exactly with the measurements of the pattern, alterations should be made to the pattern itself before the material is cut.

To lengthen or shorten a pattern, the amount should be taken out or put in, in equal proportions, above and below the waist. To reduce or add width, the back and front patterns are opened at the shoulder lines, taking out the superfluous or adding the necessary width there, as may be required.

Waist lines are high, and bodices bloused, either by means of lengthwise shirring, or inverted tucks, running across the figure for an inch or two. Hip lines, which are seen on most of the new designs, should, even if swathed, fit snugly, and skirt fullness be introduced well down the figure. It cannot be too strongly emphasised that skirt fullness should not now start at the waist-line, if the correct and new line is desired.

Sleeves Again.

SLEEVES will, perhaps, present a little difficulty to the amateur, who

has so far confined her efforts to sleeveless dresses. Where, as is now so often the case, the sleeve seam exactly meets that of the under-arm bodice seam, a good deal of anxiety can be avoided by putting in the sleeve before making up either sleeve or under-arm bodice seams. Those two seams can then be stitched up at once.

The lighter and daintier the material, such as georgette, crepe de chine, etc., the more difficult it is to handle, and the less kindly the machine takes to it. In this connection, to avoid dragging out of shape, after the garment has been cut out, it is an excellent plan to tack the material to the pattern itself, and put both paper pattern and the material through the machine together. By this means, stretching is eliminated, and the pattern can afterwards be pulled away.

The small electric sewing machine motors are a great boon to the woman who does much sewing. They can be attached to either hand or treadle machines, are operated by the slightest foot-pressure, and do away with turning or the tiring pedalling in the other.

See that the machine needle is the correct size for the work, before starting, and also that it is not blunted. For French seams on thin material, it prevents unsightly dragging if a looser stitch is used for the first or inside row of stitching.

Press as you Proceed.

HAVE an electric iron, an ironing board, or table fixed near your sewing table, and press as you go, when a much more finished and professional appearance will be attained than if the pressing is left until the garment is finished.

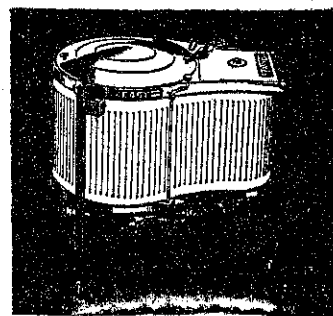
The hems on flared skirts, or those of uneven edges, present a little difficulty. The easiest way out is to have them picot-edged, or bind them. Where neither of these finishes are desirable, they must be turned up with cross-way strips, and it is important that these cross-way strips should be stretched to their uttermost before being sewn on, to prevent them sagging later.

With the necessity for neater, tighter fittings, hooks have come into their own again, and their accompanying loops are firmer if worked in button-hole stitch with a really coarse silk or cotton.

Gloves are worn with the new evening dresses, elbow length or longer, and it is fashionable to allow them to ruck upon the arm. Fans, too, are carried and add a note of distinction to a smart toilette.

A miracle in washing clothes with this *new, no-wringer* **EASY WASHER**

You don't know how easy and safe modern washing is until you have seen this marvelous new no-wringer EASY Washer. The Damp-Dryer which replaces the wringer takes a whole tubful of clothes at one time and whirls the water out of them—does it in less than two minutes. Let us show you how much safer, faster, easier, gentler it is than any wringer type washer.



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GLEANINGS

By "GADABOUT"

At Your Service

If you are needing information or advice regarding electrical equipment, "Gadabout" is here to help you. Correspondence will be welcomed. Replies will appear in the next issue that goes to press, or sent by post if a stamped addressed envelope is enclosed, so do not hesitate to write.—"Gadabout," "Radio Record and Electric Home Journal," P.O. Box 1032, Wellington.

The Ubiquitous Handkerchief

A TRADE paper states that handkerchiefs should be supplied to anxious and forgetful husbands, that they may tie knots in them, to remind them of postal and other obligations.

Artistic Flower-pot Covers

IF you wish to disguise the pot of a flowering plant in your room, use a parchment electric light shade inverted. There is such a choice of colours and designs and you are sure to be able to find one the right size. They are inexpensive to buy and last well.

For the Winter

IF your pouffe has a cretonne cover, make it a winter overcoat of the new patterned velvet in a bright colour, and see how it will cheer up the room.

He Doesn't Like It

MR. J. ROBERTS, in the Arbitration Court last week, said, "I would rather do navvying than an ordinary day's washing, and I've done both." Many men who would hesitate to ask their wives to undertake a day's navvying, expect them to cope with a heavy wash-day every week. Are you doing anything about getting an electric washing machine?

Fur Collar and Cuffs

YOU can bring your winter coat right up to date by providing it with a new upstanding fur collar, but it must really stand up high at the back of the neck. Cuffs are triangular, reaching almost to the elbow at the outside. The shape is a sensible one, as there is little fur underneath to get rubbed and shabby.

Barbola Work

HAVE you tried barbola work? Its charm is that you can make your designs as simple or as elaborate as you wish and to tone with any colour scheme.

An Economy Tip

IT has been discovered by accident, as so many discoveries are made, that it is quite unnecessary to pre-heat the electric oven to bake scones. If they are put into the cold oven and both elements turned on, they will be found to be delightfully cooked by the time the temperature has reached 450 degrees. Sounds revolutionary, doesn't it?

To Wash Cretonnes Tasty Cottage Cheese

An Excellent Recipe

CRETONNE curtains, cushion covers, loose-covers, etc., require careful washing to prevent colours from running. It is best to wash the material in bran-water to which a little melted soap has been added.

To make bran-water, pour four good handfuls of bran into four quarts of cold water, bring to the boil, then simmer for half an hour. Strain through muslin, then add enough cold water to make the liquid lukewarm. The rinsing water should be prepared before washing begins, adding salt to the last rinsing water—one tablespoon to each quart of water—to fix the colours.

A tablespoon of vinegar may also be added. Never soak cretonne. Wash, rinse and hang up each piece separately. When all are washed

COTTAGE CHEESE is one of the most appetising of our dairy products, but the housewife often fears to try to make it at home because it is supposed to be difficult to get it just right. The following is a satisfactory method: The milk should be soured naturally in any clean vessel, not of metal, and away from all contaminating odours. When it becomes a thick clabber, pour it into a bowl and set it in a larger vessel of hot (not boiling water). Cover and let stand from twenty to thirty minutes for each quart of clabber; then pour it into a muslin bag and hang it up to drain. Do not stir while it is in

off on the base to make it even so it will stand point up, then served whole garnished with lettuce; or it may be served beaten to a smooth batter to which should be added a gill of cream.

Eye Strain

EYE strain is often caused by working under unsuitable light, either insufficient or glaring. Tired eyes should not be exposed to strong sunlight. They benefit from a daily bath of cold water, particularly one to which a little rose-water has been added. Adequate sleep is essential, and if one is constantly engaged in close work, the eyes should be rested occasionally by removing the gaze from the work and looking right away as far in the distance as possible. If the view is restricted, imagine a distant scene, and so demonstrate the dominance of mind over matter.

Even the occasional use of alcohol mitigates against eye beauty, as it distends the tiny blood-vessels, and gives a streaky appearance to the white of the eye; while its habitual use causes it to assume an unbecoming yellowish tinge.

Leisure

What is this life, if full of care
We have no time to stand and stare?

No time to stand beneath the boughs
And stare as long as sheep or cows,

No time to see when woods we pass
Where squirrels hide their nuts in grass,

No time to see in broad daylight
Streams full of stars, like stars at night,

No time to turn at Beauty's glance
And watch her feet, how they can dance.

No time to wait till her lips can
Enrich the smile her eyes began,

A poor life this, if full of care
We have no time to stand and stare.

—Wm. Hy. Davies, 1870.

Preserved Ginger Cake

1lb. of butter and the same of sugar, 1½lb. of flour and 8 eggs, 1lb. of preserved ginger, ½lb. of peel, and ½lb. almonds. 1 teaspoon of baking powder.

Cream butter and sugar, sift flour and baking powder, add the well-beaten eggs, prepare the fruit and nuts, and add alternately with the flour. Bake in oven at 350 degrees for about 3½ hours.

Answer to Correspondent

"WAFFLES."—I give you a recipe with pleasure. Sift 2 cups of flour and ½ teaspoon of salt together three times, beat the yolks and whites of two eggs separately, add the beaten yolks and 1½ cups of milk to the dry ingredients and then 2 tablespoons of melted butter. Fold in the stiffly-beaten egg whites and bake on hot waffle iron. Particulars of electric waffle irons have been sent you by post. They are quite nice-looking enough to have on the table, and if you take a bowl of batter into the breakfast or dining-room they can be made as they are wanted on the "every man for himself" principle, so that no one need stay in the kitchen for the purpose. Both sides cook at the same time—3 minutes to a waffle. Write again when I can help you.

Big Brother Bill's Picnic

The 4YA Annual Outing

THE second annual children's picnic, organised by Big Brother Bill of 4YA, was held on Saturday, March 8. The happiest combination of circumstances made the affair a brilliant success in every particular.

The weather, usually rather fickle in Dunedin, did its very best to assist the happy crowds. A speckless blue sky, warm summer sun, and just sufficient wind to make energetic movement desirable. The place was the farm of Mr. O. J. Stenhouse, Wakari, kindly lent (to 4YA) as last year. The farm nestles at the bottom of a half circle of foothills, with Flagstaff and Cargill Mountain towering over all; an ideally cosy place at which to hold a children's picnic.

Crowds of Happy Picnickers.

THE Crowd almost beggars description. Orderly and happy, they gathered by the thousand in front of the Law Courts, opposite to 4YA Station, before 10 a.m., the advertised time of starting for the picnic ground. A full staff of city traffic inspectors did its best to prevent congestion of traffic in Stuart Street, whilst a special staff of constables controlled the increasing crowds of picnic folk.

The corporation motor buses began to move the crowd away at 9.30 a.m., and at 11 a.m., there seemed to be more remaining than when the transport began. The number who attended this year's picnic has been variously estimated at any number between 3500 and 4000 people. Considering the number who walked, and the larger number who came in private cars, the estimate most likely to be true is about 3250. On thing was demonstrated very clearly on Saturday, and that is, there is no transport company in Dunedin with sufficient equipment to deal with 4YA's picnic. Some other means will have to be devised for handling the huge crowd next year.

Ample provision was made for hospitality and entertainment—500lb. of biscuits, 550lb. of sweets, 100 gallons of orange syrup, bags of sugar, plenty of tea, and gallons of milk were provided, whilst the steam rose all day long from huge cauldrons of hot water. Added to which there was ice cream and bottles of soft drinks.

A Popular Programme.

A FULL programme of sports, including a pillow fighting and

greasy pole event, was arranged by the sports committee, of which Uncle George was chairman; and the games side of the picnic was superintended by the games committee. Uncle Allan was chairman of the games committee, with Aunt Anita and Aunt Sheila associated with him.

The children's hour broadcast from the picnic grounds was a delightful happy-go-lucky impromptu programme. The "mike" stood in the midst of a great circle of seated and standing children, with every vantage point occupied by enthusiastic adults. Even the roof of the cowshed was crowded perilously, and the pigsty was like a race-day grandstand.

Wee tots came forward spontaneously to do their little act, some of the older children recited, and Cousin Tui nearly brought the cowshed down with an enthusiastically received whistling solo. Mr. Bennet, with his "gazooka" (a quite respectable accordion), helped the community singing of the bairns, by far the most popular item on the programme. "Misery Farm," "Abee," "Sweet Rosy O'Grady," "Get Out and Get Under the Moon," with others not at all to classical taste, were on the programme, and the bairns appeared none the worse for the singing of them. The programme concluded by the singing of the National Anthem.

Arrangements for Emergencies.

ONE thing must be gratefully recorded. Every necessary arrangement was made to cope with casualty of any kind should such misfortune attend the picnic. A competent staff of St. John Ambulance and Red Cross nurses were provided with a tent on the grounds. We record the very gratifying fact that their professional assistance was not needed.

One young girl slipped off the haystack and sat down suddenly on a cold hard world, but broke no bones; and a boy tried to vault the beam on which the pillow fight was held. He succeeded only in turning a rather awkward back flip to the mattress. In both cases a little comforting wiped away both tears and memory of the hurt.

Numerous Prizes.

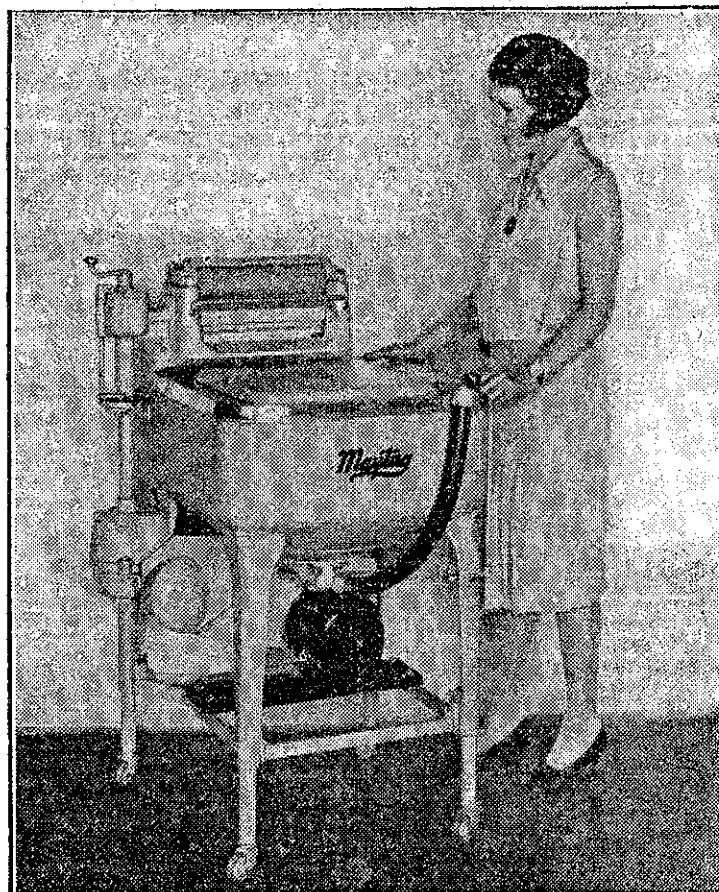
SOME excellent prizes were donated for the picnic, among them being a portable gramophone, a set of boxing

gloves, a ham, a goose, crystal sets, a first-class cricket bat, a large bag of flour, a bag of coal, mouth organs, tennis balls, toys, torches, fancy goods, books, etc. There were twenty-three sporting events, and two good prizes for each event.

So great a crowd could not necessarily be either entertained or controlled without loyal assistance and co-operation on the part of a large committee. The 4YA Children's Committee entered into the matter most enthusiastically as their first task. Mr. Phelan, representing the Scouts; Commissioner Feichley, representing the Girl Guides; Sister Nora, representing the Protection of Women's Society; and Miss Hare, representing the Y.W.C.A., should be specially mentioned for service rendered.

It was a field day for the children's hour staff at 4YA, and, wherever they appeared among the crowd, they were immediately saluted by the clicking of cameras. There must have been some great snapshots taken. Uncle George did magnificent service conducting the long sports programme, and looked magnificent with what looked like an Arab burnous draping his venerable forehead; Uncle Allan made himself popular for ever with hundreds of boys and girls by superintending the pillow fight through all its most exciting phases; Aunt Anita and Aunt Sheila remained very charming and cool in spite of the warm day and games with the bairns; and the popular announcer at 4YA made himself more popular with his happy and genial assistance to the day's success.

The "MAYTAG"



WE take this opportunity to introduce the "Maytag" to you. For the "Maytag" is the very model of what a Washing Machine should be.

It neither wears the clothes, nor breaks the buttons. It is absolutely safe and easy to use. It is neat in appearance, unbelievably handy, and carries a life-long guarantee.

It measures only 25in. across, yet is subtly shaped with a capacity that will astonish you.

Inside the Tub is the Gyrator, the action of which is speedy, gentle, and so thorough, that a big tubful of clothes is washed clean in a few minutes.

The "Maytag" Wringer is of special interest. The only one of its kind, it is capable of rotating—over the Tub—over the rinsing water—over the Blue Tub—seven positions in all, and controlled by a single handle. The lower roller is hard, the upper one soft—thus the Wringer automatically adjusts itself to any pressure.

We shall be pleased to demonstrate the "Maytag" with your own clothes in your own home. Remember, there MUST be points about a Washing Machine that carries a life-long guarantee.

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The HOME KITCHEN

By "ELECTRA"

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

HOME-MADE SWEETS

EASILY MADE, WHOLESOME AND DELICIOUS

RECIPES FOR DELICIOUS SWEETS

TO SUIT ALL TASTES

NO amount of lecturing will ever cure children of their inherent desire for sweets, be the sweets or the children good, bad or indifferent. The grown-ups cannot boast very much, for we find that children of all ages and of both sexes are easily tempted by a dish of good candies.

The beginner may have obstacles to overcome, but it is fascinating work, and practice makes perfect. Once the process of sugar-boiling is mastered, the rest is easy. One should first experiment with small quantities, increasing as confidence is gained.

FONDANT is the basis of all French candy, and is made by boiling sugar and water together, in the proportion of two and a half pounds of sugar to one and a half cups of hot water, to which a quarter of a teaspoonful of cream of tartar is added to prevent the sugar from granulating.

A professional confectioner is able to decide when the syrup has reached the right temperature by its sound while boiling, and by testing in cold water. These tests may at first seem somewhat difficult to the amateur, but only a little experience is necessary to make the fondant successfully.

A sugar thermometer is sometimes employed, and relieves one from relying upon her own judgment. The ingredients should be put into a smooth, scrupulously clean stew-pan, stirred, placed on the range or heating unit, and gradually brought to boiling-point. Boil without stirring until, when a little is tried in cold water, a soft ball will be formed that will just keep in shape. The temperature is 238 degrees Fahrenheit. After a few minutes' boiling, sugar will adhere to the sides of the pan; this should be washed off with a pastry-brush or the hand, first dipped in cold water. Have a pan of cold water near. Dip the hand in it, then quickly wash off a small part of the sugar with the tips of the fingers, and repeat until all the sugar adhering to the side of the pan is removed. If this is done quickly there is no danger of burning the fingers.

Pour slowly on a slightly oiled marble slab, let it stand a few minutes

to cool, but not long enough to become hard around the edge. Scrape the fondant with a chopping knife to one end of the marble, and work with a wooden spatula, until white and creamy. It will quickly change from this consistency and begin to lump, when it should be kneaded with the hands until perfectly smooth. Put into a bowl, cover with oiled paper to exclude the air, and to prevent a crust forming on top, and let it stand for twenty-four hours. A large oiled dish and a wooden spoon may be used in place of the marble slab and spatula. Always make fondant on a clear day, as a damp, heavy atmosphere has an unfavourable effect on the boiling of sugar.

It can be used for dipping small cakes, frosting larger ones and making confections. If a large quantity is required it is better not to try to double the amount, but rather to repeat until the necessary quantity is made.

THE centres of bonbons are made of fondant shaped in small balls. If white fondant is used, flavour as desired—vanilla is the most popular. For cocoanut centres, work as much shredded cocoanut as possible into a small quantity of fondant; for nut centres, surround pieces of nut or nut meat with fondant, using just enough to cover. French candied cherries can be used in the same way, but in any case the balls must be allowed to stand overnight and dipped the following day.

To dip the bonbons, put the fondant in a saucepan and melt over hot water; colour and flavour as desired. In colouring fondant, dip a small wooden skewer in the colouring paste, take up a small quantity and dip into the fondant. It is very easy to get the colour too intense if care is not taken. During dipping keep the fondant over hot water, so that it remains at the right consistency. Use a two-pronged fork or a confectioner's dipper. Drop the centres in fondant one at a time, stir until covered, remove from fondant, put on oiled paper, and bring end of dipper over the top of bonbon, making a little curled tailpiece, to show that the bonbons have been hand-dipped. Stir the fondant between dippings to prevent a crust forming.

Candied Plums.

WITH a silver or stainless knife cut a number of large ripe plums in half and remove the stones; place the halved fruit on a board, cut side uppermost, a few inches apart, and well sprinkle each half with white crystal sugar. Put the plums into the oven until they are warmed

of sugar, one teaspoon of butter and two teaspoons of water; let the mixture cool and then boil up again for fifteen minutes. When the toffee is made (it should be brittle when tested in cold water), dip each apple in it, covering the fruit well. Allow to harden. A few drops of cochineal will ensure a bright, transparent red colour.

Nougat.

1 LB. of honey or golden syrup (white honey if possible), 4 whites of eggs, 1lb. of blanched almonds (unchopped), 4oz. cherries, same of blanched pistachios and 1lb. of skinned hazel nuts, all unchopped. For the syrup, 1lb. of loaf sugar, 1½ gills of water, and a vanilla pod.

Put the honey in a pan and melt over another pan of hot water. Add the stiffly-beaten egg whites, and stir well until the mixture forms a hard ball. Avoid overheating and stir continually to hasten the reducing, which takes about 1½ hours. Meanwhile line a tin with rice paper, and moisten the edges with water to make the side strips stick. When the honey mixture is nearly ready, heat the sugar, water and vanilla pod, removing the pod when the syrup is nearly cooked. Cook at 290 to 300 degrees Fahrenheit. Heat the fruit and nuts on a tray in the oven, pour over the sugar mixture on to the honey by degrees and beat. Then add the prepared fruits and nuts. Turn on to the marble, well-sprinkled with icing sugar, press well to make it compact. Press into the tin, cover with rice paper, put a weight on it, and stand for 24 hours. When cold, cut with a sharp hot knife.

Creamed Walnuts (Uncooked).

PUT the white of 1 egg, ½ tablespoon of cold water and ¼ teaspoon of vanilla into a bowl and beat until well blended. Add about 1lb. of confectioner's sugar until stiff enough to knead. Shape in balls, flatten and place halves of walnuts opposite each other in each place.

Turkish Delight.

1 OZ. gelatine and ½ cup of cold water, 1lb. granulated sugar and ½ cup of boiling water, grated rind and juice of 1 orange, juice of 1 lemon, red or green colouring, and, if liked, 1 tablespoon of rum and ½ cup of chopped nuts.

Our Prize Recipe

A PRIZE of Five Shillings (5/-) will be awarded each week for the best and most useful recipe, preferably adapted to, or suitable for, electrical cooking. Preference given to originality and personal experience embodied in the account. Use ink, write one side only. Name or nom de plume must be given. Right is reserved to publish selected contributions upon space rates. Address: "Electra, P.O. Box 1032, Wellington."

Contributors, except prize-winners, must claim payment for matter published in the "Radio Record" by forwarding at the end of each month clipping, together with date of publication, addressed: "Accountant, 'Radio Record,' P.O. Box 1032, Wellington."

through and the sugar is melted. Remove and set in a cold place to harden; when the glaze is almost set, sprinkle well with more sugar. These make delicious dessert fruit, the full flavour of the plums being retained.

Toffee Apples.

WASH some apples, dry them thoroughly, and put each on a small stick. Make some toffee by boiling for about twenty minutes one pound

Break gelatine in pieces, add cold water, cover and let soak for two hours. Put sugar and boiling water in saucepan, bring to the boiling point, add gelatine and let simmer for 20 minutes. Add flavourings and colouring, strain, add nuts and turn into a pan that has been rinsed with cold water, to one inch in depth. Let stand until cold, remove the board, cut in cubes, and roll in icing sugar.

Lemon and Acid Drops.

BOIL together 1½ lb. of loaf sugar, ½ pint water and ½ teaspoon of cream of tartar until the mixture acquires a pale yellow tinge, add essence of lemon to taste, and turn the preparation on to an oiled slab, sprinkle on 1 one dessertspoon of tartaric acid, work it well in, and as soon as it is cool enough to handle, form into thin rolls, cut off short pieces with the scissors, roll into shape under the hand and coat with sifted sugar.

Stuffed Dates.

REMOVE stones from dates and fill each cavity with a blanched almond or a piece of preserved ginger.

Ice-cream Candy.

BOIL together with stirring 3 cups of sugar, ½ teaspoon of cream of tartar, ½ cup of boiling water, ½ tablespoon of vinegar, until when tried in cold water the mixture becomes brittle. Turn on to a well-buttered dish to cool. As edges cool, fold towards the centre. As soon as it can be handled, pull until white and glossy. While pulling, flavour as desired, using vanilla, orange extract, coffee extract, or melted chocolate. Cut into sticks or small squares.



A Cooking Hint.

—One that means lighter, fluffier, more delicious scones and cakes—with higher food value and a much longer period of freshness.

Add a few spoonfuls of ANCHOR SKIM MILK POWDER to every mixture.

Ask your grocer for "ANCHOR" TODAY.

PRICE 1/2 PER TIN.

Free Recipe Folder—write to "Anchor," Box 844, Auckland.

Trials in Tact or What Would You Do?

(Conducted by Savoir-Faire)

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

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

Problem No. 7.

1st Series.

Mrs. A. and Mrs. B. have been close friends over a long period and Mrs. B. knows that Mrs. A.'s husband is devoting considerable attention to a Miss C. and has definite evidence that he secretly takes her for motor drives and also lavishes expensive presents on her. Miss C. occasionally visits Mrs. A.'s home. Mrs. A. has implicit trust in her husband's faithfulness and is totally ignorant of his secret attentions to Miss C.

Mrs. B. considers that she has a duty to perform to Mrs. A. and is thinking of mentioning the matter to her, but sincerely regrets the possibility of unhappiness entering Mrs. A.'s home. What course should Mrs. B. adopt.

Suggested by Mary.

(Answers must be postmarked not later than March 20, 1930.)

Problem No. 8.

1st Series.

Miss A. and Miss B. are acquaintances, when a great sorrow befalls Miss A. Miss B. is very kind to her and able to help her a great deal, with the result that Miss A. becomes very devoted to Miss B. and extremely jealous of her friendships. Miss A.'s devotion is annoying to Miss B., to whom she means almost nothing—yet Miss A. would be dreadfully hurt if she knew it. What can Miss B. do?

Suggested by "Natural."

(Answers must be post-marked not later than March 27, 1930.)

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

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

Notes

Jean, Te Puke.—Thank you for your second letter. You are credited with marks for solution of Problem No. 3, but not for No. 2.

Only Me.—I am sorry that your solution of Problem No. 5 was received too late.

Solution to Problem No. 6.

THIS problem is not so easy to tackle as it appears to be at first sight. We all realise that the existing state of affairs must come to an end, but if it can be managed without an open breach, so much the better.

While we are all called upon to help one another, we hate to see generosity being imposed upon. Neighbourliness must be a matter of give and take, otherwise the moral fibre of both parties is bound to suffer.

I agree with "Deerfoot," however, that to attain success, Mrs. B. must invite her husband's co-operation, and she must also ascertain his real feelings towards Mr. A., if any. I say, if any, because on the face of it, he appears to be a supine sort of creature, but on the other hand, it may well be that he values Mr. A.'s companionship, and would prefer being imposed upon to losing it. That would not, of course, make matters more acceptable to Mrs. B., but it would definitely render her unable to make much headway single-handed.

Mrs. B. should, therefore, point out to her husband that in condoning Mr. A.'s impositions he is behaving badly to her, and ask his consent to dealing with the problem and his connivance. Having obtained it, as no doubt she will with such an easy-going individual to deal with, she should make up her mind that the next time Mr. A. approaches, he shall be told that while they are anxious not to be unfriendly, they do expect that he will make some return for the advantages he is and has been receiving. He will then be obliged to comply, and Mrs. B. can see that he does do so, or decide to dispense with their aid.

Marks have been awarded as follow:—A Trier, 3; Anon, 4; Apple-pie Mary, 4; Azure, 2; Bonza, 3; Miss Rachel Baker, 3; Clara, 4; Duplex, 5; Deerfoot, 5; Equity, 4; Fiat Pax, 5; Frances, 4; Fairy Godmother, 2; Grace, 3; Ginger, 4; Haven, 2; Irene, 3; Jean, Te Puke, 5; Miss N. Johnston, 5; Jonquil, 4; Kummel, 4; Listener-in, 5; Lucid, 2; Mrs. Mason, 5; Myra, 3; Mayflower, 2; Michael, 4; Natural, 4; Nomen, 3; Olivia, 3; Only Me, 5; Priscilla, 5; Pumpkin, 4; Query, 2; Radex, 4; Radio, 3; Rosa, 2; Senga, 2; Scylla, 4; Summit, 3; Thames, 3; Tuner, 2; Topaz, 0; Undine, 4; Viola, 3; Verity, 2; Wynward, 4; Xylonite, 0; Xerxes, 2; X.L., 4; Yum-Yum, 3; Zenobia, 2.

For the Bazaar Stall

PAINTED biscuit and cake tins are a profitable and good-looking addition to the usual cake stall equipment. Empty sweet tins of good shape with tightly fitting lids answer the purpose and can be bought quite cheaply, if they cannot be begged. Paint them with a good enamel or lacquer, choosing where possible colours that will harmonise with the colours of the stall. Blue, buff, and brown are always popular colours for kitchen tins, and look well displayed on the stall. Two coats of paint are sometimes necessary, but a small tin of enamel will cover nine or ten medium-sized tins. If someone can add lettering or a design in gilt, so much the better. The tins may be sold empty in sets or singly, but will also find a ready sale filled with biscuits or any small cakes.

Conversing with the Deaf.

A DEAF person who is able to lip-read, can be helped a great deal by the person speaking.

The two most important things to keep in mind are: (1) Sit where the light will fall directly on your lips; (2) form the words entirely with your lips. It is not even necessary to make any sound, and will be found less fatiguing not to do so.

Deaf people miss all the bright remarks, asides, and jokes that are current in conversation, so that if you

LIGHTED DOORS

He who opens wide a door
Where lamp light shows
Does a bigger thing for me
That he knows.

He who places golden lamps
Behind clear glass,
Warms the cold, dark road for me
As I pass;

Shares with me a precious thing;
His own home light,
Lets me carry it away
Through the night;

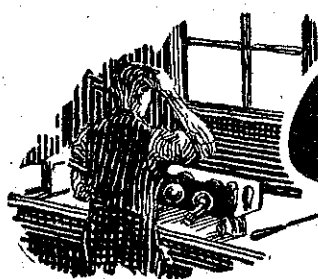
Gives to me—yet his lamp burns
Undimmed as before;
Light is beautiful that shines
Through a door.

—Grace Noll Crowell, in "McCall's Magazine."

can save some bright story to tell them, you will be well repaid in the appreciation it will receive.

Incidentally, the simplest way to attract a deaf person's attention is to make a sudden movement—clap your hands or tap your foot on the floor. The deaf will feel the vibration. This is much wiser than to startle them by touching them.

Radio frequently helps the deaf to hear. The remarkable amplification of words and music can usually be heard by most who are not totally deaf. If you have anyone who has defective hearing you will do them a great service by installing radio.



Questions and Answers



Single versus Parallel Wire Aerials.

"W.H.C." (Wellington) asks regarding aerials: Do you consider an aerial of two parallel wires 25ft. long more efficient than a single wire aerial of the same length?

A.: They are if separated by about 6ft., otherwise the difference does not make worth while putting up the extra wire.

Valve Combination.

I HAVE an American set, and wish to know the best combination of valves, asks "F.H.G."

A.: Use 201A Radiotron or Cunningham with each of the first five stages, and in the last use a power valve of the 171A type. It is not necessary to use an American valve in this socket. Any of the medium power valves will do.

Distortion.

I HAVE a six-valve set, but reception has been distorted. I am using two DEP610 valves in the last two stages, states "L.T.H." (Bay of Islands).

A.: You are probably using a power valve that is too small. Try the 171 type (P625A Marconi) with about 40 volts bias, if you are using the full 180 volts, 27 if you are using 135 volts, and 15 if you are using 90 volts. You may have a defective valve, which can be tested by an expert. The speaker may not be able to carry the load, or the "C" battery may be run down.

Short-wave Problem.

"R.A.M." (Auckland) asks concerning a short-wave receiver:—

1. Why is my circuit legal when the short antenna is connected directly into the grid circuit?

A.: In effect, it is loose coupled, for it has a variable condenser in the aerial.

2. When working certain stations reception is spoiled by a loud shriek which can be eliminated only by loosening the reaction, but in a moment it is back again. Can it be that these stations are hetrodyne'd by nearby morse stations?

A.: That is probably the trouble. These stations may possibly be amateurs working in the neighbourhood. We advise you to contact with the secretary of the Amateur Radio Transmitters' Association, Auckland, and enlist their co-operation. If you could identify the morse stations it would help you.

3. I frequently hear stations KGO and WGY on short waves. What are the designations of the stations broadcasting these on short wave?

A.: KGO is broadcast on short wave by W6XN and W6AF, WGY by 2XAF and 2XAD.

"Round-the-World" Two.

WHAT is the correct number of turns on the coils? asks "R.R." (Christchurch).

A.: There are five coils to tune between 10 and 70 metres; 4, 5, 6, 8, and 12 turns.

"L.H." (Mercer) asks: Could he use an "A" and "C" eliminator with the "Round-the-World" Three?

A.: If the "A" current were sufficiently smooth, yes.

2. In making tappings for the short wave and broadcast coils, would a twist tinned suffice?—Yes.

3. What type of neutralising condenser would you advise? Would a Lissen be all right?

A.: Any of the well-known makes. The one you mention is O.K.

Legal Points.

MUST I have a separate primary on a 1-valve anode-bend set, or can I connect it directly to the grid.

A.: You can connect it directly to the grid coil, providing you have a neutralising condenser in the aerial. Be careful in operating the set to prevent annoyance.

2. Is auto-coupling considered direct coupling as far as the regulations are concerned?

A.: Auto-coupling is usually approved only when there is a series condenser in the aerial. The P. and T. Department in approving a set usually take into account the liability of the set to oscillate, hence they look with disfavour on such as employ a large number of reaction turns, and have a high voltage on the plate.

3. By using two general purpose valves in parallel in the last stage, could I bias back and so get greater swing?

A.: It is not advisable. The system of paralleling output valves has long since passed out of date. Far better to use one single power valve.

4. Would the impedance of the valves in parallel be doubled or halved?—Halved.

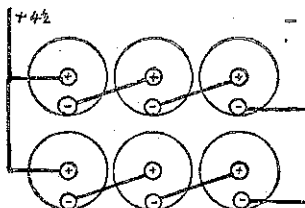
5. Can you tell me the make of a transformer to match a medium high impedance detector?

A.: One with a very low ratio and made by a reputable firm should suit your requirements.

Cost of Upkeep.

I AM perhaps one of your very rare readers, states "M.S." (Otago), for I have no radio. We are hoping to get a small set, say, three valves, but have been told that the upkeep is about £10 a year. Is this so?

A.: No. It is about half this, if care is taken in the choice of batteries. Use 90 volts "B" and employ the large size batteries. Use four "A" batteries in-



stead of two, and connect them by the series parallel method shown in the accompanying diagram. Omit the two last cells.

Push-Pull Transformers.

WOULD you give me the details of push-pull transformers suitable for the 245 valve? asks "A.B."

A.: We do not advise you to make these, as they are not expensive, but involve a great deal of intricate work if home-constructed.

2. What should be used in the amplifier preceding these?

A.: Two 227's R.O.C. coupled. Use $\frac{1}{2}$ megohm grid leak in the grid circuit, a .01 coupling condenser, and a choke coil of about 100 henries in the plate circuit.

A Crystal Set Amplifier.

YOU may be interested to hear from a successful constructor of the A.C. amplifier in the All-electric Handbook. There is no trace of hum up to 201A valves for rectifier and amplifier. The volume from a crystal set is ample. Would you clear up the following points:—

1. There was not much room in the window of a transformer for three filament windings, so can I take current for two 5 amp. valves off one 5-6-volt winding?

A.: Yes, providing the gauge is not less than 22 s.w.g. two valves in cascade will not operate successfully unless a special A.C. valve is used in the first stage.

2. There is bad backlash with a circuit using separate valves to detect and amplify in a short-wave circuit.

A.: This is probably inherent in the circuit which attempts to utilise HF amplification. This is not unusual.

Capacity of Variable Condensers.

I HAVE a variable condenser with 11 fixed plates and 12 moving. Could I use this in making up the All-wave "Round-the-World" Two as illustrated in the "Record."

A.: It will be a .0005, which is too large for short-wave work. It will be necessary for you to obtain a .0082 condenser.

2. How is the capacity of a variable condenser calculated?

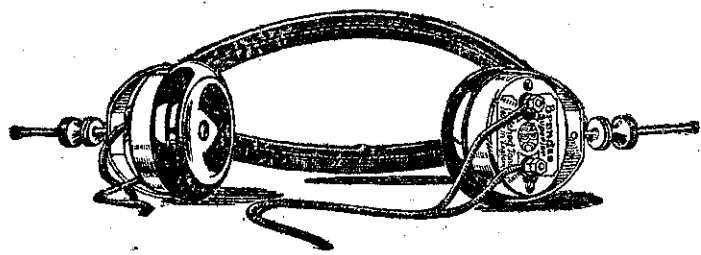
A.: It can be done only with elaborate instruments.

Short-wave Kit Set Problem.

I HAVE a combination broadcast and short-wave kit set which has been working well on the broadcast band, but I cannot get the set to oscillate on the

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lower wavelength. What is the matter?
—K.I.L. (Mere Mere).

A.: It is very difficult to say without seeing your set. Your best plan would probably be to contact the dealer who sold you the set. We suggest that the "B" voltage on the detector is too low. This is the positive tapping nearest the detector, and it will probably pay you to shift this up a tapping or two to get greater "B" voltage. If you do not have at least a rudimentary technical knowledge of radio we would not advise you to attempt any further alterations. Have you had your detector valve tested?

2.: Why can I get better results with the lid off?

A.: The cabinet acts as a shield, and by lifting the lid you are getting a certain amount of pick-up from the coils.

"Round-the-World Two."

I am considering building the "Round-the-World Two," writes "L.N.W." (Auckland), and wish to know the following:—

1. Is it practicable to use two .00025 condensers?

A.: The .00025 may be tried in the tuning circuit by placing a .001 fixed condenser in series with it.

2. I have an audio transformer on which the terminals are marked 1, 2, 3,

420 secondary, but not the gauge of wire until we know the amount of current to be supplied. Get strips $3\frac{1}{2}$ inches long and find out the size of the window when the windings are finished. Probably a 28 gauge primary and a 30 gauge secondary would suit your requirements.

Screen-Grid Detector Adaptor.

I HAVE constructed the screen-grid detector circuit described in the "Record" and am using it as an adaptor. Results are poor. What can I do? asks "M.W." (Kimbolton).

A.: We advise you to use your screen-grid valve in the screen-grid adaptor described in the Radio Listeners' Guide. The screen-grid detector, too, was merely an experimental set for those who have had plenty of experience. The screen-grid adaptor, however, has been fully described for the home constructor.

Valve Replacement.

I HAVE an American factory built set which has been very poor on outside stations lately. I intend replacing the valve, but, having a 6-volt accumulator, think it advisable to use 6-volt valves. I cannot quite see why 5-volt valves should be used with a 6-volt accumulator, asks "G.H.B." (Christchurch).

A.: Undoubtedly, you require a new set of valves. Use the 5 volt valves, for the

code. Everyone operating must be proficient in it.

Screen Grid Problem.

CAN you enlighten me upon the following relative to a screen-grid set? writes "R.D." (Te Kuiti).

1. To send me the diagram and correct resistances needed to add a resistance capacity coupled stage, and criticise the accompanying diagram.

A.: The accompanying diagram gives all the particulars. Three stages of R.C.C. coupling should be followed

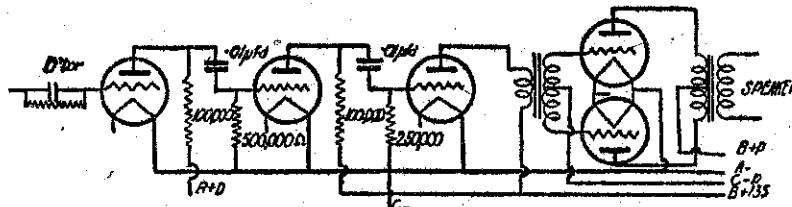
not use an old audio transformer. They are not designed for power valves and the result is saturation of the cone.

Pentode's Dynamic Cone.

I purpose using this speaker as a choke in Megohm's Power Pack for Super Power valves, states "Eliminator," Dunedin.

1.: Would it be possible for me to use this suitably rewound as the choke in the power pack?

A.: Yes. Fill the space at your disposal with 34 SWG wire and put a resistance in series before the speaker



by a push-pull stage in order to prevent audio feed-back and howl. Your diagram is quite all right.

2. An explanation of the methods of preventing the set from howling.

A.: You should have defined your trouble more accurately, giving us an indication of what caused the set to howl, and under what conditions this took place. However we have devoted an article in this week's issue to your trouble.

Phasatrol Neutralization.

WOULD you supply me with the following information relative to phasatrol method of neutralization, asks "Phasatrol" (Nelson).

1.: What is the best way to insert a phasatrol in the Browning Drake?

A.: As you suggest, the method employed in the "Beginner Tree."

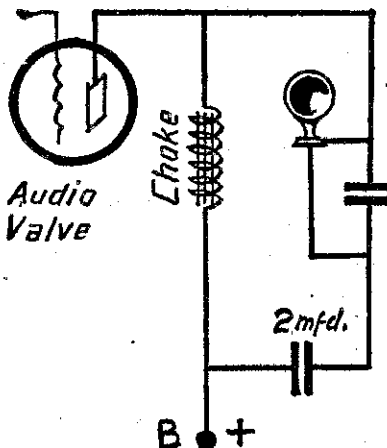
2.: Does the phasatrol make the set less efficient?

A.: Slightly, it introduces a certain amount of damping.

3.: I cannot tune out 2YA with the radio valve shut out.

A.: The phasatrol will not neutralize completely. Have you tried the method of neutralizing described with the A.C. B.D. in September last year?

4.: I have inserted a grid leak and condenser in the lead of the RF valve.



This seems to improve the tone considerably.

A.: It ought not; there is something wrong with the set. Try bias on the radio valve.

5.: I wish to incorporate an audio output filter. What do I do?

A.: Buy or make an audio choke of 50 henries and connect this between the output terminals. Insert a two mfd. condenser in series with one of the speaker leads and the speaker terminals. Do

field if it does not break the voltage down sufficiently.

2.: Is there any objection to having the speaker detached at some distance from the set?—No.

In Brief.

G.H.B. (Pieton).—The amp-hour capacity of your battery is probably 80. Thanks for your consideration, but we do not accept payment for replies so are returning your P.N.

Motor-Boating.

WHEN I bring the set into reaction it starts motor-boating. I have various leaks across the transformers, but as soon as the s.g. valve is inserted the motor-boating starts.—A.A. (Wanganui).

A.: Have you tried a $\frac{1}{2}$ megohm leak in series with the first transformer, if necessary in combination with another across the primary? An "anti-mobo" device is a combination of series and parallel resistances arranged in this manner.

Audio Oscillation.

"TROUBLE" (Eketahuna) states that since replacing his second quality transformers with better ones he has been troubled with strong audio oscillation. The set has much more power.

A.: Although we do not particularly like the transformers you are using, we think the trouble can be lessened, if not cured, by reversing the connections to the primary of one of them.

Input and Output.

WOULD you define the terms "input" and "output"? asks V.H. (Lyttelton).

A.: "Input" refers to those signals fed into the apparatus in question and "output" those delivered by it. The input to a speaker is the signals fed from the last valve whereas the output is all the sounds that one hears as a result. One is the "going in," the other the "going out."

A False Start.

I AM informed the layout of the Round the World Three is wrong owing to the valve filament connections being crossed, complains W.H.P. (Rangiora).

A.: Sorry, your information is not correct, but if you don't like them crossed bunch them and take a pair to each valve in turn. Try both systems and see which is the easier to follow out and which gives the better results.

Have you secured your copy of

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

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4. Which are the primary and which are secondary?

A.: Probably 1 and 2 are primary, 3 and 4 secondary. Make the following verification: Connect up a pair of 'phones or a voltmeter and a cell as shown in the accompanying diagram. If this is correct there should be a click or a reading between 1 and 2, nothing between 2 and 3, and a click of lesser intensity or a smaller reading between 3 and 4. If this is not correct, you can find out for yourself which is which from these particulars.

5. Is the two-valve suitable for an amplifier with a gramophone pick-up?

A.: It will make quite a good starting place for an electric gramophone. You will get fair results if used with a light speaker. It will probably be equal to a table or small console model mechanical gramophone.

Interference.

WE have an electric set and the passing trams cause a great amount of static. How can this be reduced? writes "G.S." (Wanganui East).

A.: Use a shorter aerial and run it at right angles to the tram lines. Use a counterpoise earth if an earth of any description is necessary. Try the cage aerial described in a recent issue of the "Radio Record." Communicate with the tramway authorities, who may be able to do something for you.

Power Transformer.

I AM going to construct a transformer to step 230 volts down to 110. What gauge of wire should I use and how many turns are needed?—H.E.L. (Wellington).

A.: I can give you the number of turns for a 1 $\frac{1}{2}$ in. core—820 primary and

set incorporates resistances in the filament leads to break the 6 volts supplied by the accumulator down to 5. If you use 6 volt valves the resistance will still be in the circuit, and will break down the voltage. That is, they will be running under maximum efficiency. It is more important to use 5-volt valves in the radio and detector stages than in the audio. For the power valve any 6-volt medium valve may be used, if it is suitably biased.

Insufficient Data.

I HAVE built a 1-valve set, but it will not oscillate, states somebody (name unknown).

A.: The data you have given us is insufficient. Send along the theoretical diagram or the details given with the set, and then perhaps we can help you. The fact that 2YA comes in at 150 means that your secondary coil is just about right. You dial is graduated to 180, whereas the usual dial goes to 90. Bring the tickler coil nearer the secondary.

Choke Coil.

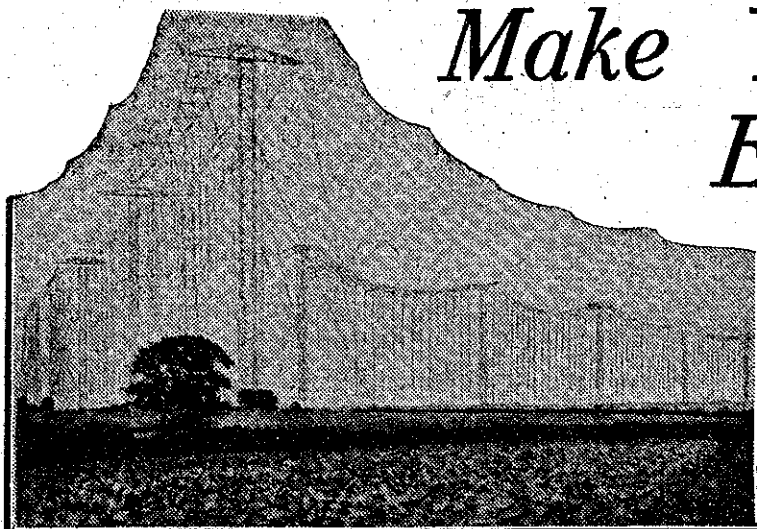
WHAT is the gauge and number of turns for the choke coil used in the 1928 "Radio Record" short-wave adaptor? "A.D.W." (Whangarei).

A.: 100 turns of 30 gauge wire wound on a 5/8 former. The winding will occupy about $3\frac{1}{2}$ inches.

Is Morse Necessary?

IS a Morse certificate necessary for operating a small "B" class transmitter? If so, why? "Radio Maniac" (Christchurch).

A.: Yes, it is stipulated that everyone who applies for a license must have a working knowledge of Morse, as most amateur transmission is conducted in this



Make Your Aerial Fully Efficient

An account of the types of aerials and hints in choosing and erecting

IF one were to remark to every second owner of a wireless installation, "You are losing strength because your aerial is not as efficient as it might be," he would be decidedly unpopular, but nevertheless substantially correct. Many, of course, will reply, "I am satisfied, and do not propose to interfere with my installation." To them all we can say is do not read a word more of this talk, but concentrate the programmes of the local station.

We all know the purpose of an aerial—to collect energy from the transmitting station. This energy is very weak, thousands of times weaker than that for the smallest radio battery, and effort is made to collect as much as possible. The more that is collected the more can be amplified by the wireless set, hence it follows that the more efficient the system the greater the volume.

The Importance of Height.

THE earth is not a good conductor of wireless waves, with the result that the strongest waves are not near the ground. This brings us to the first requirement of the ideal aerial—height. In every set there is a coil and a condenser that are used to bring the set into "reasonance" with the incoming waves. The waves with which the set resonates are those received. It is this fact that makes separation of stations possible. The condenser is a combination of fixed and moving plates electrically disconnected. This is shown in Fig. 1, designated "tuning capacity."

A moment's thought will disclose the fact that the aerial and the earth are in reality one great condenser, and being "in parallel" with the tuning condenser, the total capacity will be that of both. If the aerial to earth capacity is great, the tuning of the aerial system will be affected, and the set is affected. Especially is this of import-

ance where the modern single control receiver is used, where, contrary to general belief, a more efficient aerial system is necessary than with the older two-dial receivers. The capacity of an elevated aerial might be considered to be roughly .0002 mfd. but a low one may approach .0004, a value sometimes greater than the tuning capacity.

Signals will pass through a large capacity, and not through the detector. If the aerial is near an earthed object such as a tree, roof, damp wall, etc., the

wave trap will be needed if the local station is to be passed.

Four valves with one stage of radio amplification, 80 to 100 feet.

Five and more valves will find 60 to 75 feet ample.

These figures include the lead-in.

According to a recent authority, the most effective aerial is one with a lead and aerial in the relation of 7 to 3. Roughly the mast is twice as high as the aerial is long. A fifty-foot mast and a 25-foot aerial make a good combination.

Directional Effect.

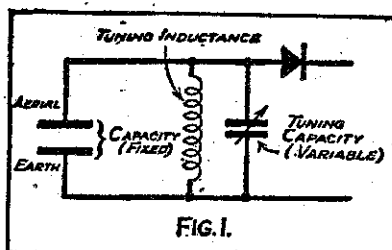
RECENT experiments have shown that for the multi-valve set directional effect is not important, and only when the set is so small that the relation of height to length is 1 to 3 can the effect of direction be appreciated. That is to say, that with a 40-foot mast the aerial should be 120 feet, but as we have already shown such a system cannot be successfully employed on the multi-valve receiver. A directional aerial is of most value to the owner of the crystal or small valve set that is capable of receiving only the local station. The free end should point away from the transmitting station. This naturally refers only to the inverted L aerial, which is the most successful. If conditions do not allow its erection, the T type with the lead-in coming from the centre is used. It is important, however, to see that the lead comes from the exact centre.

Insulation.

THIS is where most installations fail.

The insulators are frequently not put on correctly, with the result that they break under strain, and a makeshift is used until the aerial can receive attention, which is usually a considerable time. Diagram 2 represents a well insulated system, and the inset shows clearly the method employed in coupling insulators. Note the endless halyard passing over the pulley attached to the masthead. If a single halyard is used and the aerial breaks near the mast, or if the rope sticks in the pulley, the mast may have to be lowered (or climbed!).

Two or three small insulators are preferable to one large one, and all insulators should be secured in such a way that if one breaks the wires themselves hold and prevent the aerial from falling. At the "house end," the aerial is secured to a distance piece, which may be of aerial wire, and this in turn is secured to a galvanised iron band (say of 1½-inch by 1-16-inch section), bolted round the chimney above a convenient projecting ledge. The distance piece, or spacing wire, keeps the down-lead away from the roof-gutter and walls of the house, and, as shown, is insulated from the aerial and from the



capacity to earth will be increased, and there will be losses which will be more apparent in wet weather.

We have arrived at the first asset of a good aerial—it must be high and clear of all earthed objects.

Height is probably the most important consideration in erecting an aerial system. Unfortunately it is generally the most difficult to obtain, for the erection of tall masts is not as simple as it may appear. The optimum height is 40 feet. Beyond this the signal strength does not increase in proportion to the increased height. Below this there is a rapid decrease in strength for every foot descended, and tuning becomes flatter. The reasons have been made clear in the text referring to the condensers.

Aerial Length.

HAVING decided that the aerial is to be no less than 40 feet high, let us examine the next important consideration—length. This depends upon the type of receiver to be used, bearing in mind that the greater the length up to three times the height the stronger the signals. With the large sets using several stages of radio amplification, the aerial should be short, otherwise the capacity to earth will be increased and the aerial circuit thrown out of resonance. The losses from this factor result in a flatter signal (unselective) and a weaker one through not enabling the set to resonate. The accompanying table gives some indication of the length for the different types of sets.

With a crystal or a small valve set where only the local station is desired, a long aerial should be employed, where possible—100 to 150 feet.

Three valves using reaction will find 100 to 120 feet quite sufficient, but the

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A.J.S. Senoir Horn Speakers	each	£3	0	0
A.J.S. Cone Speakers	each	£2	10	0
Baldwin Jnr. Horn Speakers	each	£1	10	0
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chimney. We have already spoken of the need of avoiding trees and other earthed objects. Better to use a short aerial that is clear of these than a long one passing over any of them.

Gauge and Type of Wire.

A NUMBER of readers have written in asking what advantage enamelled wire has over bare copper wire, when used for an aerial. In districts near the sea, or in the thermal regions, salt spray in the first case and sulphurous gas in the second, have a corroding action upon the copper. This has no effect upon the electrical properties of the aerial unless it goes too far and increases the resistance of the wire. When it has reached this stage, the wire will have corroded to such an extent that a breakage will occur.

To prevent this it is advisable to employ enamelled copper wire. Unlike direct current, radio frequency electricity passes on the outside of a conductor. If the outside is insulated, either by corrosion or enamel, the current penetrates further into the centre. Practice has proved 7/22 or similar wire to be the most suitable.

Types of Aerial.

AMBITIOUS but uninformed enthusiasts sometimes erect most elaborate cage and multiple wire aerials. They certainly look imposing and awe the outsider, but the old hand merely nods—"He'll learn some day." For his

will have less effect on the magnitude of the received current. As an illustration, a single wire of 20 gauge was substituted for two-stranded wires of 3/18 gauge and there was no perceptible difference in the signal strength though the resistance of the former is about eight times that of the latter. The explanation is that the actual ohmic resistance of the aerial is only a very small proportion of the total resistance incorporated in the system. To be of effect an elaborate multiwire system must be supported with elaborate screen earths.

Cage aerials are used by transmitting stations and there is no advantage to be gained by using them for reception. In fact, the added capacity of the aerial system has a distinct disadvantage when coupled to a receiving set.

Summary.

HAVING now reached a convenient stopping point, the end of the theoretical considerations, we shall defer the remainder of our chat till next week, when we shall consider the practical aspects in erecting the aerial. However, in conclusion, we shall summarise this week's article as a refresher. The optimum aerial for the modern set is—

1. At least forty feet high.
2. 60 feet long.
3. Well insulated and clear of earthed objects.
4. Stranded insulated wire is preferable.
5. Multiwire aerials are only effective with an elaborate earth system.

Moving Coil Speaker Operation

Overloading Rectifiers

MANY moving-coil speaker users energise the field from a battery charger which includes a dry rectifier. The output of such a device is, of course, unsmoothed, but the heavy inductance of the field windings is generally sufficient to provide practically all the smoothing required.

In some cases, however, and particularly with moving-coil speakers which really go down below 100 cycles, there is still sufficient hum to be annoying, and it has been discovered that this hum can be removed completely by connecting one of the very high-capacity electrolytic condensers across the field windings.

What is not generally known is that the presence of such a condenser greatly increases the load upon the rectifier, and may in some cases seriously overload it. Take, for example, the case of a loudspeaker which, when connected to a dry rectifier, giving six or seven volts output, takes just under an ampere, which is not too much for the particular rectifier.

The connection of an electrolytic condenser across the winding will mean that the rectifier is called upon to give not only the one-ampere field winding, but a very considerable additional current, which will flow into the electrolytic condenser at each pulsation. In such circumstances the load on the rectifier may rise considerably above one ampere, and this point should be carefully watched by those who are running dry rectifiers near to their safe limits.

Laboratory Jottings

M.P.A. Speakers.

CUNNINGHAM, LIMITED, have sent two fine examples of the M.P.A. line of speakers, the popular cabinet (priced at £4 10s.) and the popular plaque (£2 10s.).

The popular plaque is a cone type speaker with unconventional wood-work. It has a fretted front, supported by an octagonal frame, and is in all a very neat and efficient speaker. For a light speaker it covered a remarkably wide range of frequencies. It will respond to the range of a piano up to about 3000 cycles with very little attenuation. This is probably the highest frequency used in piano music. The frequency limit of the speaker is much higher than this, as it brings in all the overtones necessary to preserve the quality of instruments such as the violin, flute, and piccolo. The bass is surprisingly strong, for it will go down into the region of the drums without difficulty. It will even reproduce, though somewhat thinned, the deep notes of the 'cello. Its sensitivity is very sharp, in fact we have worked this speaker with satisfactory results directly from a crystal set.

The popular cabinet is a much heavier speaker, using a bigger cone and unit. In its reproduction it is quite the best we have heard for cones. It is strong on the upper notes, bringing in clearly and crisply notes three octaves up from middle C. It will go down two octaves below C, and this brings us into the region of the 'cello, the bass clarinet, and the French horn. This speaker, too, is very sensitive, but not quite so sensitive as the plaque. It will handle a

Trade Personals

Messrs. Abel, Smeeton, Ltd., Crogley distributors, recently opened a retail branch in Bank Street, Whangarei. They have had a representative in this district for some time now, but this new departure seems to indicate that they have faith in the radio future of the North Auckland district. Mr. G. A. Temple is in charge.

Our nomination for the first radio man in New Zealand to receive an air pilot's license is Mr. E. R. Boucher, who, on the 1st February, passed his pilot's test in Auckland, and received his permit to fly. No doubt, in the conduct of his business, he will soon be planing over New Zealand.

Mr. S. E. Moe, formerly manager for the Selected Radio Co., of Auckland, has commenced business on his own account in the Civic Theatre Block, Auckland. He is handling the Silverstone line of sets.

Mr. C. R. Ralph, L. M. Silver and Co.'s, Ltd., of Wellington, manager, is at present visiting his North Island agents.

R. G. McCartney, manufacturers of the Coates water heater, has installed at the Wellington Botanical Gardens for the City Council a hot-water system keeping a regular temperature of 70deg. Fah. for the forcing of early blooms.

greater output, but both speakers can deliver ample for an ordinary room without overloading or blasting. Neither speakers are harsh or metallic, the cabinet particularly having a pleasing round mellow tone. It is finished in a deep shade of rosewood.

Messrs. N. R. Cunningham must be congratulated on these two very fine lines.

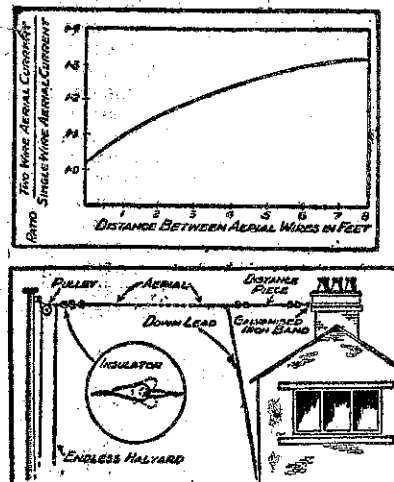


Diagram 2 (lower).
Diagram 3 (upper).

benefit we reproduce a curve showing the effectiveness of a twin wire aerial with varying distances between the wires. It will be seen that if two wires are used they should be at least six, and preferably eight, feet apart. Even with this spacing the increase in current obtainable over that on a single wire is not large, being about thirty per cent. in the case quoted.

Using the full eight feet, further measurements made with three or four wires arranged symmetrically showed that nothing was to be gained by increasing the number of wires in this way. The measurements were carried out with a fairly efficient earth screen, the lowest actual resistance of the aerial circuit being in the last case about 11 ohms. If as may be the case with the average aerial a much higher resistance were associated with the earthing system it is evident that any improvement in the aerial alone

First hear the M.P.A. Loudspeakers

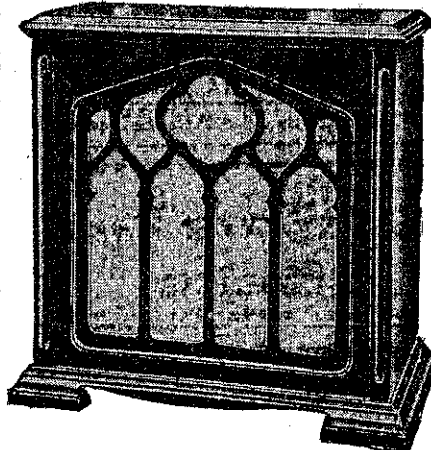
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MPA EXCLUSIVE features REVOLUTIONISE previous standards of reproduction! Fine, full, sonorous volume. Symphonic woods in construction give extraordinarily sweet and mellow cello-like tone. NOTHING LIKE IT HAS EVER BEEN HEARD BEFORE. Every MPA Loudspeaker is a thing of beauty. The Technical Department of the "Radio Record" states: "We have tested out MPA Speakers, and have found them most satisfactory."



Concerning the Popular Cabinet, the "Wireless Trader" Test Report says: "On the whole, it may be said that the instrument puts up a very creditable performance, and judging by the sample that was sent to us, we

feel justified in stating that it is one of the best speakers of its price that we have heard for some time."



Note these Prices:—

Popular Plaque	£2/10/-
Popular Cabinet (as illustrated)	£4/10/-
Table Grand	£7/17/6
Panavox	£9/10/-

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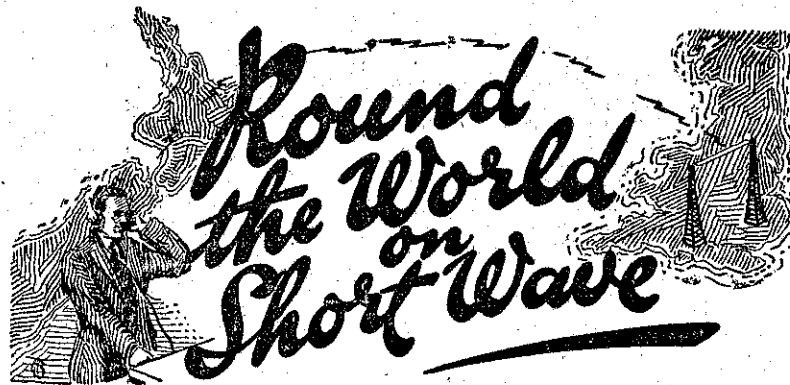
MASTERTON.

France on Short-wave

ON Thursday, March 13, from 9 p.m. to 9.30 p.m., two stations were testing. One on 24.5 metres gave the call "Ici, Paris," the other on 25.3 metres, "Ici, St. Gall, Switzerland." French was spoken from both stations. May I make a suggestion? Would Mr. Sellens write up his S.W. notes as he used to do, i.e., Monday's reception, Tuesday's reception, etc., instead of heading up with the name of the station, as those of us who keep a log find it much easier to check results? Wave-lengths do not need to be submitted, and I am sure it would make much more interesting reading. I have just received confirmation from W3XAL; no information about station was given. Below is copy of the letter: "Thank you for your report of reception of the short-wave programme as broadcast over Station W3XAL. We are always interested in knowing just how these broadcasts are being received, and appreciate your writing.—Cordially yours, National Broadcasting Co. (Inc.). The address was: National Broadcasting Co. (Inc.), 711 Fifth Avenue, New York.—H. F. Adcock (Masterton)."

An American Amateur

MR. R. LESLIE JONES, of Lyall Bay, Wellington, writes: In two letters, dated February 4 and 10, received from Mr. Fred Easter, Cincinnati, Ohio, U.S.A., says conditions are improving for short-wave reception there, summer months from March until October being the best period. He has heard the German station on 31.38 metres very loud on speaker after 22.00 G.M.T. Mr. Easter acknowledged several illustrated booklets on New Zealand, remarking thereon that he was surprised to learn of such high mountains. He heard a broadcast by 2YA, Wellington, through VK2ME (Sydney) on February 4. His district suffers from interference from W2XAF on the Zeesen station, in the form of cross talk at times, his receiver being 650 miles from W2XAF. "W2XAF sure has a wallop here," says Mr. Easter; "it comes in like a ton of bricks." He has not heard any Java stations on phone for a long time, owing to poor conditions; on the previous summer he heard PLF every morning, but he states it has a very poor and unsteady wave. The best he has ever heard this station was about QSA3. PLG on 18.88 metres last spring was clear at fair volume; but he has not heard PLG since May, 1929. He has not heard PLE. The United States-London phone stations, such as GBU, WMI, etc., are using a "distortion" system now that muddles their talk so that



it cannot be understood by anyone who does not have the proper receiving equipment to straighten the talk out again. This "distortion" system is evidently being tried out occasionally only. "I hear all the short-wave stations in Wellington at good strength," states Mr. Easter. "Electrical QRM is very bad in Cincinnati on the short-waves, and a lot of interference from harmonics from stations operating on the 200-500 metres band; and we sure have a number of them (about 600), and harmonics are plentiful here on the short-wave bands." Mr. Easter mentioned that there were 17,000 licensed amateurs in America, also a great many in Canada, and QRM makes it difficult to hear local hams in the evening. He uses a screen-grid radio-frequency stage. GBS, GBU, and GBW (English stations) work the trans-Atlantic phone service with U.S.A., and use different wave-lengths at various periods of the day, according to conditions. Christmas Day, the National Broadcasting Company relayed PHI, G5SW, and Zeesen, Germany. Stations G5SW and PCJ are best in America from March to October. Stations are piled on top of each other, making it difficult for foreign stations to get through. The Radio Commission has lately granted permission to amateurs to use the 20-metre band (14,000-14,300 k.c.) for phone transmission. H5-1PJ, Siam, broadcasts on 16.7 metres, and should come in close to PHI on 16.88 metres. The A.C. set has become so popular that battery sets are a drug on the market; some battery sets originally costing 200 dollars two years ago being sold for 5 dollars now second-hand."

Short-wave Notes

IN last week's issue Mr. C. R. Clark (ZL2AW) states that the record for reception belongs to Mr. J. Mills, of Hastings. He has received 56 American stations and has 42 verifications. Well, I must congratulate Mr. Mills on that lot! His log beats mine by seven; my reception of the broadcast band includes New Zealand, Australia, Philippine Islands, Japan, America, Canada, India, and Madrid.

A scribe in one of the local papers was a little doubtful of my hearing one of the Spanish stations. To make sure. I lost a little more sleep and logged the station on two more occasions, a witness being present on one of them. Mr. Clark gives an account of amateur transmitters received and of stations he has worked. I also am interested in that section, but did not include amateur stations in my reports because if one entered up every Morse station the log would soon total four figures.

Regarding WTAMP, of Alaska, it is quite possible I made a mistake when I stated that this station was working with 150 volts instead of 150 watts. Mr. Clark mentions in his report that with 150 watts power it could easily reach across from Alaska to New Zealand. Well, I do not think a New Zealand ham has reached across to Alaska per phone on 80 metres with 150

watts power. If so, I would very much like to see a verification for same. No doubt Mr. Clark read my report wrongly, and thought I meant I had heard WTAMP Alaska by Morse code, but same was received by phone. Perhaps this is the first time an amateur in Alaska has been heard in New Zealand on phone on 80 metres.

Mr. Clark mentions that Mr. Mills has a very fine phone station, and probably the best in New Zealand. My opinion is that he has the finest phone on the amateur band at the present time. His modulation is always perfect, and a pleasure to listen to. I would give 2AX, Palmerston, second place, then comes 2AW Wellington, 2BY Wanganui, and 2AB Otaki. Another station that comes through with plenty of kick is 2BB Hastings, but his modulation needs a little cleaning up.

Last year we used to hear some fine work on 80 metres from the Australian Amateurs, but so far this year nothing is doing, although some are heard on 40 metres. On account of interference from Morse stations they are not worth listening to. So far I have not heard any amateur phone on 20 metres. The station I reported through Mr. Sellens's notes (operating on 90 metres), I have since heard. His call is WCK "Handly Radio," and Mr. Sellens tells me the station is operated by the police department of a State of America.

This last week or so I have heard two stations working on 10 metres—I think on duplex. Each speaks in a foreign language, but on March 6, at 11.35 p.m., one of the stations announced in English that "This is experimental station EN, making experiments on 10 metres." A few words were then Morsed, and I caught the words "March 25." Probably his tests will continue till then. I listened to him for two hours, but could not log his call correctly, and could not get his locality. The other station works one degree above him, but is not quite so strong. Strength from the 10-metre station was at R5 to 6, and very steady. On Saturday, March 8, two new stations were heard, one on 31 metres. The operator gave his wave as 33 metres, but he was working just below PCJ Holland. At the time I tuned him in, a little after 4 p.m., he was thanking listeners in America for donations (what for, I did not hear). He asked for reports from anyone hearing this transmission. He signed off then with "Good-night, everyone." His call was given, but I could not understand him. He was also heard on Sunday, March 9, but still no call was heard.

Also on March 8 another station was heard on 48 metres, approximately. Musical items were announced in a foreign language, but before he signed off he made an announcement in broken English. The call sign was given as XC— and a number was given, but did not catch it. He also mentioned that the station was situated on the borders of Central America. He also spelt the name of the city where it was situated, but reception was not too good, and I could not follow it. I think this is a station situated in Mexico, because of the two first call letters.

W9ZF, of Chicago, has temporarily closed down, and is making tests

for antenna design, and was heard testing on Wednesday, March 12, at 9 a.m. Also W3XAL was also heard testing, the former on 6020 Kc. and the latter on 6100 Kc. I would ask short-wave listeners who can tune their receivers down to 10 metres to search for the two stations mentioned above, usually on the air after 11 p.m. It seems this is the time of the year when it is best to be picked up, because of the report in the paper this morning of the Auckland amateur and his two-way conversation on 10 metres with France.—A. P. Morrison (Wellington).

Australian Industry

AN industry in Australia which is particularly active at the moment is the manufacture of wireless transmitters. Among recent orders for transmitters is one for the New Zealand Government's new lighthouse steamer at present under construction in England; one for the West Australian police, one for use at Cockatoo Island, off the coast of West Australia, one for Samoa, one for the New Zealand Post Office, and one for the Pacific Islands service. The police equipment comprises a two kilowatt transmitter, which will be installed at Radio Centre, Perth, and two short-wave transmitters for use on the police patrol cars. The plant for the New Zealand lighthouse steamer is a 1½-kilowatt C.W. and I.C.W. valve transmitter tuned for 600, 705 and 800 metres. It comprises also an emergency set utilising a small accumulator battery and a 100 watt dynamotor for driving the main set. This equipment includes also receiving apparatus covering a range of from 10 metres to 25,000 metres. The Samoan transmitter is a 1½-kilowatt instrument for communication mainly between Apia and New Zealand. It will link up also with the transmitter mentioned above as intended for the Pacific Islands service.

THE radio station at Berlin recently transmitted an interesting item, in which an ex-convict, introduced to listeners as such, gave his views on prison life. The occasion was a dual broadcast discussion of prison revolts, of which there have been several more or less serious examples recently in the United States and Berlin.

THE Swiss broadcasting system is being thoroughly reorganised under the Ministry of Posts and Telegraphs; in this connection a site has now been found for one of the two high power stations in the region of Montblanc. The erection of this station is to be commenced forthwith.

FOR SALE OR EXCHANGE

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

"WESTINGHOUSE" your Battery Radio, eliminate batteries. Results superior to most A.C. Radios. Guaranteed. Write us. Johns, Ltd., Chancery Street, Auckland.

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MADE IN NEW ZEALAND FOR NEW ZEALANDERS.

MACK'S Radio Service

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'Phone 20-798.

AN exchange states that Germany proposes to build in the near future seven super-broadcasting stations—each costing about £800,000—to replace the present main stations. A parallel system of low-power stations will also be created for single-wave transmissions. The power of the new stations will probably be 60 kilowatts, with the possibility of being lifted to 100 kilowatts, which is the maximum power agreed to at the recent Hague Session of the International Consultative Technical Committee.



ventor is already in a position to discuss the practical possibility of flashing the images on a motion-picture screen so that large audiences can receive television broadcasts of important events immediately after a film of these is printed. These visual broadcasts would be synchronized with sound. A number of these receivers are now being constructed in order to give the set a thorough field test through station KDKA, Pittsburgh, which already is operating a daily television broadcast schedule.

THE London and North-Eastern Railway has recently conducted experiments in the use of wireless for handling goods trains in shunting yards, the object being to provide a means of communication between the engine-driver and the operator in charge of the control tower from which shunting operations are directed. A similar system, though a more elaborate one, has been in use for some months at the Berlin shunting yards, and is reported to be entirely satisfactory. Some slight trouble was experienced in the initial stages, however, owing to the fact that when the engines were blowing off steam, slight charges of static electricity which interfered with reception were generated.

early as 1865. This pioneer built an oscillating circuit, sent up an aerial by means of a kite and by interrupting a "buzzer-spark circuit" sent dot and dash messages to a station 15 miles away. It is stated that reception was accomplished with a galvanometer. The inventor's patent of 1872 claimed to utilise atmospheric electricity for telegraphic purposes, and though the Loomis Aerial Telegraph Company was formed in 1869 to develop Dr. Loomis's ideas it was found impossible to secure adequate financial backing.

AN enterprising radio firm in England now have their own travelling wireless demonstration van. It has a staff of four and is divided into driver's cabin, engine room, sound-proof studio and control room, making altogether a complete broadcasting station from which can be sent out either

the car's own programme or relays from British or foreign stations. All the power required is provided by an alternator driven by a petrol engine. The amplifier is extraordinary. It is rated at 600 watts and the rectifier carries a potential of 8000 volts. The transmitting valve has a filament as thick as a lead pencil; 4000 volts is applied to its anode. Communication with the announcer is done entirely by means of a highly ingenious indicator board operated electrically.

OIL prospecting by wireless and acoustic devices has engaged the attention of seven petroleum companies in the United States. The Federal Radio Commission has just allocated five frequencies for "geophysical exploration," these ranging from 1600 to 1704 kilocycles. In the combined radio and acoustic devices calculations are based on the time between radio and sound waves transmitted simultaneously from a given spot. Geological and other considerations affect the speed of the sound waves, which often reveal the presence of oil. The apparatus is an adaptation of the equipment described in our article, "Treasure Hunting by Radio," published some time ago. This invention, by recording the disturbances created in a powerful magnetic field by hidden metal, could thus indicate to the treasure-hunters the spot to commence excavations.

"SONOROUS perspective effects" is a phrase employed by a French wireless amateur in describing the results obtained in experiments he has conducted with two pick-ups and two identical gramophone records played simultaneously. By slightly retarding one record and carefully adjusting its volume, the inventor claims that a genuine stereoscopic effect is obtained, especially when two loudspeakers are employed.

IN order to cope with international gangs of white slavers, drug smugglers, and groups of crooks, acting internationally, an alliance has been formed between Scotland Yard and the Paris and Berlin authorities, whereby a leading detective from each country will be stationed in each capital. The three centres will be linked up by direct telephone and by radio stations specially erected for international police work. The keynote of the scheme is swift concerted action of detectives in each country in connection with crimes concerning the nationals of either. Plans are also maturing to establish an apparatus in each capital to enable the wireless transmission of photographs and finger-prints.

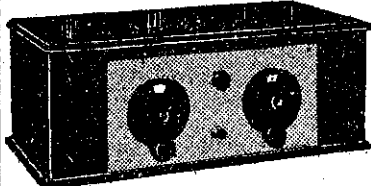
TELEVISION which can be viewed by a room full of spectators rather than by one or two was announced recently by Dr. Vladimir Zworykin, an American research engineer. The in-

INVESTIGATIONS recently carried out by the Federal Radio Commission of America have revealed that less than half of the broadcasting stations in the United States are making profit or even expenses. Nevertheless, the figures indicate that steady gains have been made by the broadcasting industry financially since the birth of radio entertainment, and indications are that in time all stations will be self-sustaining, if not profit producing. An analysis of the 340 average broadcasting stations included in the tabulation shows that 172 lost money in amounts up to 10,000 dollars (£2000) or more over a period of a year, while the remaining 168 stations realised monetary gains up to about the same figure. The greatest losses were reported by the high-powered stations.

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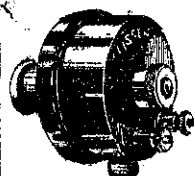
A kit set for long and short-wave reception, with a splendid range and volume. Very compact and easily constructed. Price £6

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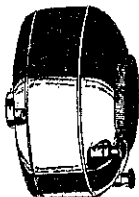
Your radio dealer can supply Lissen Parts . . . or send direct to

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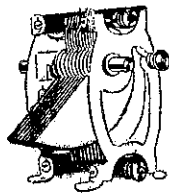
LISSEN LOUD SPEAKER UNIT. For building any style of loud speaker.

Price 17/6 each



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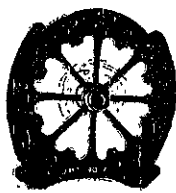


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Price 3/- each.

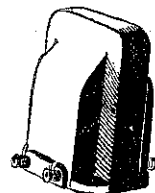
.00035 Price 8/6 each.

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LISSEN REVOLUTIONISING CONE SPEAKER. Fills in the missing notes.

Price £2/10/-

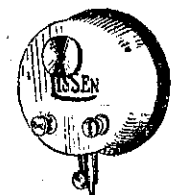


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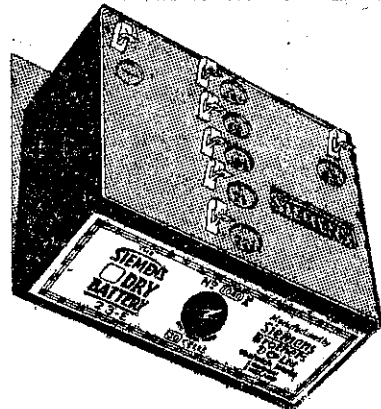
LISSEN L.F. TRANSFORMERS.

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LISSEN ELECTRIC PICKUP. External and Internal fitting.

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

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WIN A WASHING MACHINE

*With
Seven
little
Reasons*

RULES and CONDITIONS

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

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

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



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

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

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

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

Name

Address