

PUBLISHED WEEKLY

THE RADIO RECORD



HOME JOURNAL

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Price, 3d.

"The Heart of Your Radio"

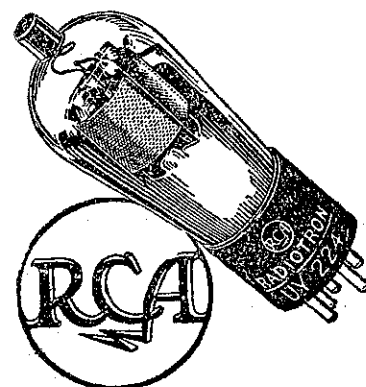
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RADIO

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Questions and Answers, being specially prepared for New Zealand listeners by "Radio Record" technical writers, spells "good-bye" to hold-ups in pleasant entertainments.

Questions and Answers contains a fund of information that in actual experience would not be acquired in a lifetime.

The booklet gives a complete introduction to radio, with the diagnosis series which was previously published in sections in the "Radio Record." This section has been improved and extended, and now every part of a radio set is explained—separately and in detail.

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Here is a list of the various sections of "Questions and Answers"—judge for yourself the value of this conservatively-priced publication:—

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- Valves and Valve Replacements.
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- Home Constructed Apparatus.
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- Power and Other Noises.
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- Condenser and Coil Combinations.
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DEALERS.

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Radio Record
—AND—
Home Journal

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DEALERS.



Above: The landing of the whalers re-enacted.—When in 1831 the first whaling boat touched the shore at Otakau, the Maoris rushed down to the shore threatening hostilities, but they were pacified. The Peninsula saw the establishment of the first whaling station in Otago.

Below: The Governor-General unveils the tablet.

—Photos by courtesy "Evening Star," Dunedin.

The LANDING of the WHALERS

Historic Event
re-enacted
when Governor-
General unveiled
Memorial Tablet

A hundred years ago, Europeans were finding their way gradually to New Zealand, laying the foundations of our history. And so, during the next few years there will be many interesting centenaries. Last week, at Otakau, on the Otago Peninsula, the centenary celebrations in connection with the landing of the whalers in 1831 took place.

Occasion was taken for the Governor-General to unveil a tablet marking the landing ground of the pioneers. Arrangements were made for 4YA to broadcast on relay a running commentary, and although many difficulties were encountered with relay lines, the district telegraph engineer finally provided a remarkably good line, and a successful broadcast took place.

THE uniqueness of the relay took colour from the fact that the tablet which was unveiled was let into a rock of uncertain foothold, which is almost completely surrounded by water. This rock, named by the Maoris, "Te Umu Kuri," was the actual spot on which the whalers, the Weller brothers, who were the first pakehas, landed and hoisted the British flag.

The rock, which is quite small, is situated near the Otago Heads, and juts into the harbour, and there was little room for the 200 people who were fortunate enough to gain access to it.

On the highest point of this miniature peninsula was 4YA's microphone. From here, the whole proceedings were broadcast. The day being beautifully fine, those looking down upon the proceedings from the high cliff at the shore must have been rewarded for their climb by a striking scene.

The black rock jutting into the deep blue waters of the harbour was covered by pakehas and Maoris, the latter in their colourful Native costumes, with the Vice-Regal party standing on the rock's summit near the microphone.

After the official reception to their Excellencies by the Mayor of Dunedin, Mr. R. S. Black, the actual arrival of the original settlers was re-enacted. As three whaleboats rowed by red-capped and bearded sailors pulled in to the shore a band of Maoris rushed toward them shouting and gesticulating. The Maoris, after some display of force, were pacified with gifts, and a haka of welcome, poi songs, chanties, and songs by the Maori children were given. Although the songs were sung and the speeches delivered from several points of the rock the microphone caught everything, and listeners had the pleasure of hearing Native melodies, speeches by the Governor-General, the mayor, and chieftains of the Maori race.

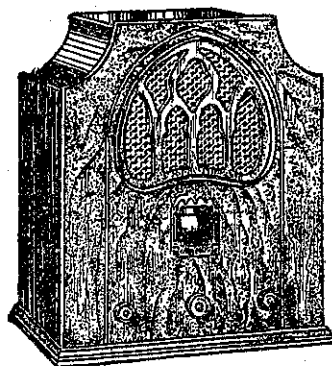
The Maori children, as well as several of the older Maoris, were fascinated by the microphone, which they saw for the first time.

On one occasion the children came a little too close to the microphone until an aged Maori spoke to them, whereupon they drew back quickly. An inquiry being made, it was found that the children had been told that the "mike" was "tapu" or "forbidden."

THERE ARE NEW FEATURES IN RADIO!

and Majestic has them ALL!

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- The "MODULATED" Circuit
- TWIN POWER Detection

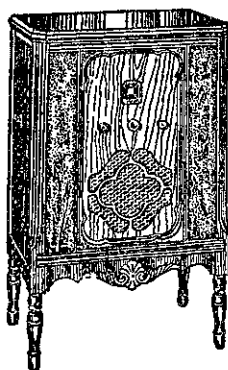


MAJESTIC ELLSWOOD.

A lowboy of early English design with recessed centre panel and matched butt walnut side panels. Handsome wood carving. Equipped with Majestic 5-valve superheterodyne chassis of monitor construction, using Spray-Shield and Pentode valves, "Modulated" circuit, tone control and Grand Opera Speaker.

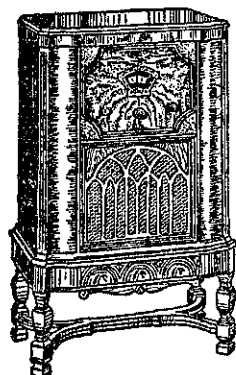
MAJESTIC HAVENWOOD.

Exceptionally selective and beautifully toned. Georgian design with recessed Gothic grill in matched walnut front panel. Majestic 5-valve superheterodyne chassis, providing "Modulated" circuit, tone control, Spray-Shield and Pentode valves and full dynamic speaker.



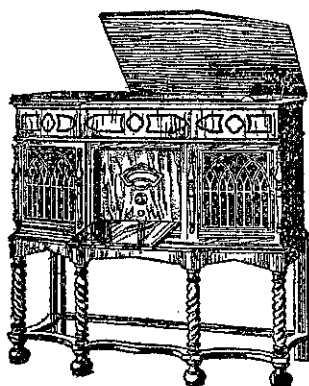
MAJESTIC BRENTWOOD.

Jacobean Lowboy with marvellously grained matched butt walnut centre panel, with lacewood overlays. Side panels of Serpentine curved walnut. Recessed Gothic grill. The Majestic superheterodyne chassis uses 9 valves, including Spray-Shield, Multi-Mu and Twin Pentode Output, Twin Power Detection, tone control, and Grand Opera Speaker.



MAJESTIC ABBEYWOOD

The finest radio-gramophone. True Charles II period, in butt walnut, exquisitely inlaid. The Majestic 10-valve superheterodyne chassis; automatic volume control, Spray-Shield and Multi-Mu Valves; twin power detection and twin Pentode output; tone control and twin Grand Opera Speakers. Electric pick-up and turntable; automatic record changer, handling 10 records.



The new range comprises eight models—four only being depicted above.

Good news for Majestic dealers! Contrary to expectations, selling of radio receivers this year will not be confined only to the mention of Multi-Mu and Pentode as features. Majestic has them, of course, but Majestic engineers have developed yet newer AND MORE IMPORTANT ACHIEVEMENTS!

SPRAY-SHIELD VALVES, by which shielding metal is placed directly on the valve itself. No more metal cans... yet higher efficiency in the valve.

TWIN POWER DETECTION—The proper utilisation of two detectors for yet truer tone was found by Majestic engineers in a British set, in the Science Museum in England, known as the "Perfect Quality Receiver," and adapted to Majestic valves and methods.

THE "MODULATED CIRCUIT," worked out in collaboration with Hazeltine Laboratories, by which the functions of two valves in the usual superheterodyne are now performed by one.

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Board Control of Broadcasting

Bill Passes All Stages

IN moving the second reading, the Postmaster-General commented on the development of broadcasting in New Zealand. Broadcasting was a recent development, but it had already become an important factor in the social and educational life of the people. It had established itself on a firm foundation and was entitled to consideration as a part of the national life. Mr. Hamilton referred to wireless services other than broadcasting in New Zealand, and said that the Postal Department had about £64,000 invested in wireless.

Broadcasting was of both national and international importance and had consequently to be very carefully controlled. There were different forms of control in different parts of the world, and it appeared as if the general system of control was passing through a transition stage. Britain was the only country that had adopted State control, but Australia was moving in that direction, and the Bill, if passed, would place New Zealand on a similar footing to Britain. Broadcasting was of such a public nature that the State must inevitably take a large share in its control.

Referring to the agreement with the Radio Broadcasting Company of New Zealand, the Minister said the company had developed the service at a rapid rate. When it commenced operations there had been only 5000 listeners-in, and now there were 67,000. The company's license expired on December 31, and the time had arrived when the Government would have to make new arrangements.

There were two things the Government could do—either establish a board to control radio or form a public company for that purpose. One of the difficulties of public ownership was the question of sound finance. It was difficult to control a publicly-owned company because the public would want a good service without much expenditure. A great deal could be said in favour of a company, but it would be difficult for the State to enter into an agreement with a company that would be satisfactory both to the company and the Crown. The present company had taken a great risk when it entered into the agreement with the Government in the infancy of the broadcasting system, but the risk had been justified. The revenue from licenses now amounted to about £80,000 a year.

Purchase of Company's Interest.

THE company had hoped for a renewal of the agreement, but the Government had decided to exercise its right to purchase the company's interest. The price to be paid would be agreed upon between the Government and the company, if possible, and if that proved impossible it would be submitted to arbitration. The Government was proposing to follow very similar lines to those adopted in Great Bri-

The Broadcasting Bill, introduced some time ago by the then Postmaster-General, Mr. J. B. Donald, was, this week, again brought before the House by the Hon. H. A. Hamilton (P.M.G.). With slight alteration it passed through the remaining stages.

As a result, broadcasting in New Zealand will, from January 1, 1932, be placed under the control of a board of three, selected by the Postmaster-General, with an advisory committee of eight.

tain. There was some opposition to public control, but the broadcasting system was so essential a public institution that it would have to be controlled by the public.

In reply to a question regarding B stations, Mr. Hamilton said that was a matter of policy for the board. He believed the Government would get a good type of man for the board. He had received a great many applications for positions on it, but he had not considered them, and would not do until

the Bill was passed. The Government had lent £15,000 to the company, and that would go toward the purchase price of the system.

Dealing with the Bill in detail, the Minister said that it proposed to set up a board of three members, and not of four, as had originally been intended. The £1350 previously proposed as remuneration to the board would be retained, the chairman receiving £650 and the other two members £350 each. The board would have power to establish advisory committees wherever there was

a station, and these committees would help with the arrangement of programmes.

Advisory Council.

THE Bill also proposed to establish an advisory council of eight members, five from the North Island and three from the South. The council would only act in an advisory capacity to the board, but it was considered by the Government that some such system was necessary to enable listeners-in to have some say in the control of radio. The members of the council would be appointed by the Minister from nominations received from the various listeners' organisations. The council would probably only meet about once a year. Members would receive travelling allowances and probably a guinea a day while attending to the business of the council.

After a short discussion, during which no objections were raised to the principle of the Bill, it passed the second reading.

The Final Stage.

ON Thursday last the Bill came before the House again, and after a comparatively short discussion was put through its remaining stages and passed. During the committee stages several members made a plea for favourable consideration for the B stations. The Postmaster-General admitted that the B stations were doing good work, but said the policy in respect to them would have to be decided after the board had been set up.

It might be better to make arrangements with the B stations, and bring them up to a certain standard so that they would be able to carry on with the assistance of the board. His information was that there were about 36 B stations in New Zealand. Perhaps 12 would be enough to assist, but he did not know. If a standard were set up for 12, that might be sufficient to provide an efficient service. The B stations were doing valuable work, and 12 established on a sound basis would probably give quite a good service.

In reply to a question, Mr. Hamilton said the board would have power to assist these stations. The question of the land lines would be one for the board to decide. Mr. Hamilton pointed out that all the revenue did not come from listeners; a fair proportion came from traders.

On coming before the Legislative Council the Bill was accorded unanimous support. During the debate the Rt. Hon. Sir Francis Bell said it was not fair, as some critics had done, to abuse a company which had done its best under the circumstances. He was not associated with the company, nor did he know one person in it, but he thought that nearly every man and woman in New Zealand who had subscribed to the service was indebted to the company for its work over the last three or four years.

The views expressed by Sir Francis were endorsed by the Hon. G. Witty. (Concluded on page 30.)

Six Talks on

"The Life and Work of Bernard Shaw"

By the

Rev. William A. Constable, M.A.

Synopsis No. 6.—"St. Joan."

"ST. JOAN" was first produced in 1923 and published in 1924 with a preface on the history of Joan of Arc, her character, the treatment of her in literature, and the general message of her life for to-day.

In the play we have all the old brilliance and power combined with a mellowing influence that is at times distinctly poetic.

The conflict of character and ideals between Joan and her opponents is splendidly maintained—in spite of the fact that Shaw has made his task more difficult by trying to be fair to the opponents of "The Maid." Bishop Cauchon is drawn as a sincere churchman, anxious above all for the welfare of the whole Church, just as the Earl of Warwick is a study of the finer type of Feudal nobility. In making these two condemn the incipient Protestantism and Nationalism of Joan, Shaw is taking a license. But he confesses to this in the preface; for "it is the business of the stage to make its figures more intelligible to themselves than they would be in real life, for by no other means can they be made intelligible to the audience."

In the chaplain, De Stogumber, there is a little of the old satire of our English foibles—which may be overdrawn; but his transformation after the execution is finely dramatic, and his final appearance in the Epilogue is kindly and sympathetic.

Dominating the play is the splendidly drawn character of Joan—rising at critical moments to poetic heights in several great speeches (which will be illustrated from three of the scenes).

Some critics have doubted the necessity of the "Epilogue." But it is needed for the message of the play, that, though we might not have burned Joan at the stake to-day, we are not yet ready to welcome the true saint. "O God, that maddest this beautiful world, when will it be ready to receive Thy saints? How long, O Lord, how long?"

Art is the communication of the artist's experience to the reader. And with Shaw, the imaginative experience did not end with Joan's martyrdom, but included her treatment by posterity up to her canonisation as a "Saint" in 1920. Thus his own artistic sincerity demanded the addition of what he could only give in the Epilogue.

The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

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 last insertion.

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

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

WELLINGTON, FRIDAY, NOVEMBER 13, 1931.

RADIO BOARD TO OPERATE.

THE die has been cast, and broadcasting in New Zealand, as from January 1 next, will be under the control of a Radio Board. This Board is to be appointed by the Postmaster-General, and is to consist of three members—a chairman at £650 per annum, and two others at £350 per annum. The whole responsibility for broadcasting devolves upon this Board, with the exception that the Postmaster-General will be required to present to Parliament an annual report dealing with the operation of the service.

A FEW minor changes have been effected by the Postmaster-General, the Hon. A. Hamilton, in the Bill as bequeathed to him by his predecessor. The personnel of the Board has been reduced from 4 to 3, and the salaries increased to the figures mentioned. This is an improvement, as giving greater reward for interest shown. The Board, as we pointed out on a previous occasion, will obviously be a policy Board rather than a managerial Board, for it will be incumbent upon it, in view of the importance of the service, to engage a fully-qualified manager to devote his whole time to the details of the service. The suggestion we made on this point before was that it might be advantageous to secure some of the talent of the B.B.C. for this position.

THE major points that will command the initial attention of the Board are, first of all, the management of the organisation, and the appointment of a suitable manager. In the second place, a determination will need to be reached upon the degree and method of expanding the service. In this field the Board will have the advantage of a definite scheme already prepared by the Radio Broadcasting Company. That has been published, and whether accepted in its entirety or not, will provide a basis for consideration by the Board. In the third place the Board will need to determine its relationships with "B" class stations. Here again a certain amount of ground work has been done, in that an indication has been given that, where "B" class stations are already established in provincial centres of a standard suitable for incorporation, they may be taken over. In the cities,

similarly, existing "B" class stations may be drawn upon, where suitable, to provide alternative services to those provided by the "A" class stations. A fourth major problem is involved in the question of man-made interference. A big field here calls for activity. In practically every district in the Dominion listeners are subjected to more or less inconvenience and disappointment in reception through leakages from power-lines and radiation from electrical equipment. This is a problem that definitely requires attention, for it is operating against the development of the service to its fullest capacity. Plans were in hand by the Radio Broadcasting Company for the creation of a special department to cope with this problem. It is to be presumed that the Radio Board, once it has time to familiarise itself with the position, will build upon the foundation provided.

THE Board, once its personnel has been determined by the Minister and confirmed by Cabinet, will require to devote itself closely to its problem. It will be required to take over as from January 1, 1932. The period before it is short. Obviously it will be unable to enter upon office with any predetermined detailed policy. It will require a period of study and planning before reaching major decision. Listeners, we believe, will be prepared to extend that period and wait the Board's time, rather than push unduly for action at the expense of right decision.

IT remains to acknowledge the part played by the Radio Broadcasting Company in establishing broadcasting in the Dominion. That the Company will maintain the service to the end of this year at the highest possible peak of efficiency is assured listeners by Mr. Wm. Goodfellow, chairman of directors of the R.B.C. It will also extend every courtesy and consideration to the Postmaster-General in facilitating transfer to the incoming Radio Board. The company's management has not been able to please all tastes. It may be said now that, whatever else may be doubtful, it is certain that the incoming Board will not please all listeners. It is, in our opinion, beyond human capacity for any governing authority in radio to please all listeners all the time. It is simply a case of the governing authority doing the best it can, and achieving a relative degree of success. If the Board, after taking control, with the service established and the path well blazed for it, and in five or six years' time show relatively as great an advance as that made by the past management since the early days of radio, it will deserve well of the people. We wish the Board well in its efforts to serve the people.

Heterodyne Interference Eliminated Between N.Z. and Australian Stations

AS the result of complaints made regarding the interference with 2YA and 3YA, caused through transmissions by Australian stations, Mr. G. McNamara, the Secretary of the Post and Telegraph Department, advised the Broadcasting Company that the trouble has been rectified by restoring 5CA to its correct frequency of 730 kilocycles, from which it had deviated, and by moving 3BO to 970 kilocycles. Check measurements of the frequencies used by Australian stations are stated to be made at regular intervals, but should any further interference be noticed in New Zealand, the Commonwealth authorities would appreciate advice to that effect.

Mr. McNamara adds: "I am informed also that measurements of 2YA made at Melbourne with a multivibrator standard frequency unit showed 2YA to be right on its allocated frequency of 720 kilocycles."

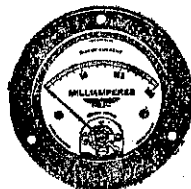
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big events.

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W.E.A. Talks from IYA

New Series

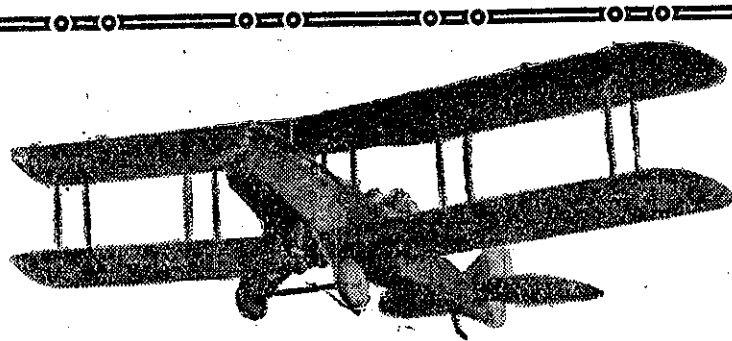
AFTER the conclusion of Mr. Constable's talks on Bernard Shaw, the W.E.A. talk from IYA each week will be taken up by the Rev. W. G. Monckton, M.A. Mr. Monckton will give a series of five talks on international problems, beginning on Tuesday, November 24, with the subject of Manchuria. The two following talks will deal with the Russian five-year plan, and the concluding two talks with India.

Mr. Monckton is known to many as tutor of the W.E.A. international relations class in Auckland. With a knowledge of foreign affairs almost unrivalled in New Zealand and a fine gift for speaking, Mr. Monckton has attracted large audiences over the past three years, and listeners may look forward to an extremely interesting series.

As with the previous talks, a synopsis will appear in the "Radio Record" each week in advance of the talk, and those who desire to form groups for joint listening and discussion are invited to communicate with the Director, Workers' Educational Association, Old Grammar School, Auckland, giving the name and address of the person who is prepared to act as leader (i.e., chairman and correspondent for the group). Correspondence addressed to Mr. Monckton, c/o the W.E.A., whether from groups or from individuals, who wish to put questions or criticisms, will be welcomed. The extent to which such correspondence can be satisfactorily answered will of course depend on its volume.

Radio Servicemen's Examination

IT appears that the first intimation that very many servicemen had of the forthcoming Radio Servicemen's Examination was our article in last week's "Radio Record." This is rather surprising, considering that the notice of the examination was posted up in every Post Office. However, in view of this fact, the Electrical Federation has decided to postpone it for a week or so in order to give all servicemen a chance to enter. Although entries officially closed last week, they are still being received, and intending candidates should apply without delay to the Secretary of the Electrical Federation, The Terrace, Wellington. The entrance fee for the examination is 12/6, and is payable immediately. The syllabus is obtainable from the above address. For the sum of 1/- the Public Service Regulations can also be obtained, and as these form part of the syllabus, candidates are advised to get a copy of this little booklet when sending in their entries. It is understood, too, that, after the examination, regulations will be enforced preventing anyone who has not thus qualified from servicing any radio set.



Flying Thrills Broadcast Aero Week in Auckland

RADIO listeners are to be thrilled by another series of "stunt" broadcasts during the Auckland Aero Club's Aviation Week, from November 16 to 21. The local broadcasting stations are planning to make the week a memorable one for listeners.

On Saturday evening, November 21, IYA will relay from the aerodrome an actual description and commentary on the first public night flying exhibition in the Dominion. A machine will be flown by the Club's chief instructor, Flight-Lieutenant Allen, and will be followed immediately by an elaborate aerial fireworks display. The switch-over to the aerodrome will be made during a real aviation programme to be broadcast on that evening from the studio. Preceded by the first radio talk by Mrs. Hewlett, the veteran English airwoman, only recently arrived in the Dominion, this programme from IYA should be both novel and interesting.

During this Aviation Week an exhibition is to be held in Auckland, when the Curtiss Pilot Instruction Machine will be shown in the Dominion for the first time. This machine teaches the elementary principles of flying, and to the person showing the greatest aptitude for handling it there will be given a scholarship for a complete course of flying instruction with the Auckland Aero Club. A topical description of the exhibition will be broadcast by IZR daily, from November 16 to 21, at 12.30 and 1.30 p.m.

During this week the broadcasting stations in Auckland will feature various aviation music, particularly recorded numbers by the Royal Air Force Band.

Up To Date

Australian Radio Licenses

Over 300,000 In Force

STATISTICS concerning the number of radio licenses in force in Australia as at September, 1931, are shown in the following table:—

State	No. in force at 30/9/31	Ratio of Licenses to 100 of population
New South Wales..	120,686	4.82
Victoria	132,563	7.37
Queensland	24,790	2.58
South Australia ...	30,679	5.26
Western Australia..	9,621	2.29
Tasmania	8,260	3.77
Commonwealth	326,599	5.02

Baptising a Radio Station

A FEATURE of a solemn demonstration at the opening of a broadcasting station at Trieste, Italy, recently was the procession which journeyed to the foot of Mount Triestiniceo, the hill on which the transmitter is built. In the name of Italy, its King and its Duce, the eminence was solemnly baptised: "Mount Radio."

Advisory Committees Meet

THE 4YA Musical and Dramatic Committee held its monthly meeting, presided over by Mr. H. P. Desmonlins (representing the Dunedin Choral Society). There were also present:—Messrs. A. Cook (Dunedin Burns Club); Max Scherek (Society of Professional Musicians of Otago); P. S. Anderson (Dunedin Returned Soldiers' Choir); H. Russell (Dunedin Orphans' Club); D. E. Dall (Dunedin Shakespeare Club); J. C. Clitheroe (Training College Choir); J. G. Butler (Royal Dunedin Male Choir), and A. F. O'Donoghue (Station Director at 4YA).

A welcome was extended to a new member, Mr. Dall.

The Dunedin Choral Society wrote with reference to the amount of the subsidy allocated by the committee, stating that it considered that a flat rate for all societies was inadequate in the case of the Choral Society in view of the expense which the society incurred in presenting its concerts. After a lengthy discussion it was decided that Mr. Humberg and the Station Director should wait on the Society and explain the position.

With regard to plays, Mr. Dall suggested that a lot could be done to develop the dramatic side of radio entertainment.

The Station Director outlined programmes proposed for the coming month.

4YA Children's Sessions Advisory Committee.

AT the monthly meeting of the 4YA Children's Sessions Advisory Committee, Mr. A. H. Williamson (representing the Headmasters' Association) presided, there being also present: Miss M. Telfer (Presbyterian Social Service), Miss Coe-Smith (S.P.W.C.), Pastor W. D. More (Children's Sessions organiser), and Mr. A. F. O'Donoghue (Station Director).

The organiser's report regarding special programmes referred to relays from Mosgiel, a match factory, brick works, paper mills, H.M.S. Diomedea, etc. Mr. McDonald, who travelled in a canoe down the Congo with Edgar Wallace, had given an interesting talk, and was to give more.

Miss Coe-Smith said she had been in the Zambesi district for five years, also Madagascar and St. Helena, and offered to give talks.

Japanese Television Tests

DURING the first public demonstration of television in Japan, conducted recently by Dr. Tadaoki Yamamoto, an attempt was made to televise a baseball match which was being played about two hundred yards away from the laboratory.

The apparatus was found to work quite satisfactorily in the morning, but late in the afternoon, when the time came for televising the game, it ceased functioning properly. This was supposed to be due to the moisture in the air. Movements of the pitcher could be clearly discerned, but according to the report the ball could not be seen in motion. The umpire's decisions and shouts of the game were carried through a loudspeaker.

A Noted Lecturer To Speak on Christian Science

DR. ALBERT F. GILMORE, who has recently been lecturing in Australia on Christian Science, will arrive in Auckland by the Aorangi on Monday, November 16.

As a member of the Christian Science Board of Lectureship, a former President of The Mother Church, and also a recent editor of some of the Christian Science publications, Dr. Gilmore is recognised not only as a most able exponent of Christian Science, but also as one who is able to speak with authority.

He will be the lecturer on this subject at two free lectures given in His Majesty's Theatre on Monday and Tuesday, November 16 and 17 respectively, at 8 p.m. The first of these will be broadcast by 1YA.

Personal

MR. E. R. BOUCHER, managing director of Radio Limited, returned to Auckland last week from a three months' visit to America. While abroad Mr. Boucher visited the leading radio organisations in Los Angeles, San Francisco, Cleveland, New York, Chicago, Philadelphia and Boston.

Mr. Boucher naturally secured a close insight into radio matters in America, and we hope next week to be able to give his observations at some length.

ARRANGEMENTS have already been made for the broadcasting by 1YA of the approaching Parliamentary elections. The whole evening will be given over to this, the results being announced as quickly as they come to hand. For this purpose the Auckland station will be working in conjunction with the "N.Z. Herald."

AN APOLOGY.

Messrs. Cory-Wright and Salmon wish to apologise to radio owners who have been unable to procure Full O'Power Batteries from their dealers recently. Owing to the abnormal sales of these batteries during the past month or two stocks have become unavoidably depleted. Fresh shipments are due in shortly, however, and battery users are assured that ample supplies of the whole Full O'Power range of batteries should be available at all leading dealers towards the end of November.—(Advt.).

TENDERS ARE INVITED FOR THE PURCHASE:

(a) As a going concern, or
(b) separately
of the RECEIVER FOR THE DEBENTURE HOLDER of all the Stock and Plant of RADIO SERVICE LIMITED, consisting of:

1. Broadcast Transmitter, 250 watts, complete with Microphone, operated as 4ZL.
TESTING APPARATUS — Set Tester, Oscillators, Meters.
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RECEIVER FOR DEBENTURE HOLDER.

Japanese Folk Music

Lecture Recital from 3YA

MR. T. I. KAWASE, a young Japanese student at Lincoln College, Christchurch (where he is learning sheep-farming), brought with him from Tokyo a selection of the finest Japanese recordings of folk music and, using them for illustrative purposes, will give a lecture-recital at 3YA on Friday, November 20.

Five recordings will be used: A tenor will sing a Sado Island folk song, "I Want to Go to Sado Island, but the Sea is Very Rough."



MR. T. I. KAWASE.

Another number, "Street Music," is played by a trio—piano, Japanese harp and shamisen (three-stringed guitar).

A "Sailor's Song" will be played by a Japanese orchestra of twenty members.

The song "Green Willow" will be sung by a soprano, Mikihikari, a famous Geisha girl. This rendition has guitar and piano accompaniment with bird effects.

The fifth record will be a fox trot arrangement of some Japanese music, played by Paul Godwin's Orchestra.

W.E.A. talks on

INTERNATIONAL PROBLEMS

By the REV. W. G. MONCKTON, M.A.

Synopsis No. 1.—*The Conflict in Manchuria.*

To be broadcast from 1YA on Tuesday, Nov. 24, at 7.30 p.m.

MANCHURIA, one of the world's danger spots. How Manchuria came to be a part of Chinese territory. Importance of Chinese Eastern railway. Growth of population.

Why Chinese were attracted to Manchuria. Advantages of climate and soil. Large yield of agricultural products. As yet far from being fully developed. Importance of Manchuria for China emphasised at Washington Conference. Vital to economic life of Chinese people. Outlet for Chinese surplus population.

Russia's interest in Chinese Eastern Railway. Why this railway is so important. Statistics of growth of traffic since it was opened. Railway very costly to make. Status of railway defined by treaty. Strained relations between China and Russia over railway. Difficulties not yet settled. Future of the railway.

Japanese interests in Manchuria. How defined at Washington Conference. Question of war or peace for Japan depends on Manchuria. Source of raw materials for the Japanese. Large Japanese investments in Manchuria. Importance of Dairen. Coal mines in South Manchuria.

The clash of interests defined. Why China mistrusts Japan. Cause of trouble with Russia. The Japanese position. The only possible solution of the difficulty.

Questions for Discussion by Groups:—

1. How could China best have safeguarded her interests in Manchuria as against Russia and Japan?
2. How do the interests of the three Powers conflict, and how do they coincide in Manchuria?
3. What solutions would you offer for the difficulties created by the rivalry of the three Powers?

Laboratory Jottings

Radion Set

WE have received from Messrs. H. W. Clarke and Co. a Radion Midget seven-valve receiver, which has been manufactured in New Zealand.

The set—one of the super-heterodyne type—employs two multi-mu and two screen-grid valves, a 227, a pentode, and a 280 rectifier. The appearance of the set compares indeed favourably with modern set design, and it reflects great credit upon the designers. It is equipped with three controls—tuning, tone and volume-switch—the dial being of the recessed, conical type, with graduations marked in degrees.

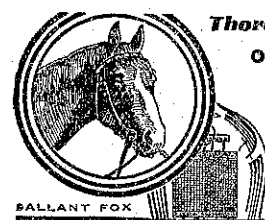
The chassis is particularly well made, only the highest grade of components being employed, and we would mention in passing some of the components we noticed. The condensers are Standard and T.C.C., the variable condensers de Jur, the valves Sylvania, while the transformers, chokes and coils are locally made. The use of high grade components such as these can only result in a first-class production, and this the manufacturers have achieved.

On a sensitivity test the set proved equal to a standard seven-valve super-heterodyne receiver, Australian and Japanese, including many of the minor stations, being received on a standard aerial. On a short piece of wire the set proved itself capable of bringing in the main New Zealand and Australian stations without difficulty.

In the selectivity test, the set, worked with a 100ft. aerial some five miles from 2YA, was asked to separate 2YA in favour of 2FC and 4QG. This it did without a trace of interference. 2YA was restricted to a very narrow band indeed.

In the fidelity test we listened for reproduction both ends of the scale, with the tone control in a minimum position. The extremes were there all right. The tone control eliminated the higher frequencies, so that any grade of tone could be obtained. The pentode has a very characteristic tone, possessing as it does a rare brilliance of upper notes. The volume control, although operated in its minimum position on local stations, does not introduce distortion, being smooth and regular in operation.

Ad B3



Thoroughbreds
OF RADIO

JRC
TUBES

Hear them at your dealers...
and judge by what you hear!



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THE GOLD STANDARD *and its Relation to* PROSPERITY

By WM. MACHIN.

A talk from 3YA by the General Manager, Canterbury Farmers' Co-operative Association.

... This means that the dragging, creaking wheels of Britain's trade are turning again more easily. It means more orders, more employment, a bigger turnover . . . a profit instead of a loss . . .

A FRIEND of mine in Australia has his life insured in an English Company which has no office in Australia, and his annual premiums are £100 payable in England. Recently he went to his bank in Melbourne and asked them to pay this £100 in England for him. They asked him for an extra £30—£130 in all—at which he was aghast.

He found, however, that if he could get hold of 100 gold sovereigns in Melbourne and could get someone to carry them to London for him this would meet his difficulty—but he could not get any sovereigns! Australian notes were no help to him, for he found that he had to send £130 worth to pay his £100 in England. Then he tried to get English banknotes, but he discovered that while there were a few people in Melbourne holding English notes they would not sell them for less than a 30 per cent. premium because so many people were bidding for them that this premium was easily obtainable.

Someone advised him to buy some wool and sell it again in London. He did so, and soon he had £100 lying to his credit in a London bank. But he then found that he could sell that £100 in London for £130 in Australian money to someone else who wanted to make a payment of £100 in London, so his own payment of £100 cost him £130 after all.

THIS is the kind of thing that happens between two countries when the exchanges get out of gear as they have done between Britain and Australia, to the disadvantage of the latter by 30 per cent. This adverse rate of exchange between Australia and London, however, adds 30 per cent. to the gross income of all the Australian exporters who sell butter, wool, meat and other produce in London. Thus if they get 10d. per lb. for their wool in London, by the time this 10d. is paid to them in Australia it becomes 13d. So this has helped to make up to them a little of the big fall in the prices of their wool, butter and other exports.

The same thing has been going on in New Zealand, but our rate of exchange here has not shown such a wide disparity—it has only reached 10 per cent., so each 10d. paid to us in London for what we sell there has only become 11d. here in New Zealand.

But this also cuts the other way. When we buy a hundred pounds' worth of goods—say, woollen cloth or artificial silk—in England and come to pay for them we have either to use £100 which we have already in London or to pay into a New Zealand bank £110 for a credit of £100 in London, so the cloth costs us £110, and in Australia it costs £130 to import.

This is the explanation of an adverse exchange rate on London of 10 per cent. in New Zealand and 30 per cent. in Australia, and it naturally results in these countries importing less goods to avoid the disadvantage of paying heavy exchange premiums and also, moreover, in trying to export in greater quantity in order to gain this premium.

that on the £8,000,000 of interest our Government now pays annually in London we have to find an extra £800,000, and this large extra amount must now be paid by the New Zealand taxpayers.

So the net result is that our total receipts from all our exports to Great Britain—say, £35,000,000 worth last year, are increased by 10 per cent. because the exporters are able to sell this money in London at this premium—some to importers, and some to the Government, and some to others who have urgent payments to make overseas like my friend with his insurance premium. The farmers thus get back a little of the big fall in their prices, and everybody else—more or less—contributes to make it up.

Now this has been going on all over the world during the last year or two. The Argentine, for instance, has had an adverse exchange of 40 per cent., so her exporters have been helped much more than the exporters of New Zealand and Australia. (Imported lamb worth 7½d. in London. Assume all equal in price—Argentine, Australian, New Zealand—the Argentine exporter gets 10½d., Australia 9½d., New Zealand 8½d.).

TAKE Britain's exchange with France!

Before the War this was 25 francs to the £1. It fell to 50 then to 100 and more, and in 1925 it was stabilised at 125 to the £1. This was a fall from par to 80 per cent. Belgium's exchange fell to 172 francs to the £1, a fall of nearly 86 per cent., and Germany's mark fell from 20 to the £1 to a wheelbarrow-load to the £1, and finally to nothing.

The British £1 itself depreciated during the War in relation to other currencies, and when in 1925 sterling stood at about 18/-, Britain by a great effort brought it back to its parity with gold of 20/- and resumed paying out gold in settlement of international balances on demand. When Britain did this—much too soon as we all now think—she gave other countries with depreciated currencies a great opportunity of competing with her, and she lost a lot of trade, particularly to France, Germany and Belgium.

For instance, 4.86 American dollars would then buy £1 worth of goods in England, but in France they would buy 125 francs' worth of goods, and the £1 would buy 125 francs' worth, and until prices

rose to a high level in France she was a cheap country to buy in because of her depreciated currency and adverse exchange, and she consequently did more trade. Because of this she could buy wool in Australia on level terms with Britain, but could sell her finished cloth in Bradford cheaper than Bradford could make it.

Now, however, a new situation has arisen in Britain. So long as (Concluded on page 8.)

Who holds the Gold?

End of month.	United Kingdom.	France.	Germany.	U.S.A.
January	139.5	446.9	109.8	880.5
February	140.8	450.2	111.8	885.4
March	144.5	451.7	113.7	892.4
April	146.3	447.8	115.9	898.6
May	151.9	447.9	117.0	913.4
June	163.3	452.7	69.6	943.8
July	132.0	470.2	66.7	942.4
August	134.3	471.5	66.9	
Gold-holdings of the Central Banks and Governments of the United Kingdom, France, Germany and the United States, showing the variations since the beginning of 1931. —By courtesy of "The Economist."				

International Exchanges

(Continued from page 7.)

Britain met her balances of obligations in gold, her £1 was at par, but a few weeks ago she got tired of meeting the drain of gold, and the Bank of England ceased to sell gold freely at par. Consequently sterling depreciated at once, and the £1 became worth only about 3.90 American dollars (yesterday it was worth 3.62 dollars) or 90 French francs or, say, 15/- or 16/- against the franc and the dollar.

What resulted? At once Americans and their customers, and French people and their customers, found they could buy British goods 20 to 25 per cent. more cheaply, and British business began to hum. The English newspapers of the first week in October report manufacturers as having been overwhelmed with overseas orders; some totalling more than they had received for months.

Say, an American arrives in London with his dollar draft and finds he can get a £1 note for 3.62 dollars instead of 4.86 dollars; he saves the difference on each £1 worth of British goods, so he buys from England more freely.

Conversely, however, the British buyer has to give a £1 for only 3.62 dollars in buying from America, so he buys less American goods and American trade suffers.

Triangular Operation.

It works out in a very interesting fashion when the exchange is triangular between three countries. Suppose a New Zealand farmer buys some American tools costing 4.86 dollars in America, payment for which is to be made in London. This farmer sells a lamb in London for £1. He could sell that £1 in London to the bank for about 22/-, payable in New Zealand, but he pays for these tools instead. The £1 is meantime only worth, say, 3.62 dollars, so he loses 7/- on his exchange through buying American tools paid for in London with money he could have profitably transmitted to New Zealand.

Present Results.

NOW what is the present result of all these exchange movements. In practice Britain is getting more orders and selling more goods. She has a 20 to 25 per cent. advantage in selling to countries whose currencies are still fixed on gold. This means that the dragging, creaking wheels of her trade, retarded by the depression, are turning again more easily. It means more orders, more employment, a bigger turnover on which to spread heavy overhead costs, a profit instead of a loss per unit of turnover.

EAGLE Jnr.

Here is a radio small enough to pack in your suitcase. Big enough to give real performance.

And—the Lowest price ever placed on a Dynamic-equipped Radio.

Wholesale and Retail
Royds-Howard Co.,
553 COLOMBO STREET,
CHRISTCHURCH.

"The Lady of Lyons"

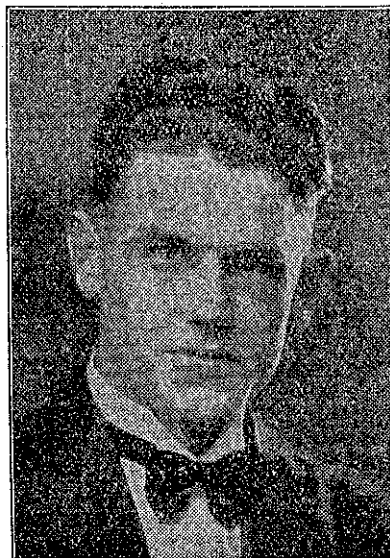
Bulwer Lytton's Famous five-act Drama



Above: Naare Hooper, who is taking the part of Pauline Deschappelles, a noted beauty of Lyons.

Right: Harold Shaw, who will appear as Beauseant, a rich gentleman of Lyons in love with and refused by Pauline

will be presented from 3YA under the direction of Naare Hooper and Harold Shaw at 8 p.m. on Wednesday Nov. 18.



The Bradford wool journals of a month ago are quite excited about what they call the spectacular advance in wool values and the activity of the September sales in London which were extended by two days because the market was so good. A correspondent in the "Wool Record" says:—

"The departure of Great Britain from the gold standard has lowered the international value of our currency and increased the sterling value of commodities. The immediate effect is to discourage imports and by making our manufactured articles cheaper in other currencies bring export orders to our mills. Large orders for yarns have been placed with home trade spinners because imported yarns can no longer compete. This means increased activity in British mills."

It certainly means a disadvantage in the prices of some of Britain's imports, as it is equivalent to an import duty, but on balance she will gain largely meantime.

Rising Prices.

It is true, however, that prices will tend to rise in Britain, and thus the purchasing power of wages and salaries and other incomes will be reduced in proportion, but purchasing power will only give up a little of the great advantage it has had during the rapidly falling prices of the last two years. In January, 1930, butter was retailing at 2/2 per lb in England. Recently it was only 1/2 retail, so there is room for some increase in prices without hardship to anybody, especially as wages are much higher in England now than they were pre-war.

Moreover, times of rising prices are usually times of prosperity. "Nothing

succeeds like success"—and this movement may give an impetus to British trade which is cumulative, and which may continue and grow with the assistance of other factors which may be brought into play.

Really what is happening on this exchange question all round the world is a little mild inflation—and inflation which is devaluing money to a lower ratio than goods, and the way this is coming about is keeping control and robbing inflation of its great dangers.

MacMillan Report.

THE recently issued British MacMillan Report repeatedly stresses the great desirability of a large rise toward the price level of 1928, which the report considers would command widespread though not universal approval. The exchange movements which I have mentioned appear to be working toward this to some extent in some countries, though of course prices are still a long way from this 1928 level.

Our present abnormal exchange problems are teaching us a great deal about the necessity for balanced trade relationships between nation and nation and a common standard of value.

Some people say that the gold standard has broken down, and blame this for most of our exchange troubles today. Probably the truth is that the gold standard has been required to do much more than its proper function, and it would be more true to blame the extraordinary results of the war for our present troubles.

The gold standard has given the world a common measure for its prices and financial operations. The currencies of the nations of the world have by common consent had a fixed re-

lationship to gold, and consequently a fixed ratio to each other, and it has been most convenient that this standard should be the common denominator in all the currencies of gold standard countries; and their price relationships subject to an exchange charge which then need never be higher than what is called the higher or lower gold points, that is the cost in freight, insurance, and loss of interest of shipping gold for the redressing of adverse trade balances.

The Standard.

A STANDARD of this kind is convenient and necessary if we are to have reasonable stability of exchanges, which is most desirable for many reasons; and if we all decided to abolish the gold standard to-morrow, the world would require some other standard in its place, and such an acceptable standard appears well nigh beyond the wit of man to find.

Adverse and large short date balances which could not be met with gold, because of its maldistribution, mainly through America and France having locked up the bulk of the world's supply of monetary gold, are the exciting cause of the present exchange difficulties of Great Britain.

It is an irony that while the sudden outside demands on Great Britain which at most could only amount to a few hundred millions, were being made in such a manner as to cause her to suspend her gold standard and leave sterling to find its own level, her investments overseas amount to the huge sum of not less than £4000 millions.

She is abundantly solvent, although her depreciated currency exchange would make her appear to be financially weak.

The fact is that the world's low prices have caught her with abnormally high and unproductive costs and obligations. The same thing has happened to Australia, New Zealand and other countries.

Meantime the slow struggle back to the soundness which is indicated by exchange parity will be accomplished by following the old advice, served up anew by "Punch"—"Spend your pennies wisely, and the pound will take care of itself."

Television Patents

PATENTS relating to television are being issued by the United States Patent Office at the rate of two a week. In America, however, the term "television" has a rather wide application, for it is stated that of the total 350 "television" patents now in existence, 176 cover photographic recording and transmission systems.

Cough?
NO!
Pulmonas
PASTILLES are INVALUABLE

I 'AVE me doubts about this 'ere television stuff yer reads about these days, me 'avin' been one of the pioneer experimenters in this particular field, not that I 'ad to go into a paddock, me 'avin' a good shed. No, television ain't no good, except for paper-angers. I know! Anyways, I would like to tell yer my experience, and save yer from wastin' yer time potterin' on with a delusion and a snare.

In the name of science, me bein' a bit of a visionary meself, I begun experimentin' on lines quite distinct from that there Macaroni man, who 'as got 'imself into a rut inside a blinkin' groove!

Yer knows 'ow little things 'as given birth to big things, which Euclid says is impossible, no part bein' greater than the 'ole lot. Well, my mind, not bein' of the circumscribed type, don't move in ordinary circles, but quite natural like functionates on novel lines. I take a periscope—you know, one of them things what enables yer to take a screw round the corner without goin' round—a sort of tubal arrangement with lookin'-glasses for lookin' in. Submarines 'ave one, only they acts a double purpose and lets the bad air out. That's why submarines ain't no good in rough weather, for the water splashes into the periscope and drowns the divers.

WHY not, I says to meself, prolong the tube for a long distance, miles if necessary, and there yer are! Now, I lives in Miramar, the beautiful, about six miles from the Government Parliamentary 'Ouse. Suppose I want to see the Vice-Regal General open the Parliament without me goin' to town, I squints into me long periscope and sees 'im fishin' for the key-ole to open it. The idea is so simple, it is surprisin' nobody never thought of it before. Per'aps me bein' simple, too, 'elped considerable.

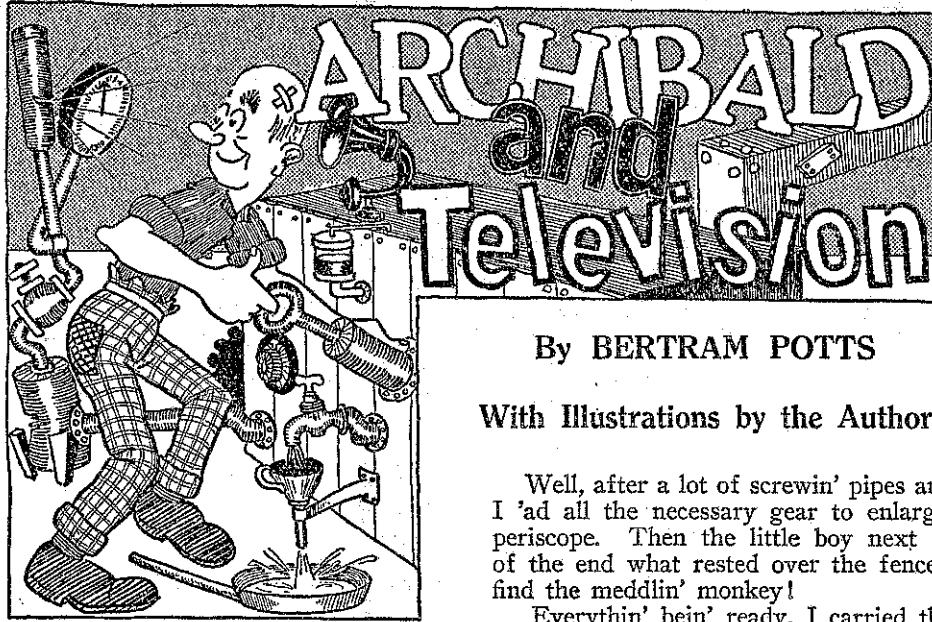
Don't kerosene boxes cost a lot if yer wants plenty of wood to make a periscope? I 'ad to buy about ten boxes, and when the missus sees me breakin' them up, she says it was time I chopped a bit of wood, she bein' only a woman, as the sayin' is.

In the middle of makin' the periscope, I wishes I 'ad a telephone so I could 'ave rung yer, Mr. Editor, so that yer could be present on such a unique occasion in the world's 'istory, only I was glad afterwards, as yer would only 'ave been

makin' a fool of yerself, for I finds that the longer the periscope, the smaller the picture—in fact yer 'ad to 'ave plenty of vision and imagination to see anythin' at all!

Then I realised it was fortunate it was me and not somebody else what 'ad made this discovery, because it might 'ave discouraged them, but not me, me 'avin' plenty of grit in me constitution, not that I'm a rooster, though I crows a lot at times, believin' in blowin' yer own trumpet as practice makes perfection and I'm fond of music.

I set to work to erect the world's first practical televisor. Not 'avin' a blue print, I 'ad to draw me plans on an old blue wallpaper,



By BERTRAM POTTS

With Illustrations by the Author

Well, after a lot of screwin' pipes and fixin' this and that I reckons I 'ad all the necessary gear to enlarge the vision at the end of the periscope. Then the little boy next door took the lookin'-glass out of the end what rested over the fence and it took me 'alf-an-'our to find the meddlin' monkey!

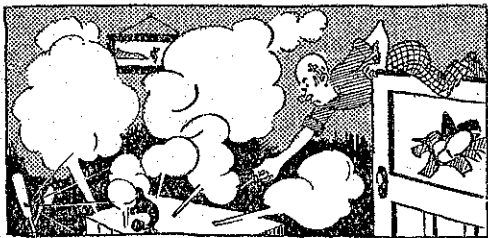
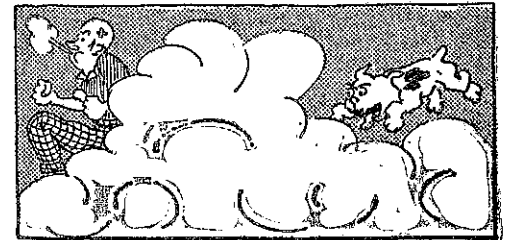
Everythin' bein' ready, I carried the gadgets into the sittin' room and stoked up the boiler in the set. Old syrup tins ain't no good, for they leaks when subjected to severe 'eat and are apt to ruin the fair name of science, but I overcome every obstacle, even when the missus took the fire-tongs and the bread-knife out.

But the result was not much good notwithstanding in my great care. I found, however, that the whistle worked lovely when I pumped air into the tube, but a man gets tired of makin' a whistle whistle after five minutes or so, more especially when 'is missus 'as no interest in scientific achievement and keeps bawlin's out: "Stop that blinkin' row, won't yer?"

And that kid got off with the mirror again, and when I come back I couldn't get into the room for the steam that was rushin' out of the set in every direction. It was a pity I used a packin' case what we used to keep the coal in, and I 'adn't enough putty to plug the 'oles up with, but all the same I could see that the television idea was not practical. The whistle was blowin' like mad, the steam was fizzlin' in every direction, and the blinkin' box started to tremble with the fierce pressure. I couldn't get near it. I climbed on top of the door and poked a stick at one of the knobs, after nearly dislocatin' me back and shovin' me foot through the top panel of the door. Still, sacrifices 'ave to be made for science. Why can't women see the advantages of achievement and not go crook at irrelevant details like me missus did when she spotted the door busted and the wall-paper peelin' off the walls, and the boards on the ceilin' all warped to blazes? They're to be pitied!

I MANAGED to disconnect some of the fittings, but not enough. I shut the door, because the steam was fillin' the rest of the 'ouse, and waited patiently in the kitchen. I knew I wouldn't 'ave long to wait! 'Alf a minute later the set blew up with a loud report and some of the 'ot parts shot through the window and landed on the ferocious mongrel next door and upset 'is applectart, for as I opened the door of the sittin' room to see the ruins I spotted the blinkin' dog rushin' through the back door into the kitchen after me blood. I 'ad no time to close the door, but dashed through the clouds of steam and through the window. I never ran so 'ard before, and after followin' me over four fences through neighbours' gardens it gave up, and it was a long time before I sneaked home with a 'ole skin.

The missus, however, was waitin' for me. It was not the fact that a great experiment had failed, nor the sorry wreck of the sittin' room, which seemed to give her most concern, it was the fact that the last chapter of her Edgar Wallace novel (Concluded on page 30)



News and Views of the D.X. Club

Replies to Correspondents

T.J.C. (Porirua): We have tested a set of the make you own, and found it quite good for dx-ing.

A.E.S. (Wellington): Yes, several dxers, wrote in some time ago complaining that they had not received answers to the reports they sent to 4ZL.

DX43MC (Christchurch): A panel showing the interpretation of the Q.S.A. and R. abbreviations appears on page 11.

Are YOU a Member of the DX Club?

If not, post your application to the DX Editor, Box 1032, Wellington, enclosing 2/6 to cover cost of badge and certificate (post free). Subscription to the "Radio Log"—the DXer's own magazine—is 6/6 per annum, post free. Book your order now and receive the latest in DX news.

DX450C (Dunedin): 3BY, H. J. and O. Holst, 27 Bamba Road, Victoria, S.E.7.

Sydney station heard at approx. 12.30 a.m. on October 24, on 267m. (1120 k.c.). On signing off the announced mentioned that station was operated by some Sydney Publishing Company. Call resembled "BE."—DX82A (Cambridge).

Station operating just below KZRM, Manila. Speech is foreign. It generally closes down at 3 a.m. with an orchestral item.—N. Jenkins (Masterton).

American on approx. 425 m. (705 k.c.) heard at 11.35 p.m. on October 31. At 11.40 p.m. speech was heard, followed by a vocal item with yodelling. Speech concerning a reliable electric heater was again heard at 11.45 p.m. This was followed at 11.50 by a vocal item with banjo accompaniment. Also station on approx. 510 m. (587 k.c.), which often relays KFI.—DX36W (Wellington).

witz now operates on 253.4m. This is taken from a call-book dated September, 1931.—H.F.A. (Masterton).

L.R.H. (Dunedin): The Australian you heard with the Chinese programme on October 25 was 3DB, Melbourne, on 1175 k.c. (255 m.).—NZ16W (Wellington).

"Radio" (Invercargill): XER, Del Rio, Mexico. For further particulars see "DX Topics" column in this and last weeks' issues.

DX Topics

Uncensored News.

AT 11.30 p.m. on October 31 I heard a station on 412 m. (728 k.c.). An nouncer gave the position of Japanese warships and of Japanese and Chinese troops. He stated that trench-digging operations had commenced, and that it was evident more trouble was impending. Shortly after a man spoke before the microphone in a foreign tongue, and when he had finished the announcer stated that he could not give the speaker's name as it would get him into trouble. The announcer then remarked that they were up in the hills and that their wavelength was altered from day to day so that they would not be caught with the transmitting plant. Strength was R6 on the speaker, so the station must have been fairly powerful. On October 5 I logged XEN at 410 m. (730 k.c.).—DX64A (Mokan).

Particulars of KTAB.

THE following is taken from a card received from KTAB, the Pickwick Stages station. The studios are situated in the Pickwick Terminal Hotel, San Francisco. Frequency is 560 k.c. (535.4 m.), and power 1 k.w.—H.F.A. (Masterton).

Our Youngest Member.

DX840C (Dunedin): Congratulations. I think you are the youngest member. I am only 18. I have been DX-ing for seven months on a three-valve set and have logged 54 stations. Has any DX-er received a verification from 4ZP, Invercargill?—DX74W (Wellington).

XER Again Heard.

AT approx. 11.15 p.m. on October 17, XER, Del Rio, Texas, was logged. Several items were heard and then announcer remarked they were on the air from 5 a.m. their time, corresponding to 11 p.m. N.Z.D.S.T. He also asked for reports.—DX910C (Green Island).

Concerning Goats.

B.W. (Stratford) and others: I believe I can help you with the mystery Mexican station. For a number of years I have been corresponding with a friend just out of Milford, Kansas. Some time ago I received full particulars about a Doctor Brinkley, who owned station KFEB. It appears he used to conduct regular broadcasts on curing ailments.

Addresses and Addresses Wanted

DX910C (Green Island): 3HA, Hamilton, Western Victoria Broadcasting Company, 1 Gray Street, Hamilton, Australia.—DX74W (Wellington).

Identification Wanted

Station on 600 k.c. (499m.), approx., just audible on Oct. 29. At 7.38 a woman sang two songs. Lady announcer. Also station heard at 5.30 a.m. on approx. 1110 k.c. (270m.). Ten strokes on a gong, something similar to that heard from KFI, were heard.—DX23MC (Christchurch).

SUPER POWER!

An exceptional power valve of the most advanced type. This valve has a phenomenal slope of 6, thus no intermediate audio stage between detector and power valve is necessary. The A.C. resistance is 1000 ohms. and the amplification factor 6, while the undistorted output is 2 watts. These exceptional figures prove that this valve is a genuinely remarkable achievement and, with its modest power and input requirements, should prove immensely popular. The "C" bias resistor for this valve should have a value of 500 ohms.

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Stations Identified

DX27W. (Marton): Station heard heterodyning 3YA at 7.30 p.m. is KJR, Seattle, Washington, on 309m. (970 k.c.).

American Reception

The following table shows the relative strengths of reception (R1—10) of American stations heard between 5 and 8 p.m. on November 1—the best DX night I have experienced this year.

—H.F.A. (Masterton).

KFI	9
KGO, WLW, KPO	8
KTM, WBBM, *WDAG....	7
KMOX, KGMB, KNX	6
KSTP, KMTR, KTAB	5
KECA	4
KROW, KFWB, WENR ...	3
WOAI, WTAM	2

*WDAG, Amarillo, Texas, 213m. (1410 k.c.), was received for the first time playing recordings. This is only a 250-watt station.

I have heard the call on 3YA's silent day. He closes at 8 p.m. "Tiny" (P.N.), Cracow, Poland, on 244m. (1230 k.c.), I notice H. Jenkins (Masterton) identifies the European station on 1190 k.c. (252m.) as Leipzig, Germany. The latter operates on 250m. (1160 k.c.), and Gle-

and diseases with goat glands. The Federal Radio Commission objected to his methods and cancelled his license, with the result that he sold the station to an insurance company. Dr. Brinkley is evidently a man of means, for he left Milford with the intention of opening a similar station in Mexico. This is evidently the station you heard, and the institution mentioned is probably Dr. Brinkley's hospital at Milford. C.V.B. (N. Auckland): How are the Mexican stations coming in? My best to date is XEH, Monterey, although he wanders a little off his wavelength occasionally. My latest logging is WAPI. May I ask the old question, "Are DX members wearing their badges—or have they had them framed?" I have never seen one yet, and there must be some in this district.—"Kia Ora" (Frankton Jn.).

A Mystery Solved.

WHILE in Wellington about six months ago I reported hearing a shortwave station with the call KEL, Bolinas, California. At the time the speech from the Emperor of Japan was being transmitted. Recently I have read in the DX columns several inquiries concerning a station KES, or KEL. To clear up any controversy on this point I am sending a verification. (Reproduced below.—Ed.) The call "KEL" was heard distinctly on several occasions by Mr. Sellens and myself. Evidently KEL is the broadcast station and was relayed through KES, for my request for verification addressed to the former station reached the latter safely.—N.Z.68W (Bluff).

"We thank you for your report on our KES, 10,410 k.c., Bolinas, California, transmitter which was conducting experimental telephone tests at the hour you mention. This is one of the several transmitters used in our commercial telegraph trans-Pacific radio services direct from San Francisco to Japan, China, Manila, Dutch East Indies, French Indo-China, Honolulu, and Panama. Also our services extend from San Francisco to New York, Boston, and Washington. We have no regular schedules for telephone tests and the frequencies employed in this work may vary, depending upon the hour of the day and the country with which tests are being conducted. Telephone tests are usually conducted with some country across the Pacific, such as Japan, China, Manila, Siam, or Honolulu.

"On the Atlantic seaboard R.C.A. Communications Inc. provides extensive direct radio-telegraph services to more than 32 countries in Europe, Africa, and in Central South America. The transmitters for these services are located at Rocky Point, Long Island, New Brunswick, New Jersey, and Tuckerton, New Jersey. The extensive receiving plant is located at Riverhead, Long Island. All R.C.A. Communications shortwave transmitters are crystal controlled and are held accurately on their assigned frequencies. Most of them are used in conjunction with very efficient directive antenna, which enable us to send messages at high transmitting speeds over great distances and consequently to provide excellent service to these countries.

Very truly yours,

R. R. BRAL,
Division Manager."

European Loggings.

A MONTH ago I shifted my set five miles out of town, where I am working on a farm. It is now located on the top of a hill, well away from all power lines, and practically free from interference. My aerial is 120 feet long and about 40 feet high, and the earth is a 3ft. pipe which I keep well watered. In the early mornings lately the Europeans have been coming in very well. The best I receive are:—

1RO, Rome, and Turin, Italy.
Hellsberg, Germany, 276m. (1085 k.c.).
Langenberg, Germany, 473m. (633 k.c.).
Bordeaux, Lafayette, France, 304m. (986 k.c.).
Strasbourg, France, 345m. (870 k.c.).

"Q" SIGNALS.

QRA—Location of Station.
QRH—Wavelength.
QRI—Tone of signals.
QRK—Strength of Signals.
QRM—Interference.
QRN—Static.
QRO—Higher power.
QRP—Low power.
QRS—Sending slower.
QRT—Stop sending.
QRU—Nothing further.
QRX—Waiting.
QSA—Readability.
QSB—Fading.
QSL—Acknowledgment.
QSO—Contact.

R—Audibility.

R1—Faint signals; just readable.
2—Weak signals; barely readable.
3—Weak signals, but can be copied.
4—Fair signals; easily readable.
5—Moderately strong signals.
6—Good signals.
7—Good strong signals; readable through QRM and QRN.
8—Very strong; readable several feet away from phones.
9—Extremely strong signals.

QSA—Readability.

QSA1—Hardly perceptible; unreadable.
2—Weak; readable in patches.
3—Fairly good; readable with difficulty.
4—Good readable signals.
5—Very good signals; perfectly readable.

A full list of Ham abbreviations appeared in the "Radio Record" of April 2, 1931.

Vienna, Austria, 517m. (580 k.c.).
London Regional, 356m. (840 k.c.).
London National, 261m. (1150 k.c.).
Latest loggings include KDKA, Pittsburgh, Pennsylvania, 306m. (980 k.c.); WABC, New York City, 346m. (864 k.c.), approximately, and KMTR, Hollywood, California, 526m. (570 k.c.).—W.L. (Oamaru).

2YA Heterodyned.

DURING the last three weeks I have noticed that an American station has been heterodyning 2YA badly during the dinner and news session, that is, from 6 p.m. to 7.30 p.m. When I disconnect the "L" aerial and put on the Beverage the interfering station can be heard at R6 under 2YA. Owing to the interference I have not been able to catch the call of the stranger, but I have heard the announcer mention "California" several times. On November 2 the station was coming in well when 2YA closed down for a few minutes. I am sure this has been the cause of the distortion attributed to 2YA, as it disappears after 7.30 p.m., when the stranger closes down. 2YA is excellently received both after that time and during the day, and the programmes are much enjoyed.—DX5HB.

Recent Loggings.

LATEST loggings include WDAG, Amarillo, Texas, 1410 k.c. (213 m.), heard testing on Nov. 1; XER, Del Rio, Mexico, on 735 k.c. (408 m.); and KDKA, Pittsburgh, on 980 k.c. (306 m.). The latter was at good strength on Nov. 3—3YA's silent night—and closed down at 7 p.m. In a recently received verification from WBAF, Fort Worth, Texas, 800 k.c. (375 m.), their power is given as 10 k.w., not 50 k.w., as given in all the latest call-books. I also received a verification from VK7DR, Davenport, Tasmania, on 1290 k.c. (232 m.).—N. Jenkins (Masterton).

Particulars of 3GK's Plant.

THE latest verifications include 7DR, Davenport; 3BY, Melbourne (after 13 months); 2XL, Broken Hill; XEW, Mexico; KSL, Utah; 3GK, Seddon; and VUC, Bombay. In a letter from 3GK he says that listeners often mix his call up with those of 3EK, 3BK, and 3DK. His

transmitter is crystal controlled with a power of 80 watts input, while the speech amplifier is of unusual design, having three stages of direct coupling, giving a voltage amplification of 10,000. The antenna is of the umbrella type, 70 feet height, with a counterpoise. This transmitter, using only 10 watts power, has been heard in Canada. Re the question of daylight reception of the Australians, I do not think that 5AD, 5KA, 2KY, and 6WF should be included in those not accepted. I am in favour of "Searcher's" idea concerning the stations west of Victoria.—DX84OC (Dunedin).

KGU's Schedule.

ON Oct. 29 I logged KMMJ, Clay Center, Nebraska, just below XER. The following are particulars of KGU, Honolulu, which broadcasts on 940 k.c. (319 m.). Address: The Honolulu Advertiser, Advertiser Square, P.O. Box 3110, Honolulu, Hawaii. Schedule: Daily, 6.15 to 10 a.m., 12.1 p.m., 3.45 to 11 p.m. Sundays, 8.15 to 10.15 a.m., and 3.45 to 10.30 p.m., Hawaiian time. (Note: 7.30 p.m. Honolulu time is 5.45 p.m. N.Z.S.T. the following day in New Zealand.) The director of KGU is Mr. M. A. Mulrony.—"Multi-mu" (Dunedin).

DX Jottings.

"TINY" (P.N.): Certainly. Anyone else who cares to call can obtain my address from the DX Editor.—N. Jenkins (Masterton). I would like to correct you as to the stations you heard on October 26. 2HM, Bondi, is known as "Miss 2HM," and on that date she was working with her father, 2HM Broken

Hill, operated by H. Marshall, announcer and director of station 2XL. Station working 5WS was 3RG, Castlemaine. Re Jap. station, you probably sent for verification to JOKK instead of JOJK. The latter operates on 710 k.c. (422 m.), and the former on 700 k.c. (428 m.). Recently I received a detailed verification dated Sept. 10 from JOJK verifying reception of August 2. At the same time I have not heard either station later than 2.20 a.m. B.W. (Stratford): XER is quite correct, but I cannot understand the call because Del Rio is really in the State of Texas. This station must have increased its power, for it comes in too well to be operating on the listed 100 watts.—J.P.C. (F.N.).

Another DX Cup.

DX27W (Marton): 2ZR, Wellington, will operate on 234.4 m. (1280 k.c.), so it could hardly heterodyne with 3YA. L.M. (Northcote): I have heard your station several nights during October, and although I have not heard their call I am sure it is American. 2ZK, Wanganui, has prevented me from identifying him. DX12HB: Cheer up. I have had my set only three months, and have already burnt out the rectifier and a screen-grid valve. DX81W: I also received an exceeding prompt reply from 4BC, although I sent no return postage. However, I have written three times to 4ZL, Dunedin, including postage each time, but have received no reply. DX13T: I think your idea re club members contributing 6d.



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We now have ready a quantity of beautifully embossed D.X. envelopes. The Club colours are used, and an effect of prestige will be added to all communications placed in these envelopes. Price: 3/6 per hundred, post free.

LOG CHART

We have, printed on good, durable paper, a practical Log Chart that enables you to follow on your control dials the exact position at which a station should come in. These are selling like hot cakes at 4d. each, plus 1d. postage.

RADIO

TIME TABLE

We still have a few Radio Time Tables left. They are printed on strong paper that stands folding, and enumerate all the leading New Zealand, Australian and American stations, including a number of short-wavers. Frequency, wave-length and power are given of each station, also the call and location. The reasonable price is 4d. each, plus 1d. postage.

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The New Zealand
Radio Record

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each towards a cup is excellent. My aerial is of the "L" type, 300 feet long, 60 feet high at the far end and 40 feet at the lead-in end. It is always advisable when trying out test aerials not to go by any improvement they might make to local reception or to that from high-powered stations at medium distances.—"Audio" (Blenheim).

Blacklisted.

LATEST verifications include 4GR, 4TO, and KFSB. The following stations are on my black list:—4ZL, 4ZW, 3WR, 2MV, WFAA, KTM, WLAC, and KTBS. DX81W: I logged 2XL at about the same time as you, and received my verification very soon after.—"Wainui" (Gisborne).

The "Radio Log"

An Enlargement

COMMENCING with the next issue of the "Radio Log," which will be on sale on November 24, certain improvements will be incorporated. The "Log," which has steadily increased in size, commencing at first with 16 pages and then advancing to 24, will be still further enlarged to 32 pages. There will be more illustrations, and this month a map of New Zealand showing the location of all the broadcasting stations. There will be also a complete list of all the New Zealand stations, with their schedules, frequencies, etc. Another interesting list will be that of all the American stations of 100 watts and over in power, with particulars concerning their methods of verification and other hitherto unpublished facts about the stations. This list alone to DX-ers will be worth the price paid for the "Log," which, by the way, is not being increased despite the enlarged size.

A new service for DX-ers will also be started in this issue, but before the issue comes out we are not saying anything about our intentions. We have no doubt that this feature will be a very popular one among DX-ers. The "Log" will in future have a semi-technical section in which semi-technical topics of interest to DX-ers will be discussed. For instance, in this issue we are discussing the pentode valve and its application to DX-ing. Is the pentode valve worth while from a DX-er's point of view? If so, how can it be coupled into existing sets? We are discussing the new super-heterodyne sets and giving readers some valuable advice concerning their circuits.

There comes a time when every DX-er wants to improve his present installation and get farther afield. Commencing in this issue, then, we are starting up this series of articles which will go under the general title of "Improving the Installation," and month by month we will take up various topics which are of vital interest to those who are anxious to get farther afield. These topics will, although of a semi-technical nature, not be difficult to understand and are prepared particularly for the DX-er who does not have a technical knowledge. However, even the enthusiast who has made his own set will, we venture to say, find the articles of particular interest.

Many enthusiasts have expressed their appreciation of our accounts of overseas stations, and this month we are continuing the good work commenced in previous issues. Short-wavers will find of particular interest

our description of Radio Sargon, that very popular station which every short-wave listener has heard. More American stations are being dealt with this month, as well as a European which has been heard in this country.

If you are wise you will order your copy now, as supplies are limited, and

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you may be disappointed if you leave it until the last moment. Ask your bookseller to put one by for you, or better still, give him 6/- for a year's subscription. You will never regret it.

A Visit to a New Zealand Radio Factory

An Up-to-date Plant

LAST week we had the very interesting experience of being taken over the embryo of a New Zealand radio factory—that of Messrs. Collier and Beale, who are manufacturing the "Radion" receivers.

We were very interested to note that this new "Radion" product—about which a laboratory report appears elsewhere—is wholly assembled in New Zealand. As far as possible British parts are used, and wherever possible the components are made in New Zealand. The cabinet work is the product of a Wellington firm and reflects great credit upon them. Indeed, it compares favourably with any manufactured article. The chassis is also made in the city and is stamped out in Collier and Beale's factory ready for the mounting of the various components. Transformers and chokes are also manufactured by this firm. At the present time the factory is a hive of industry. One sees sets in all stages of manufacture.

In one room the stampings are made and the chassis passed forward to the assembling room, where the various components are fitted into position. They then go forward to another section of the works, where each component is tested in position before the wiring is carried out. Experts proceed with the wiring and on the completion of this, a further test is made. At this stage, too, the condensers and coils—also made on the premises—are balanced up by precision instruments. A further stage is reached when the chassis are assembled in the cabinet and the final test made. Every set, before being released, is tested under several headings, including selectivity, sensitivity, and tone. It might be remarked that the speakers employed are a well-known and proved American line of dynamics.

The circuit for the receiver itself—a super-heterodyne employing pentode and multi-mus—was evolved by New Zealand engineers and, as we have re-

Outspan Five

(To the Editor.)

I HAVE the Outspan working successfully, but I found it necessary to alter the coils. With 75.80.75 wound on 2FC was my limit, so wound 90

marked elsewhere, the performance compares favourably with our standard.

It is interesting to see another New Zealand industry thus springing up. The radio industry, which is now well established in most of the larger countries of the world, is on a very sound footing in Australia, where a tariff prevents the importation of sets from overseas. The result has been that the Australian industry has developed at a remarkable rate, and some very fine receivers, quite equal to the imported article, are now being manufactured. Although it is not proposed that so drastic a step as the imposition of a tariff in New Zealand be taken, yet it is indeed gratifying to see the New Zealand industry establishing itself. Already in other parts of New Zealand radio factories are to be found. In Auckland there are two or three from which a very large number of excellent receivers are sent out to the market. It is to be hoped that the fullest support will be given to these New Zealand products, which appear to be quite on a par with those imported.

turns on each, with 33 on primaries, and now can get 72L. I am using .00085 condensers and .00015 differential condenser, using 45 turns on tickler which is not quite enough, as 2FC is not up to maximum strength with the moving plates full in.

The following three tips may be useful to constructors:—

(1) In winding the secondary and tickler coils, wind on more turns than necessary and finish of coils by bringing out the ends to solderlugs on top of the formers. This simplifies removing turns if necessary.

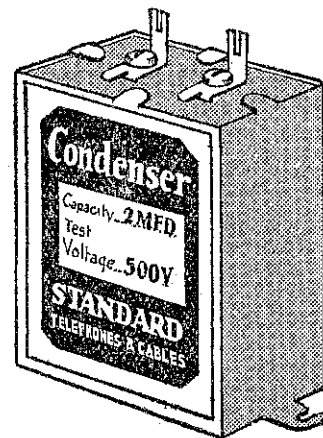
(2) In balancing up (see Q. and A's. for 16th October) break the lead from the .001 condenser to the top of the primary of detector coil and join it temporarily to the top of primary of the second radio coil, and then balance this coil with the detector and do the first coil last. This saves removing the detector coil to take the turns off the bottom.

(3) I found extra insulation on the grid leads to be an advantage, although I used glazite wire. To do this, obtain some bicycle valve tubing and slip over. To make it slip easily suck through some french chalk after cutting it to required length.—Moi Whare (Felding).

Simplify DX-ing.

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OF high and consistent capacity and possessing the maximum insulation qualities, Standard Condensers are particularly recommended to Home Set-builders. They are of sterling manufacture through and through, and are built to do their job and to keep on doing it. In every instance the "Standard" has an almost perfect dielectric by which the totality of electrical losses is reduced to an absolute minimum. Another feature is lugs at each side, which enable the Condenser to be easily placed in position and firmly secured. Obtainable from all Radio Dealers.

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QUESTIONS: ANSWERS

FRANK KEE

The Technical Editor will, through these columns, be pleased to help readers experiencing trouble with their sets. Queries are limited to three—for more than this a shilling fee is charged, and a similar fee is payable for queries answered by post. Supplying layouts, circuits and solutions of intricate theoretical problems is beyond the scope of this service.

A coupon must accompany all requests for information. Non-appearance of the coupon in any issue cannot be regarded as a reason for its not being used.

Address all queries, The Technical Editor, Box 1032, Wellington.

ION (Wanganui): Would the "Home and Country Portable" give good loudspeaker strength on 1YA if used within five or ten miles?—Yes.

2. Could I use a spare transformer as a choke? If so, what would be the inductance?

A.: You could, although it would not make an altogether satisfactory one. We cannot find out the inductance.

3. What combination of Philips four-volt valves should be used?

A.: A415 detector, A409 first and second audio.

TONE (Hawke's Bay): On the lid of my five-valve battery set is written "Use only 2-ampere valves." I am now using low filament consumption valves in all stages, but the volume control does not appear to work. Otherwise the set is better than what it was previously.

A.: You can safely use the valves now in the set, but the volume control, which is a resistance in the filament circuit, will not be of a sufficiently high value to control the voltage when the smaller current taken to the improved valves is to be passed. If you take out the resistance and replace it with a 30 ohms one you will find it will work again satisfactorily.

2. I am using 12 volts grid bias with 108 H.T. for a B605 valve. Is this too much?—No.

3. Must I put in a special g.b. tap when using the 221 in the r.f. or first audio stage?

A.: No. Sometimes a slight saving can be effected by biasing valves other than the last, there is rarely any improvement in either distance or tone. This does not apply to a.c. sets.

I.S.G. (Christchurch): We do not know anything about your particular receiver, but we presume it would be as sensitive as others in its class. As to whether it will receive European stations,

Information Coupon

(To be used with all requests for information.)

Name of set

Number of valves

Name

Address

.....

.....

.....

Nom de plume

To be kept in subsequent inquiries

Date

Please Note:—

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

however, there is some doubt, as the reception of these stations is due mainly to the locality.

DX1030C (Hindon): What would be the range of an average short-wave two-valve set?

A.: You could get most of the stations that are worth while hearing on phones,

The Super Six

CONSTRUCTORS will be interested to know that the Super Six, which was billed for description in the "Radio Record" a short time back, but which did not conform with the Post and Telegraph Department's regulations, has now been passed.

This six valve super-heterodyne battery set, which is easily the most powerful we have yet described, will appear in the "Radio Record" on November 27. At the present time the set can be used only from a loop, but even with this, all that is to be desired can be brought in. We are still experimenting, and, in the near future, will be able to announce, we hope, that by the use of a certain attachment, the set can be used on an aerial. Upon trying it out last week, Christchurch was brought in (on the loop) in the early afternoon,

including G5SW, RV15, Rome, and the Americans.

2. Would a "Night Hawk Two" receiver be the best circuit for a two-valve set for short-wave?

A.: The "Night Hawk Two" is a splendid s.w. set. If you want it for these bands only, use .0001 tuning condenser instead of the .00035 specified and omit the .001 condenser in series.

3. What would be the best valves to use in such a circuit?

A.: The new 230 type would be excellent.

LECTRO (Masterton): Your adapter should work satisfactorily from your broadcast set.

2. In making the electric "Radiogram Five" the "Guide" does not specify what transformers are necessary; would a 3-1 more or less old-fashioned transformer do in the first stage with a 5C for the last?

A.: Yes, we think your transformer would be quite satisfactory. If the tone is poor substitute the old-type for a more modern transformer. For more information concerning the super-het. a.c. receiver, see section devoted to it in "Questions and Answers in Radio," a booklet first published by the "Radio Record."

H.C.O. (Cambridge) has made a Majister short-wave unit from the October, 1929, "Radio News," and he would like to get into communication with any other constructor who has built the same or a similar set.

L.M. (P.N.).—How many turns, and what size of wire are required to bring in 175 k.c. with a .00035 condenser?

A.: 220 Turns of 30 dsc. wire on a 3in. former would be quite satisfactory.

J.W. (Dunedin).—We are redesigning the oscillator stage of the super het. shortwave receiver, and it should be ready in a few weeks. However, the "Cathode super" will be ready, we think, before that.

E.A.B. (Hastings).—A d.c. lamp is one that uses direct current. These are the same as the ordinary lamps used in the a.c. socket. If you have fused your lights look over the connections very carefully, because if the lamp is in series you cannot do any harm. If, however, you have put the lamp in parallel, you will cause trouble. Are you quite certain you are clear on the meaning of "in series"? One side of the mains is connected to one side of the lamp and to nowhere else. The other side of the lamp goes to your helix and back to the main again. If you make this connection your light cannot blow out, but should you connect the side of the lamp which is connected directly with the mains with any part of the apparatus other than with the lamp socket itself, you will have trouble. By the way, do not forget that in experimenting directly with the mains you are contravening the regulations.

F.P. (Christchurch).—The Browning-Drake Five was fully described in the 1929 "Radio Guide."

SPARTON (Ohuka).—My set has stopped, although the batteries are in good order. All the valves light.

A.: There are many things that could be wrong with your set, and we advise you to consult a chart such as that published in "Questions and Answers in Radio," a booklet which is available this



week. Have you tried another speaker, for yours, being an old one, may possibly be the cause of the trouble? A broken-down condenser would also bring about the symptoms which you describe, also one defective valve, for, although a valve lights, it may still be at fault. It would not be a bad plan to have them tested. It may be that a filament resistance has burned out, or rather developed a high resistance connection, in which case the valves would light dimly, as you say. However, if you do not know anything about a radio set it would not be a wise plan to attempt to find the trouble. You may incur more serious trouble in the process.

JANC. (Musselburgh).—For each coil you will require from 2½in. to 3in. of 2in. former and 1½in. of 1½in. former, but the regenerator will require 3½in. The coils for the sets are exactly the same. Your valves are quite satisfactory, and the bias resistance can be found

A WORD IN TIME SAVES--

In this case it will save you from buying an out-of-date receiver. Don't buy a radio until you have seen and heard the "Ultimate"—a 1932 receiver available in 1931. Compare it with any other set on the market—THEN decide.

ULTIMATE SHORTWAVE and BROADCAST RECEIVER

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There is an "Ultimate" Distributor in every part of New Zealand. If any difficulty in securing information or demonstration, communicate with—

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by looking at the table in the back of the "Guide."

G.G.S. (Hawera): The "Guide" is not incorrect; you are confusing two different principles, that is all. It would be beyond the scope of "Q. and A." to explain the position more fully. However, in "Questions and Answers in Radio," you will find a good deal about that subject.

H.G. (Hamilton): I have an 8-valve super. het. commercial set, and the earth wire of this is connected to a galvanised pipe by a 15 feet wire. I understand that 9 feet should be the maximum. Is this correct?

A.: The rule is that the shorter the connection to earth the better the earth. However, with these modern sets a little difference such as you describe would make really very little difference in performance.

2. Could you recommend a publication for amateur purposes, dealing with radio set, with explanations from A to Z in understandable language?

A.: The first section of "Radio Questions and Answers" should be exactly

what you want. It describes the functions of every part of a radio set, without technical terms unless they are first fully explained.

IGNAZ (Te Kuiti): Since fitting a pick-up to my electric set I cannot get the stations I could before.

A.: We wish you had given us the circuit you use in connecting up the pick-up. for, although we told you how to do it, yet there are many ways in which it could have been done and we could have shown you perhaps another circuit to try. We wish that correspondents in referring to previous questions in the columns would either state the case fully or cut out the original query and pin it to the letter. It would save us a great amount of trouble.

2. Your idea for transposing the chassis, phonograph and speaker to a separate cabinet will be quite in order. It is advisable to leave the back of the cabinet open.

BLUEY (Napier): We do not know where you could obtain a diagram of the circuit. It is probably an ordinary

neutrodyne type of circuit with resistance-coupled amplification in the last three stages. If that is the case the first three valves are correct, the next quite wrong—it should be R.C.A. 221 or its equivalent; the next would be better, as the detector, and 221 could go in the socket which A615 previously occupied, and 171 is correct in the last stage. You can tell the detector by giving it a smart tap, in which case a fairly loud ring will come through the speaker. The other valves will ring, but not to the same extent.

2. The set has no earth terminal. "B—" goes to "A+." Where can I put the earth wire?

A.: To the "B—" "A+" connection.

WAVELENGTH (P.N.): I have constructed a one-valve set and cannot get it to oscillate, although I have tried taking off a few turns from the tickler.

A.: Instead of taking turns off you should put them on to get a set to oscillate. Reverse the connections to the tickler, that is, interchange the wires that go to the plate of the valve and the fixed plate of the condenser. Reduce the number of turns on the aerial coil to, say, 18, that is, if interfering with the tickler has no effect, and try a different grid-leak, say 3 or 4 megohms in value. Make quite certain that the grid return, that is, the wire that comes from the moving-plate of both condensers, connects with "A+."

PICK-UP (Gore): Your aerial and earth system is not satisfactory. It would be better to place a mast near the house and use an ordinary "T" aerial without the fancy business of running a loop from the distant end through the ground to the set.

VALE: While we cannot say definitely whether your set would give you loud-speaker strength on the New Zealand and Australian stations, yet we have every reason to believe that it would. We made one up, and were able to bring in those stations without any difficulty. As to whether or not it will be light upon batteries will depend entirely upon the type of valves you use. If you use the 221 type or the 230 type in all stages except the last, where you use a medium power valve (not a big one, which will use a lot of current), your batteries will last quite well. It is certainly a trouble-proof set. Furthermore, you can add a stage of s.g. to it and make it very much more powerful than it is at present. Details of this were published in the "Radio Record" a short time back.

McL. (Port Ahuriri): We can design a circuit to fit in with your components. If you could let us have the circuit of the adapter so much the better. You would, of course, have to send the fee for a reply by post.

BALDY (Ohakune Junction): Is the electric Radiogram in the 1931 "Guide" as good as those published in the "Radio Record"?

A.: Yes, the Radiogram is an excellent set embodying many new features. It would be as well to use a 245 in the last stage if you can get the voltage to operate it satisfactorily.

NOVICE (Christchurch): When the 4½ volts "C" battery is connected the filaments of the valves light even although the filament switch is turned off.

A.: There is undoubtedly a wrong connection with your "C" battery. From what we can make out by comparing your sketch with the circuit, the connection between C—4½ and the by-pass condenser, which apparently is connected to the neutralising condenser, is quite wrong. The leads from the C—s should go direct to the F— terminals of each of the two transformers. They should not go to any other point in the set except in the case of the second transformer, across which is a condenser. One side of the condenser is connected with F— of the transformer. You appear, too, to be shorting out the first "C" battery. We would not advise you to use your set without the "C". If you cannot rectify the

trouble yourself, get someone who can. It should be done.

FREQUENCY COP (Auckland): You have not told us the size of the former. We do not happen to have specifications of all commercially-made apparatus at our finger-tips.

2. I have a pair of phones that are extremely sensitive when tested with the electricity of the body, but when they are connected to my four-valve set I can hardly get any volume through them.

A.: How do you test them with the electricity of your body?—The best method of testing a pair of phones for sensitivity is to take a small battery, say 1½ volts, and connect the terminals across this. If you get a loud healthy click the phones are quite all right. If the click is weak, then there is something wrong with them, as the valves you are using in your set are quite satisfactory.

R.F.C. (Huntly): How many turns must I wind on a short-wave r.f. choke on a glass former 11/16in. diameter?—About 150.

2. How many turns on the same former for an average broadcast receiver r.f. choke?—About 1500.

3. The gauge of your wire is 42 enamel.

ANXIOUS (Khandallah): 2YA spreads itself between 60 and 100 on the dial of my new super-heterodyne set. I have tried both "Knife-edge Rejecter" and "Dual Wavetrap" without success.

A.: In the first place we think there is something wrong with your set. A super-het. of the type you are using should not do this. 2YA should disappear cleanly. As a matter of fact we have tried many modern sets in your neighbourhood, and even when using a very large aerial we can eliminate 2YA in favour of 4YA. A wavetrap should effect an improvement, and we suggest your taking your wavetrap along to a Wellington dealer, say Fear and Co., and asking them to try them out. If they are satisfactory, have another try to adjust them. But your set should not need a wavetrap.

ECONOMIC THREE (Gisborne): Is there any way of rejuvenating a PM.14?—No.

DIAGNOSIS (Taihape): How long will my standard "B" batteries last with a four-valve set using 201A valves?

A.: If the set is operated three to four hours a day, your batteries will last approximately 6 months.

3. Concerning the three-coil tuner mentioned in the "R.R." Sept. 25, page 16, how is this drawn?

A.: The same as is shown in the lower right hand sketch in the diagram, only

Radio Serviceman's Examination

What do you know about resonance, inductance, oscillatory circuits?

Do you fully understand the operation of a superheterodyne set? Could you service one that tuned exceptionally broadly?

There is just time to brush up your knowledge of radio . . . but NO TIME TO WASTE.

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"Rider's Perpetual Trouble Shooter's Manual, 1931," 32/6. No dealer should miss it.

"World Radio Station Identification Panels," 1/7.

"Radio Amateur Call Book," Sept., 1931. 5/3.

"Radio Record' Questions and Answers," 1/8.

"Radio Review of Aust.," 1/1.

"Mathematics for Practical Man" (Howe), 9/10. Easily followed.

"Technical Instruction for Wireless Telegraphists" (Dowsett). Revised up to date. 31/-.

"Radio Manual" (Stirling and Kruse), 36/-. Latest edition.

"Radio Handbook" (Moyer and Westrel), 27/-.

Ralph Stranger's Wireless Library. Latest additions:—"Amplification of Wireless Signals," "By-products of Wireless," "Re-production of Wireless Signals," "Wireless Measuring Instruments," etc., 1/7 each.

"How Radio Receivers Work" (Roberts), 7/10.

Special Short-Wave issue ("Popular Hobbies") (Complete list S.W. stations. New time conversion chart. Three special S.W. sets). 7d.—Rush it!

"Ardell's Radioman's Guide," 6/4. Practical information for proper operation, maintenance and service. Snap it.

"C.Q." U.S.A. Ham monthly, 1/3.

"Elementary Principles of Wireless Telegraphy and Telephony," by Bangay. Revised edition by O. F. Brown, M.A. B.Sc., 13/2.

"Morse Made Easy," 7d.

"Perry Auto-Time Morse System," 10d.

"Radio Engineering Principles," by Lauer and Brown, 18/6.

"Practical Radio Telegraphy," by Nilson and Hornung, 18/6.

"Radio Receiving Tubes," by Moyer and Westrel, 14/6.

"How to Understand Wireless Diagrams," 1/7.

"Television," 1/7.

"All About All Electric," 1/8.

"How to Electrify Your Radio Set" (U.S.A.), 1/9.

"Radio Log" (N.Z. Oct.), 7d. per copy.

"A.R.R.L. Log of Amateur Stations, 2/-.

"Broadcast Reception" (Theory and Practical), by Pritchard, 11/8.

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"Short Waves," by Leitz and Gable, 16/-. First exclusive book on S.W. invaluable.

"Cosaro" Radio Indicator and Key, 675 stations, 2/1.

"Practical Radio Construction and Repairing," by Moyer and Westrel, 15/6.

Blue Prints—"Bruttyless Neutrodyne,"

"Selective Crystal Set, Two Stages Audio," "6-Valve Neutrodyne, One

Transformer and Two Resistance-coupled Audio Stages," "3-Valve

Browning-Drake," "7-valve Super Het," 1/6 each.

"Scott's Radio Handbook," 6th edition. 1/6.

"Q.S.T." Sept.-Oct., 1/10 each.

"Modern Sets, 1931" (2-3-4-Valve Battery and A.C. Sets, L-W Amplifier and special S.W. Set, 1/8 (N.Z. conditions).

"Cameron's Sound Motion Pictures Encyclopedia," 18/6.

"Radio Amateur Handbook" (Handy's), 8th edition, 5/3.

"Theory of Radio Communication," by Filgate, 12/-.

"Principles of Radio Communication," by Morecroft, 41/6.

"Elements of Radio Communication," by Morecroft, 19/-.

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64 COURTENAY PLACE, WELLINGTON.

the conventional variable condenser symbol is shown between the aerial and the coil.

3. How do you detect the detector?

A.: Usually if you tap the detector you can get a ring in the speaker. Other valves in the set will also give a ring, but the detector is the most pronounced. Furthermore in the lead to the grid of the detector valve is a grid leak and condenser. It is usually preceded by a coil and followed by a transformer.

S.W. SUPER (Taranaki): The valve of the resistance is really not important. 100,000 ohms will be quite sufficient, although 500,000 ohms would do equally well. 500,000 ohms would make a good volume control used in the manner you suggest. It is really preferable to vary the voltage on both the s.g. valves, in order to control the volume.

GRID (Whangarei):—Yes, our specifications were slightly confused; 2100 was the maximum, that is, 1050 on either side of the rectifier. This will allow a slightly bigger margin than would the 850 specified. As, however, if you use half-wave rectifications you will need only 1050 turns, which will leave a big margin.

STALLOY (Thames):—Using a stalloy core, 3 x 3, what number of turns per volt must I use on the transformer to be connected with the 230-volt 50-cycle mains?

A.: You will require one turn per volt. The transformer will be 95 per cent. efficient.

2. Where could I get an uninsulated transformer steel?

A.: Try the National Electric Engineering Company, Wellington.

3. The shell and core pattern transformers are usually considered to be the most efficient.

STEP-UP (Greymouth):—Your questions are beyond the scope of Q. and A.

VELOX (Auckland):—Please send your circuit and we shall amend it as you desire.

M. (Miramar):—All you can do is to keep experimenting with different numbers of turns. We tried out a very large number, and those we published give the best results. If this is not the case with you, you can only do as we did, try various adjustments.

H.G.T. (Wellington):—Does the mutual conductance of the s.g. and pentode valves vary as the impedance?

A.: The impedance has a bearing on the mutual conductance, but it is wrong to say that the mutual conductance varies as the impedance, m.c., can be measured in mhos. by dividing the amplification factor by the impedance and multiplying by a million. It can be seen from this that m.c. will be constant for a given amplification factor and impedance only. Anything that tends to diminish the impedance or raise the amplification factor will better the m.c. Conversely, anything that increases the impedance or diminishes the amplification factor will have the opposite effect.

2. Does the mu refer to the plate current only or to the sum of the extra grid and plate currents?

A.: Indirectly to both, in that the extra grid influences the impedance which in turn influences the mu. The actual calculations are made from the plate current only. Mu, of course, denotes amplification factor, and is derived from the curve of the valve by comparing changing current brought about by change in anode voltage, divided by change in grid voltage responsible for the same variation in the plate current.

3. If reducing the ht. on the extra grid increases the impedance, and therefore for it.

the amplification factor, why not use no voltage on the grid?

A.: If you increase the impedance of a given valve, you will diminish the amplification factor. A valve has a high amplification factor, not because it has a high impedance, but because of the arrangement of the elements within the valve. Consequent upon this is the high impedance.

B.B. (C. Otago):—Using a 2-amp tungsten bulb, what is the correct voltage to tap off the transformer to charge a 6-volt accumulator with 2 amps?

A.: The drop through the bulb passing 2 amps. is about 10 volts. Consequently you will require 16 volts. A better plan would be to make provision for 20 volts, and use a resistance to regulate the charging rate.

2. What voltage would be required to charge (a) a 50-volt accumulator, (b) 100-volt accumulator at an eight of an amp?

A.: The drop through the valve would be about 15 volts, consequently the secondary must be capable of delivering 65. (b) The drop will be from 20 to 25 volts, hence you will require 120-125 volts, from the secondary. The hook-up is the same in all three cases, and the rate of charging for the "B" accumulator will be about 100 mamps.

J.C. (Dunedin): Yes, to your first two questions, and no to the third.

GREEN GRASS (Pelorous Sounds): Would three "B" batteries give me better reception than two?—We think so.

CARAVAN (Wellington): Our Super Six is somewhat similar to the circuit which you are using, which, by the way, contravenes the P. and T. Department regulations. As we shall be publishing full details of this set in the near future, we advise you to use your parts for it.

W.A.L. (Rangiahua): What can I do to stop the noise from a lighting plant coming through my set?

A.: You can overcome the difficulty by using chokes and by-pass condensers in the manner described in the "R.R." for August 14.

OWL (Greymouth): Volume from the "Kestrel Three" is very weak. Tuning is very sharp and the set oscillates when the differential condenser is earthed.

A.: There is a fault in the set somewhere. Make the following tests: See that the moving vanes of all three condensers are actually connected with earth, that the fixed vanes cannot touch the moving or earth, that a condenser is not being shorted out through its proximity to shielding. Bring the aerial in to the fixed plates of the detector condenser and see if there is any improvement in either volume or operation. If there is, then there is definitely a fault in the r.f. stages. Have you remembered that the cap of the s.g. valve connects with the plate? Are you getting screen voltage to the r.f. valve?

2. Is it in order for a spark to occur when I connect "B"? It occurs only once after an interval.

A.: This indicates that the condensers are charging and it is quite in order.

DX15NW: Is it necessary to earth the dead end of a Beverage aerial to a resistance, and why?

A.: We said so, and gave the reason in the article on the Beverage aerial published in the "R.R." on October 3, 1930.

2. Is fencing wire as good as the standard copper aerial wire?

A.: For the Beverage aerial, yes.

ARIKI (Blenheim): Your present aerial is the better.

FERRANTI

Ferranti approached the Eliminator question firstly from the "SAFETY" point of view. When working off the mains with all the power of the generating station behind them, Safety is essential. A chain is no stronger than its weakest link. A defective component in a mains unit may prove disastrous.

All Ferranti mains components are built for mains work with an AMPLE MARGIN OF SAFETY, by engineers who understand mains work and what it involves. Ferranti has built 1,000,000-volt transformers and 800,000-volt condensers.

You will readily understand the vital importance of SAFETY in apparatus of this class, and the same skill in design, the same manufacturing facilities, and the same relative margin to safety is available to you for your Eliminator if you use Ferranti components.

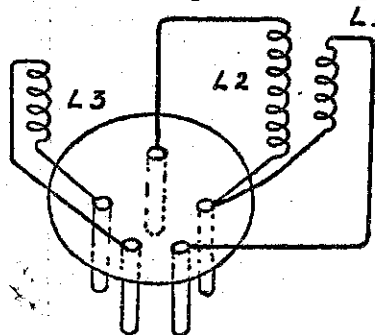
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WELLINGTON AUCKLAND

rather too long for shortwave work and a series aerial condenser is the easiest way of reducing this; secondly, "dead spots," which are due to too tight a coupling between the aerial and secondary coil, may often be overcome by varying this midget condenser. The next refinement is a 400 ohms baseboard mounting potentiometer, which is placed across the filament of the detector valve, thus enabling the grid to be made more or less positive with respect

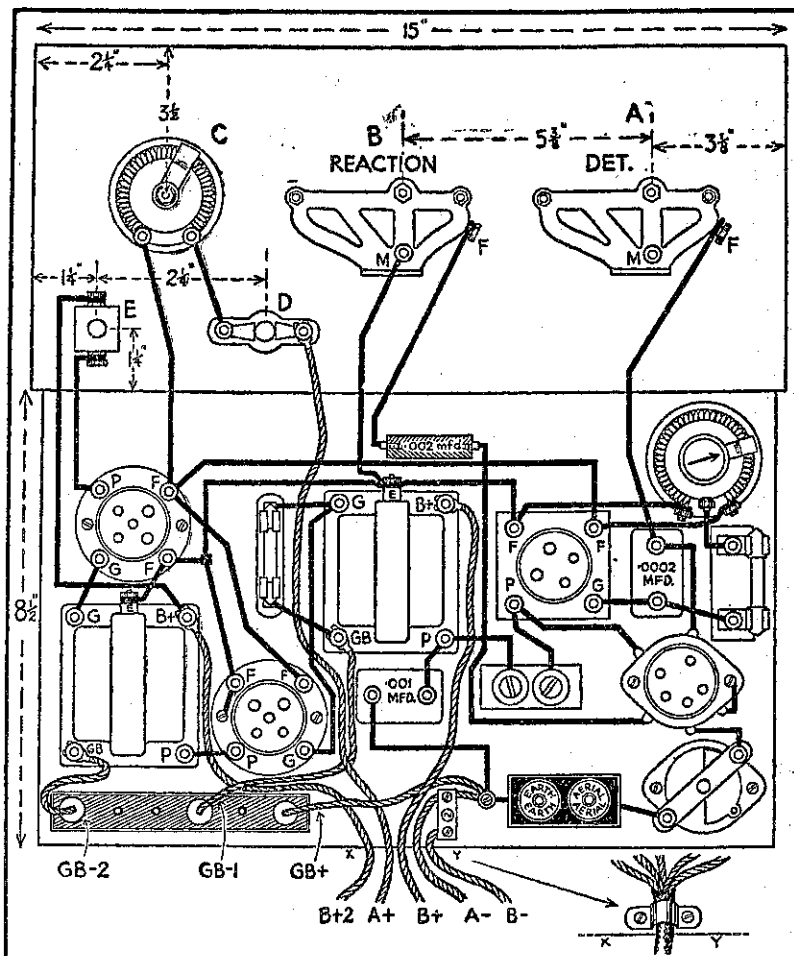


Showing the connections of the three coil windings to the valve base.

to the filament as desired. By correctly adjusting this, very smooth control of reaction is obtained—a very important factor in shortwave listening.

Two further refinements are the .001 mfd. de-coupling fixed condenser placed between the plate terminal of the first audio transformer and earth, and the .25 megs. resistance across the secondary of the same transformer. By their inclusion the objectionable "fringe" or "threshold" howl often encountered in tuning is overcome. The resistance should not be lower than the value stated, or otherwise the volume will be appreciably reduced. Incidentally, it may be found that this resistance is not required.

If you have a couple of spare leads in your battery cable, do not be tempted to place the grid-bias battery with the others, outside the set. Instability will almost undoubtedly result. Always keep the grid-leads short by placing the battery within the set. Another point which may appear inexplicable is the inclusion of a .002 fixed condenser in series with the reaction condenser. This is purely a safety measure, for otherwise, if the vanes of the reaction condenser are accidentally shorted, a new set of wires will be needed. While on the subject of reaction condensers, we might men-



The layout diagram of the "Night-owl Three."

tion that if the constructor so desires, a differential reaction condenser may be incorporated in this receiver. The two sets of fixed vanes are connected one to each side of the reaction coil and the moving vanes are earthed.

A point to notice in the layout sketch is that while the moving vanes of the reaction condenser are earthed, those of the tuning condenser apparently are not. This is not so, however, for these vanes are earthed via the aluminium sheet backing the front panel, which is itself earthed through the moving vanes of the reaction condenser.

Wiring the Receiver.

WHEN all the baseboard components are mounted, the wiring may be

mentally, if you ever come across a discrepancy between the theoretical and layout diagram, always follow the theoretical.

The Coils.

FOR the convenience of those who constructed our "Differential" series of receivers and who might desire to build the "Night-owl Three," we have provided for the use in the latter receiver of the "Differential" short-wave type coils. These are wound

Coil Specifications

Designed to work with the specified values of reaction and tuning condensers. Wire, secondary, 26-28 d.s.c.; reaction and primary, 30-32 d.s.c.

	L1	L2	L3
	(primary)	(secondary)	(reaction)
Metres			
60-100	6	25	10
30-60	3	12	8
15-30	2	5	5
8-15	1	3	4

if you stick to it and puzzle things out for yourself you will be surprised to see how easy it really is. Incidentally, on a five-pin American type 224 valve base.

The following is the procedure in making up one of these coils: First of all work the socket loose from the glass bulb of the valve by twisting it backward and forward until it comes out. Then apply a soldering iron to each of the five pins to open the ends. Next identify the five pins by comparison with the valve holder or with the diagram reproduced on this page, and with a sharp steel point scratch on the valve base opposite each pin F+, F-, P, G, and C, as the case may be.

Now commence with the reaction winding at the bottom of the base. The wire should be threaded through the correct pin and taken to a hole drilled in a suitable place in the side of the valve base. The correct number of turns is then wound on and the

(Concluded on page 30.)

THE "NIGHT OWL THREE" Use British Parts

Panel, ebonite, 16 x 7.....	5/-	Allwave R.F. Choke, Telsen	3/-
Panel Shield, 16 x 8, aluminium	2/6	2 Audio Transformers, Telsen 3-1	8/- each
Baseboard, 16 x 6	1/-	1 X UY Socket, W.B.	1/3
Base Shield, aluminium, 16 x 8	2/9	3 X UX Sockets, W.B.	1/3 ea.
Formo, double spaced .00015 ..	6/-	Our special Plug-in Coils....	3/- ea.
Reaction Condenser Formo, .00025	6/-	1 X Ormond Push Pull Switch	2/-
Aerial Series Condenser, Igranite	5/-	1 X Igranite Insulated Jack	2/-
Grid Condenser, .0001 T.O.C....	1/6	1 X Grid Leak, Mount Wearite. 8d.	
Grid Leak, 8meg.	1/6	2 Ormond Large Dials	6/6 ea.
Reaction Safety Condenser, .001		1 X Wearite 500hm Rheostat	2/6
Standard	1/-	1 X meg. Leak and Holder ..	2/2
		Glazite, Screws, etc.	2/-

BUILD THIS SPECIAL SHORT-WAVE SET. IT IS SIMPLE AND EFFICIENT.

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Silver Marshall 737 "BEAR-CAT"

The "Bear Cat" is the latest thing in short-wave receivers. It has everything—built-in power supply, one dial tuning and screened grid circuit—just a twist of the wrist and in comes the distant short-wave stations.

And there's nothing on the "Bear Cat" just because it's pretty. Perfect battleship shielding

Covers 16.6 to 200 metres—And coils are obtainable to cover the New Zealand Broadcast Bands, thus giving an—

ALL-WAVE, ALL-ELECTRIC RECEIVER.

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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

From Auckland

THE Divine service in Pitt Street Methodist Church will be relayed, the preacher being the Rev. W. Wai., and the organist and choirmaster, W. A. Moor.

The studio programme to follow will be supplied by the 1YA Broadcasting Choir and the Salon Orchestra. The choir will sing several unaccompanied numbers, including three negro spirituals and Gounod's fine anthem, "End Out Thy Light." The orchestra will be playing among other numbers "Layonic," "Children's Suite" and "A la de Concert."

Wellington Notes

THE evening service to be conducted in St. Andrew's Presbyterian Church will be relayed, the preaching by the Rev. R. J. Howie, B.A., and the organist and choirmaster, Mr. Frank Thomas.

In the after-church broadcast, 2YA will relay a performance of Mendelssohn's oratorio, "Elijah," by the Lower Hutt Methodist Church Choir (augmented) with full orchestra and organ.

Mr. Ernest Dawson is the conductor, and the organist is Mr. C. R. Horman.

From 3YA

ASTOR STUART STEVENS will be the preacher at the Church of Christ, Moorhouse Avenue, Christchurch, when the service will be broadcast. Mr. H. E. Ames will be choir

conductor, and Mrs. D. Boschetti the organist.

Following the service there will be a sacred cantata, "David the Shepherd Boy." From 9 o'clock (approximately) 4YA's concert will be relayed.

4YA Features

THE service in Hanover Street Baptist Church, Dunedin, will be broadcast. The Rev. E. S. Tuckwell will be the preacher and Mr. H. P. Desmoulins choirmaster.

Afterward a studio concert arranged by Mr. Ernest Drake will be broadcast. H. M. McCutcheon, L.R.A.M., will contribute violin solos and an orchestral programme will be provided by a sextet under A. H. Pettitt.

MONDAY

Wellington Notes

FROM 2YA there will be the usual morning talks. Miss Christian, of the Wellington Gas Company, will give a talk on "Cooking," and a talk will also be delivered by a representative of the Red Cross Society. At 7.40 p.m. a lecturette, entitled "Hygiene and Glasses," will be given by a representative of the New Zealand Institute of Opticians.

The "Musical Portrait" is to be on New Zealand's own foremost composer, Alfred Hill. Alfred Hill's cantata, "Hinemoa," was performed for the first time at the Wellington Industrial Exhibition on November 18, 1896, just 35 years ago. His song, "Waiata Poi," is probably the most popular of his smaller works,

and it will be sung to-night by the composer's brother, the well-known Wellington tenor, "Teddy" Hill, as well as two newly-written songs, "Sweet Maori Maid," a love song, and "Her Little Flaxen Skirt," a poi song. These have been dedicated to his brother and specially scored for the 2YA Orchestra by Alfred Hill himself. Hill's "Miniature Trio," and part of his "Maori Quartet for Strings" will be played by the Orchestra, under the conductorship of Signor A. P. Truda.

Signor Lucien Cesaroni (basso) presents a programme of duets and solos with his operatic trio, consisting of Aida Bulmas (soprano), Eileen Higgins (mezzo-contralto) and himself.



MARGARET ZELANDA, the famous coloratura soprano, who is presenting two recitals through 3YA on November 10 and 11.
—Photo, Zenith.

Numbers by Ponchielli, Verdi and Puccini will be sung by these artists, relieved by lighter songs, such as Toselli's popular "Serenata," and the duet, "The Singing Lesson."

Christchurch Features

"STRAIGHT and Crooked Thinking," a W.E.A. talk, will be given by Dr. C. E. Beeby, of Canterbury College.

In the evening a concert given from Scottish Hall, Timaru, under the auspices of the Youth Welfare League by the Timaru Boys' High School, will be relayed. A very varied programme will be presented, comprising tenor and bass solos, duets, quartets, glees, sea chanties, band selections, an eccentric dance and a gymnastic display.

Featurettes

"Elijah"

2YA, Sunday.

Alfred Hill Compositions

2YA, Monday.

"The Lady of Lyons"

3YA, Wednesday.

Operatic Concert

4YA, Wednesday.

Denis Sheard, Tenor

1YA, Thursday.

"Japanese Folk Music"

3YA, Friday.

Aviation Night

1YA, Saturday.

From Dunedin

"RUSSIA'S Conquest of Siberia" will be the subject of the international talk, to be given by Mr. Owen E. Davies.

TUESDAY

From 1YA

THE Rev. Wm. Constable will continue his series of W.E.A. talks on "George Bernard Shaw."

Professor C. R. Knight, Professor of Architecture at Auckland University, will speak on "Modern Architecture" during the International Programme.

Wellington Notes

A STUDIO concert of the popular type will be broadcast in the evening. Noho Toki (tenor) will delight listeners with several numbers, while Mrs. E. F. Hollands (soprano), who has not been heard for a considerable time, will sing four songs. Billy Hart will present songs at the piano. Mildred Kenny's Guitar Orchestra will be heard in a budget of snappy and up-to-date melodies. A feature of these will be "When You Wore a Gingham Gown." The Salon Orchestra, under the conductorship of M. T. Dixon, will supply the incidental music, and selected electrical recordings will be included in the programme.

4YA Notes

"THE League of Nations and the Manchurian Affair" will be discussed by W.E.A. students.

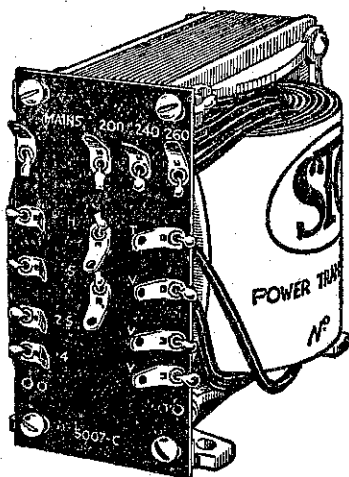
The Green Island Municipal Band and assisting artists will provide a popular concert programme in the evening. A newcomer to the microphone will be E. Ottrey (baritone), who possesses an exceptional voice.

WEDNESDAY

From Auckland

"SPARWOOD" will continue his talk about "Dogs."

The evening programme will be provided by the Jubilee Institute for the Blind. Some first-class artists, both



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vocal and instrumental, comprise the concert party. A band will play marches and selections, and there will also be a girls' orchestra and a jazz band. Pianoforte solos and violin and viola duets will be presented.

During the evening's programme, "Lee Fore Brace" will tell a sea story, "Broached To."

2YA Notes

DR. GUY H. SCHOLEFIELD, O.B.E., will be the lecturer on the evening's International Programme.

Christchurch Features

Bulwer Lytton's famous "The Lady of Lyons," will be the main feature of this evening's programme. It is to be produced by an excellent cast under the direction of Naare Hooper and H. L. Shaw. The play is in five acts. Augmenting the drama will be selections by the Studio Octet under Harold Beck and a pianoforte recital. Cesar Franck's "Variations Symphoniques," to be played by Bessie Pollard to orchestral accompaniment.

From Dunedin

The evening's programme will be presented by Signor Giovanni Stella's concert party, assisted by Signora Martinelli-Reggiardo's Sextet. This will be a programme of rare merit, ranging from ballads to operatic arias.

THURSDAY

THE home science talks, prepared by the Home Science Extension Department of Otago University, from 1YA, 2YA, and 3YA, will be on "Making the Most of the Sunshine."

Auckland Notes

A TALK about the coming holidays and travelling requisites will be given at 7.40 by the N.Z. Manufacturers' Association.

In the evening's studio concert, Denis Sheard, the popular Australian tenor, will present several numbers, and Phyllis and Edna Tye will provide mezzo-soprano and pianoforte numbers, respectively. A first-class programme will be presented by the Salon Orchestra, and there will be a topical talk by Mr. A. B. Chappell.

Wellington Features

THE major portion of the vocal programme will be given by the Aeolian Male Quartet, who will be heard in quartets, duets, and solos. The Savoy Banjo Trio will play popular numbers, including "American Patrol," "Nigger Minstrels," "Here's How," and "Medley Fox-trots." The Salon Orchestra will supply the incidental music.

3YA Notes

DR. J. HIGHT, Rector of Canterbury College, will be the lecturer on the international programme, speaking on "New Zealand—American Relationships."

FRIDAY

Auckland Features

A TALK by the Girls' Inter-house Sports Association will be broadcast, and there will also be a talk by Colonel W. C. H. Stevens on "Mounted Rifles and Cavalry."

A Spelling Bee for adults, promoted by the 1YA Musical and Dramatic Committee, will take place in



MR. AND MRS. GEORGE STARK, who have been responsible for the production of several Scottish programmes from 2YA.

—S. P. Andrew, photo.

the evening. This will be on the lines of a previous competition, which provided great interest and entertainment. The adjudicator will be Mr. A. B. Chappell, M.A.

During the evening items will be given by the Whisker Instrumental Quartet, Adele Taylor (soprano), and Frank Woodward (baritone).

Wellington Notes

In the evening 2YA will relay from Marton a concert to be given by local artists, assisted by 2YA artists. The Orchestra, under the conductorship of Signor A. P. Truda, will supply the incidental music.

3YA Notes

THE "Radio Service" dialogue series by Messrs. D. Cossgrove and W. Melbourne will be continued, and will be followed at 7.25 by a debate, "That Immediate Total Disarmament is necessary to World Peace," the speakers being Messrs. C. R. N. Mackie and A. A. Dingwall, affirmative and negative respectively.

Featured on the evening's programme will be a lecture-recital by Mr. T. Isamu Kawase on "Japanese Folk Music."

Dunedin Notes

VENTRILLOQUIAL humour will be presented this evening by H. McL. Eggers, whose comedy sketches are always entertaining. Noel H. North, a popular baritone, makes his reappearance after a lapse of some time, and will present popular numbers, among which is that delightful little ballad, "A Fat Little Fellow With His Mammy's Eyes." Ted Heaney, an artist on the piano-accordeon, has procured a most valuable instrument and will play it on this occasion.

A popular old march, "Blaze Away," will be played by W. J. Sinton, xylophonist, in addition to "The Whistler and His Dog" and "Love's Old Sweet Song." Mr. James A. Paterson is presenting an item of bright humour, entitled "The Night I Appeared as Macbeth." Mrs. D. Carty, who is the possessor of a delightful radio voice, will

be heard in "Jessie's Dream." Among other items, Mary Somerville will sing a delightful ballad, by Dr. Edgar Ford, who recently visited New Zealand, entitled "The Immortal Song."

SATURDAY

Auckland Notes

THIS will be aviation night at 1YA.

At 7.40 there will be a talk on aviation, and the evening's concert programme, which will be appropriate to the occasion, will be interrupted to permit of the broadcast of a description of night flying and fireworks at the Mangere aerodrome.

The concert programme will feature excerpts from "Going Up," sung by the Orpheus Quartet. Incidental music will be provided by the Salon Orchestra.

From 2YA

A CONCERT by the Wellington Harmonic Society will be relayed from the Concert Chamber of the Town Hall. The major portion of the programme will be choral work, which will include a variety of part-songs and choruses that have been chosen to suit all tastes. Ernest Jenner (pianist) will play "Theme and Variations" by Glazounov. Leonie Whiteford and Edna Tankersley will sing the duet, "I Would That My Love," and a special feature of the programme will be Master Lex McDonald (boy soprano) who will be heard in "Hear My Prayer." This number will be sung with chorus by the Harmonic Society.

From 3YA and 4YA

VARIETY marks the programme which is to be given in 4YA studio and broadcast also by 3YA.

THE first public library devoted to wireless and allied subjects has been opened in the new Berlin Radio House. Already the visitor can make his choice from several thousands of books in many different languages. More than 200 journals are available for reference.

Notes and News from the North

(By "Call Up.")

IN the special programme of compositions by Aucklanders to be given by the Auckland Society of Musicians from 1YA on November 12 there is one notable omission among the composers. This is Barry Coney, but his works are only unrepresented because a special programme of them is being presented from the Auckland station on December 6. This latter programme will contain orchestral pieces, and instrumental and vocal solos by this versatile and talented Auckland musician.

THE next concert by the Bohemian Orchestra, which was announced for November 19, will not now take place on that date, having been postponed till a later date which has not yet been announced.

THERE will be no cricket relays from 1YA on November 7 or 21. On the first date the Auckland Athletic Girls' Association display at Blandford Park will be relayed, and on the latter date there will be a relay of the Inter-House Girls' display at Carlaw Park.

MR. E. H. NEPIA will shortly commence a series of talks from 1YA on—no, not football—"Maori Pronunciation." Mr. Nepia being a member of the Native race is fully qualified to speak on this subject. Judging by the success of a similar series by another speaker some time ago, this series should prove a great success. For the benefit of curious small boys, it may be stated that Mr. E. H. Nepia is a brother of the famous All Black, George Nepia.

NOVEMBER 16-21 is to be a special Aviation Week in Auckland, and 1YA will do its part toward making this week a success. On the evening of Saturday, November 21, the station will relay a description of the night flying and fireworks display from the Mangere Aerodrome, the headquarters of the Auckland Aero Club. Night flying has been but little practised in New Zealand up to the present, and should provide new thrills to those fortunate to witness it. To listeners-in also it should make a novel and entertaining broadcast.

THE 1YA Broadcasting Choir will give three more concerts this year. These will be a programme of unaccompanied anthems and part songs on Sunday, November 16; the "Messiah" on Thursday, December 10; and Christmas carols on Christmas Eve.

NO doubt there are numerous Scots in various parts of the Dominion who are waiting to swing a club at "Call Up's" head for his ignorance regarding St. Andrew's Day. By a foolish slip he said recently that all guld Scots knew that this fell on November 25, which, of course, was quite wrong and an insult to all those guld Scots. However, the St. Andrew's Day programme from 1YA will be given on November 25 as that is the nearest available day for the programme.

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Full Programmes for Next

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Sunday, November 15

1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, NOVEMBER 15.

- 8.0 : Chimes. Selected recordings, and relay of portion of Organ Recital from the Town Hall by the City Organist, Mr. Maughan Barnett.
- 6.0 : Children's Song Service, conducted by Uncle Leo.
- 7.0 : Relay of Sunday school anniversary service from Pitt Street Methodist Church. Preacher: Rev. W. Walker. Organist and Choirmaster: Mr. W. A. Moor.
- 8.30 : Programme of Anthems and Part Songs by 1YA Broadcasting Choir (Conductor, Mr. Len Barnes), assisted by Salon Orchestra. Selection—Albert Ketelbey's Concert Orchestra, "Sanctuary of the Heart" (Ketelbey) (Col. 02690). Part songs—1YA Broadcasting Choir, (a) "O Who Will O'er The Downs So Free" (Pearsall); (b) "The Homeland" (Sullivan). Rhapsody—Salon Orchestra, "Slavonic" (Friedemann); Folk Songs—"Two Viennese Folk Songs" (Frick). Evening weather forecast and announcements. Anthems—The Choir, (a) "O Lord Bow Down" (Palestrina); (b) "God Is A Spirit" (Sterndale Bennett); (c) "Send Out Thy Light." Suite—Salon Orchestra, "Children's Suite Part 2" (Ansell). Negro Spirituals—The Choir, (a) "Steal Away"; (b) "Deep River"; (c) "Peter, Go Ring Dem Bells." Organ—Francis W. Sutton, Introduction and Minuet "Suite Gothique." Selection—Salon Orchestra, "Bohemienne Danse" (Bohm); Waltz—"La Coeur D'Amour" (Pizzi). Part songs—The Choir, (a) "Softly Fall The Shades of Evening" (Hutton); (b) "The Long Day Closes" (Sullivan). 'Cello—W. H. Squire, "Sarabande" (Sulzer) (Col. 04283). Suite—Salon Orchestra, "Suite De Concert" (Coleridge-Taylor).
- 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, NOVEMBER 15.

- 8.0 : Selected gramophone recordings.
- 6.0 : Children's song service, conducted by Uncle George, assisted by the children's choir from St. Andrew's Presbyterian Church.
- 7.0 : Relay of evening service from St. Andrew's Presbyterian Church. Preacher: Rev. R. J. Howie, B.A. Organist and Choirmaster: Mr. Frank Thomas.
- 8.20 (approx.) : Relay from the Lower Hutt Methodist Church of "Elijah" (Mendelssohn) by the Choir (augmented), with orchestra and organ. Soloists—Soprano, Mrs. Muriel Tunley; contralto, Mrs. Wilfred Andrews; tenor, Mr. Roy Hill; baritone, Mr. S. Evelyn Rodger; The Youth, Miss Dorothy Capes. Conductor: Mr. Ernest Dawson. Organist: Mr. C. R. Horman.
- God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, NOVEMBER 15.

- 8.0 : Gramophone recital.
- 5.30 : Children's song service by children of Church of Christ Sunday schools.
- 6.15 : Chimes.
- 6.30 : Selected recordings.
- 7.0 : Relay of evening service from the Church of Christ, Moorhouse Avenue. Preacher, Pastor Stuart Stevens; Pianist, Miss B. Readhead; Organist, Mrs. D. Boschetti; Choir Conductor, Mr. H. E. Ames. Concluding with Sacred Cantata "David the Shepherd Boy" (Root). Soloists—Soprano, Miss Lois McKinley; Contralto, Mrs. Weatherhead; Tenor, Mr. T. G. Rogers; Bass, Mr. J. Filer.
- 9.0 (approx.) : Relay of programme from 4YA, Dunedin.
- 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, NOVEMBER 15.

- 8.0 : Selected recordings.
- 5.30 : Children's hour, conducted by Big Brother Bill.
- 6.15 : Selected recordings.
- 6.30 : Relay of evening service from Hanover Street Baptist Church. Preacher, Rev. E. S. Tuckwell, B.A.; Choirmaster, Mr. H. P. Desmoulins.
- 7.45 : Selected recordings.
- 8.15 : Studio concert, vocal portion arranged by Ernest Drake.
- 8.19 : Part-song—The Chorus, (a) "The Lass of Richmond Hill" (Hook); (b) "Londonderry Air" (trdl.). Contralto—Miss Mary Pratt, "The Wanderer" (Schubert). 8.29 : Selection—Sextet under Mr. A. H. Pettitt, "Glory of Russia" (Krein). 8.39 : Duet—Messrs. Ernest Drake and W. Kershaw, "Scena" from "Faust."

- 8.46 : Violin—Mr. H. M. McCutcheon, L.R.A.M., (a) "L'Abeille" (Schubert); (b) "Poeme" (Fibich).
- 8.51 : Chorus—"Hail, Gift of Song" (from "Tannhauser"—Wagner).
- 8.56 : March—The Sextet, "Japanese Wedding March" (Translatour).
- 9.0 : Weather report and station notices.
- 9.2 : Organ—Terence Casey, Novelty Variations on (a) "Annie Laurie"; (b) "Keys of Heaven" (arr. Casey) (Col. 02842).
- 9.10 : Quartet—Misses L. de Clifford and Mary Pratt, Messrs. J. Davies and Wilfred Kershaw, "Fairest Daughter of the Graces" (Verdi). Tenor—Mr. Ernest Drake, "E Lucevan Le Stelle" (Puccini).
- 9.17 : Selection—The Sextet, "The Gondoliers" (Sullivan).
- 9.27 : Soprano—Miss Freda Elmes, "Ritorna Vincitor" (Verdi).
- 9.31 : Violin and piano—H. M. McCutcheon and Thos. J. Kirk-Burnmand, "Allegro from Sonata in F Major for Violin and Piano, Op. 24" (Beethoven).
- 9.39 : Part-song—The Chorus, "By Babylon's Wave" (Gounod). Baritone—Mr. C. S. Hawes, "Come into the Garden, Maude."
- 9.46 : Selection—The Sextet, "La Braconniers" (Offenbach).
- 9.54 : Duet—Miss D. Sligo and Mr. J. E. Davies, "Miserere Scene" (Verdi).
- 9.58 : Selection—The Sextet, "The Gascon" (Suppe).
- 10.5 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, NOVEMBER 15.

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

Monday, November 16

1YA, AUCKLAND (875 KILOCYCLES)—MONDAY, NOVEMBER 16.

- 8.0 : Chimes. Relay from His Majesty's Theatre of Lecture on Christian Science by Dr. Albert F. Gilmore, C.S.B., of Boston, Mass.
- 9.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, NOVEMBER 16.

- 10.0 : Chimes. Selected gramophone recordings.
- 11.12 : Lecturette—"Cooking."
- 11.37 : Lecturette—"Health Hints or First Aid."
- 12.0 : Lunch-hour music.
- 2.0 : Selected recordings.
- 3.30 and 4.30 : Sporting results.
- 5.0 : Children's hour, conducted by Uncle Jeff.
- 6.0 : Dinner music session (Columbia)—Regal Cinema Orchestra, "Show of Shows" Selection (05083). Band of H.M. Grenadier Guards, "La Benediction des Poignards." Rio Novelty Orchestra, "Mientras Lloro El Tango" (Barabine). Orchestre Symphonique de Paris, "L'Arlesienne Suite"—Adagietto. Eastbourne Municipal Orchestra, "Tarantelle" (Saint-Saens) (05033). London Theatre Orchestra, "A Country Girl" Selection (Monckton). H.M. Air Force Band, "The Nightingale and the Frogs" (Ellenberg). Organ—Stanley Macdonald, "The Rosary" (Nevin) (Reg. G20391). J. H. Squire's Celeste Octet, "Valse Blue" (Margis) (3643). Band of H.M. Grenadier Guards, "Lo! Here the Gentle Lark" (02931). Rio Novelty Orchestra, "Spavento" Tango (Pares) (DO159). Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte le Carillon" (Bizet) (01327). Organ—Stanley Macdonald, "La Rosita" (Dupont) (Reg. G20391). H. G. Ames and the Eastbourne Municipal Orchestra, "Second Sere-nata" (Toselli, arr. Geel) (05033). H.M. Air Force Band, "The Parade of the Tin Soldiers" (Reg. G21048). J. H. Squire's Celeste Octet, "Amoureuse Valse" (Berger) (3643).
- 7.0 : News, reports and sports results.
- 7.40 : Lecturette under auspices of New Zealand Institute of Opticians. "Hygiene and Glasses."
- 8.0 : Chimes. Overture—Zurich Tonhalle Orchestra, "Il Seraglio" (Col.). 8.8 : Soprano—Signora Aida Bulmas, "Michaela's Romance" ("Carmen"). 8.13 : Bass—Signor Lucien Cesaroni, "Yes, Her Doom is to Die" (Ponchielli). Duet—Miss Eileen Higgins and Signor Lucien Cesaroni, "You Have Summoned Me Hither" (Ponchielli).
- 8.23 : "Musical Portrait." Piano, Clarinet, and 'Cello, "Miniature Trio, No. 1" (Hill). Part 1—Allegro Moderato, Minuetto, Trio. Tenor—Mr. Edwin J. Hill, with orchestral accompaniment, (a) "Sweet Maori Maid" (Love song); (b) "Her Little Flaxen Skirt" (Poison song) (Hill). Piano, Clarinet, and 'Cello, "Miniature Trio" (Hill). Part 2—Allegro. 8.43 : Duet—Signora Aida Bulmas and Signor Lucien Cesaroni, "Speak, Child, They Left Us" (Verdi).

Week-all Stations-to Nov. 22

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- 8.48: Overture—2YA Orchestrina (Conductor, Signor A. P. Truda), "Tierra-brass" (Schubert).
 9.0: Weather report and station notices.
 9.2: Piano—Leopold Godowsky, (a) "Nocturne in F Minor"; (b) "Nocturne in B Major" (Chopin) (Col. 04240).
 9.10: Mezzo-soprano—Miss Eileen Higgins, (a) "O Love, From Thy Power" (from "Samson and Delilah"—Saint-Saens); (b) "The Little Damsel" (Novello).
 9.17: Tenor—Mr. Edwin J. Hill, with orchestral accompaniment, "Waiaia Poi" (Hill).
 String Quartet—"Finale" from String Quartet in B Flat (Hill).
 9.27: Soprano—Signora Aida Bulmas, (a) "They Call Me Mimi" (Puccini); (b) "Serenata" (Toselli).
 9.34: Intermezzo—Berlin State Opera House Orchestra, "Waltz Scene."
 9.42: Duet—Miss Eileen Higgins and Signor Lucien Cesaroni, "The Singing Lesson" (Squire).
 9.48: Bass—Signor Lucien Cesaroni, "From Provence" (Verdi); "The Curfew" (Gould).
 9.54: Instrumental—2YA, Orchestrina, "Hungarian Dance No. 5" (Brahms).
 10.0: Dance music programme (Panachord and Polydor)—
 Foxtrots—Milt Shaw and His Detroiters, "Walkin' My Baby Back Home" (Turk) (P12098); Sleepy Hall and His Collegians, "On a Little Balcony in Spain" (Klein) (P12009); Benny Goodman and His Orchestra, "When Your Lover Has Gone" (Swan) (P12111).
 10.9: Waltz—Paul Godwin's Dance Orchestra, "Strolling with You Through the Spring" (Rotter) (23946).

- Foxtrots—Paul Godwin's Dance Orchestra, "I Know That Once You'll Forget" (May) (23942); Will Osborne and His Orchestra, "Hello, Beautiful!" (Donaldson) (P12098).
 10.18: Vocal—Alfred O'Shea, "Love, Here is My Heart" (Ross) (Col. 01605).
 10.21: Foxtrots—Paul Godwin's Dance Orchestra, "Catch Me, My Darling, Catch Me" (Karlick) (23968); "When Are You Mine" (May) (23947); "Letters from Your Girl" (Amberg) (23968).
 10.30: Tango—Paul Godwin's Dance Orchestra, "My Heart is a Saloon."
 Foxtrots—Ilya Livschakoff's Dance Orchestra, "Oh, Dorothy, When You I See" (Stolz) (23931); The Travellers, "I've Got a Sweet Somebody to Love Me" (Handman) (P12148).
 10.39: Vocal—Ray Raymond, "And Then Your Lips Met Mine" (P12043).
 10.42: Foxtrots—Ilya Livschakoff's Dance Orchestra, "Three Little Things I Desire" (Stolz) (23931); The Travellers, "Dream a Little Dream of Me" (Kahn) (P12148); Milt Shaw and His Detroiters, "My Love for You" (Kahn) (P12006).
 10.51: Tango—Paul Godwin's Dance Orchestra, "Don't Be Sad" (23946).
 Foxtrots—Milt Shaw and His Detroiters, "It's An Old Spanish Custom" (Leslie) (P12009); White Cogs Orchestra, "Live and Love To-day" (Janis) (P11992).
 11.0: God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—MONDAY, NOVEMBER 16.

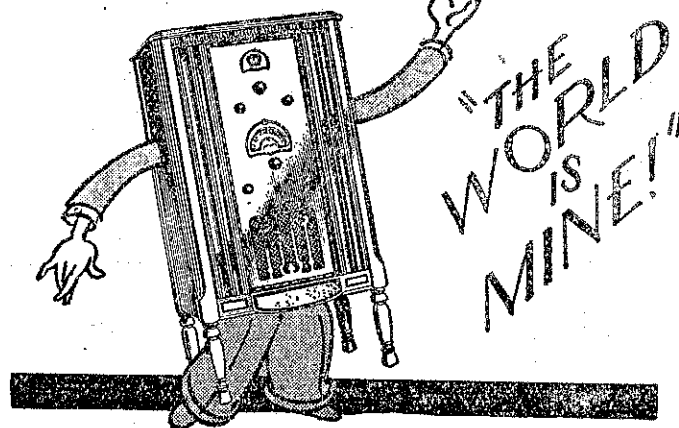
- 3.0: Gramophone recital.
 4.30: Sports results.
 5.0: Children's hour.
 6.0: Dinner music session (Polydor)—
 Symphony Orchestra, "Frederick" Medley (Lehar) (27070).
 Polydor String Orchestra, "In Indra's Land" (Lincke) (19677).
 State Opera Orchestra, Berlin, "La Dame Blanche" (Boieldieu).
 Symphony Orchestra, "Eva" Medley (Lehar) (27013).
 Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger) (19749).
 State Opera Orchestra, Berlin, "German Dances" (Schubert) (86458).
 Paul Godwin's Orchestra, "Potpourri of German Folksongs."
 7.0: News and reports.
 7.30: W.E.A. session—Talk, Dr. C. E. Beeby, "Straight and Crooked Thinking."
 8.0: Chimes. Relay from Scottish Hall, Timaru, of concert under the auspices of the "Youth Welfare League," presented by the Timaru Boys' High School.
 Band—A Scotch patrol, "Jamie Stewart's Birthday" (Bulch).
 Glee Party, (a) "Old Mother Hubbard" (Wheeler); (b) "O! Hush Thee My Baby" (Sullivan); (c) "Three Fishers" (Hullah).
 Selection—Band, "Pirates of Penzance" (Sullivan).
 Bass—Mr. Morgan, "A Friar of Orders Grey" (Fisher).
 Quartet, (a) "Carry Me Back to Old Virginny" (Bland); (b) "Ah! Could I With Fancy Stray" (Hutton).
 Humorous fantasy—Band, "Three Blind Mice" (Douglas).
 Baritone—Mr. Goulding, "Mountain Lovers" (Squire).
 Eccentric dance, "Scarecrow Dance" (Staveley).
 Band, "Cornet King" (Greenwood).
 Quartet Party, (a) "Lullaby" (Brahms); (b) "Volkslied" (Abt); (c) "A Catastrophe" (Sprague); (d) "O Peaceful Night" (German).
 Shanties and Parodies by Boys' Concert Party.
 Cornet solo—Mr. Milligan, "Edelweiss" (Hock).
 Fantasia—Band, "American Beauties" (Greenwood).
 Vocal duet—Messrs. Evans and Morgan, "Mate o' Mine" (Elliot).
 Gymnastic display, during which the band will play.
 Tenor—Mr. Evans, "Bonnie Mary of Argyle" (Nelson).
 March—Band, "Colonel Bogey" (Alford).
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, NOVEMBER 16.

- 3.0: Selected recordings.
 4.30: Sporting results.
 5.0: Children's hour, conducted by Uncle Jack.
 6.0: Dinner music session (Polydor)—
 Paul Godwin's Orchestra, "Egyptian March" (Strauss) (19647).
 Great Symphony Orchestra, "The Gypsy Princess" (Kalman) (27172).
 Paul Godwin's Quartet, "Un Peu D'Amour" (Silesu) (21703).
 Paul Godwin's Orchestra, "Lake of Como" (Galos) (27006).
 Paul Godwin's Quintet, "Vision" (Drdla) (19533); "Types Tziganes."
 State Opera Orchestra, Berlin, "Orpheus and Eurydice Ballet Music."
 Paul Godwin's Orchestra, "First Love" (Michiels) (27006).
 Paul Godwin's Quartet, "Serenata D'Amalfi" (Beccia) (21703); "Spring's Awakening" (Bach) (19647).
 Paul Godwin's Quintet, "Chant D'Amour" (Drdla) (19533); "Serenata" (Clement) (19628).
 7.0: News and reports.
 8.0: Specially Recorded International Programme.

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The Flying Song Squadron.
Forget-me-Not.
Weather report.
Talk—Mr. Owen E. Davis, "Russia's Conquest of Siberia."
Irresistible Imps.
Whispers.
God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY NOV. 16.

8.0 to 10.0 p.m.: Concert programme.

Tuesday, November 17

1YA, AUCKLAND (875 KILOCYCLES)—TUESDAY, NOVEMBER 17.

- 3.0 : Chimes. Selected recordings.
3.15: Talk by officer of the Department of Public Health.
4.30: Sports results.
5.0 : Children's hour, conducted by Uncle Dave.
6.0 : Dinner music session (Polydor)—
Paul Godwin's Orchestra, "The Circus Princess" (Kalman) (19640).
Bfm Schachmeister's Dance Orchestra, "At the Fireside" (21181);
"Gipsy's Farewell" (Trdtl.) (20455).
Paul Godwin's Orchestra, "Evening Chimes" (Marzian) (23168).
Ilya Livschakoff and His Orchestra, "Aubade" (Livschakoff) (23048).
Polydor Symphonic Orchestra, "Hear You Again" Medley (Weninger).
Paul Godwin's Orchestra, "Oh This Beautiful Springtime" (Lincke).
Bfm Schachmeister's Orchestra, "White Acacia" (Trdtl.) (20455).
Paul Godwin's Orchestra, "Short, But Delicious" (Schreiner) (19576).
Bfm Schachmeister's Dance Orchestra, "Casanova, I Love You" Tango.
Ilya Livschakoff and His Orchestra, "Little Serenata" (Grunfeld).
Paul Godwin's Orchestra, "Poppies" (Moret) (19661).
7.0 : News and market reports.
7.30: W.E.A. session—Rev. William Constable, M.A., "George Bernard Shaw."
8.0 : Chimes. Specially Recorded Intern. Programme.
Dr. Eugene Ormandy and His Salon Orchestra.
The Flying Song Squadron.
Forget-me-Not.
Weather report.
International talk—Professor C. R. Knight, "Modern Architecture."
The Irresistible Imps.
Whispers.
God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, NOVEMBER 17.

- 10.0 : Chimes. Selected gramophone recordings.
11.12: Lecturette—"Fabrics and Fashions."
12.0 : Lunch hour music.
2.0 : Selected recordings.
3.30 and 4.30: Sporting results.
5.0 : Children's hour, conducted by Uncle Jeff.
6.0 : Dinner music session (H.M.V.)—
San Francisco Symphony Orchestra, "Coppelia Ballet—Automaton's Dance" (Delibes) (D1272).
Victoria Orchestra, "La Serenata" Waltz (Metra) (Zono. EF32).
John Barbirolli's Chamber Orchestra, "A Little Night Music" Serenade (Mozart) (C1655/6).
International Concert Orchestra, "Danube Waves—Waltz" (Ivanovici).
Marek Weber and His Orchestra, "La Tosca" Potpourri.
New Mayfair Orchestra, "Five O'clock Girl" Selection (Kalmar).
San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler).
Victoria Orchestra, "Espanita" (Rosey) (Zono. EF32).
New Mayfair Orchestra, "Love Lies" Selection (C1658).
International Concert Orchestra, "Over the Waves" (Rosas).
7.0 : News, reports and sports results.
7.40: Lecturette by a representative of the Agricultural Department, "For the Man on the Land."
8.0 : Chimes. Fantasia—Dajos Bela Orchestra, "Pique Dame."
8.8 : Tenor—Mr. Noho Toki, (a) "Maire My Girl" (Aitken); (b) "L'Amour Toujours L'Amour" (Friml).
8.14: Selection—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Madame Butterfly" (Puccini).
8.22: Male choir—Lay Vicars of Westminster Abbey, (a) "Stars of the Summer Night" (Cruckshank); (b) "The Little Sandman" (West).
8.28: Guitars—Mrs. Mildred Kenny's Guitar Orchestra, (a) "One Little Raindrop" (Richman, Meskill and Schwartz); (b) "Hawaiian Sunset" (Vandersloot).
8.34: Soprano—Mrs. E. F. Hollands, with orchestral accompaniment, (a) "When the Dream is There" (D'Hardelot); (b) "The World is Waiting for the Sunrise" (Seitz).
8.40: Songs at the piano—Mr. Billy Hart, (a) "Thermogene" (Lee); (b) "I'm Thru' With Love" (Malneck); (c) Latest Popular Hit.
8.50: Suite—Salon Orchestra, "Suite" (Barthelemy).
9.0 : Weather report and station notices.
9.2 : Cornet—Del Staigers, "Carnival de Venise" (Arban) (H.M.V. B3425).
9.5 : Tenor—Mr. Noho Toki, (a) "Danny Boy" (Weatherly); (b) "When You Are There" (Tate).

- 9.11: Descriptive—Salon Orchestra, "Pas des Amphores" (Chaminade); "Liebestraume" (Liszt).
9.19: Vocal medley—Columbia Light Opera Company, "The Merry Widow."
9.27: Guitars—Mrs. Mildred Kenny's Guitar Orchestra, (a) "When You Wore a Gingham Gown" (Gilbert); (b) "Mele Hula" (Clarke).
9.33: Soprano—Mrs. E. F. Hollands, with violin obbligato, "Had You But Known" (Denza); with orchestral accompaniment, "Rose of My Heart" (Loehr).
9.39: Organ—Reginald Goss Custard, (a) "The Question"; (b) "The Answer" (Wolstenholme) (H.M.V. B415).
9.45: Fantasia—Salon Orchestra, "The Merry Wives of Windsor" (arr. Daebnitz); Latest Dance Novelties.
10.1 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, NOVEMBER 17.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, NOVEMBER 17.

- 3.0 : Selected recordings.
4.30: Sporting results.
5.0 : Children's hour, conducted by Uncle Jack.
6.0 : Dinner music session (H.M.V.)—
National Symphony Orchestra, "Irish Rhapsody" (Herbert).
National Military Band, "Ballet Egyptien" (Luigini) (Zono. A374).
Trio—Fritz and Hugo Kreisler, Michael Rauchausen, "Sanctissima."
New Light Symphony Orchestra, "Scene de Ballet Marionettes."
Organ—Reginald Foort, "The Riff Song" (Romberg) (B2463).
H.M. Coldstream Guards Band, "The Geisha" Selection (Jones).
La Scala Orchestra, "The Secret of Susanna" Overture.
International Novelty Quartet, "The Veleta" (Morris) (Zono. 5587).
New Light Symphony Orchestra, "Persiflage" (Francis) (B2754).
Trio—Fritz and Hugo Kreisler, Michael Rauchausen, "Arlesienne Intermezzo" (Bizet, arr. Kreisler) (DB1166).
National Symphony Orchestra, "Norma" Overture (Bellini).
Organ—Reginald Foort, "The Desert Song" (Romberg) (B2463).
H.M. Coldstream Guards Band, "The Belle of New York" Selection.
International Novelty Quartet, "Merry Widow Waltz" (Lehar).
7.0 : News and reports.
7.40: Lecture—Discussion between W.E.A. Students, "League of Nations and the Manchurian Affair," under auspices of W.E.A.
8.0 : Chimes. Programme by the Green Island Municipal Band (Conductor, Mr. F. Clarkson).
March—The Band, "Sandhurst" (Bulch); Waltz, "Bewitching Beauty."
8.13: Soprano—Miss Evelyn Shephard, (a) "A Birthday" (Woodman); (b) "Song of India" (Rimsky-Korsakov).
8.19: Monologue—Phil Baker, "At the Theatre" (H.M.V. B2670).
8.25: Selection—Band, "Silverdale" (Allan).
8.34: Baritone—Mr. E. Ottrey, "Song of the Bow" (Aylward).
8.38: Piano—Ignace Hilsberg, (a) "Aufschwung" (Soaring) (Schumann); (b) "Cracovienne Fantastique" (Paderewski) (Bruns. 4931).
8.44: Contralto—Mrs. B. C. Roberts, (a) "Happy Song" (Del Riego); (b) "Sapphic Ode" (Brahms).
8.50: Selection—Band, "Pirates of Penzance" (Sullivan).
9.0 : Weather report and station notices.
9.2 : Organ—G. T. Pattman, "Four Indian Love Lyrics" (Woodforde-Finden).
9.10: Soprano—Miss Evelyn Shephard, "They Know Not Your Heart."
9.14: Euphonium and trombone duet—The Band, "Excelsior" (Balfe).
9.21: Choral—Manchester Children's Choir, (a) "Dance Duet" (from "Hansel and Gretel") (Humperdink); (b) "Nymphs and Shepherds."
9.29: Baritone—Mr. E. Ottrey, (a) "In Summertime on Brendon" (Peel); (b) "The Little Girl from Hanley Way" (Clarke).
9.36: Selections—Band, (a) "Tancredi" (Rossini); (b) "Queen Anne."
9.48: Contralto—Mrs. B. C. Roberts, "The Arrow and the Song" (Balfe).
9.55: March—Band, "Dubonian" (Weaver).
10.0 : God save the King.

Wednesday, November 18

1YA, AUCKLAND (875 KILOCYCLES)—WEDNESDAY, NOVEMBER 18.

- 3.0 : Chimes. Selected recordings.
3.15: Literary selection.
4.30: Sports results.
5.0 : Children's hour, conducted by Uncle Reg.
6.0 : Dinner music session (H.M.V.)—
Coldstream Guards Band, "Pique Dame" Overture (Suppe) (C1594).
Marek Weber and His Orchestra, "Faust" Selection (Gounod) (C1511).
Organ—Edward O'Henry, "Ca C'est Madrid" (O'Henry) (B3094).
Zonophone Salon Orchestra, "Love's Garden of Roses" (Haydn Wood).
Virtuoso String Quartet, "Londonderry Air" (arr. Bridge) (C1470).
Paul Whiteman and His Concert Orchestra, "Suite of Serenades" (Herbert)—(1) Spanish; (2) Chinese; (3) Cuban; (4) Oriental.
Coldstream Guards Band, "Morning, Noon and Night in Vienna."
Ferdy Kaufman and His Orchestra, "The Gypsy Baron" Selection.
Symphony Orchestra, (a) "Waltz of the Hours"; (b) "Variations" (from "Coppelia") (Delibes) (C1939).
Organ—Edward O'Henry, "Chant Sans Paroles" (Tchaikowsky).
Zonophone Salon Orchestra, "Mighty Lak a Rose" (Nevin).
Virtuoso String Quartet, "The Emperor Quartet" (Theme and Variations) (Haydn) (C1470).

7.0 : News and reports.

7.40: Talk—"Sparwood" of the "N.Z. Referee," "Dogs."

8.0 : Chimes. Concert by the Jubilee Institute for the Blind.

March—"The Band, "Singer" (Bailey); waltz, "Blue Danube" (Strauss)

8.9 : Soprano—Miss May Bray, "Dove Song" (Mozart).

8.12: 'Cello—Cedric Sharpe, "Consolation" (Liszt, arr. Sharpe).

8.15: Foxtrots—Jazz Band, (a) "Moonlight Saving Time" (Richman); (b) "Betty Co-ed" (Vallee).

8.21: Male choir—"Famous Forty" Elks Chorus, (a) "Song of the Anvil" (Goibel); (b) "Soldiers' Chorus" (Gounod) (Bruno, 3972).

8.27: Piano—Mr. Stuart Gordon, (a) "Coronach" (Barrett); (b) "Russian Dance" (from "Nutteracker Suite") (Tschalkowsky).

8.34: Selection—Girls' Orchestra, "Minuet" (Mozart).

8.38: Organ—Edwin H. Lemare, "Andantino" ("Song of the Soul") (Lemare)

8.42: Vocal trio—Miss C. Whiteford and Messrs. A. Morton and S. Gordon, (a) "Echo Song" (Gest); (b) "Over the Summer Sea" (Verdi).

8.48: Selection—Band, "Soldier's Life" (Sheriff).

9.0 : Evening weather forecast and announcements.

9.2 : Sea stories—"Lee Fore Brace," "Broached To" (Eadie).

9.22: Piano—Miss Lillian Martin, "Handkerchief Dance" (Grainger).

9.26: Soprano—Miss May Bray, "Blackbird's Song" (Scott).

9.29: Vocal medley—Light Opera Company, "Miss Hook of Holland."

9.37: Foxtrots—Jazz Band, (a) "Trying to Forget" (Lorry); (b) "Anchors

Aweigh" (Zimmerman).

9.43: Baritone—Mr. Stuart Gordon, "Haere Tonu" (Horne).

9.46: Guitar—Roy Smeck—Art Kahn, "Itchin' Fingers" (Robison).

9.49: Violin and viola duet—Misses Connie Whiteford and Eunice Hawkins, "Berceuse" (Jarnefeldt).

9.53: Comedy duet—Elsie and Doris Waters, "In the Parlour when the Company's Gone" (Western) (Parlo, A3113).

9.56: March—Band, "Follow the Flag" (Beyer).

10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, NOVEMBER 13

10.0 : Chimes. Selected gramophone recordings.

11.37: Lecturette—"Hollywood Affairs."

12.0 : Lunch hour music.

2.0 : Selected recordings.

3.15: Lecturette—Miss Ruth Hay, "Figure Moulding and Weight Reduction."

3.30 and 4.30: Sporting results.

5.0 : Children's hour, conducted by Aunt Daisy.

6.0 : Dinner music session (Polydor)—

Philharmonic Orchestra, Berlin, "Tannhauser" Grand March (Wagner) (27185); "Torch Dance in B Flat Major" (Meyerbeer) (27033)

Paul Godwin's Orchestra, "Liliputian's Wedding" (Translatour).

Symphony Orchestra, "Frasquita" Medley (Lehar) (27025).

Paul Godwin's Dance Orchestra, "Little Butterflies" (Steinke) (19660)

Efim Schachmeister's Dance Orchestra, "Second Waltz Medley."

Paul Godwin's Orchestra, "The Bird Seller" (Zeller) (19288).

Vienna Schrammel Quartet, "Some Day" (from "Marietta") (Strauss).

Great Symphony Orchestra, "Fortissimo" (Kalman) (27167).

Paul Godwin's Jazz Symphonians, "Butterfly, Sweet Little Lady."

7.0 : News, reports and sports results.

7.40: Lecturette—Mr. A. E. Wilson, "Tourist and Health Resorts."

8.0 : Chimes. Dr. Eugene Ormandy and His Salon Orchestra.

The Mirth Quakers.

Weather report and announcements.

International talk—Dr. Guy H. Scholefield, O.B.E.

Stardust.

Vitaphone Dance Orchestra.

God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, NOV. 18.

3.0 : Gramophone recital.

4.30: Sports results.

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

6.0 : Dinner music session (H.M.V.)—

New Mayfair Orchestra, "Lilac Time" (Schubert, arr. Clutsam).

New Symphony Orchestra, "Nell Gwynn Dance No. 3" (German).

New Symphony Orchestra, "Scenes de Ballet, Op. 52" (Glazounoff)—

(1) Preamble; (No. 4) Scherzino; (2) Marionettes; (No. 6)

Danse Orientale; (3) Mazurka; (5) Pas de Action; (7) Valse;

(8) Polonaise (C1752-3-4).

Zonophone Salon Orchestra, "Eleanor" (Deppen) (Zono. 5574).

De Groot and Piccadilly Orchestra, "Waldteufel Memories" (B3084).

Royal Opera Orchestra, "Carmen" Ballet No. 2 (Bizet) (C1424).

New Light Symphony Orchestra, "Minuet" (Boccherini) (B3036).

Zonophone Salon Orchestra, "Evensong" (Easthope Martin) (Zono).

Royal Opera Orchestra, "Carmen—Entr-acte and Ballet No. 1" (C1424)

7.0 : News and reports.

7.30: Addington stock market report.

8.0 : Chimes. Orchestral—Studio Octet (Conductor, Mr. Harold Beck), "Carnival Overture" (Dvorak).

8.10: Play—"The Lady of Lyons," by Lord Lytton. Under direction of Miss Naare Hooper and Mr. H. L. Shaw.

Cast of Characters:

Beauseant, a rich gentleman of Lyons in love with and refused by Pauline Deschappelles—Mr. Harold Shaw.

Colonel (afterwards General) Dumas, cousin to Madame Deschappelles, and an officer in the French Army—Mr. J. Darragh.

Glaivis, his friend, also a rejected suitor to Pauline—Mr. J. Darragh.

Monsieur Deschappelles, a Lyonesse merchant, father to Pauline—

Mr. Ted Palmer.

Gaspar, 1st, 2nd, and 3rd Officer, landlord of the Golden Lion—Mr.

Ted Palmer.

Claude Melnotte—Mr. H. L. Shaw.

Madame Deschappelles, Miss Lillian Hanham.

The Widow Melnotte, mother to Claude—Miss Daisy Armstrong.

Janet, the innkeeper's daughter.

Marion, maid to Pauline.

Pauline Deschappelles, a noted beauty of Lyons—Miss Naare Hooper.

Scene—Lyons, France, and the neighbourhood. Time Period—1795-1798. Act 1—A room in the house of M. Deschappelles. Act 2—The garden of M. Deschappelles.

8.22: Orchestral—Studio Octet, "Gavotte, Bouree, and Gigue" (Bach).

8.28: Act 3—Melnotte's cottage.

8.38: Orchestral—State Opera Orchestra, Berlin, "The Rose" (from "The Garden of Love" (Pfitzner) (Poly. 66557).

8.46: Act 4—Melnotte's cottage.

8.58: Orchestral—Studio Octet, "Intermezzo" (Mascagni).

9.2 : Weather forecast and station notices.

Play—"The Lady of Lyons" (continued)—Act 5 (two years and a-half after), the streets of Lyons.

9.14: Piano and orchestra—Miss Bessie Pollard with Studio Octet, "Variations Symphoniques" (Franck).

9.30: Dance music session (Brunswick)—

Foxtrots—Colonial Club Orchestra, "Sing-Song Girl" (McCarthy)

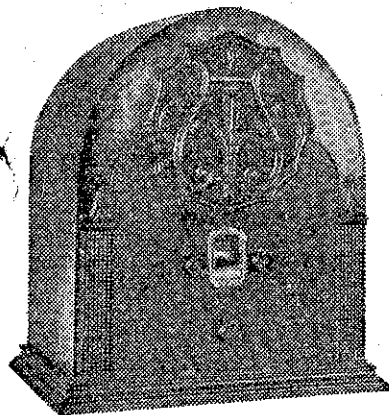
(X4974); Earl Burnett's Orchestra, "Imagine" (Burnett)

(41304); Jacques Renard and His Orchestra, "Heartaches" (Klenner)

(X6033); Tom Gerun and His Orchestra, "Nine Little Miles

from Ten-Ten-Tennessee" (Sherwin) (4999); "I'm Happy When

You're Happy" (Davis) (6057).



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- 9.45: Vocal—Dick Robertson, "One Little Raindrop" (Richman) (Pana.).
 9.48: Foxtrots—Abe Lyman and His California Orchestra, "Golden Sands" (Greer) (4912); Lloyd Huntley and His Orchestra, "Wond'ring" (Sherman) (X4974); Hal Kemp and His Orchestra, "Think a Little Kindly of Me" (Johnson) (6056).
 Waltz—Bob Haring and His Orchestra, "One Love" (Koehler) (6031).
 10.0: Foxtrots—Abe Lyman and His California Orchestra, "Old-Fashioned Girl" (De Sylva) (4924); Nick Lucas and His Crooning Troubadours, "Walkin' My Baby Back Home" (Turk) (X6059); Ben Bernie and His Orchestra, "Love Comes in the Moonlight" (Dubin).
 10.3: Vocal—The Two Gilberts, "We're All Happy" (Leslie) (Reg. G20809).
 10.12: Foxtrots—Ben Bernie and His Orchestra, "You're Just a Lover" (Egan) (6057); Jesse Stafford and His Orchestra, "Building a Home for You" (Kahn) (41334); Earl Burnett and His Biltmore Hotel Orchestra, "To Make a Long Story Short" (Gay) (6034); Ben Bernie and His Orchestra, "Au Revoir, Pleasant Dreams" (Meskill) (41304); Brunswick Hour Orchestra, "By the River Sainte Marie" (Leslie) (6066); Bob Haring and His Orchestra, "Two Hearts in Waltz Time" (Stolz) (6031).
 10.30: Foxtrots—Abe Lyman and His California Orchestra, "Never Swat a Fly" (De Sylva) (4924); Emil Coleman and His Orchestra, "Elizabeth" (Caesar) (6082); Ben Bernie and His Orchestra, "Highway to Heaven" (Dubin) (4850).
 10.39: Vocal—Dick Robertson, "Got the Bench—Got the Park" (Pana. P12123).
 10.42: Foxtrots—Hal Kemp and His Orchestra, "I Want You for Myself" (Berlin) (6056); Earl Burnett and His Biltmore Hotel Orchestra, "I Found What I Wanted in You" (Endor) (X6059).
 Waltzes—Castlewood Marimba Band, "Blue Pacific Moonlight" (Herbert) (X6033); Brunswick Hour Orchestra, "Under a Roof in Pares" (6066).
 10.54: Foxtrots—Tom Gerun and His Orchestra, "What Good am I Without You?" (Ager) (4999); Earl Burnett and His Biltmore Hotel Orchestra, "I Surrender, Dear" (Clifford) (6034).
 11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, NOVEMBER 18.

- 3.0: Selected recordings.
 3.15: Talk—"Eat What You Can, and Can What You Eat" (Part 2). By the Home Science Extension Department of Otago University.
 4.30: Sports results.
 5.0: Children's hour, conducted by Big Brother Bill.
 6.0: Dinner music session (Parlophone)—
 Berlin State Opera Orchestra, "The Barber of Seville" Overture.
 Edith Lorand's Orchestra, "Minuet" (Boccherini) (A4108).
 Orchestra Mascotte with Edith Lorand, "I'd Like to Kiss the Ladies." Grand Symphony Orchestra, "Naila" Ballet Intermezzo (Delibes).
 Edith Lorand's Orchestra, "Toreador and Andalous" (Rubenstein).
 Pavillon Lescaut Orchestra, "Drink, Brother Drink" Waltz (Bendix).
 Grand Symphony Orchestra, "Lustspiel" Overture (Kela Bela).
 Ernest Leggett London Octet, "Operatic Fantasia" (arr. Adlington).
 Opera Comique Orchestra, "Scenes Pittoresque" March and Fete Boheme" (Massenet) (A4057).
 Grand Symphony Orchestra, "Suite Orientale": (1) The Bajaderes; (2) On the Shores of the Ganges; (3) The Patrol; (4) The Dancers (A4155/6).
 Pavillon Lescaut Orchestra, "Oh! Miss Greta" (Flossas) (A3150).
 Orchestra Mascotte with Edith Lorand, "Siren Magic" (Waldteufel).
 7.0: News and reports.
 7.15: Dialogue—Messrs. E. Beatson and R. Fountain, "Improvement in Farm Dairy Produce."
 8.0: Chimes. Programme by Signor Giovanni Stella, and assisting artistes. Selection—Marek Weber's Orchestra, "Pagliacci" (Leoncavallo, arr. Godfrey) (H.M.V. C1735).
 8.9: Soprano—Miss Clare Dillon with flute obbligato, (a) "Charming Bird" (from "The Perle dur Brasil") (David); (b) "The Cuckoo."
 8.16: Selection—Signora Martinelli Reggiardo's Sextet, "Intermezzo."
 8.22: Tenor—Signor Giovanni Stella, with orchestral accompaniment, "La Musica Proibita" (Castaldon).
 8.27: Violin—Miss Anna Briasco, "Air on G String" (Bach).
 8.32: Contralto—Mrs. Edward Stone, with orchestral accompaniment, (a) "Intermezzo" (from "Cavalleria Rusticana"); (b) with cello obbligato, "The Star and the Flower" (D'Hardelot).
 8.38: Selection—The Sextet, "On Love-Lit Seas" (Wood).
 8.44: Baritone—Mr. Thomas Kennedy, with cello obbligato, "Had You But Known" (Denza); with orchestral accompaniment, "Serenata."
 8.40: Selection—The Sextet, "Meditation" (Engleman).
 8.55: Mezzo-soprano—Miss Vanda Duncan, (a) "Caller Herrin" (Gow); (b) "Waiata Maori" (Hill).
 9.0: Weather report and station notices.
 9.2: Orchestral—Royal Opera Orchestra, "Ballet Russe"—(No. 4) "Mazurka"; (No. 5) "Marche Russe" (Luigini) (H.M.V. C1940).
 9.10: Tenor—Signor Giovanni Stella, (a) "Granada" (Alvarez); (b) "A Vucchella" (Tosti).
 9.16: Waltz—The Sextet, "Cupid Awakening" (Snitenis).
 9.22: Soprano—Miss Elinor Simons, with flute obbligato, (a) "The Wren"; (b) with flute obbligato, "A Heart That's Free" (Liza Lehmann).
 Tenor and chorus—Signor Giovanni Stella, with orchestral accompaniment, "A Franchesa" (Costa).
 9.32: Dance session (Panachord)—
 Foxtrots—Benny Goodman and His Orchestra, "We Can Live on Love" (Golden) (P12120); "And Then Your Lips Met Mine" (Nelson) (P12023); "If You Haven't Got a Girl" (Davis) (P12079).

- 9.41: Waltzes—Mark Fisher's Orchestra, "Beautiful Love" (Gillespie) (P12146). Jack Richard and His Miami Orchestra, "Gazing at the Stars" (Crawford) (P12101).
 9.47: Foxtrots—Sleepy Hall and His Collegians, "The Song of the Fool" (Lewis) (P12023). Ed Lloyd and His Orchestra, "Whistling in the Dark" (Moretz) (P12146).
 9.53: Vocal—Norman Allin, "Off to Philadelphia" (Temple) (Col. 01590).
 9.56: Foxtrots—Spec Mason's Orchestra, "Thank Your Father" (de Sylva) (P11988). Mark Fisher's Orchestra, "Three Little Words" (Kalm) (P12002). The Captivators, "We're Friends Again" (Turk).
 10.5: Tangos—Ilja Ljvshakoff and His Dance Orchestra, "In a Little Summer House" (Egen) (Poly. 23906). Paul Godwin's Dance Orchestra, "Fair Haired Clare" (Llossas) (23945).
 10.11: Foxtrots—Will Osborne and His Orchestra, "That Little Boy of Mine" (King) (P12118); "By My Side" (Link) (P12101). Spec Mason's Orchestra, "Without Love" (de Sylva) (P11988).
 10.20: Vocal—Queenie and David Kaili, "When Your Hair Has Turned to Silver" (Tobias) (Parlo. A3210).
 10.23: Waltz—Mark Fisher and His Orchestra, "For You" (Dubin) (P12120). Foxtrots—Benny Goodman and His Orchestra, "Mine Yesterday, His To-day" (Lewis) (P12100). Will Osborne and His Orchestra, "Say a Little Prayer For Me" (Nichols) (P12118). Will Osborne and His Orchestra, "Heartaches" (Kienner) (P12077).
 10.35: Tangos—Paul Godwin's Dance Orchestra, "It's You My Lady I Adore" (Grothe) (Poly. 23945). Ilja Ljvshakoff's Dance Orchestra, "Why Are Your Eyes Bedewed With Tears" (Rosen) (23906). Foxtrots—Will Osborne and His Orchestra, "A Tear Was Born" (Deniker) (P12087). Sleepy Hall and His Collegians, "I Hate Myself" (Silver) (P12077).
 10.47: Vocal—Norman Allin, "A West Country Courting" (O'Reilly).
 10.50: Waltz—Benny Goodman and His Orchestra, "Falling in Love Again." Foxtrots—Spec Mason's Orchestra, "As Long as We're Together" (Barton) (P11991). Will Osborne and His Orchestra, "Lady Play Your Mandolin" (Caesar) (P12087). Spec Mason's Orchestra, "So Beats My Heart For You" (Henderson) (P11991).
 11.2: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, NOV. 18.

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

Thursday, November 19

1YA, AUCKLAND (875 KILOCYCLES)—THURSDAY, NOVEMBER 19.

- 12.15: Selected recordings.
 12.30: Relay of midday service from St. Matthew's Church.
 3.0: Chimes. Selected recordings.
 3.15: Home science—"Making the Most of the Sunshine." Talk prepared by the Home Science Extension Service of Otago University.
 4.30: Sports results.
 5.0: Children's hour, conducted by Skipper.
 6.0: Dinner music session (Columbia)—
 Bournemouth Municipal Orchestra, "Crown Diamonds" Overture.
 J. H. Squire's Celeste Octet, "Air on G String" (Bach, arr. Sear).
 New Concert Orchestra, "Nights of Fragrance" (Ziehrer) (02979).
 B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore" Selection.
 J. H. Squire's Celeste Octet, "On Wings of Song" (Mendelssohn).
 Bournemouth Municipal Orchestra, "The Bronze Horse" Overture.
 J. H. Squire's Celeste Octet, "Putting the Clock Back" (arr. Squire) (DOX71); "Funeral March of a Marionette" (Gounod, arr. Sear).
 New Concert Orchestra, "Vienna Maiden" (Ziehrer) (02979).
 Classic Symphony Orchestra, "Classic Memories" (arr. Ewing).
 J. H. Squire's Celeste Octet, "Ave Maria" (Bach, Gounod) (02569).
 7.0: News and reports.
 7.40: Talk (under the auspices of the N.Z. Manufacturers' Association)—
 "The Coming Holidays and Travelling Requisites."
 8.0: Chimes. March—Salon Orchestra, under direction of Mr. Harold Baxter, "The Cannon" (Wacek); ballet, "Ascanio" (Saint-Saens).
 8.12: Instrumental and vocal—Misses Phyllis and Edna Eye, mezzo-soprano, "Caro Mio Ben" (Giordani); pianoforte solo, "Poissons d'Or" (Debussy); mezzo-soprano, "Shepherd's Song" (Elgar).
 8.19: Selection—Salon Orchestra, "Mazurka" (Dvorak); entracte, "The Brocade Frock" (Phyllis); dance, "Der Damon" (Rubinstein).
 8.32: Tenor—Mr. Denis Sheard, with orchestral accompaniment, (a) "Duna" (McGill); (b) "Soft and Pure" (Flotow).
 8.38: Talk—Mr. A. B. Chappell, "Topical Talk."
 8.53: Waltz—Salon Orchestra, "Violettes" (Waldteufel).
 9.1: Evening weather forecast and announcements.
 9.3: Tenor—Mr. Denis Sheard, with orchestral accompaniment, (a) "When My Ships Come Sailing Home" (Dorel); (b) "When I Go Home."
 9.9: Morceaux—Salon Orchestra, (a) "Berceuse"; (b) "Canzonetta."
 9.15: Instrumental and vocal—Misses Phyllis and Edna Tye, pianoforte solo, "Prelude G Minor" (Rachmaninoff); mezzo-soprano, (a) "The Walnut Tree," (b) "The Lotus Flowers" (Schumann).
 9.22: Selection—Salon Orchestra, "Theodore" (Novello).
 9.30: Programme of dance music (Brunswick)—
 Foxtrots—Paul Godwin's Dance Orchestra, "I Play My Concertina" (Reisfeld) (Poly. 23941); Sleepy Hall and His Collegians, "Bubbling Over With Love" (Pana. P12155).

- Waltz—Ilja Livschakoff's Dance Orchestra, "Next Dance Ladies' Choice, Please" (Rosen) (Poly. 23974).
- 9.39: Foxtrots—Abe Lyman and His Californian Orchestra, "To Whisper Dear, I Love You" (Harris) (6095); Brunswick Concert Orchestra, "Amapola" (Lacalle) (41346); Abe Lyman and His Californian Orchestra, "Oh, How I Miss You" (Hirsch) (6095).
- 9.48: Vocal—James Melton, "Now You're In My Arms" (Wrubel).
- 9.51: Foxtrots—Nick Lucas and His Crooning Troubadours, "Let's Get Friendly" (Yellen) (6098); Ben Bernie and His Orchestra, "That Little Boy of Mine" (Meroff) (6097).
- Waltzes—Regent Club Orchestra, "After the Dance" (Caesar) (6099).
- Ilja Livschakoff's Dance Orchestra, "Alone for the First Time."
- 10.3: Foxtrots—Ilja Livschakoff's Dance Orchestra, "Marlene" (Michaeloff) (24175); Hal Kemp and His Orchestra, "I've Got a Sweet Somebody to Love Me" (Ryan) (6071).
- 10.9: Vocal—Chester Gaylord, "It Must Be True" (Arnheim) (6030).
- 10.12: Foxtrots—Ben Bernie and His Orchestra, "Whistling in the Dark" (Boretz) (6097); Hal Kemp and His Orchestra, "Moonlight Saving Time" (Richman) (6108); Nick Lucas and His Crooning Troubadours, "Boy! Oh, Boy! Oh, Boy! I've Got It Bad" (Leslie) (6096).
- 10.21: Tangos—Ilja Livschakoff's Dance Orchestra, "In a Hundred Years" (Dostal) (Poly. 24154); "In Honolulu" (Rosen) (23974).
- 10.27: Foxtrots—Jacques Renard and His Orchestra, "Since an Angel Like Mary" (Leslie) (6113); Loring Nichols and His Orchestra, "Love is Like That" (Russell) (6098).
- 10.33: Vocal—James Melton, "Beautiful Love" (Young) (Reg. G21092).
- 10.36: Foxtrots—Jacques Renard and His Orchestra, "Come to Me" (De Sylva) (6106); Colonial Club Orchestra, "I Bring a Love Song" (Romberg) (41324); Jacques Renard and His Orchestra, "If You Haven't Got Love" (De Sylva) (6106).
- 10.45: Waltzes—Regent Club Orchestra, "You Will Remember Vienna" (Romberg) (41324); Castlewood Marimba Band, "Rock Me in a Cradle of Kalua" (Bryan) (6099).
- 10.51: Foxtrots—Hal Kemp and His Orchestra, "I'm Mad About You" (Silver) (6071); Abe Lyman and His Californian Orchestra, "It Looks Like Love" (Freed) (6113); Isham Jones's Orchestra, "Good-night, Sweet Dreams" (Piantadosi) (6096).
- 11.0: God save the King.

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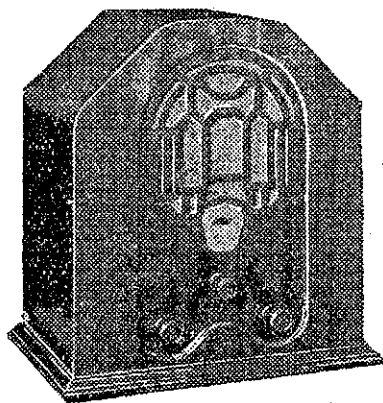
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£29

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, NOVEMBER 19.

- 10.0: Chimes. Selected gramophone recordings.
- 10.45: Lecturette—"Cooking."
- 11.37: Lecturette, under the auspices of the Health Department, "Holiday Health Hints."
- 12.0: Lunch hour music.
- 2.0: Selected recordings.
- 3.15: Lecturette—Miss I. F. Meadows, "Making the Most of the Sunshine." Talk prepared by the Home Science Extension Department of the Otago University.
- 3.30 and 4.30: Sporting results.
- 5.0: Children's hour, conducted by Uncle George and Big Brother Jack.
- 6.0: Dinner music session (Parlophone)—Grand Symphony Orchestra, "Zampa" Overture (Herold) (A4020). Dajos Bela Orchestra, "Dynamiden" Waltz (Strauss) (A4118); "O Sole Mio" (arr. Lindemann) (A4014); "Kaiser Waltz" (Strauss). Grand Symphony Orchestra, "The Tea House of a Hundred Steps." Dajos Bela Orchestra, "Be Embraced, Ye Millions" (Strauss) (A4118). Berlin State Opera Orchestra, "Aida" Selection (Verdi) (A4192). Berlin State Opera Orchestra, with Karol Szreter, pianist, "Hungarian Rhapsody No. 2" (Liszt) (A4109). Dajos Bela Orchestra, "Narcissus" (Nevin) (A4032).
- 7.0: News, reports and sports results.
- 8.0: Chimes. Overture—Berlin State Orchestra, "Der Fledermaus."
- 8.8: Quartets—The Aeolian, (a) "The Yeoman's Wedding Song" (Poniatowski); (b) "Where My Caravan Has Rested" (Lohr).
- 8.14: Selection—2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), "Vienna Echoes" (arr. Tobani).
- 8.22: Contralto—Miss Evelyn M. Robinson, "Home Isn't Home Without You" (Lohr); with orchestral accompaniment, "Silent Moon."
- 8.28: Instrumental—Savoy Banjo Trio, (a) "American Patrol"; (b) "Nigger Minstrels" (Grimshaw).
- 8.36: Duet—Messrs. B. Mayall and D. Hall, "Watchman, What of the Night?" Tenor—Mr. Arthur Coe, "Like Stars Above" (Squire).
- 8.42: Instrumental—2YA Salon Orchestra, (a) "Liebesfreud" (Kreisler); (b) "Valse Bluette" (Drigo).
- 8.52: Baritone—Mr. T. Watson, "Ho, Jolly Jenkin" (Sullivan).
- 8.56: Violin—Albert Sammons, "Bourree" (Sammons) (Col. 02854).
- 9.0: Weather report and station notices.
- 9.2: Contralto—Miss Evelyn M. Robinson, (a) "O Lovely Night" (Ronald); (b) "There's a Big Lot of Sunshine Coming Soon" (Hay).
- 9.8: Suite—2YA Salon Orchestra, "Land of Fancy" (Tapp).
- 9.16: Quartets—The Aeolian, (a) "Come Soft and Lovely Evening" (Shaw); (b) "Tom, the Piper's Son" (Kendall).
- 9.22: Instrumental—Savoy Banjo Trio, (a) "Here's How" (Grimshaw); (b) "Medley Foxtrots" (arr. Reeves).
- 9.30: Vocal medley—Light Opera Company, "Lily of Killarney" (Benedict).
- 9.36: Saxophone—Mr. S. Barrett, with Orchestra, "The Lost Chord." Instrumental—Salon Orchestra, "Song D'Extase" (Chuckerbutty).
- 9.46: Duet—Messrs. Arthur Coe and T. Watson, "Onaway, Awake Beloved." Bass—Mr. D. Hall, with orchestral accompaniment, "The Skipper."
- 9.52: Violin—Mr. W. Haydock, with orchestral accompaniment, "Pierrot Serenade" (Randegger).
- 10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, NOVEMBER 19

- 3.0: Gramophone recital.
- 3.15: Home science—"Making the Most of the Sunshine." Talk prepared by the Home Science Extension Service of Otago University.
- 4.30: Sports results.
- 5.0: Children's hour, conducted by Ladybird and Uncle Frank.
- 6.0: Dinner music session (Polydor)—State Opera Orchestra, Berlin-Charlottenberg, "La Gazza Ladra." Paul Godwin's Orchestra, "Love in Idleness" (Macbeth) (V40261); "The Count of Luxembourg" (Lehar) (19624). Paul Godwin's Orchestra, with organ, "Invocation" (Ganne) (19973). Symphony Orchestra, "Il Guarany" Introduction (Gomez). Ilja Livschakoff and His Orchestra, "Who Has Filled Our Heart With Love?" (Lehar) (22855). Polydor Orchestra, "Berlin as it Laughs and Weeps" (Conradi). Paul Godwin's Orchestra, with organ, "Adoration" (Fillipucci) (19973). Paul Godwin and His Orchestra, "Third Waltz Medley" (Robrecht) (27177); "Kismet" (Yamada) (V40261). Ilja Livschakoff and His Orchestra, "All My Heart Belongs to You."
- 7.0: News and reports.
- 7.15: Dialogue—Messrs. E. E. Wiltshire and F. C. Fairclough, "The Story of the Garden."
- 7.30: Talk—Mr. H. Lightband (under the auspices of the 3YA Primary Productions Committee), "The Uses of all Hides in the Dominion," Production, Tanning and Export.
- 8.0: Chimes. Specially Recorded International Programme. Vitaphone Orchestra. Irresistible Imps. The Flying Song Squadron. Weather forecast and station notices. International talk—Dr. J. Hight, Rector of Canterbury University College, "New Zealand-American Relationships." Forget-me-Not.

Whispers.
God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, NOVEMBER 19.

SILENT DAY.

Friday, November 20

1YA, AUCKLAND (875 KILOCYCLES)—FRIDAY, NOVEMBER 20.

- 3.0 : Chimes. Selected recordings.
3.15: Literary selection.
4.30: Sports results.
5.0 : Children's hour, conducted by Nod and Aunt Jean.
6.0 : Dinner music session (Parlophone)—
Karol Szeiter, pianoforte, with Berlin State Opera Orchestra, "Suite Orientale" (Popy) (A3058).
Dajos Bela Orchestra, "You and You" Waltz (Strauss) (A4080).
Sandor Joszi Orchestra, "The Hobgoblin's Story" (Brecht) (A3027).
Orchestra Opera Comique, Paris, "Manon" Ballet Music (Massenet).
Dajos Bela Orchestra, "Wiener Blut" (Strauss) (A4095).
Berlin State Opera Orchestra, "Dance of the Hours" (Ponchielli) (A4144); "Norma" Overture (Bellini) (A3146); "Slavonic Dances, Nos. 8 and 16" (Dvorak) (A4171).
Dajos Bela Orchestra, "Gypsy Love" Waltz (Lehar) (A4080).
Berlin State Opera Orchestra, "La Traviata" Prelude (Verdi) (A4146).
Dajos Bela Orchestra, "An Eastern Wedding" (Prychistal) (A3027).
7.0 : News and reports.
7.30: Sports talk by a representative of the Girls' Interhouse Sports Association.
7.45: Talk—Lieutenant-Colonel W. C. H. Stevens, "The Mounted Rifles and Cavalry."
8.0 : Chimes. A Spelling Bee for Adults—Adjudicator, Mr. A. B. Chappell, M.A. During the evening items will be given by the Whisker Instrumental Quartet, Miss Adele Taylor (soprano) and Mr. Frank Woodard (baritone).
God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, NOVEMBER 20.

- 10.0 : Chimes. Selected gramophone recordings.
11.12: Lecturette—"Fashions."
12.0 : Lunch hour music.
2.0 : Selected recordings.
3.30 and 4.30: Sporting results.
5.0 : Children's hour, conducted by Uncle Jim.
6.0 : Dinner music session (Columbia)—
Percy Pitt's Orchestra, "Raymond" Overture (Thomas) (DOX84).
Orchestre Symphonique de Paris, "L'Arlesienne Suite" Intermezzo.
Musical Art Quartet, "Deep River" (arr. Conrad Held) (01625).
Continental Novelty Orchestra, "Las Lagarteranas" (Fonlkes).
Band of H.M. Grenadier Guards, "Ivanhoe" Selection (Sullivan).
J. H. Squire's Celeste Octet, "La Serenata" (Braga) (9116).
Plaza Theatre Orchestra, "My Lady Dainty" (Hesse) (01438).
B.B.C. Wireless Symphony Orchestra, "Il Trovatore" Selection (Verdi).
Orchestre Symphonique de Paris, "L'Arlesienne Suite" Entr'acte, "Le Cuisine de Castelet" (Bizet) (01326).
Musical Art Quartet, "Serenade" (Herbert) (01625).
Hermann Finck and His Orchestra, "Waldteufel Memories" (02985).
Continental Novelty Orchestra, "Los Claveles de Sevilla" (Guerrero).
J. H. Squire's Celeste Octet, "Serenade" (Titi) (9116).
Plaza Theatre Orchestra, "The Busy Bee" (Bendix) (01438).
7.0 : News, reports and sports results.
8.0 : Chimes. Relay of concert programme from Marton.
Overture—2YA Orchestrina (Conductor, Signor A. P. Truda) "Mariana" (Wallace).
Bass—Signor Lucien Cesaroni, with orchestral accompaniment, "Star of Eve" (Wagner).
Violin—Mrs. G. Holloway, with orchestra, "Concerto" (2nd Movement).
Soprano—Mrs. A. P. Truda, with orchestral accompaniment, "Waiata Maori" (Hill).
Mandolin duet—Messrs. Saunders and Todd, "Intermezzo" (Mascagni).
Mezzo-soprano—Miss A. Mountfort, "Like to the Damask Rose" (Elgar).
Cornet—Mr. W. J. Stevens, "Lucelle" (Code).
Humour—Mr. Len Ashton, "The Fireman's Dream" (Rouse).
Choir—Miss A. Mountfort's Students, "Angelus" (Chaminade).
Instrumental—2YA Orchestrina, "Valse Triste" (Sibellus).
Weather report and station notices.
Selection—2YA Orchestrina, "Carmen" (Bizet).
Soprano—Mrs. A. P. Truda, with orchestral accompaniment, "Wake Up" (Phillips).
Piano—Mrs. A. Wright, "Concerto" (1st Movement) (Grieg).
Bass—Signor Lucien Cesaroni, with orchestral accompaniment, "Largo" Humour—Mr. Len Ashton, "Oil! Oil! Vat a Business" (Romer).
Cello—Mr. Claude Tanner, with orchestra, "Reve Angelique."
Part song—Miss A. Mountfort's Students, "Bridal Chorus" (Wagner).
Polonaise—2YA Orchestrina, "Militaire" (Chopin).
10.0 : Dance programme from the studio (Regal)—

- Foxtrots—The Midnight Revellers, "Funny Face" (Gershwin) (G20992); Hal Swain's Cafe Royal Band, "My One and Only" (Gershwin); The Midnight Revellers, "He Loves and She Loves" (Little).
10.9 : Waltz—Green's Marimba Band, "My Missouri Home" (Little).
Foxtrots—Ben Selvin and His Orchestra, "Let's Drink a Drink to the Future" (Vallee) (G21126); The Midnight Revellers, "Good Friends" (Connelly) (G21085).
10.18: Vocal—Sweet and Low, "A Love Song of Old Valencia" (Wheller).
10.21: Foxtrots—Midnight Revellers, "I've Found What I Wanted in You" (Endor) (G21119); Tommy Christian and His Orchestra, "What Good Am I Without You?" (Ager) (G20945); Ipana Troubadours, "Think a Little Kindly of Me" (Woods) (G21119).
10.30: Waltz—Green's Marimba Band, "Drifting on to Avalon" (Rich).
Foxtrots—Hal Swain's Cafe Royal Band, "S Wonderful" (Gershwin) (G21032); Ben Selvin and His Orchestra, "Smile, Darn Ya, Smile" (O'Flynn) (G21040); Ted Wallace and His Campus Boys, "By a Lazy Country Lane" (Green) (G21066); Paul Specht and His Orchestra, "I Found a Million-Dollar Baby" (Warren) (G21145); Ted Wallace and His Campus Boys, "Mary Jane" (G21066).
10.48: Vocal—Sweet and Low, "Lady of Spain" (Reaves) (G21140).
10.51: Foxtrots—The Midnight Minstrels, "The Three Musketeers," "Ma Belle" (Grey) (G21046); The Knickerbockers, "Sing a Little Jingle" (Warren) (G21145); The Midnight Minstrels, "The Three Musketeers March" (Wodehouse) (G21046).
11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, NOVEMBER 20.

- 3.0 : Gramophone recital.
4.30: Sports results.
5.0 : Children's hour, conducted by Chuckle.
6.0 : Dinner music session (Parlophone)—
The Parlophone Salon Orchestra, "A Lover in Damascus" (Woodforde-Finden) (A4205).
Berlin State Opera Orchestra, "Slavonic Dances Nos. 1 and 2".
Edith Lorand's Orchestra, "Whispering of the Flowers" (Von Blon).
H.M. Irish Guards' Band, "The Desert Song" (Romberg) (A2433).
Edith Lorand's Orchestra, "Hedgeroses" (Lehar) (A4206); "Johann Strauss Fantasia" (Strauss) (A4044).
Barnabas von Geczy and His Orchestra, "The Student Prince" Fantasia (Romberg) (A4208).
Edith Lorand's Orchestra, "Winter Storms" Waltz (Fueck) (A4143); "O Maiden, My Maiden" (Lehar) (A4206).
Grand Symphony Orchestra, "Dance of the Waves" (Catalani).
7.0 : News and reports.
7.15: Dialogue—Messrs. Cossgrove and W. Melbourne, "Radio Service."
7.25: Debate—"That Immediate Total Disarmament is Necessary to World Peace." Affirmative: Mr. C. R. N. Mackie. Negative, Mr. A. A. Dingwall.
8.0 : Chimes. Overture—Grand Symphony Orchestra, "Fra Diavolo."
8.8 : Baritone—Mr. A. G. Thompson, (a) "Up in the Saddle" (Wallace); (b) "Eyes That Used to Gaze in Mine" (Lohr).
8.14: Cello—Mr. Hamilton Dickson, "Meditation in C Major" (Squire).
8.19: Male quartet—Kedroff Male Quartet, "Olaf Trigwason" (Reissiger).
8.23: Selection—Studio Octet (Conductor, Harold Beck), "Cabaret Girl".
8.32: Soprano—Miss Frances Hamerton, with Octet accompaniment, (a) "Spring's Awakening" (Sanderson); (b) "The Lass with the Delicate Air" (Arne).
8.39: Organ—Sandy Macpherson, (a) "The Monk's Dream" (Holmes); (b) "Starlight" (Brownsmith) (H.M.V. B3173).
8.47: Vocal medley—Light Opera Company, "Lilac Time" Vocal Gems.
8.53: Orchestral—Studio Octet, (a) "Tout en Trottement" (Pesce); (b) Solo, piano and orchestra, "The Clock and the Dresden Figures" (Ketelbey); (c) "Saltarella" (Pesce).
9.2 : Weather forecast and station notices.
9.4 : Lecture-recital—Isamu Kawase, "Japanese Folk Music."
9.24: Baritone—Mr. A. G. Thompson, with Octet accompaniment, (a) "Song of the Clock" (Wallace); (b) "A Perfect Day" (Bond).
9.30: Vocal medley—The Parlophone Variety Company, "An Imaginary Broadcast" (Parlo. A3141).
9.36: Cello—Mr. Hamilton Dickson, (a) "La Cinquantaine" (Gabriel Marie); (b) "Gipsy Melody No. 4" (Dvorak).
9.41: Orchestral—Studio Octet, (a) "Where the Golden Daffodils Grow" (Archer); (b) "Valse Espana" (Waldteufel).
9.48: Soprano—Miss Frances Hamerton, "Little Brown Brother" (Baby seed song) (Lehmann).
9.52: Selection—H.M. Grenadier Guards' Band, "A Princess of Kensington."
10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, NOVEMBER 20.

- 3.0 : Selected recordings.
5.0 : Children's hour, conducted by Aunt Sheila.
6.0 : Dinner music session (Columbia)—
J. H. Squire's Celeste Octet, "The Fly's Courtship" (Squire) (DO308).
B.B.C. Wireless Military Band, "Dance of the Tumblers" (02893).
Organ—Terence Casey, "I'm Lonely" (Coates) (01501).
Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov) (02912/3).
Columbia Symphony Orchestra, "Idilio" (Lack) (01076).
Ketelbey's Concert Orchestra, "Cockney Suite"—(1) A State Procession; (2) The Cockney Lover (Ketelbey) (05052).
Debroy Somers' Band, "Hungarian Medley" (arr. Somers) (01802).

- B.B.C. Wireless Military Band, "Golliwog's Cake Walk" (Debussy).
 Organ—Terence Casey, "Bird Songs at Eventide" (Coates) (01501).
 J. H. Squire's Celeste Octet, "The Ants' Antics" (Squire) (DO308).
 Ketelbey's Concert Orchestra, "Cockney Suite"—(3) At the Palace de Dance; (4) Elegy; (5) Bank Holiday (Ketelbey) (05053/4).
 Columbia Symphony Orchestra, "Spring Song" (Mendelssohn) (01076).
- 7.0 : News and reports.
- 8.0 : Chimes. Overture—Grand Symphony Orchestra, "Raymond" (Thomas).
- 8.9 : Baritone—Mr. Noel H. North, (a) "The Desert Song" (Romberg); (b) "A Fat Lil' Fellow Wid His Mammy's Eyes" (Gordon).
- 8.15 : Violin—Albert Spalding, "Zapateado" (Sarasate) (Bruns. 15211).
- 8.18 : Ventriloquial humour—Mr. H. McL. Eggers, "Comedy Sketches."
- 8.26 : Xylophone—Mr. W. J. Sinton, (a) "Blaze Away" (Holtzmann); (b) "Love's Old Sweet Song" (Molloy).
- 8.32 : Soprano—Mrs. D. Carty, "Jessie's Dream" (Campbell).
- 8.37 : Piano—Mrs. C. Drake, Sea Shanties (arr. Rutland), (a) "Shenandoah"; (b) "Billy Boy."
- 8.42 : Orchestral—Brunswick Concert Orchestra, "Sylvia" (Speaks).
- 8.45 : Humour—Mr. James A. Paterson, "The Night I Appeared as Macbeth."
- 8.50 : Accordion—Mr. Ted Heaney, "Selection" (arr. Heaney).
- 8.55 : Contralto—Miss Mary Somerville, (a) "The Nightingale" (Kjerulf); (b) "The Immortal Song" (Ford).
- 9.2 : Weather report and station notices.
- 9.2 : Orchestral—Albert W. Ketelbey's Orchestra, "In a Fairy Realm"—(1) The Moonlit Glade; (2) The Queen Fairy Dances (Ketelbey).
- 9.10 : Baritone—Mr. Noel H. North, "When I'm Looking at You" (Stothart).
- 9.14 : Organ—Terence Casey, "The Policeman's Holiday" (Ewing).
- 9.17 : Ventriloquial humour—Mr. H. McL. Eggers, "Comedy Sketches."
- 9.25 : Accordion—Mr. Ted Heaney, "Popular Selections" (arr. Heaney).
- 9.31 : Contralto—Miss Mary Somerville, "Sweet and Low" (Wallace).
- 9.35 : Male quartet—The Revellers, "Little Cotton Dolly" (Buck).
- 9.38 : Scots humour—Mr. James A. Paterson, (a) "I Always Have a Glass of Milk Before I Go to Bed" (Powell); (b) "All the Girls are Lovely by the Seaside" (Frangson).
- 9.45 : Xylophone—Mr. W. J. Sinton, (a) "The Whistler and His Dog" (Pryor); (b) "When it is Lovetime in Hawaii" (arr. Sinton).
- 9.52 : Soprano—Mrs. D. Carty, (a) "Garden of Happiness" (Lockton); (b) "Granny's Highland Hame" (McFarlane).
- 9.58 : Band—H.M. Coldstream Guards, "Iolanthe" (Sullivan) (H.M.V.).
- 10.2 : God save the King.

- 10.9 : Waltz—Ilja Livschakoff and His Dance Orchestra, "Beautiful Lady in the Moon" (Wiga) (22991).
- Foxtrots—Ben Berlin's Dance Orchestra, "Kiss Me and Then Forget" (Schmidt) (23586). Paul Godwin's Dance Orchestra, "Hokus Pokus" (German) (23652).
- 10.18 : Vocal—Sidney Burchall, "Bye and Bye" (Richard Rodgers).
- 10.21 : Tangos—Ilja Livschakoff's Dance Orchestra, "A Little Love Longing" (Hollander) (23335). Jose M. Lucchesi and His South American Orchestra, "Pesares" (Lucchesi) (22058). Juan Llossas Original Argentin Tango Band, "Warum Charmante Frau" (Bauer).
- 10.30 : Waltz—Paul Godwin's Jazz Symphonians, "Love Waltz" (Heymann).
- Foxtrots—Ilja Livschakoff's Dance Orchestra, "Perfidious Luck" (Mackeben) (23335); "I Am Fondly Attached to You" (May) (23538); "Would You Give Me the Happiness of One Sweet Hour."
- 10.42 : Vocal—Sidney Burchall, "Here in My Arms" (Richard Rodgers).
- 10.45 : Tangos—Ben Berlin's Dance Orchestra, "I Love You" (Schmidt) (23586). Ilja Livschakoff's Dance Orchestra, "Come Down Rosie" (May) (23538). Juan Llossas Original Argentin Tango Band, "Astoria" (Sacha) (23118).
- 10.54 : Foxtrots—Ilja Livschakoff and His Dance Orchestra, "There's Nothing Like Love" (Guttmann) (22991); "Troika Drive in the Moonshine" (arr. Benedict) (23480).
- 11.0 : Sporting summary.
- 11.10 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, NOVEMBER 21.

- 3.0 : Chimes. Selected gramophone recordings.
- 3.30 and 4.30 : Sporting results.
- 5.0 : Children's hour, conducted by Aunt Molly.
- 6.0 : Dinner music session (Polydor)—
 Philharmonic Orchestra, Berlin, "Euryanthe" Overture (Weber).
 Paul Godwin's Orchestra, "The Czarewitsch" (Lehar) (19678).
 Marek Weber and His Hotel Adlon Orchestra, "Extase" (Ganne).
 Paul Godwin's Jazz Symphonians, "Lots of Fun" (Morena) (19761).
 Paul Godwin's Orchestra, "Murmur de Bal" (Helmund) (19507); "The Merry Peasant" (Fall) (19603).
 Polydor Orchestra, "Aus Winkeln und Gassen" (Hannemann) (21939).
 Paul Godwin's Orchestra, "Sleeping Beauty's Bridal Trip" (Rhode).
 Marek Weber and His Hotel Adlon Orchestra, "Under the Old Lime Tree" (Felix) (20456).
 Paul Godwin's Orchestra, "Dreaming Flowers" (Translateur) (19507).
- 7.0 : News, reports and sports results.
- 8.0 : Chimes. Relay from the Concert Chamber, Town Hall, of concert by the Wellington Harmonic Society.
- Part song—The Choir, "The Open Road" (Stickles, arr. Hilton).
 Part song—The Choir, "The Sea Hath Its Pearls" (Pinsuti).
 Piano—Mr. Ernest Jenner, "Theme and Variations," Op. 72.
 Part song—The Choir, "Sea Drift" (Coleridge-Taylor).
 Soprano—Master Lex McDonald, "Solweig's Song" (Grieg).
 Part song—The Choir, "Marry Me, Mary Veen" (arr. Lyon).
 Chorus—The Choir, "Down in the Land of Greeno."
 Weather report and station notices.
- Overture—Milan Symphony Orchestra, "Mignon" (Thomas).
- Part songs—The Choir, "The Cruisken Lawn" (Irish melody, arr. Bantock); "Beware" (Terry).
- Duet—Misses Leonie Whiteford and Edna Tankersley, "Calm After Storm" (Keel).
- Part song—The Choir, "My Love Dwelt in a Northern Land" (Elgar).
- Motet for soprano and chorus—Master Lex McDonald and the Choir, "Hear My Prayer" (Mendelssohn).
- Chorus—The Choir, "For Empire and for King" (Fletcher).
- 10.0 (approx.): Dance programme from the studio (Parlophone)—
 Foxtrots—Cec. Morrison and His A.B.C. Dance Band, "Hello Beautiful" (Donaldson) (A3193); "She's a Gorgeous Thing" (Davis) (A3201); "There Goes a Horse" (Andrews) (A3193). Barnabas von Geczy and His Orchestra, "The White Horse Inn" (Benatzky).
- 10.12 : Waltzes—Barnabas von Geczy and His Orchestra, "Bitter Sweet" (Coward) (A3206). Otto Fritz and His Syncopators, "The Love Waltz" (Heymann) (A3231).
- Foxtrot—Tampa Blue Orchestra, "One Little Raindrop" (Richmond).
- 10.21 : Vocal—George Sorlie, "Pardon Me, Pretty Baby" (Klages) (A3230).
- 10.24 : Waltz—Paul Abraham and His Orchestra, "Signora" (Abraham).
- Foxtrots—The Versatile Four, "The Wedding in the Ark" (Butler) (A3197). Otto Fritz and His Syncopators, "You Too" (Stolz) (A3208). Arthur Roseberry and His Dance Band, "Tap Your Feet" (Brun) (A3197).
- 10.36 : Tango—Barnabas von Geczy and His Orchestra, "Erica, Don't You Want a Boy Friend?" (Meisel) (A3196).
- Foxtrots—Barnabas von Geczy and His Orchestra, "Four Words" (Erwin) (A3206). Cec. Morrison and His A.B.C. Dance Band, "Sleepy Town Express" (Gillespie) (A3201). Otto Fritz and His Syncopators, "You're the One Girl For Me" (Heymann) (A3231).
- 10.48 : Vocal—George Sorlie, "You'll Be Mine in Apple Blossom Time."
- 10.51 : Waltzes—Barnabas von Geczy and His Orchestra, "My Song of Love" (Stolz) (A3198). Otto Fritz and His Syncopators, "Just Two Hearts and a Waltz Refrain" (Stolz) (A3208).
- Foxtrot—Tampa Blue Orchestra, "There Ought to be a Moonlight Saving Time" (Kahal) (A3209).
- 11.0 : Sporting summary.
- 11.10 : God save the King.

Saturday, November 21

1YA, AUCKLAND (875 KILOCYCLES)—SATURDAY, NOVEMBER 21.

- 2.30 : Description of Girls' Interhouse Sports at Carlaw Park.
- 3.15 : Literary selection.
- 4.30 : Sports results.
- 5.0 : Children's hour, conducted by Cinderella.
- 6.0 : Dinner music session (Polydor)—
 Ilja Livschakoff's Orchestra, "The Land of Smiles" (Lehar) (27196).
 Paul Godwin's Orchestra, "Song of the Desert" (Delbaes) (22893).
 Paul Godwin's Trio, "For You" (Czibulka) (21341).
 Paul Godwin's Orchestra, "Hearts and Diamonds" (Marischka).
 Ilja Livschakoff and His Orchestra, "Estrellita" (Davis) (23047).
 Bereny's Hungarian Gypsy Symphony Orchestra, "Karpattia." Symphony Orchestra, "The Forester's Daughter" Medley (Jarno).
 Paul Godwin's Orchestra, "The Mask Seller" (Wolff) (22893).
 Paul Godwin's Trio, "Melodie" (Denza) (21341).
 Paul Godwin's Orchestra, "Polish Temper" (Nedbal) (19609).
 Ilja Livschakoff and His Orchestra, "Pas des Escharpes" (Chaminade).
 Bereny's Hungarian Gypsy Symphony Orchestra, "Improvisations on Hungarian Folksongs" (arr. Bereny) (23692).
- 7.0 : News and reports.
- 7.30 : Talk—Member of the Auckland Aero Club.
- 8.0 : Chimes. The programme will be interrupted to permit of a relay description of the night flying manoeuvres and fireworks display at the Auckland Aero Club's Aerodrome, Mangere.
- Medley—Grand Symphony Orchestra, "Round the World by Air."
 Quartet—The Orpheus, Excerpts from "Going Up" (Harbach-Hirsch).
 March—Salon Orchestra, under direction of Harold Baxter, "Soaring" (Nowowieski); Selection, "Around the Map" (Finck).
 Patrols—Band of the Royal Air Force, (a) "The Wee MacGregor" (Amers); (b) "The Turkish Patrol" (Michaelis) (Reg. G29479).
 Quartet—The Orpheus, Excerpts from "Going Up."
 Selection—Salon Orchestra, "Merrie England" (German).
 Marches—Band of the Royal Air Force, (a) "Under the Double Eagle" (Wagner); (b) "Entry of the Gladiators" (Fucik).
 Evening weather forecast and announcements.
- March—Salon Orchestra, "Aeroplane March" (Braham); Selection, "My Lady Dragon-Fly" (Finck).
- Quartet—The Orpheus, Excerpts from "Going Up" (Harbach-Hirsch).
 Selection—H.M. Grenadier Guards' Band, "The Rose" (arr. Myddleton).
 Fantasia—Salon Orchestra, "Under the British Flag" (Kappey).
- 10.0 : Programme of dance music (Polydor)—
 Foxtrots—Paul Godwin's Dance Orchestra, "Dance of the Raindrops" (Evans) (23652). Ilja Livschakoff's Dance Orchestra, "The Song of My Wife" (arr. Samson) (23480). Paul Godwin's Jazz Symphonians, "You Are the Sweetest Girl in the World" (Heymann).

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, NOVEMBER 21

- 3.0 : Gramophone recital.
 4.30 : Sports results.
 5.0 : Children's hour, conducted by Aunt Pat.
 6.0 : Dinner music session (Columbia)—
 Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen).
 Dajos Bela Orchestra, "La Traviata" Fantasia (Verdi) (Parlo. A4027).
 J. H. Squire's Celeste Octet, "Memories of Devon" (Evans) (DO254).
 New Queen's Hall Light Orchestra, "Summer Days Suite" (Coates)—
 (a) In a Country Lane; (b) On the Edge of the Lake; (c) At the
 Dance (02590/1).
 H.M. Grenadiers' Band, "New Sullivan" Selection (arr. Godfrey).
 Zurich Tonhalle Orchestra, "Andante" (Mozart) (02978).
 Johann Strauss and His Orchestra, "Voices of Spring" (Strauss).
 Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (02022).
 J. H. Squire's Celeste Octet, "Collette" (Fraser-Simson) (DO254).
 Zurich Tonhalle Orchestra, "Gavotte from Idomeneo" (Mozart) (02978).
 New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates) (02591).
 Johann Strauss and His Orchestra, "Radetzky March" (Strauss).
 7.0 : News, reports and sports results.
 8.0 : Chimes. Relay of programme from 4YA, Dunedin.
 10.0 : Dance music (Polydor)—
 Foxtrots—Marimba Original Excelsior de Guatemala, "Hula Tropical"
 (21902); Ilja Livschakoff's Dance Orchestra, "I am so Happy"
 (May) (23537); Paul Godwin's Dance Orchestra, "Just Such a
 Girl" (Abraham) (23361).
 10.9 : Waltz—Paul Godwin's Dance Orchestra, "Pardon Madame" (Abraham)
 10.12 : Foxtrots—Marimba Original Excelsior de Guatemala, "Llorando"
 (21902); Paul Godwin's Orchestra, "Victoria and Her Hussar"
 (Abraham) (23399); "The Broken Record" (Howalt) (23176).
 10.21 : Vocal—Don and Ken, "Sunny Days" (Jason) (Parlo. A3106).
 10.24 : Tangos—Ilja Livschakoff's Dance Orchestra, "O, Miss Daisy" (Llossas)
 (23698); Paul Godwin's Dance Orchestra, "Poor Little Mannequin"
 (Rosen) (23397); Ilja Livschakoff's Dance Orchestra, "Queen of
 Dreams" (Schmidt) (23698).
 10.33 : Waltzes—Paul Godwin's Dance Orchestra, "Under the Roofs of Paris"
 (Moretti) (23644); "Good Night!" (Abraham) (23398).
 10.39 : Vocal—Don and Ken, "Roamin' Thru the Roses" (O'Flynn).
 10.42 : Foxtrots—Ben Berlin and His Orchestra, "Fairly on the Clock" (Myers)
 (23055); Paul Godwin's Dance Orchestra, "Mickey Mouse" (Carl-
 ton) (23176); Ben Berlin and His Orchestra, "Clown Dolly" (Rust)
 10.51 : Tangos—Ilja Livschakoff's Dance Orchestra, "Don't You Want a Friend,
 Little Madam?" (Meisel) (23334); Paul Godwin's Dance Orchestra,
 "Thus Spoke the Knowing Marabu" (Egan) (23397); "A Sweet
 heart as Sweet as You Are" (Meisel) (23334).
 11.0 : God save the King.

4YA, DUNEDIN 650 KILOCYCLES)—SATURDAY, NOVEMBER 21.

- 3.0 : Selected recordings.
 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Aunt Anita.
 6.0 : Dinner music session (Polydor)—
 Paul Godwin's Dance Orchestra, "The World's Best Waltzes" Medley.
 Ilja Livschakoff's Orchestra, "Fiddler, Where is Your Home?" (23539).
 Vienna Schrammel Quartet, "Serenade" (Heykens) (21919).
 Paul Godwin's Orchestra, "Marche Grotesque" (Sinding) (22900).
 Ilja Livschakoff's Dance Orchestra, "Roses of the South" (23626).
 Organ—H. Wood, "Songs My Mother Taught Me" (Dvorak) (23304).
 Orchestra Mascotte, "Amoureuse" Waltz (Berger) (Parlo. A3135).
 Paul Godwin's Orchestra, "The Clock and the Dresden Figures" (23568).
 Ilja Livschakoff's Orchestra, "Hungarian Medley" (Leopold) (23539).
 Vienna Schrammel Quartet, "Silk and Velvet" (Ziehrer) (21919).
 Paul Godwin's Orchestra, "Joy Bells" (Blaauw) (22900).
 Organ—H. Wood, (a) "Song Without Words" (Mendelssohn); (b)
 "Adagio from 'L'Arlesienne'" (Bizet) (23304).
 Ilja Livschakoff's Dance Orchestra, "Blue Danube" (Strauss) (23626).
 Dajos Bela Orchestra, "The Grenadiers" Waltz (Waldteufel) (Parlo.).
 La Argentina, Castanets with Orchestra, "Dance No. 5" (Granados).
 Paul Godwin's Orchestra, "The Cathedral Bells" (Becker) (23568).
 7.0 : News and reports.
 8.0 : Chimes. Fantasia—Edith Lorand's Orchestra, "Tales of Hoffmann."
 8.9 : Chorus—The Melodists, (a) "Get Out and Get Under the Moon"
 (Shay); (b) "Old Mother Hubbard" (Wheeler).
 8.15 : Banjo Band—Stokes's Banjo Band, (a) "The N.C.—4" (Bigelow); (b)
 "Youth and You" (Herson).
 8.24 : Humour in song and story—The Two Bing Boys, "Our Turn Next."
 8.38 : Pipes—Pipe-Major A. McMillan, "Scots Selection" (trdtl.).
 8.43 : Popular hits—The Melodists, (a) "We're Uncomfortable" (Butler);
 (b) "When You Come to the End of the Day" (Westphal).
 8.49 : Novelty—The Phillips Sisters, (a) "Slow River" (Schwab); (b) "Heart
 to Heart" (Ball); (c) "I'm Following You" (Dreyer).
 8.56 : Humour—Mr. Lester F. Moller, "Swallowing an Egg" (Farjeon).
 9.0 : Weather report and station notices.
 9.2 : Orchestral—New Light Symphony Orchestra, "Prelude in G Minor,"
 Op. 23, No. 5 (Rachmaninoff) (H.M.V. EF24).
 9.6 : Quartets—The Melodists, (a) "All Thru the Night" (trdtl.); (b) "Rus-
 sian Lullaby" (Berlin).
 9.12 : Banjo Band—Stokes's Banjo Band, "Youth Triumphant" (Gibb).
 9.20 : Bass—Mr. R. B. Macdonald, "Crown of the Year" (Martin).
 9.23 : Humour—Mr. Lester F. Moller, "Mr. Potter's Brother" (Potter).

- 9.28 : Novelty—The Phillips Sisters, (a) "In a Monastery Garden" (Ketel-
 bey); (b) "Just Can't Be Bothered With Me" (Simons).
 9.36 : Choral—Glasgow Orpheus Choir, (a) "Cradle Song" (Gibbs); (b)
 "The Campbells Are Comin'" (arr. Mansfield) (H.M.V. B3109).
 9.42 : Pipes—Pipe-Major A. McMillan, "Scottish Airs" (trdtl.).
 9.47 : Chorus—The Melodists, "Rose Marie" (Friml).
 9.50 : Banjo Band—Stokes's Banjo Band, (a) "Indian Smoke Dance" (Metz);
 (b) "Royal Purple" (Mills).
 9.57 : Organ—Lew White, "Down South" (Myddleton) (Bruno. 4889).
 10.0 : Dance session (Columbia)—
 Foxtrots—Jack Payne and His B.B.C. Dance Orchestra, "Beware of
 Love" (Gernell) (DO223); Van Phillips and His Band, "Always
 In All Ways" (Robin) (DO259); "Why am I so Romantic?" (Kal-
 mar) (DO271); "Beyond the Blue Horizon" (Robin) (DO259).
 10.12 : Waltz—Will Osborne and His Orchestra, "Down the River of Golden
 Dreams" (Klennner) (DO158).
 Foxtrots—Jan Garber and His Orchestra, "When a Woman Loves a
 Man" (Rainger) (DO88); Denza Dance Band, "Loving You" (Yel-
 len) (G20918); Fred Rich and His Orchestra, "If I'd Only Listened
 to You" (Wendling) (DO272).
 10.24 : Vocal duet—Layton and Johnstone, "Dancing with Tears in My Eyes."
 10.27 : Foxtrots—Rhythmic Troubadours, "You're the Sweetest Girl" (Lom-
 bardo) (Reg. G20757); Guy Lombardo and His Royal Canadians,
 "Where the Golden Daffodils Grow" (Archer) (DO128).
 Waltz—The Cavaliers, "The Kiss Waltz" (Burke) (DO272).
 10.36 : Foxtrot—Johnny Walker and His Rollickers, "Betty Co-ed" (DO240).
 10.39 : Vocal duet—Layton and Johnstone, "Watching My Dreams Go By."
 10.42 : Foxtrots—Will Osborne and His Orchestra, "The Song Without a Name"
 (Russell) (DO158); Guy Lombardo and His Royal Canadians,
 "Under a Texas Moon" (Perkins) (DO88); "Good Evenin'."
 10.51 : Waltz—The Cavaliers, "All Through the Night" (Yorke) (DO271).
 Foxtrots—Guy Lombardo and His Royal Canadians, "Be Careful With
 Those Eyes" (Woods) (DO228); Chester Leighton and His Sopho-
 mores, "Sweetheart of My Student Days" (Kahn) (Reg. G20918).
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, NOV. 21.

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

Sunday, November 22**1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, NOVEMBER 22.**

- 3.0 : Chimes. Selected recordings.
 3.15 : Literary selection.
 6.0 : Children's song service, conducted by Uncle Leo.
 7.0 : Relay of service from Beresford Street Congregational Church.
 Preacher, The Rev. Lionel B. Fletcher. Organist, Mr. A.
 Cherry. Choirmaster, Mr. William Gemmell.
 8.30 : Relay of Municipal Band Concert from the Auckland Town Hall.
 March—The Band, "The Bond of Friendship" (Mackenzie Rogan);
 overture, "Academic Festival" (Brahms).
 Cornet duet—Messrs. F. Bowes and J. Davies, "Hear Me, Norma."
 Selection—The Band, "Parsifal" (Wagner); entr'acte, "Berceuse"
 (Godard); selection, "Princess Ida" (Sullivan); Wiegandied,
 "Cradle Song" (Brahms).
 Flute solo—Mr. Hal C. McLennan, "Russian Fantasia" (Levy).
 Morceau—Band, "Vision" (Von Blon); hymn, "Now Thank We All
 Our God" (Bidgood); march, "Treue um Treue" (Rust).
 10.0 : God save the King.

3YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, NOVEMBER 22.

- 3.0 : Relay from the De Luxe Theatre of a lecture on "Christian Science"
 by Dr. Albert F. Gilmore, C.S.B., of Boston, Mass.
 6.0 : Children's song service, conducted by Uncle George, and assisted by
 the children's choir from the Thorndon Methodist Church.
 7.0 : Relay of evening service from St. Thomas's Anglican Church, Wel-
 lington South. Preacher, Rev. C. V. Rooke. Choirmaster, Mr.
 Wenzel Collie. Organist, Mr. W. G. Gatheridge.
 8.20 (approx.): Concert by the Wellington Artillery Band (Conductor, Capt.
 T. Herd, V.D.), and Vocal Octet presenting "Lilac Time," by
 Schubert-Clutsum.
 Hymn—The Band, "The Guardian Hymn" (arr. Herd).
 Selection—Band, "Opera Bouquet" (arr. Bidgood).
 Vocal Octet, "Lilac Time" (Schubert-Clutsum).
 Chorus—"O, the Maytime."
 Trio—"Just a Little Ring."
 Quartet—"Four Jolly Brothers."
 Quintet—"Hark, Hark the Lark."
 Quintet—"Under the Lilac Bough."
 Duet—"The Golden Song."
 Finale—"Prosit, Prosit."
 Weather report and station notices.
 March—The Band, "Rajamahendri" (Hume).
 Euphonium solo—Bandsman N. P. Hildreth, "Sundered Hearts" (Flick).

Cornet duet—Sergt. W. H. Bowman and Bandsman J. Bagnall, "Pano-rama" (Greenwood).
 Vocal Octet—"Lilac Time," Act 2 (Schubert-Clutsam).
 Solos—"Serenade," Vision Song, "Dream Enthralling."
 Sextet—"When Skies are Blue, When Pigeons Coo."
 Duets—"The Flower," "Girls and Boys."
 Finale—"I Want to Carve Your Name."
 Selection—The Band, "Don Giovanni" (Mozart).
 Vocal Octet—"Lilac Time," Act 3 (Schubert-Clutsam).
 Septet—"Strolling Through the Morning Air."
 Solo—"My Sweetest Song of All."
 Duet—"When the Lilac Bloom Uncloses."
 Finale—"I Ask the Spring, Blossom Laden."
 March—The Band, "Arnside" (Rimmer).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, NOVEMBER 22.

3.0 : Gramophone recital.
 5.30 : Children's song service by children of Presbyterian Sunday Schools.
 6.15 : Chimes from studio.
 6.30 : Selected recordings.
 7.0 : Relay of evening service from St. Andrew's Presbyterian Church.
 Preacher, Rev. J. Lawson Robinson. Organist, Mr. R. E. Lake.
 Choir Conductor, Mr. J. Maclean.
 8.15 (approx.) : Studio programme—
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, NOVEMBER 22.

3.0 : Selected recordings.
 5.30 : Children's song service, conducted by Big Brother Bill.
 6.15 : Selected recordings.
 6.45 : Relay of evening service from Salvation Army Citadel, Dowling Street, Dunedin. Preacher, Adjutant Tong. Band Conductor, Mr. A. Millard.
 8.15 : Relay of concert programme from 3YA, Christchurch.
 10.1 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, NOV. 22.

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



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WELLINGTON

Day and Night Service



Australian Programmes

Times Corrected for N.Z. Summer Time

Wednesday, November 11.

STATION 2FC.—10 p.m.: An Empire concert, arranged by Professor Bernard Heinze, F.R.C.M., will be relayed from the Melbourne Town Hall through 3LO.

2BL.—10 p.m.: "Red Tabs," a drama depicting one of the many crises of the Great War, will be presented by the A.B.C. Players.

3LO.—Relay from the Melbourne Town Hall of an Empire concert.

3AR.—10 p.m., 10.35 p.m., 10.51 p.m., etc.: The Brunswick City Band. 10.8 p.m. and 12.2 a.m.: Hjordis Nilsson, contralto. 10.15 p.m.: Pat Hanna will repeat his famous story about the two Diggers, 1200 B.C. and 1916 A.D. 10.45 p.m. and 11.50 p.m.: The Master Four Quartet. 11 p.m.: "For Valour," a play specially written for Armistice Day.

Thursday, November 12.

STATION 2FC.—10 p.m.: The A.B.C. Light Opera Company in "Young England," a light opera in three acts.

2BL.—10 p.m., 10.17 p.m., 10.34 p.m., etc.: The A.B.C. Military Band. 10.10 p.m. and 11.30 p.m.: Norman Mann, tenor. 10.27 p.m. and 11.37 p.m.: Rene Birkett, violinist. 10.45 p.m. and 11.59 p.m.: Muriel O'Malley, contralto. 10.52 p.m. and 12.6 a.m.: Iris de Cairos Rego, pianiste.

3LO.—10 p.m.: Dance music by Paul Jeale and his Radio Dance Band, interspersed with variety numbers.
 3AR.—10 p.m.: Relay of station 2FC.

Friday, November 13.

STATION 2FC.—10 p.m.: Chamber musical recital, arranged by the Musical Association of New South Wales. 10.28 p.m. and 10.45 p.m.: Elsie Findlay, soprano. 10.35 p.m.: Gerald Walenn, violinist. 11.15 p.m.: Relay from 3LO, Melbourne, of second part of the concert by the Victorian Professional Orchestra.

2BL.—10 p.m., 10.32 p.m., 11 p.m., etc.: The A.B.C. Orchestra. 10.12 p.m., 10.40 p.m., and 11.15 p.m.: The A.B.C. Vocal Octet.

3LO.—10 p.m.: Relay from the Melbourne Town Hall of a concert by the Victorian Professional Orchestra.

3AR.—10.20 p.m.: Community singing from the Ballarat Town Hall.

Saturday, November 14.

STATION 2FC.—10 p.m. and 10.20 p.m.: The A.B.C. Orchestra. 10.7 p.m.: Neville Beavis, baritone. 10.14 p.m.: Dulcie Blair, violiniste. 10.30 p.m.: Vaudeville numbers from the Little Theatre.

2BL.—10 p.m., 11.37 p.m., and 11.57 p.m.: The Metropolitan Band. 10.10 p.m.: Piebald Philosophy by Percival. 10.20 p.m. and 11.50 p.m.: Amy Ostinga, mezzo. 10.27 p.m., 11.42 p.m., and

12.9 a.m.: Beryl Howard, pianiste. 10.30 p.m.: Description of boxing contest at Sydney Stadium. 11.30 p.m. and 12.2 a.m.: Leo Stark, comedian.

3LO.—10 p.m.: Old-time musical items and choruses.

3AR.—10 p.m., 10.30 p.m., and 11.24 p.m.: A.B.C. Concert Orchestra. 10.10 p.m. and 11.3 p.m.: Madame Lambert, soprano. 10.17 p.m.: Tasma Thernan, cellist. 10.23 p.m. and 11.42 p.m.: Roy Tartakover, baritone. 10.55 p.m.: A.B.C. String Quartet. 11.18 p.m. and 12.7 p.m.: The Master Four Quartet. 11.30 p.m. and 11.55 p.m.: Norman Bland and his partner will entertain. 11.38 p.m.: Macduff Williams, saxophone.

Sunday, November 15.

STATION 3LO.—10 p.m., 10.33 p.m., 11 p.m., and 11.26 p.m.: The A.B.C. Light Orchestra. 10.18 p.m. and 11.18 p.m.: Allen McCristal, pianist. 10.26 p.m. and 11.51 p.m.: Hjordis Nilsson, contralto. 10.10 p.m., 10.43 p.m., 11.10 p.m., and 11.36 p.m.: The Victoria Postal Institute Choir. 10.50 p.m.: Arnold Coleman at the grand organ. 11.44 p.m.: H. Green, flute.

3AR.—9 p.m.: Divine service from St. Paul's Cathedral, Melbourne.

Monday, November 16.

STATION 3LO.—10 p.m.: Relay of a meeting convened by the Lord Mayor of Sydney in connection with the world disarmament movement. Speakers will include the Prime Minister, the Rt. Hon. J. H. Scullin, P.C., M.P.; the Federal Treasurer, the Hon. E. G. Theodore, M.P.; the Leader of the Federal Opposition, the Hon. J. A. Lyons, M.P.; the Deputy-Leader of the Federal Opposition, the Hon. J. G. Latham, C.M.G., K.C., M.P.; the Leader of the Country Party, the Rt. Hon. Dr. Earle Page, P.C., M.P.; and the Federal Attorney-General, the Hon. Frank Brennan, M.P.

3AR.—10.20 p.m.: An organ and choral recital from the Hawthorn Presbyterian Church. 11 p.m., 11.17 p.m., 11.30 p.m., etc.: The Eureka Brass Band. 11.10 p.m. and 11.40 p.m.: Queenie Curtain, contralto. 11.23 p.m. and 11.57 p.m.: Mavis Yeomans, monologist.

Tuesday, November 17.

STATION 3LO.—10 p.m.: A choral and orchestral presentation of "The Peasant" cantata, by Bach. 11 p.m.: Brass band and variety numbers.

3AR.—10.20 p.m.: Studio programme of selected recordings.

HAVE you renewed your subscription to the—

"Radio Record and Home Journal."
 12/6 in Advance.

Box 1032, Wellington.

Mullard
 THE MASTER-VALVE

The only Valve with the wonderful P.M. Filament. Gives longer life — more power — greater volume.

Radio Control

(Continued from page 3.)

Sir James Parr, in replying to the debate, said that the Government was taking over a first-class business. The board could make or mar the service.

R.B.C. Co-operation Assured.

"THE passing of the Broadcasting Bill by Parliament means that as from January 1 next the Government will take over the ownership of the broadcasting service and that the Radio Broadcasting Company will automatically go out of existence on December 31," said Mr. William Goodfellow, chairman of directors of the Radio Broadcasting Company, Limited, last week.

This decision for the State to take over the service and operate it under the control of a board was essentially a matter of Government policy. Now that finality had been reached, Mr. Goodfellow, on behalf of the directors of the company, had no hesitation in assuring listeners that the company would use its best efforts to ensure that the highest standard of efficiency would be maintained until the end of the license period, and that the service would then be handed over to the Government in a first-class and thoroughly efficient condition.

Pioneering Work.

THE directors of the company were pleased to have had the Minister's appreciation of the pioneering work performed by the company and his endorsement of the high standard of service rendered to the public, said Mr. Goodfellow. It was their belief that, having regard to the limited popula-

List of Parts for the "Night-Owl Three"

Wooden Baseboard, 8½ x 12½ x ½.	One .002 Fixed Condenser.
Ebonite Panel, 7 x 12½ x 3-16th.	One .25meg. Grid Leak, with Holder.
One .00015 Tuning Condenser, with double spaced vanes.	Two Audio Transformers (one 3—1 and one 5—1).
One .00005 Variable Midget Condenser.	One 30ohm Rheostat.
One 5-pin Base for coil, with 5-Pin Valve Holder.	One On/Off Filament Switch.
One .0002 Grid Condenser with 6meg. Grid Leak and Mount.	One Loudspeaker Plug and Jack.
One Baseboard-mounting 400ohm. Potentiometer.	Two Vernier Dials.
Three UX Valve Sockets.	One Rheostat Dial.
One R.F. Choke.	Clips for mounting Bias Battery.
One .001 Fixed Condenser.	Aerial and Earth Terminals on mount.
One .00025 Reaction Condenser.	Set of Shortwave Coils.
	One Battery Cable.
	Three Wanderplugs for Bias Battery.
	Glazite, screws, etc.

The "Night-owl Three"

(Continued from page 17.)

wire taken back inside the valve base and down through the correct pin. It is then soldered into position by touching the end of the pin with the soldering iron.

The secondary is now wound on in a similar manner, and finally the primary. The coils should now be placed in its socket and a continuity test applied to see if the coils are connected to their correct pins. The procedure for all the coils is the same.

though for the 40-metre band coil and above, valve base extension former will be required. This may be fastened to the base by means of two foot brads, which are driven through the bottom of the former and into the valve base after the latter has been drilled. A table giving full particulars of these coils, with correct gauges of wire, etc., is reproduced on this page and should be adhered to strictly.

Though designed primarily for short-wave work, this receiver may also be used on the broadcast band, and particulars of a suitable valve base coil, together with useful hints on operating the receiver, will be given next week.

Company's Revenue.

THE company's revenue for the operation of the service has been drawn exclusively from the fees collected from licensed listeners and radio dealers. This was undoubtedly the most effective system under which the interests of listeners could be safeguarded.

Other known methods of obtaining revenue for a radio service were from (a) advertising, or (b) Government subsidy. Six years' experience by the company has proved it possible to provide a good service without assistance from either of these sources, and the company believed from that experience, and from investigation of systems in other countries, that it would be a retrograde step for the service to have to depend on revenue from advertising, whether direct or in the form of sponsored programmes. Under that system, too, listeners' interests would no longer be the paramount consideration.

In this connection, Mr. Goodfellow continued, the company in the early

stages of its existence, when the financial outlook was doubtful, had been granted by the Government the right to supplement its revenue by advertising, but although working at a loss at that time, the company had then and ever since refrained from exercising that right. He was glad to say that they had been able to develop the service up to its present state of efficiency without having to draw any revenue whatsoever from this source, although some very attractive proposals had been submitted to the company from time to time.

Outstanding Need.

IN the opinion of the company's directors the outstanding need of the service at present was the extension of broadcast facilities so that listeners in country districts might be provided with a service equal to that enjoyed by listeners in the four main centres. He personally hoped that the Government would provide for the earliest possible provision of this requirement under the new regime.

Mr. Goodfellow also stressed the importance of dealing as speedily as possible with the problem of man-made interference with radio reception, which often marred the best of programmes, and said he would like to see something done on the lines that had been recommended by the company.

The directors hoped that the Government would expedite the appointment of the board, as they would be severing their connection with the service on December 31 next, and it was their desire, as it would be their earnest endeavour, to do all within their power to secure the smooth transference of the service from the company to the Government. Later on they hoped to have an opportunity of expressing their thanks to the listeners, to all the members of the various public relations committees, and others interested in radio who had rendered much splendid voluntary community service, and to the staff, who had so loyally served the company and the public.

Archibald on Television

(Continued from page 9.)

had been blown off and couldn't be found. Do you know, sir, that in her temper she referred to me as an "addle-pated bungler," forgetful of her promise at the altar to worship me always.

No, sir, television ain't what it is cracked up to be. Look how awkward it would be to 'ave periscopes sticking out of every 'ouse and runnin' me over the country. It's bad enough now 'avin' posts every yard or two in the streets 'oldin' up wires, but to carry thousands of periscope tubes—why, it's ridiculous.

No! Television is all right for paper-angers, but no good for a man whose wife 'ates whistles blowin'.

PREPARE FOR THE ADVANCE IN BROADCASTING AND RECEPTION OF INTERNATIONAL PROGRAMMES

Consult MACKS for all
Alterations, Improvements or
Repairs needed to

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tion and the unusual topographical features of the Dominion, together with the comparatively short period of their license, the service rendered by the company compared more than favourably with systems in existence in other parts of the world. A widely-diversified service catering for all sections of the community was being provided and had been placed on a sound financial basis.

Probably one of the greatest difficulties the company had had to contend with in building up the service had been to restrict broadcasting to its legitimate channels and to prevent the overlapping of services that were outside its proper functions. The adoption of expedients so common to the inauguration of new enterprises had been scrupulously avoided, as they invariably resulted in legacies which, sooner or later, proved detrimental to permanent success.

DUBILIER CONDENSERS for "KESTREL 3"

GIVE BETTER RESULTS!

- .0001 Mica Condenser and Clips, 2/- each.
- .0002 Mica Condenser and Clips, 2/- each.
- .5mfd. Mansbridge Condenser, 2/9
- 2 and 10 meg. Leaks, 1/6 each.
- Radio Fey. Choke, 5/6.
- .00015 Differential Condenser, 6/6

- 30 ohm Rho., 3/-.
- Ebonite Tube, 4in. x 2in., 1/-.
- .0003 Var. Condenser, 9/6.
- .0003 Var. Condenser, with 200-1 Vernier, 15/-.
- 400 ohm. Potentiometer, 5/-.

All Other Parts Stocked.

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404 WORCESTER STREET, CHRISTCHURCH.

RADIO GOODS What to Buy and Where

BURGESS RADIO BATTERIES, All Radio Dealers.

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

MULLARD VALVES All Radio Dealers.

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

Short-wave Notes

Empire Broadcasting.

ONE of the most interesting items to shortwave listeners—in fact, to all Britons overseas—in the cable news on the 7th inst. was the statement that the British Broadcasting Corporation has at last decided to erect an Empire broadcasting station.

This Empire station is long overdue, considering the very unsatisfactory service we are receiving from G5SW. This station is heard quite well in many countries, but New Zealand is not one of them, although this country appears to be favourably situated for shortwave reception from most parts of the world.

We do at times hear Chelmsford perfectly, but more often reception is spoilt by a severe rapid fade which spoils readability even when volume is good. G5SW commenced testing on 24 metres early in November, 1927. The writer first heard them on the night of November 5, when they were transmitting a test programme for twelve hours. I held them from 11.30 p.m. till 2 a.m. and was able to copy the name and number of every record put on during this period, reception being very clear and steady, with fair volume.

The "Radio Record" of November 11, 1927, reported reception of 5SW during the few days of November by Mr. J. Rait, Brooklyn; Mr. C. Liddell, Lyall Bay, and myself. The following week the "Record" published particulars about the Armistice Day celebrations—the first Empire broadcast. The service from Canterbury Cathedral was successfully re-broadcast by 3YA. In Wellington direct reception was not quite up to that standard. My log says that the service from the Cathedral was R5 in the early part, but increased to R7-8, while the organ recital from St. Mary le Bow was still a little better. After this the Director-General of the B.B.C. spoke to Australia and New Zealand. The editor of the "Radio Record," who was at my home during this broadcast, was able to take down nearly all of the speech, very little of which was not readable.

Reception generally on 24 metres was better at that time than later, when the wavelength was changed to 25.53 metres. Still, we have had some quite good and interesting items from Home, but are living in hopes that the new station will ensure a more reliable service.

7 Metre Tests by B.B.C.

A ONE kilowatt test transmitter is being constructed by the Marconi Company for the B.B.C. to use on rays within a radius of five or six miles.

Midget Wave Broadcasting.

THE Hotel Carlton at Amsterdam has installed an ultra shortwave transmitter. Tests are carried out every Saturday from midnight to 1 a.m., N.Z. summer time. The wavelength is 7 metres.

Norway—United States.

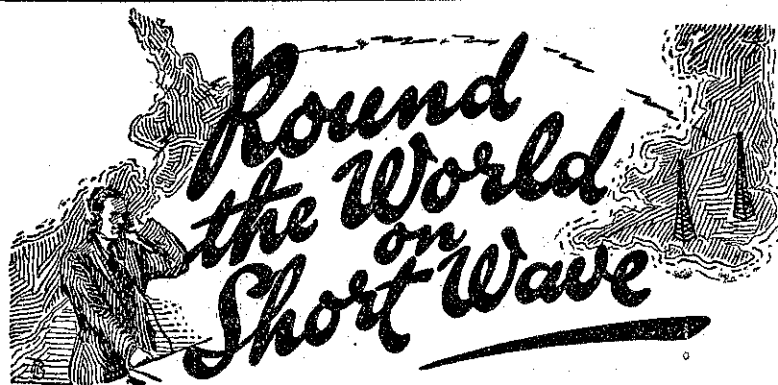
THE Norwegian authorities have established a direct shortwave telephony service with the United States. The transmitter is situated at Jeloy, near Stavanger, the wavelengths in use being 15

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 10 words, and twopence for every other word thereafter.

PILOT MIDGET six valve screen-grid. Absolutely new and in guaranteed perfect condition. Cost £28/10/-, Sacrifice £20/10/-. Freight paid. "Pilot", Box 1032, Wellington.

FOR SALE: Philips QP set and two Speakers; as new, £9/10/-. "Bar-gain," C/o "Radio Record."



THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs of general interest.

metres during the day and 30 metres during the night hours.

Belgian Shortwaves.

TWO wavelengths will be used by the new station at Brussels intended for communication with the Belgian Congo and South America. During the day the transmitter will work on 1562 metres with a power of 9 k.w.; at night the power will be 12 k.w. and the wavelength 29.04 metres.

YV2BC, Venezuela.

STATION YV2BC, Caracas, Venezuela, is broadcasting on 50 metres from 1 p.m. to 4 p.m. N.Z. summer time on Sundays, Tuesdays, Thursdays, Fridays and Saturdays. The station is rated at 100 watts. Reports will be welcomed by the owner-operator, Senor Rafael A. Cabrera, Spartado, 272, Caracas, Venezuela.

California-Hawaiian Islands.

DIXON, California, has been selected as the site for the 20 kilowatt short-wave telephony stations that will connect the Hawaiian Islands with the United States. The stations, operating between 14 and 44 metres, are scheduled to begin operations in January, 1932.

Log for Week Ended Nov. 7

TWO strange stations were heard during the week; both I took to be Russians. One was on about 41.8 metres at good volume, Friday morning, and the other on about 25.2 metres was heard Saturday night-Sunday morning. Further particulars appear in the "Log."

RV15, Siberia, 70.1 metres: Good volume every evening, but static bad again.

HVJ, Vatican City, 50.26 metres: Still R9 from 7 a.m. Their carrier is often on half an hour before this time.

RW59, Moscow, 50 metres: Friday was the best morning, R9 at 6.30 a.m., quality very good, going off to R8-4 by 7.30 a.m. Other mornings they were not quite so good.

W9XF, Chicago, 49.83 Metres.—Volume good at 6 p.m., but static bad every day.

ZL2ZX, Wellington, 49.5 Metres.—Mon., Thur., and Sat. evenings. On Saturday afternoon a special transmission was put on with the hopes of reaching America, etc.

W8XAL, Cincinnati, 49.5 Metres.—Another 24-hour test on November 1. Volume was good, R8 by 5.30 p.m., down to R6 at 10 p.m., but static was very bad. Saturday night they were R9 soon after midnight. Static again was bad.

W3XAL, Boundbrook, 49.18 Metres.—Thursday, 5.30 p.m., very gushy at R7. Saturday, 5 p.m., R8-9; better quality. Static bad.

F31CD, Saigon, 49 Metres.—Saturday, R9 from 11.30 p.m. with their usual native music. Static bad.

W8XK, Pittsburgh, 48.86 Metres.—Sunday, only R4 at 5.30 p.m. Interference bad.

W3XL, Boundbrook, 46.69 Metres.—Sunday, reaching R9 before 5 p.m., when Paul Whiteman and his orchestra were heard from the Marine Dining Room of the Edgewater Beach Hotel, Chicago.

REN, Moscow, 45.38 Metres.—Fairly good till soon after 6 a.m., when they get weak and gushy.

41.8 Metres (about).—Picked up at 6.40 a.m. on Friday morning, when talk was heard very clearly at R9. As it

DX'ers! Write for that verification on D.X. notepaper and avoid missing out important details. Takes a quarter of the time to write out, too. Obtainable from P.O. Box 1032, Wellington, in two-dozen lots (minimum order), price 1/6, or six dozen for 4/-, post free. Special paper for club members.

sounded like Russian, I went over to REN and RW59 to compare notes, and found similar talk on at REN. I checked this up several times with other talks and musical items and was satisfied that both stations were transmitting the same programme. No call was heard. The station went off the air some time between 7 and 7.30 a.m.

PLW, Java, 31.86 Metres.—Monday and Saturday, excellent at R9 after 10 p.m.

VK3ME, Melbourne, 31.55 Metres.—Tuesday, they were on for the Melbourne Cup; good volume, but 2ME was better. Saturday, excellent at R9, with one stage of audio at 11 p.m.

W2XAF, Schenectady, 31.48 metres: On Monday an "unemployment relief" programme was heard. All the artists gave their fees to the fund, the stations concerned gave their services free (it was a coast-to-coast network transmission). Appeals were made by prominent men, including William Green, president of the American Federation of Labour, who spoke at Chicago, and Mr. Owen E. Young at New York. There is not a national organisation, but each district is looking after their own unemployed. Volume at 3.30 p.m. was R8, increasing to R9 by 4.45 p.m. They signed off at 5.10 p.m. Saturday they were R7 at 4 p.m., when they signed off till "1.45 to-morrow for football description."

Zeese, Germany, 31.38 metres: At its best, Zeese is poor now, that is, after 6.30 a.m. Averages about R6 at 6.30 a.m., and is very weak by 7.30 a.m.

VK2ME, Sydney, 31.28 metres: The usual Sunday evening and Monday morning programmes came in well. On Tuesday they put over the Melbourne Cup, which came through very well, except for

the usual severe fading, but every word was readable at the worst of the fade.

G5SW, Chelmsford, 25.53 metres: Extra bad week for 5SW during the early morning. Several mornings not a sign of them. On Thursday they were R7 7.45 a.m., but rapid fade made talk unreadable.

12R0, Rome, 25.4 metres: Best in after 7.30 a.m., but not up to standard. The best last week was on Friday, at a.m., when they were excellent at R8-9.

W8XK, Pittsburgh, 25.25 metres: Just audible about 2.45 p.m. on Saturday at a short time. About R2.

FYA, Paris, 25.2 metres: Except Thursday and Saturday they were spoiled by a rapid fade. On the two days mentioned they were quite good at 8 a.m. about R3-9.

25.2 metres (about): Tuned in at p.m. on Saturday to what appeared to all Russian talk, very clear at R8. Tr. RV15 to see if it was the same, but music was on there at this time. At midnight they were R9, with an orchestra. Reception was excellent. The musical programme continued till 12.30 a.m., with a man announcer. They went off the air for a few moments at 12.30 a.m., to turn with a woman announcer, followed by more musical items. They were going strong at 1 a.m., with a little volume and slightly gushy. I thought heard the name "Khabarovsk" mentioned in the lady's announcement.

Short-Wave Club Note

I HAVE received a number of appreciative letters regarding the club monthly circular; also, many statements that the dx and s.w. loggings that are reported in the "Record" come in very handy for comparison both by members and non-members.

As I have been busy getting a little fresh air lately, the work has mounted up. Our last meeting was a quiet, home one. Messrs. Roy Clarke and G. Ki were busy solving members' troubles, a various circuits were discussed.

I was asked recently if I ever listen in on short waves now. I do occasionally, but not for long. However, when have listened, results have been satisfactory.

It is quite an advantage to try temporary aerials for short waves. By using different lengths and heights the experiments are very useful.

My address is still A. B. McDonald, Secretary, N.Z.S.W.C., 274 Cuba Street, Wellington, N.Z.

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S-O-S

TRAVEL IN COMFORT BY CAR

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NEW PLYMOUTH

GOOD JOBS FOR RADIO EXPERTS

The modern radio is a long way ahead of the simple sets that almost anyone could make, consequently, there is a great demand from Radio Manufacturers, Dealers, Shipping Companies, and the Government for MEN WHO KNOW. The I.C.S. RADIO COURSE was planned to meet present-day demands. We train you for REAL success in Radio. Write for illustrated literature and full particulars.

The International Correspondence Schools (N.Z.), Ltd.,

1822 WAKEFIELD ST., WELLINGTON

Pink and White.

WHILE it is unlikely that women will return to the dead-white powders of the Edwardians, the oyster shades introduced by a beauty specialist for wear with the new autumn purples and greens are very much whiter than any of the powders of previous seasons. Strong colours, like red, purple, green, and cornflower blue, demand that faces should not show a trace of tan, but have a pale matt surface, with coral pink colouring. This specialist makes her clients bite their lips until the blood rises to the surface before she gives them the correct lipstick. What eye-shadow the smart woman will choose this winter is to depend upon her health. When she is cheerful and full of vigour, a very soft grey-blue eye-shadow is to be very lightly traced indeed under the eyes. Brown eye-shadows should be reserved for the dull days of winter and whenever a woman is tired or depressed.

Quite Simple.

IF you wish to preserve a clear, transparent skin, soft and smooth and free from blemishes, you must be willing to make a few sacrifices in the matter of diet. In place of the early morning cup of tea take a tumbler of cold water. Your breakfast should include lettuce or fruit. Between breakfast and lunch you should drink a couple of glasses of water, and your lunch should include some uncooked green food, salad or fruit. Another glass of water should follow, and if you can manage it another two should follow during the afternoon and evening.

The Monogram Mode.

THE idea of having one's own monogram imprinted upon the back of playing cards will appeal to a large number of bridge hostesses. The initials are placed in the centre of the patterned back, and when done the cards become decidedly distinctive.

An Ardent Disciple.

TWENTY years ago everyone who moved in Anglo-Indian society knew the daughter of Admiral Sir Edmund Slade. She danced and played tennis and acted as hostess for her mother, one of the acknowledged leaders of English society. Forty found Miss Slade still fashionable and gracious, but openly less satisfied with a mem-sahib's life. Then she decided to visit Gandhi the Mahatma, whom his followers regard as the tenth and final incarnation of the god Vishnu. What happened at that first interview between the handsome, well-dressed woman and the little, skinny old man with deep-set eyes no one knows. Some words spoken in Gandhi's high-pitched squeaky voice decided Miss Slade to renounce her world and become the humble follower of a man whom all her friends regarded either as a humbug or a dangerous fanatic. Ever since that first meeting, the once handsome Miss Slade, who had been the cynosure of every subaltern's eyes, has lived in a mud hut with hard beaten mud floor, wearing a home-spun native frock of white cloth, and eating, between her frequent fasts, nothing but milk, curds, fruit and native bread. Her head is shaved. She rises every morning at daybreak, and as Gandhi's devoted body servant attends to his every need. Every day, wherever he may happen to be, Gandhi gives an audience. First Miss Slade appears from her hut, places a cushion for him,



and then waits with the deepest humility, while he squats upon it and discourses. Then, as Gandhi rises, she takes up the cushion and the sandals which he has cast aside and, having knelt before him, carries them reverently behind her loin-clad master as he goes to his hut.

Short and Sweet!

THE brief jacket of fur or cloth cut to hug the waist or hang slightly lower is among the economy styles. They can be worn with or without coats, according to the weather chart, and make for an elimination in fur

Home Made "Brew"

WITH the approach of the Christmas season comes the demand for good recipes for home-made "brew." Here are a few tried recipes that can be recommended:—

Hop Beer

PUT a handful of hops—about 4 oz.—in an oatmeal bag, and tie securely. Boil in a large saucepan for one hour. Put six pounds of white sugar in a benzine tin half filled with water. Boil for fifteen minutes, then strain the hop-water into the tin till full. Set aside and when just warm add a tablespoon of compressed yeast. When specks of froth appear on top, bottle and cork well. Two dozen beer bottles will be needed. This beer is made stronger by boiling a handful of wheat or barley with the hops. More hops will make it bitter.

Home-made Stout

USE a quarter of a pound of hops, and two pounds of black malt. Tie securely in a bag and boil for one hour in a kerosene tin of water. Put in six cups of sugar and four tablespoons of Wilson's malt extract. Add a cup of yeast when lukewarm. Skim twice daily for four days, then bottle.

Lemon Hop Beer

TWO ounces of hops, one tablespoon of ground ginger, five pints of water, the rind and juice of four good lemons. Put hops and ginger in a bag, and boil in the water for one hour. Strain this on to five cups of sugar, add eight pints of boiling water and stir well. Let stand all night, then bottle.

Home-Brew

Ingredients required: Wilson's Amber Maltego (3½lb.), Morton's isinglass (1 packet), Nelson hops (½lb.), sugar (7lb.), water (9 gallons), one bottle of good beer.

Method: Fill copper with 9 gallons of water, and bring to the boil. Have ready two petrol tins in which to dissolve sugar and malt. Use boiling water from copper, and when thoroughly dissolved, return to copper, add hops securely tied in bag, and boil all together for three-quarters of an hour. Lift out hops, and leave beer in copper till cool. Then add the starter (one bottle of beer), and stir well. Pour into the petrol tins and cover.

Hop Beer

FILL a benzine tin three parts with water. Put one-third of half a pound of hops and three-penny-worth of whole ginger into a bag and tie tightly. Add to water and bring to boiling point. Simmer for one and a half hours. Take off stove, and add four pounds of brewer's crystals. When tepid add three tablespoons of yeast. Stir and skim. Let stand for four days, then add one dessertspoonful of melted isinglass to clear the beer. Bottle when no further scum rises.

Home-made Hop Beer

TAKE a small handful of hops, and boil in a quart of water, to which add 1 tablespoon of ground ginger. Boil for 20 minutes, then strain into a receptacle that will hold four gallons. Into this liquid stir 5 cups of sugar till dissolved. Fill up to make 4 gallons with cold water. Mix 1oz. of compressed yeast in a cup of lukewarm water and add. Cover and leave for 24 hours, skimming occasionally. Bottle and cork tightly.

Lager Beer Cup

Ingredients: 1 bottle of lager beer, ½ pint water, 1 glass sherry, juice of 2 lemons, thinly peeled rind of one lemon, 1 tablespoon sugar, a few leaves of fresh mint, pinch of grated nutmeg, crushed ice.

Method: Put thin strips of lemon rind into a jug, add water, sherry, lemon-juice, sugar, mint and nutmeg; cover and let liquid stand for 20 minutes. Strain into a glass jug, add a few pieces of ice and the beer, then serve.

trimmings on overcoats. These will be one of the smart youthful styles this season with the lighter type of flat furs—galliac, shaved lamb, caracul, poulain, and sometimes astrakhan. Astrakhan, however, is invariably used for a solo jacket made in black to wear with black or brightly-coloured lainage frocks. Some may convey a deep fluted basque line, but the youthful trend is the fitted one belted above a very short basque.

Kill Wood Beetles This Way.

WHEN the small insect known as the wood beetle has made an appearance in your furniture, get some turpentine and pour into the holes. Leave this all night, longer if possible, and continue adding turpentine for about a week. Then fill up the holes with the following mixture while it is warm: Three parts of beeswax, part resin, and sufficient brown or raw umber to tone with the wood.

Emancipated!

ROCKFORD COLLEGE, Illinois, has awarded a journalism scholarship to Turkey's first newspaper woman, who is also a Princess—the Princess Esma, great-granddaughter of the famous Sultan Abdel Kader of Algeria. Though an Algerian, the Princess may be claimed by Turkey as her first woman journalist because she was educated at the American Women's College in Stamboul, and started her journalistic career on "L'Akham," a Stamboul evening paper published in both Turkish and French. The Princess is not only a journalist, but a linguist and a poetess; she writes her articles and poems as easily in French as in Turkish, as well in English as in French. She is another example of how much capacity and talent was stifled by the vacant life of the harem, smothered in the stifling folds of the veils of generation after generation of Moslem women—till this generation was given, and took with both hands, the chance to cease being odalisques, the chance to live a full life.

For Budding Champions.

MANY and gay are the eye shades which have made an appearance on the tennis court this year, and the all-white articles have gone quite out of favour. The most popular shades have brims of rough straw, obtainable in a variety of pastel shades to tone with the wearer's accessories.

Lace-Trimmed Once More.

MANY of the new evening gowns with fitted bodices are best worn over a very natural looking figure, and the more solid foundation garment worn in the day-time is discarded. For some form of light support, such as a cup-form brassiere which affords the necessary comfort and support without restraint.

Lingerie has become more elaborate with the return of frills and longer skirts. The new chemises and camiknicks are either cut with the new princess line or fitted into bands which keep them in position. Lace has returned to favour and is being lavishly used on the newest undies. There is a new shade of light mole which looks especially well with the peach-coloured lingerie sets which are so becoming.

Crepe-de-chine and triple ninon are favourite materials.

For wearing under the new lightweight tweeds—silk slips of much the same tones as day-time stockings are a good choice—and for these, artificial silks are serviceable and smart.

... With ... BOOK and VERSE

By "John O'Dreams"

Jottings

IN "The Road" Mr. Warwick Deeping develops his theme after his own well-known fashion. Very ingenious and convincing are the gardener with his sensitive spirit; the proud, shy girl who plays a large part in his life, her energetic mother who makes so gallant a stand to keep the Mill House tea gardens going, and her sister, the downright Rhoda. The great road that winds its way past their doors is an integral part of their lives, and finally the clattering cars that pass up and down spell tragedy for Rachel and the life she might have lived, for an accident leaves her maimed and helpless. Mr. Deeping paints the interwoven reactions of the spiritual and material factors of his tale, which will add to his already established literary reputation.

MR. ARTHUR LAMETON is a well-known collator of notable events in the history of crime, and his latest effort in this direction entitled "Causes Celebre" is an enthralling successor to "Thou Shalt Do No Murder," for those interested in that particular aspect of the psychology of the race. In the selection made by the chronicler, there is a wealth of detail and a convincing method of recounting the case for and against the protagonists that fascinate attention. The breaking of the moral code is not confined to what is known as the lower class, and in Mr. Lambton's little list figure historical personages who loomed large in the society of their day: the Marquise de Boinvilliers, Count Konigsmark, the Duc du Choiseul, and the Duchess of Kingston. Another section gives the history of many unsolvable crimes, among them the Great Coram Street and Burton Crescent mysteries. This is a book that will prove singularly appealing to those interested—and they are many—in the seamier side of life.

THE late Sir Hall Caine has left material for a Life of Christ. To this he devoted many years of his long life, and has left innumerable manuscripts and notes in relation to what he considered would be his magnum opus. Unfortunately his life ended before he put his collated data into book form, and this work has been undertaken by representatives of the late writer, who in his lifetime devoted a never-faltering industry to the great biography in which his heart was bound up. Study of Biblical history was the great enthusiasm of the mind and heart of the accomplished novelist, and it may be taken for granted that all classes of thinkers, be they inside or outside the pale of the church, will be keenly interested in the book when eventually it is published.

Prize Poem Competition

THE prize of half a guinea in the current competition is awarded to K.M.W. for the poem entitled "Age," which hymns triumphant faith in fitting metrical form. Selected for special mention is M.F.P.'s "Picture of a Dairy," a poem of distinction by reason of apparent simplicity of treatment and an impression of pellucid shadow and shine.

"Haughton Bay" is held for further consideration.

"Elegy": Good work, with admirable sureness of touch, indicating flair of its author for poetry of the elegaic variety. We thank our new contributor for pleasant accompanying note.

"Smilax": The spiritual conception and skilful treatment of "Courage" appeal, and we like the lifting song to happiness, and sensitive response to beauty apparent in paean to our lovely land. Thanks for suggestion regarding second sheaf; we will avail ourselves of this kind permission, and welcome so intelligent a newcomer.

"Anphidrite": Modern impressionistic treatment of a vampiric theme.

O.E.H.: Thanks for all you say—interesting in the extreme. We'd like to read the "Homeland" poem some day.

"Dreamer's Quest" is instinct with the charm one finds in the work of its author.

L.L. sends a bird song, and a sweet one. Sorry space limitations are so stringent.

"Wild Rose" sends gentle lay of the bushland, which breathes fragrance of untarnished youth.

S.E.F.J., an optimist, sends several high-spirited contributions, of which "Experience" is the worst.

"Tyro" records delight in study of poesy, with which we are at one with him.

"At Dusk" is somewhat faulty in composition, but reveals sensitive awareness to beauty.

"Lucibel Lee": We like best your Old Garden. Do you by chance know Swinburne's lovely Forsaken Garden?

Comments from correspondents:

"I liked the last winning poem extremely ('Fairy Tales'). It did not seem like the work of an amateur."

"In reading over the poems of the last two prize-winners, I noted how happily they kept breadth and humanness in their poetry, as well as music—a very hard thing to do."

Age

Lord, behold my candles three
Flaming with my love for Thee.
Now my race is nearly run
Bless Thee for Thy benison!
I am old who once was young,
Now my song is nearly sung.
I have reaped, who once did sow,
Now my feet unfaltering go.

Thou hast given guerdons three,
Praise Thee for their verity!
As my years have greater grown
These things have I surely known.

Broken dreams will stir again
When the birds sing after rain.
Broken souls will be reborn
In the blue of a new morn.
Broken hearts heal in the sun.
This know I, whose day is done.
Lord, behold my candles three,
Glory, glory be to Thee!

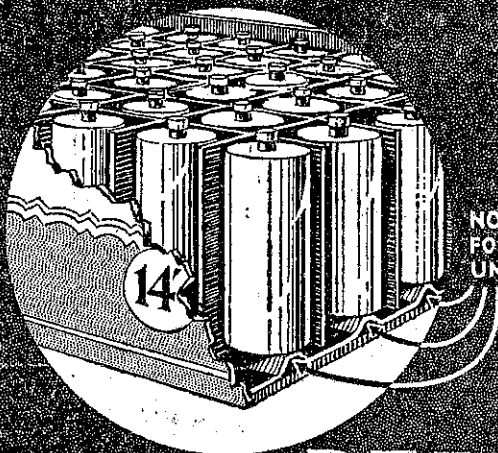
—K.M.W.

MISS AGATHA CHRISTIE continues her industrious and thrilling output of ingeniously concocted tales of terror. Her latest contribution to the literature of crime is entitled "The Sittaford Mystery," an absorbing account of a mysterious killing. In all the circle surrounding the unfortunate naval officer who is the victim the most unlikely person proves to be the criminal, and the extremely unexpected denouement is related in quite the best melodramatic manner of a practised sensationalist.

MR. PERCY BROEMEL, who is evidently a great reader of the penny papers, is a firm believer in the dictum of some editor that "woman is always news." He seems to have been dipping into accounts of woman in her various activities for a long time past, and the result is "Ageless Woman," which, with its index, would be excessively useful to the writers of half-column "woman stories" in the popular Press. If Mr. Broemel's book appears to have no particular plan, his aim at any rate is all-embracing. Starting with a dissertation on Eve, he wanders through the centuries, retelling a story here, an anecdote there, of some queen, great lady, noteworthy or notorious, of blue-stockings and singers, and the English actresses of the 17th and 18th centuries.

A DOMESTIC tyrant's decline and fall is the theme of a remarkably fine first novel, in which Dr. A. J. Cronin, who has just retired from practice, displays a mastery of English prose and an ease of narration which will surprise those who have met him only in the pages of his official report on first aid in coal mines. The novel is "Hatter's Castle."

James Brodie is the hatter, and the castle is the eccentric and pretentious house that he builds for himself in a Scottish provincial town in the 'seventies. He is a man of huge body and infinitesimal mind, having room in it for only one idea, his own importance. Consequently he becomes a domestic tyrant of terrifying brutality, sacrificing his wife, his mother, and his two daughters to his own vanity. The collapse, first financial and moral, of this colossal egotism is unfolded by Dr. Cronin with a detail that calls for surprisingly wide observation of industrial Scotland and his experience of life. The fearful end, however, who committed the tolerable slave-vanity, rather than has failed to do that is his aim of the story.



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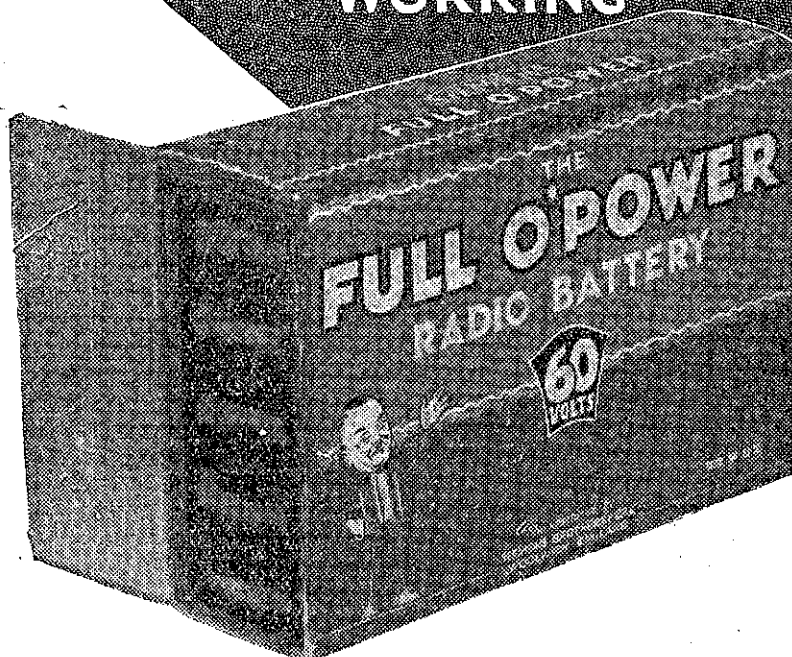


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