

PUBLISHED WEEKLY

THE RADIO RECORD

AND

HOME JOURNAL

Vol. V., No. 28.

WELLINGTON, FRIDAY, JANUARY 22, 1932.

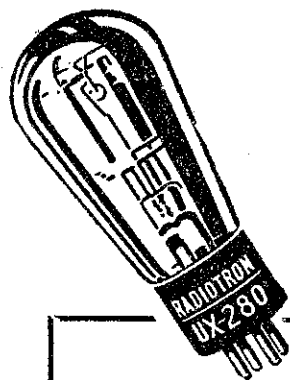
Price, 3d.



RADIOTRON

FOR BETTER RADIO
RECEPTION

*The World's Most
Sensitive Valve*



Obtainable from all
Radio Dealers.

Look for the RCA
trade-mark on the
red and black
carton.

Amalgamated Wireless
(Asia) Ltd.

P.O. BOX 830, WELLINGTON.

Accepted as "standard" throughout the
radio world. Built into the sets of 17
leading manufacturers, and recom-
mended by them for replacement.
Used by over 200 broadcasting
stations. Best for YOUR set,
too, whatever its age or make.
Ask your dealer for RCA
Radiotrons to-day.

A FINE gesture on the part of American amateur transmitters to show their eagerness to maintain their exact wavelengths took the form of a national frequency-measuring contest which was held toward the end of last year. At a pre-arranged time every amateur station in America closed down with the exception of 16 transmitters specially chosen by the Radio Relay League. These transmitters for fifteen-minute periods, using special frequency control apparatus, and it was the aim of each contestant to attain the highest degree of accuracy in measuring the respective frequencies of the stations transmitting. Results of the contest are not yet to hand.

ITALIAN broadcasting authorities are determined to create a school of Italian drama, and to this end famous Italian dramatists, including Pirandello and Marinetti, have been asked to write for the microphone. These dramatists have promised plays that shall be interesting and original, and these are to be the foundation of the new school.

IT is estimated that during the first six months of last year American broadcasting companies received the tremendous sum of £2,400,000 for broadcasting advertising.



DAVID SARNOFF, president of the National Broadcasting Company of America, when celebrating his 25 years' connection with radio at a luncheon, remarked: "No one need fear that opportunities do not exist today. The next quarter-century will see more happen and offer more opportunities than have the past 25 years. There is much to be done in the radio and television field."

THE police authorities of Paris are at present conducting experiments on wavelengths from 1200 to 1400 metres, using a power of 2 k.w. It is intended ultimately to equip all large towns in France with a similar station, which will be also fitted up with the necessary apparatus for the transmission of photographs and documents.

A REPORT recently issued by the United States census bureau gives the number of sets in operation in America on April 1, 1931, as 12,563,000. The Columbia Broadcasting System estimates that about 4,750,000 sets have been sold since that time, thus bringing the approximate grand total up to something over 17,025,000.

THE radio telephone system linking Hawaii and the United States, which was inaugurated on January 1, will probably be extended to the Philippines and later to Japan and other

NEW DX NOTEPAPER.

Our DX notepaper has been completely re-designed, and in its new and improved form, is certain to be even more acceptable to dxers than the older type. More space has been allowed for particulars such as weather conditions, while on completion the form may be folded up, gummed with a dx sticker, and dispatched without the added expense of envelopes. The price remains the same, 1/6 per 2-doz. lots (min. order) post free, 4/- per 6-doz. lots post free. Send your report on our DX notepaper, and make sure of a reply.

points in the Far East. Messages from the United States to Australia, Java and other points are transmitted now over the round-about circuit across Europe.

ONE of the leading British radio firms has produced a short-wave transmitter capable of propagating waves which will severely burn anyone standing near the aerial. It is reported that the radiation is so powerful that a coil of wire of a certain length, held near the transmitter, emits a long flame at each end. This effect is due to both the extremely short wavelength used—5 metres—and the high power of 20 k.w. Experiments are being made with this new transmitter with a view to employing it for the B.B.C.'s proposed scheme of localised broadcasting.

THE Belgian Postal authorities have copied the "pirate hunting" methods adopted in England, and it is reported that in less than one month the sight of the special gendarmerie appointed to track unlicensed listeners frightened more than 120,000 into buying licenses.

STATISTICS show that, whereas in 1929 there existed in Europe only one 50 k.w. transmitter, by 1932 there will be 27 super-stations of even greater energy on the air. The average output will work out at 1 k.w. as against 3 k.w. when the original channels were allotted to European countries.

FEATURES of the programmes from Leningrad and Moscow stations are operatic and dramatic performances, relayed from a large studio situated in the Central Telegraph Office of the Soviet capital. The general public is admitted free to these broadcasts, which are carried out in every way as if intended for theatrical performances. An audience of over one thousand persons can be accommodated in the studio, as well as an orchestra and a choir of some 450 musicians and singers.

NOW that the B.B.C. has permanently included television in its programmes, the number of television subscribers is increasing rapidly. At the present, roughly 8000 listeners possess television apparatus. John L. Baird, the inventor of the Baird system of television, recently arrived in America, where he will immediately set about organising the American branch of the Baird Company. He expects that they will shortly be manufacturing sets at the rate of 20,000 a week, or 1,000,000 a year, at a cost of approximately £7 per set, far below anything now offered on the American market.

RADIO has so often been blamed for bad weather that it comes as a pleasant change to hear of someone who believes that it can be responsible, if necessary, for eternal summer. The optimist is a Frenchman, Professor Ledarp, who, according to the Paris Press, is on the verge of a discovery which will show that Hertizian waves, if properly controlled, can produce "very fine days."

EIGHT studios, all underground, are contained in the sumptuous "Palace of Broadcasting," which was opened in Rome at the beginning of last month. One of these studios is the size of a large theatre and will be used exclusively for grand opera, which is regularly featured in the Italian programmes. The three stories of the Palace which rise above the street contain the administrative offices and artists' rooms. The Italian broadcasting authorities are evidently of the opinion that the best sound insulating medium is the earth itself.

ONE of Britain's leading radio firms recently secured a contract for the supply of £500,000 worth of radio apparatus for the Roumanian Army.

AT the surgical hospital attached to the University at Milan, loudspeakers are utilised for the purpose of broadcasting lectures to students direct from the operating theatre. While carrying out delicate operations, surgeons and professors can in this manner provide a running commentary for the benefit of the students separated from the theatre by a glass partition.

BUILDING permits for the first three units of the Radio City to be erected in the heart of Manhattan, N.Y., have been issued, several rules being waived in order to speed up a project which will provide employment for several thousand workers. The units for which the permits have been issued are a 66-story office building, which forms the centre of the scheme, the International Music Hall, and a talkie picture theatre, which is to have seating accommodation for 5000.



SPECIAL REQUIREMENTS

D.X. PAPER

Good quality communication paper, specially worded and ruled for the use of members. 1/6 for a minimum of two dozen sheets, and 8d. a dozen for six dozen or more. Paper for non-members without the Club Badge is available at the same price.

ENVELOPES

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.

D.X. STICKERS

Exact replicas of the Club Badge done in two colours on gummed paper. Will stick to anything. Attach them to your letters, envelopes, etc. Price: 3/- a hundred.

From any Dealer or Direct

The New Zealand

Radio Record

P.O. BOX, 1032, WELLINGTON.

Joyspreaders Unlimited

How Radio Helped the Smith Family to Provide a Brighter Christmas for Four Thousand People

"WE want 200 'goodfellows' of Wellington to provide cheer for 200 families that are in desperate need. Do not send us money; send us your name and we shall send you the name and address of a deserving case for which you can provide Christmas cheer. You will attend to the case personally and see where your money or gifts actually go. Just send your name to Mr. Smith, 22W, Wellington."

This appeal was broadcast by Station 22W, Wellington, only ten days before Christmas. Thus the great Smith family movement was launched and immediately set about its work of alleviating the distress in the city. The man who brought the idea to Wellington, though a well-known business man, prefers to remain behind the soubriquet of Mr. Smith. Recently, when in Sydney, he saw parcels being distributed to the poor, and, becoming interested, made further inquiries. He learned that the Smith family has been flourishing there for eight years and has grown into a huge organisation for succouring families in distress. People who volunteer their services take under their personal care one or perhaps more deserving cases—usually children—and tend for them, providing those extras that mean all the difference between life and a pitiful existence, or perhaps even death.

The success of the scheme can be set down largely to personal contact and the sinking of the benefactor's identity behind the name of the Smith family. After his return to Wellington, Mr. Smith, who was convinced that some such organisation should be operating in New Zealand, happened to be listening to 22W making an appeal for 200 shillings to help the Mayor's fund. Immediately he made an offer to provide £200 if his scheme could be put into operation.

It was. An appeal for "goodfellows" and contributions—not money—was made per medium of Station 22W, and was supported by

the Press. So magnificent was the response that within a few days the proposed assistance for 200 families was fully assured and offers of assistance were still pouring in. Furthermore, cash was coming to light in a remarkable way,

despite the fact that it was not asked for—but it was nevertheless very useful. The idea of Christmas hampers for families other than those which could be personally succoured occurred—and the result was that on Christmas morning 471 families had the unexpected joy of Christmas cheer. In those hampers were all the essentials of a Christmas—including toys for the children and cigarettes for father.

In each hamper was a very simple Christmas greeting, printed on a card supplied by a printer Smith. "Wishing you a merry Xmas and brighter days for 1932, from the Smith Family Joyspreaders (N.Z.), Unlimited." And at the bottom, "We hope it will be your good fortune to help others next Xmas."

The size of the hampers was made possible only by the co-operation of those from whom the goods were purchased, and each hamper represented goods that, were they purchased through the ordinary channels, would have cost over £2.

Over £560 was received, mostly in small amounts, toward the hampers. Many of the donations were obviously made at a sacrifice. Children were among the most willing givers, and many gifts of toys and money-boxes, containing as much as a year's savings, were handed in to serve as a reminder to Santa Claus that the true spirit of Christmas still exists.

Money was sent through the post without covering letter, name or address, and as much as £4 came in one letter in this manner.

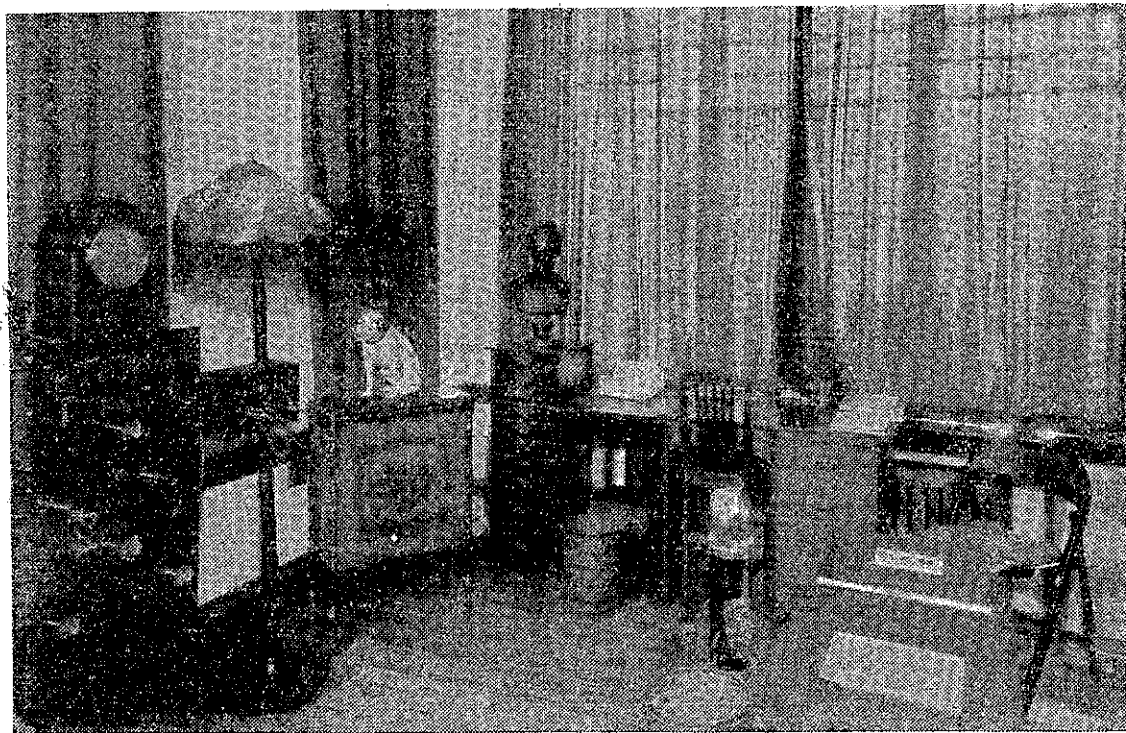
SO great was the response that it was found that even after Christmas cheer had been provided for nearly four thousand persons, there was still money to spare, and orders for meat and groceries have been and are still being issued. When investigation proves that a family is in need of essentials, the orders have been given through the Society for the Protection of Women and Children, whose indefatigable secretary personally investigates every case brought to her notice.

One of the most pleasing features of the movement has been the large number of letters received from the recipients of assistance. The obvious sincerity of these letters and their tragic (Concluded on page 2)

A Win for the All Blacks

AN interesting incident occurred when the Sydney Smiths, per medium of station 2BL, challenged the combined Melbourne and New Zealand Smiths to provide for more families than they would. The contest was jokingly referred to as being one between the Waratahs and the All Blacks, the 2BL announcer remarking that while on the many occasions the two had met, the All Blacks had usually been the victors, this contest would fully test their mettle. No more was heard of the challenge until Christmas, when the Wellington Smiths sent over a statement of the number of families attended.

As we go to press, we learn that a cable has been received by Mr. Smith, of Wellington, to the effect that once again the All Blacks have beaten the Waratahs!



22W's main studio, from whence the appeals to "goodfellows" were broadcast. In the right foreground may be seen the microphone, while on the top of the monitor panel on the left is the studio clock whose silvery chimes are so familiar to listeners.

Stories afford a definite proof that, had it not been for the Smith family there would have been many empty cupboards in Wellington on Christmas Day.

Read some of the typical cases:—

"It was a great pleasure to see the children opening their stockings and lift out each toy, and to see their little hearts fill with joy. To see them would have done all the Smith family good. It will be the first good day's meal we have had for many months."

"We were at our wits' end to know what we were going to have for Christmas, and it seems as though one of your family heard our wish for a good Christmas dinner. We thank you."

"We think it was very thoughtful of you including the smokes for Pop. He usually gets 'nothing at all,' as the song goes."

"As my husband is on relief work you may know how worried I was, especially as we are in arrears with the rent, which I try not to worry about at Christmas. We are pleased to say we have not always been in Poverty Street, and when we lived in Sunshine Road we knew the joy of giving. Our best wish to you is that you will have the same joy out of giving as we did at receiving in our hour of need."

"If I could only get work—I tramp about every day—but no good. During Christmas week I was on relief works in the country, and last week I was laid aside with a recurrence of war gas."

Each "Goodfellow" was asked to make a report on the case he had attended, and many of these unfold a grim story of poverty and distress.

"She is employed cleaning offices from 4 to 7 a.m., and after paying her rent has 9/6 a week to live on. She is a hard-working woman, and is anxious to get further work at cleaning, and scrubbing and washing."

"They were now penniless and without food for the morrow. Smith's help was very gratefully accepted in the spirit in which it was offered."

"The money earned by the husband, a relief worker, and the few shillings earned by the daughter, aged seventeen, had to feed ten mouths, including a baby of six months."

"It is evident that there are still plenty of people about who do give a thought to the other fellow. It merely needs the galvanic spark to set it going."

"The room into which we were invited was barely furnished, and an atmosphere of poverty and bleakness hung over it. Everything was clean and tidy, and I am sure the family needs all the help that can be given."

"I called upon the family nominated and provided them with a Christmas dinner. A side of lamb, toys, and a month's supply of groceries. There were eight in the family."

"The house was properly clean, the garden exceptionally tidy, and the kiddies were all bright, and appeared to be well fed, I fear by the personal sacrifice of the mother. I did not see the husband, but somehow gained the impression that the mother was carrying the bulk of the load. Altogether they were ordinary decent people, who are having a bad spin."

The Future.

ALTHOUGH the Smith Family was brought into being solely for the purpose of providing Christmas cheer, the valuable experience gained by those associated with the movement, and its value to any community, as proved by the results of its eight years' activities in Australia, lead inevitably

"Breaking the Ice" Bright Comedy from 2YA

NEXT Thursday, January 21, a bright one-act comedy, "Breaking the Ice," by Thomas, will be produced from 2YA by Clement May, the noted elocutionist. There are only two parts. Captain Selby will be played by Clement May himself, and Miss Margaret Martin, of Martin Towers, by Ragnhilde Mee. The story runs as follows:—

The lady is running away from home to avoid meeting a would-be suitor whom she has never seen, and to whom her father has promised her hand. She is on her way to her grandmother's when she is overtaken by a snowstorm and she is forced to seek shelter at a wayside inn. There is only one sitting-room and this she is compelled to share with an unknown man, though they are separated by a screen dividing the room. She naturally wonders what her neighbour is like, and presuming for no special reason that he must be old, she draws his portrait on the screen with some chalk she finds at hand. He also is rather curious as to the lady's identity, and he would be only too pleased to make her acquaintance, it only because the fireplace is on her side of the room.

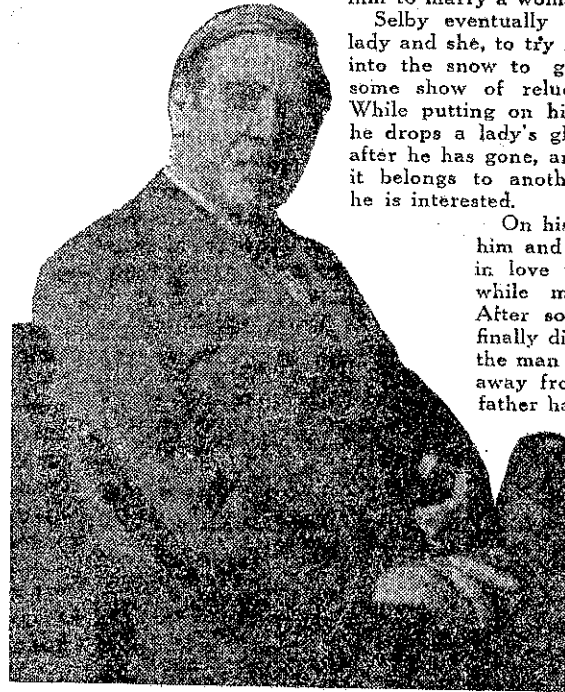
Being at a loss to find something to do, Selby admires himself in a mirror and discourses on his own beauty. The lady overhears his eulogy and becomes both interested and amused. She finally mounts a chair and looks over the screen, breaking into a fit of laughter when she sees what he is actually doing. He is naturally very embarrassed. Finally the screen is removed and the two occupy the warmer portion of the room.

She tells the story of how she came to be on the road, and how the storm forced her to seek shelter at the inn. She is surprised also to find that the gentleman is in exactly the same position, for his people also want him to marry a woman he has never seen.

Selby eventually makes love to the lady and she, to try him, suggests he goes into the snow to gather holly. After some show of reluctance he consents. While putting on his overcoat, however, he drops a lady's glove, which she finds after he has gone, and she concludes that it belongs to another woman in whom he is interested.

On his return she confronts him and accuses him of being in love with someone else while making love to her. After some explanation she finally discovers he is actually the man she has been running away from and to whom her father has promised her hand.

They finally agree that it would be well for them to drive to Martin Towers and obtain absolution from their parents—a very satisfying solution to a charming piece of comedy work.



Clement May

to the conclusion that the movement should be organised on a permanent basis.

The "Smith Family," it is suggested, shall act as a clearing-house for the various relief organisations and charitable societies. These societies will retain their present identity and carry on the good work being done by them, but all relief work will be co-ordinated and carried on through the central office of the Smith Family. This will obviate overlapping of activities, and will ensure that accurate records are kept of all cases of distress and full investigation made of all cases reported, or applying for assistance. The Smith Family, being a permanent or-

ganisation, and having the benefit of the Australian organisation's experience, will, subject to approval, initiate various activities from time to time.

With a view to co-ordinating the various relief activities in and around Wellington, it is proposed to invite representatives of the various relief organisations to attend a conference at an early date, when detailed proposals will be placed before them.

It is proposed to appoint a full-time secretary to attend to the organisation and carrying-on of the movement, and to install a comprehensive system to ensure an adequate check on all cases dealt with.

Sub-sections of the movement will include the following auxiliaries:—

Medical Section.—Honorary physician who will attend to families requiring medical or surgical treatment. Where necessary, the Smith Family will provide necessary treatment.

Dental Section.—Honorary dentists will be enrolled, who will attend to cases requiring dental treatment, such treatment being provided by the Smith Family.

Optical Section.—Where glasses or treatment are recommended by the medical section, honorary opticians will supply these to the order of the Smith Family.

Legal Section.—Experience has shown that in many cases deserving people have been victimised by unscrupulous money-lenders, and certain hire-purchase trading concerns, owing to their inability to pay for legal advice and protection. Where cases of this nature are brought before the Smith Family, honorary solicitors will advise on the matter and the Family will take the necessary action to ensure that no deserving family is robbed of its rights.

Clothing Section.—This section will attend to the collection of clothing, etc., and arrangements will be made for its distribution to necessitous families.

Transport Section.—Honorary carriers in various districts will be enrolled who will collect or deliver goods.

"Young Smiths" Section.—Boy Scouts and children will be enrolled in a special "Young Smiths" organisation, their function being to assist poor children in various ways outlined by the Smith Family.

A special scheme is being developed to assist in finding employment for men, women, boys and girls.

Those who have been associated with the Smith Family in its work to date have expressed their willingness to continue their assistance and co-operation, and "Mr. Smith," who has had actual experience of the movement in Australia, is prepared to carry on in an honorary and supervising capacity if the movement is placed on a permanent basis.

Radio Jottings

CLEMENT MAY, elocutionist and

Dickensian actor, has been engaged to present a programme at 2YA on Saturday, February 6, marking the anniversary of the birth of the famous author. Scenes from "Tale of Two Cities," "Oliver Twist," and "The Old Curiosity Shop" will be presented under the direction of Mr. May, who will also portray the characters of Uriah Heep, Daniel Peggotty, Wilkins Micawber, and Nell's Grandfather.

MRS. JOHN HASTINGS was introduced to 2YA listeners last Tuesday evening, January 19, when she presented musical sketches. This talented entertainer, as Miss Lynda Murphy, was a very popular performer on the amateur stage in Auckland, and she will be an acquisition to the roll of radio performers in Wellington.

Famous Duet from "AIDA"

featured on

2YA Operatic Programme

On Monday, January 25, a programme of operatic excerpts will be presented from 2YA, under the direction of Signor Lucien Cesaroni, the celebrated operatic bass. A feature of this entertainment will be the presentation of the famous duet from the third act of Verdi's "Aida."

THE above concert will be an outstanding one, featuring as it will many of the gems of classical music. Associated with Cesaroni will be Signora Bulmas, the Italian prima donna and dramatic operatic soprano. She is an associate artist of the Cesaroni operatic trio, and has a distinguished reputation in Italy and elsewhere.

A native of Rome, she has been trained under the famous maestro,

Cesare Ferrarelli, and has appeared at the National Opera, Rome, as Michaela in Bizet's opera, "Carmen," receiving from discriminating critics in that city numerous eulogies and praiseworthy comments. Her voice, ranging over two octaves, is described as possessing a rare beauty and range of colour, and warmth indispensable for a first-class dramatic soprano. The signora has sung in the following grand operas:—"Manon," "La Boheme," "Tosca," "Madame Butterfly," "Aida," "Pagliacci," "Cavalleria Rusticana," "Faust," "Mephistopheles," "La Traviata," and "Force of Destiny." At a recent operatic performance in Sydney under the distinguished Russian musician, Vinogradoff, the signora sung the title role in Verdi's spectacular "Aida" with great success. She, with Signor Cesaroni as Amonasro, will sing at 2YA on Monday, January 25, in the great duet from "Aida," Act III. She will also sing the well-known prayer of "Tosca," and they will be associated in several other duets.

Also featuring on the programme will be Mary Cooley, the brilliant dramatist, who has previously been heard from 2YA, and as a result has an enviable reputation as an

entertainer. Listeners will remember her performance in "Joan of Arc" and in "The Lady and the Tiger." She will be heard to-night in an O. Henry story.



Signora Bulmas as Lucia in Donizetti's opera, "Lucia di Lammermoor."

* * * *

The opera, "Aida," from which comes the duet featured on Cesaroni's programme, is one of Verdi's most successful works. He was almost 60 when it was written, and at the time was about to retire.

The Viceroy of Egypt was to open the new Grand Opera House in Cairo and wanted a new opera for its dedication. Verdi seemed the logical composer to write it. A work dealing with the past grandeur of Egypt was to be the subject to which Verdi's genius seemed specially fitted. Verdi, at first reluctant to prepare the opera, soon became interested in it, and when it was completed he realised that it would be the greatest work of his career. He little dreamed that 16 years later he was to bring forth an even greater one—"Falstaff."

The opera was successful from the first. It lacked none of the composer's earlier fire, but it was more mature in style and more convincing in dramatic power. Its vivid plot, its golden pageantry, its richness of melody and harmony, and of orchestral scoring marked it not simply as one of the best of Verdi's works, but as one of the greatest of all times. And years have rather increased than diminished this reputation. The music is bold and romantic, expressive of vanity, pride, anger, jealousy and terror; of beauty, mystery and ritual.

THE opera is in four acts, and in the opening scene Rhadames, Captain of the Guard of the King of Egypt, learns that the Ethiopians are about to rise and that the sacred Isis, the omnipotent goddess of his people, has chosen a certain brave young warrior to command the army to be sent against them. Rhadames dreams not only of war, but also of his victorious return to his beloved Aida, a slave captured from the very people he proposes to attack. His musings are broken by Amneris, the King's daughter, a woman whose demure aspect conceals a passionate, highly-charged nature. Aida approaches and Amneris, her wits quickened by jealousy, realises that she, a royal princess of Egypt, is being ignored for a foreign-born slave.

A messenger enters bringing the news that the Ethiopian invasion is an accomplished fact, and that the enemy attack under Amonasro (father of Aida). Amid excitement Rhadames is appointed leader. At the end of Act I, Aida is left alone. She blames herself for the words of encouragement she has given the (Concluded on page 23.)



Signor Lucien Cesaroni as the Count in Mozart's "Marriage of Figaro."

Editorial Notes

Wellington, Friday, Jan. 22, 1932

SIGNS are not wanting that requests speedily will be made to the Radio Board, on behalf of "B" class interests, for subsidies toward their running cost. In the earlier days of broadcasting, when the revenues of the central authority were limited, we were frankly opposed to proposals for subsidies being diverted from the funds of the central stations for competing or subsidiary services, and therefore opposed the undue licensing of "B" class stations, as we foresaw the demands that ultimately would be made. To-day's position must be faced. The stations are there and give an appreciated service. But even to-day with the enlarged revenue of 70,000 listeners subsidies can be paid to organisations other than the four main stations only if the revenues available to the Board, in its opinion, are sufficient to maintain the central stations adequately, and leave a margin for outside stations. The interests of the central broadcasting service must be regarded as paramount. Decision on that point can be made only by the Board itself after consideration of detailed estimates covering the whole of its programme.

CERTAIN aspects of the situation likely to arise in the future may, however, be traversed with some advantage. For the purposes of illustration, the position as it obtains in Wellington may be reviewed. Here, in addition to 2YA, there is Station 2ZW. This is an independent "B" class station which, by the vigour and enterprise of its conduct, together with the resources in recorded music that are available to it, has established itself with the public as a prime favourite. That is unquestionable. Full credit must be given to the organiser responsible, and to the use he has made of the resources at his command. It must, however, in fairness be mentioned that those resources are extensive, and that certain advantages accrue from the free hand with which he is at liberty to use those resources. The management of 2YA feel it to be part of their duty to listeners and the service generally to encourage talent within the Dominion. No such obligation rests upon Station 2ZW. Therefore, where Station 2YA uses even high-class local professional talent in direct transmission over the air, it is placed immediately in competition with the very best of the world's artists in recorded form from Station 2ZW. These

records are the most perfect examples of their art. Monitoring and production are in every way correct. No matter how good 2YA's transmission may be, an original voice production must at times compare unfavourably in monitoring and detail with a perfect recorded production. Another factor is that 2YA's programmes are arranged in advance and duly published. No such limitation restricts 2ZW. With the advantage of knowledge of the competing programme, individual programmes can be arranged, if desired, to excel or out-rival those of 2YA.

WE are discussing this situation perfectly frankly, as it must needs be discussed to secure a full understanding. Concerned only with giving their listeners the best of entertainment, and without the restrictions which lead 2YA to use local talent and give certain national services to those seeking information as well as entertainment, 2ZW has been giving good service. While the objective of 2ZW may have been to show the value of an alternative service of their own merit, the situation may arise that they may over-prove their case, and by outdoing 2YA in entertainment value demonstrate the necessity, not for two stations, but for one station only!

THAT situation applies so long as both stations work along competing lines. There is outstanding need for co-ordination and control rather than indiscriminate competition. It was because of the undesirability of costly competition that we in the past consistently emphasised the point that there was room in New Zealand for only one co-ordinated service. That does not exclude the possibility and desirability of alternative programmes, but those programmes, however provided, if efficiency is to be gained, must be supplied upon a co-ordinated and organised basis.

THE whole position in regard to "B" class stations, however, is subordinated to the question of coverage—i.e., the problem of mak-

ing radio programmes available to listeners throughout the whole of New Zealand. As we indicated briefly last week, a plan for the provision of numerous subsidiary stations was drawn up formerly by the Radio Broadcasting Company. Up till recently that plan was in accord with the best radio thought of the day. Now, however, technical thought has developed along a new line, and it is a question whether experts to-day would approve of that scheme. Recently in America the proposal was seriously advanced that the whole 600 stations serving that country should be abolished, and replaced by four monster central stations, from which programmes could be broadcast, to cover the whole country working on different wavelengths. A proposal along somewhat similar lines has been made in Britain, even though the regional scheme of the B.B.C. has but just been completed.

ANOTHER factor bearing upon this change in thought is the discovery of the efficiency of ultra-short waves for radio transmission. It is thought by some experts that the use of these waves will be so effective as to displace feeder lines. If that is so, then that fact, together with the changed technical thought as to the best means of providing coverage, constitutes a radical departure from past beliefs, and involves close consideration of all factors before the Radio Board embarks upon its future policy. For instance, the suggestion was made here recently that one monster station should be established in the centre of the North Island, designed to cover the whole of the area. If ultra-short wave transmissions prove as effective as it is thought they might be, then it would be possible to provide such an all-powerful transmitting station in the centre of the North Island, and from the studios in Auckland, Wellington, and on occasion from the concert platforms of other centres, transmit on ultra-short waves programmes to the central station for general broadcast. That conception necessarily involves close examination by technical experts.

IT is plain, however, even on this brief citation of the position, that many factors must be considered in relation to coverage before the Board can reach a final decision upon the requests that have been, and will be, made to it for subsidies by "B" class stations. That question of coverage cannot be decided in a minute. It will involve, in our view, the closest inquiry by the most capable technical experts in the country. We mentioned last week the capacity of Mr. A. Gibbs, Chief Electrical Engineer of the Post and Telegraph Department. No one in the Dominion has a knowledge of all phases of radio superior to his. In the Department, also, are other highly-qualified technicians, who have kept themselves well informed of the trend of radio events overseas. Although we have no warrant for the suggestion, it would not be surprising to us to find that the Radio Board, as a first step toward informing itself of the technical problems involved in the business, were to appoint a commission, consisting of the best technical men available, to draw up a report upon the situation. This might take the form of laying down a three or five-year plan of development to which the Board might work. It seems to us likely that some such course will be taken by the Board before it will feel itself in a position to decide finally upon the requests made to it for financial assistance. In the meantime we appreciate the desire of the "B" stations to impress the Board with their capacity to serve the public by giving good programmes. Their very efficiency, however, if uncontrolled, may affect the capacity of the main stations to serve those who are paying for the service. As a stop-gap proposition, pending final determination, we would suggest, in the interests of listeners themselves, that some policy of co-ordination might be adopted forthwith between "A" and "B" class stations, particularly those in Wellington and Auckland, so that at one and the same time two programmes of the same type might not be put upon the air. A little co-ordination in this respect would add materially to the value of the service given to listeners, and enable both stations to increase the pleasure of the public. It should be possible for the organisers concerned to lay down a schedule for programmes of contrasting types from each station.

Fire of Criticism

Board Attacked

IT has not taken long for the Broadcasting Board to come under the fire of criticism. A correspondent in a Wellington paper attacks the board for its alleged failure to improve the programmes of 2YA. He emphasises that "there is not the slightest doubt that radio enthusiasts lived in great anticipation of better programmes on 2YA's re-birth," and he proceeds to state his case, his main contention being that 2YA persists in "broadcasting almost tuneless airs night after night—compositions, a few admittedly good, that were composed nearly thousands of years ago!"

The letter drew replies from a battery of four guns the following night. The writer was taken to book by one correspondent, concerning his musical knowledge. The second, commiserating with 2YA for "getting it in the neck again," calls for fair play. The third correspondent also defended the board.

In the course of his letter he said: "In less than a fortnight of the board taking over control it is subjected to a tirade about the 'type of stuff' put over from 2YA. The critic is evidently one of those who expected the board to usher in the broadcasting millennium in New Zealand. I don't think the board has ever made any statement that even suggested it was going to revolutionise broadcasting. The Government did not take over the service with that purpose in view. The board is in the position of trustees for the listeners. If too much is expected of the new control it is due to the wild statements and promises made by those who opposed the previous control. But I say emphatically that 2YA programmes have improved since January 1, 1932, and 2YA listeners in general will bear me out. It is well known that the board has been working under extreme difficulties, and it is greatly to its credit that any improvements at all should be noticeable. Personally, I don't expect any rapid—or any very great—improvement in the service, and neither would 'Radio' if he were fair-minded and unbiased."

The fourth writer also contended that the programmes had been improved, forcefully pointing to and applauding the board's action in substituting a recorded programme for the "international Yankee matter."

Experimental Television Station

THE television station which the National Broadcasting Company of America is building at the top of the Empire State Building in New York, 1250 feet above the street, is expected to be ready shortly. It is proposed to use ultra-short waves in the initial tests, and a number of receiving stations will be established in the metropolitan area for observation purposes. It is hoped by those in charge of the work that Vladimir Zworykin's new cathode ray receiver will be ready by the time the station commences its initial tests.



Robert Burns anniversary programmes will be broadcast from 2YA by the

Caledonian Society

on Saturday, January 23,

from 3YA by the

Christchurch Municipal Band

and assisting artists

on Monday, January 25.

and from 1YA by the

Caledonian Concert Party

on Tuesday, January 26.

"Oliver Cromwell"

2YA Broadcast Applauded

THE recent broadcast programme of "Oliver Cromwell" by Mr. Victor Lloyd and his company met with widespread appreciation. The producer and 2YA have received letters from all parts of New Zealand, as well as many telephone messages on the evening of the performance.

A Hawera listener wrote:—"The play 'Oliver Cromwell' has just concluded, and the writer feels that it is only just that an appreciation should be given where it is due. The play was very much enjoyed in our house, and were it not for the interruption caused by the relay from the Ninety Mile Beach, time would have ceased to exist from 8 o'clock till the end of the play. We hope that many others will give you their appreciation and that as a result we will be favoured with more plays of a like nature in the future."

From Napier:—"I wish to express a radio listener's appreciation of the excellent performance of 'Oliver Cromwell' broadcast by your station last night. I was listening-in with four others and we were completely thrilled with the performance from beginning to end. The reception was very good and we hardly missed a word. Each member of the cast was extremely good and there was no difficulty in distinguishing the various speakers. Personally, I have never enjoyed a radio programme more."

Christchurch:—"Please congratulate the producer of 'Oliver Cromwell' for

me for his very excellent production. The parts were well sustained and the property effects were splendidly effective. I thoroughly enjoyed the whole performance and others also have expressed their appreciation."

A reverse opinion:—"Can you imagine a tired businessman listening-in to 'Oliver Cromwell'? I will guarantee not 5 per cent. of radios were on Wellington last night. Why not put on records in place of the weird wallings in Eastern music of the Orchestra and Orchestra? They only make 'static' a pleasure."

A DX Achievement

2ZI Heard in New York

THAT station 2ZI, Hastings, could be heard in New York would at first seem an impossibility, yet a letter for verification has been received from a listener in Brooklyn, New York. The letter reads: "This morning I believe I heard your station at 5.30 a.m., E.S.T. I understood the announcer to say 'Good-night Waltz,' but it commenced with what I believe was the 'Last Post.' The station faded out at this point."

After making due inquiry as to time, etc., it was found that the report was correct in every particular.

Credit for this remarkable performance is due undoubtedly to the engineer and operator of the station, Mr. Paul Barcham, while, on the reception end, no little credit is due to Mr. Halpem, who tuned in the station.

Gradual Improvements

Policy of the Board

IN preparation for the efficient conduct and probable new developments in the New Zealand broadcasting service, the Broadcasting Board is laying sound foundations. As has previously been stated by the chairman of the board, Mr. H. D. Vickery, no sudden changes in the existing service need be expected. The board, which came into existence only a few weeks ago, is content with a slow but sure policy. It is evident, however, that plans for the future are being carefully laid.

Prominent Novelist

Views on Broadcasting

MR. H. G. WELLS, who is now on a lecture tour of the United States, has had some interesting things to say to the American Press on broadcasting, and the evolution of his own ideas on the subject. Four years ago Mr. Wells said that "the whole broadcasting industry will dry up" and that at best the microphone and loudspeaker had the future of "crossword puzzles and Oxford trousers—very trivial indeed." Since then, his experiences with the English rather than with the American method have brought about his complete reconciliation to radio. He smilingly admitted to reporters who interviewed him that it was "about time he climbed down."

He drew a comparison between the English and American systems of broadcasting, his comments being prompted by a network broadcast which he made recently. "I was obliged to speak in a room that was not soundproof," he said. "The microphone was jammed like a muzzle against my mouth. It was even proposed that while speaking I should be subjected to the intense heat and light from powerful lamps necessary to the exposure of a talkie or motion-picture film. At the same time, to increase the unrest of both me and my talk, an audience of newspaper reporters was being introduced. Doing this sort of thing in the studio destroys all the distinctive possessions of the radio. It irritates even the most experienced speaker."

"We have learned in London that the programme is the essential thing. In addressing radio listeners words must be spoken in the manner of a quiet talk with a friend in the room. Everything is done at the Savoy Hill studios to create the atmosphere which I have likened to a quiet conversation. One is able to prepare the talk exactly as to time and deliver it under the most favourable conditions; at the receiving end the effect on the listener is exactly the same—like a friendly person talking in the room with the hearer. This is the effect we always try to achieve."

KNOW the time all over the world with a DX Clock.

Posted in Cardboard Tube, Price 9d.
Write "Radio Record," Box 1032,
Wellington.

Programme Points.

YOUR paragraph in the last issue announcing that the international programmes are to be withdrawn "as part of the policy of the board," makes one exceedingly apprehensive regarding the remainder of the board's policy. For my own part, and I think I am voicing the opinion of hundreds of listeners, I considered these programmes on average very superior to the majority of the programmes submitted from local talent. My set is used fully three hundred nights in the year, and on numerous occasions over recent months have I been thankful to tune in on that YA station from which the international programme was being broadcast in preference to any of the other three stations. Such orchestral combinations as that of Dr. Ormandy and the Vitaphone, the Lockhart series, Adam and Eve, Hy-wide and Handsome, The Mirth Quakers, The Flying Song Squadron, the dance orchestras, and even the lighter vaudeville groups provided excellent entertainment. Many of these one was willing and satisfied to hear twice rather than listen to local programmes. Why then discontinue them for "high-class recordings"? Rather I suggest a more sensible policy would be to replace our second-rate artists with recordings, but continue broadcasting such interesting and entertaining series as have been provided by the international programmes.

One next point (the Radio Board is not this time the culprit) relates to the weekly programmes published in the "Record." Recently the dinner music items and also those of the dance session have been discontinued. Relating to the former, this is my favourite session, first because it is instrumental, which I prefer particularly at meal times, and secondly because it consists of well-chosen recordings and not local talent. Surely for the sake of a page in the "Record" you could allow listeners the opportunity of selecting which programme they will tune in to before sitting down to dinner. This is not a criticism, as I presume you had some reason for discontinuing the old system, but rather is a plea from one who greatly enjoys the dinner session, particularly when he has a selection of four programmes in front of him from which to choose.

[The programmes are published as supplied and with our contributor we trust the details desired can be replaced.—Ed.]

Coming now to the question—Programmes of the future? No doubt our board will be largely guided by the programme policy of the old company. On the whole there was little to complain of in the excellent service given. My only criticism is again that too much second-rate local talent was used at the four stations. This applied particularly to vaudeville turns, vocalists and so-called humorists. With the recent development of the gramophone industry an abundant supply of the

Our Mail Bag

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

world's best talent of all types is available on records, perfectly recorded and reproduced and selling at a price lower than even the cheapest item by New Zealand artists. Why not then use this talent in place of repeating so often these familiar but unsatisfying voices? Mine is not a wall from a dearth of talent in New Zealand. I think for one million and a half people we are wonderfully supplied with first-class singers and instrumentalists, but there are not enough of them to keep four stations supplied 365 days in the year. When we have the best of European and American talent available in such a cheap and perfectly recorded form, why not use it?

As an indication of the type of programme or item preferred by listeners, I suggest that the Board, through the "Record," takes a census of license-holders. I purposely would restrict one vote only to each license, but would allow it to be cast by any member of the family of the license-holder. Enclosed is a draft voting paper which would give a useful guide. Special items such as church services, sports broadcasts, news and lectures have been deleted and the form restricted to entertainment services.

Finally, would it not be possible for each station to institute a "special request" service? Listeners could then weekly indicate (on a special form to be forwarded to the local YA station) which item they had preferred in the previous week's programme. The item having most preferences could be repeated and, incidentally, a guide as to the public's tastes and preferences would be given.—D. Macdonald, Christchurch.

Interrupting a Play.

MY wife and I listened on Tuesday evening to the very fine play from 2YA, "Oliver Cromwell," and we congratulate Mr. Lloyd and his able company for allowing us to have the privilege of hearing this fine drama over the air. We were disgusted to hear at 8.47 p.m. that the play would be held up for about twenty minutes so that a relay could be put on from the Ninety Mile Beach. I quite appreciate

the fact that this relay was probably arranged prior to the play, and also that the event is of outstanding importance to many listeners, and also that it was probable that the actual race would have been run several days before had conditions been satisfactory, but I think that it was neither fair to listeners nor players to have to wait for such a long time over the interval. Moreover, after carefully giving us the correct "atmosphere" of over 300 years ago, and then to get suddenly whirled into modern days of racing motor-cars was in my opinion not a good arrangement on the part of the 2YA officials. What Mr. Lloyd and his company were thinking at the time I can only guess!

I make the suggestion that in similar circumstances in the future no other matter be placed over the air during a play, unless it should be of grave national importance. In the past plays have been given from 2YA, and not even the weather report was put over during the actual performance. We get very few plays over the air, and I think that Messrs. Lloyd and Montague should be assisted in their efforts in this direction and not hampered by such relays or other matters as the one complained of. One would think that the race was of terrible "national" importance, even though we are all interested in Mr. Smith's attempt.—L. J. Retallick.

Children's Sessions

FROM 2YA.

Monday, January 25.—We are to have a clock evening to-night, when we are to hear the story and history of all the big clocks of Europe and England, and you will also hear songs about "Grandfather's Clock," the "Cuckoo Clock," "Big Ben," and "The Chimes." Uncle Jeff will send out birthday greetings and ask riddles.

Tuesday.—Jumbo is entertaining all the elephants and animals from the Zoo at a tea party to-night, and they will say their "little piece" for you. As Kipling Lady loves the jungle, she will tell you how "The Elephant got his Trunk."

Wednesday.—Aunt Daisy and her Cheerful Chirpers, with fresh songs to be chirped and fresh animal stories and fresh riddles. Birthday greetings, of course.

Thursday.—Uncle George and Big Brother have a magic lantern party to-night, and it's all about the way the Japanese make silk. There will be choruses, birthdays, and songs during the hour.

Friday.—Tweedledum will conduct the session this evening, and we should have a jolly hour listening to a little play called "Mother Goose's Party," and clog dancing, mouth organ duets, and stories.

Saturday. To-night a little play called "The Clock Fairies." Aunt Molly and Uncle Jasper will be present. There will also be Clock Song choruses by the Seatoun children's choir.

Maughan Barnett Retires

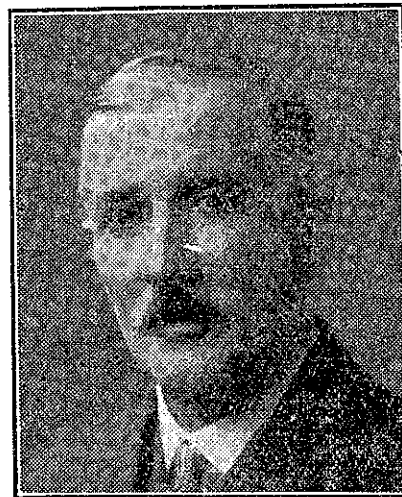
A Gifted Musician

AN important part in the development of music in New Zealand has been played by Mr. Maughan Barnett, whose retirement after 19 years as city organist of Auckland is announced. In his organ recitals, which were often relayed by 1YA, there was always a judicious blending of the classics and the more popular compositions.

A pupil in England of Gustave Ernst and Frank Spinney, Mr. Barnett bade fair to make his name in the Old Country, but considerations of health compelled him to try his fortune under sunnier skies. In 1890 he accepted an engagement as organist at Hobart, Tasmania, and was in charge of the musical arrangements in connection with the laying of the foundation stone of the Hobart Cathedral. He also gave the opening organ recital at the Launceston Exhibition.

Mr. Barnett became conductor of the Wellington Choral Society in 1905, and retained that position when that society and the Wellington Musical Society became merged under the title of the Wellington Choral Union. He also conducted the Wellington Orchestral Society and the old Wellington Operatic Society.

At the end of 1912 he accepted the post of city organist at Auckland, the Choral Union appointing Mr. Christian Hellemann its conductor. Mr. Barnett's final performance as conductor of the Wellington Choral Union



MAUGHAN BARNETT.

was "Carmen" given on April 22, 1913. As a farewell from Wellington he was tendered a complimentary concert at the Town Hall on March 13, 1913. Since then he has resided in Auckland.

YOU CAN'T BUY A BETTER VALVE THAN

Mullard
THE MASTER VALVE

Must We Resort to

THIS

by

Dr. J. HIGHT

broadcast from 3YA

31/12/31

"To attempt to keep Germany in the strait-waistcoat, political, economic and military, in which she has been confined since 1918, is to lay the foundations of another war." Undoubtedly Dr. J. Hight foresaw Germany's difficulties—that she could not meet her obligations. Unless European nations revise radically the terms of the Peace Treaty—and disarm—the world again will be a seething cauldron of WAR.

SURELY there can now be but few who would deny that we are living in a period of rapid social change which appears to be speeding toward its crisis, when old institutions may be cast off or profoundly modified, perhaps even the very nature of Western social structure changed in essentials, and the importance, power and influence of nations acquire quite new relative proportions. Despite our reading of history, how obstinately we cling to the idea or at any rate act on the supposition that whatever is must have been for ages and shall be for ever!

Do we ever reflect, for example, that the present British Empire or the commercial and industrial supremacy of Britain is but a few score years old? It is a wholesome thing in times like ours to-day to reflect upon the fact that empires and even civilisations have flourished and passed away. Not to tempt pessimism but to arouse ourselves to devise correctives.

Is the present generation to make one of the epoch-making decisions as to choosing between the paths along which lie decadence and ruin on the one hand and advance and well-being on the other? One thing is certain—that its leaders will have to make momentous, if not so decisive judgments, this coming year and early, too.

As Mr. Troup said in one of these talks recently political changes and adjustments lag behind economic and general social changes, but even politicians now see that the world stage is being set for a series of the most dramatic scenes in all human experience. The old order, out of touch with changes in economic practice and the march of political ideas, may be burst asunder unless the nations take wise counsel together and immediate action upon it.

The settlement after the War, including the League of Nations and the principle of the Pacific settlement of international disputes, did not win universal acceptance. Nevertheless there has been progress. Germany was admitted a member of the League in 1926; the U.S.A. has co-operated with the League in most important work; the League, with its regular and frequent conferences of European statesmen, has become an essential part of the political structure of Europe, and it has staved off some wars.

THE old nationalist and militarist system of alliances and the balance of power, however, is still followed by France, now holding the dominant position in Europe, though a member of the League, and armaments are increasing (or were up to November 1) despite Article 8 of the Covenant, by £150 millions in six years.

Armaments mean the negation of law and justice as between nations, and set up rivalry leading inevitably to war, and the probable horrors and ruin of another world war beggar the imagination.

Events of the last few weeks would indicate that the sense of these horrors is weakening. The proportion of the population with first-hand knowledge of the War decreases every year. Hence the greater need to strengthen all peace-making institutions and of a common or universal policy to avert war.

The future of the world depends on the acceptance of this principle and the rejection of the contrary. Group agreements are welcome only if they settle disputes between the members of the group concerned, and do not combine them against other States. The Austro-German Customs Union proposed this year promised to be such an agreement; a British Commonwealth preference agreement would do more harm than good, if it contained clauses threatening positive damage to the trade of the rest of the world.

The resolution of the Foreign Ministers of France, (Continued on page 8.)



Armistice Day Celebrations in Paris.

... But we are fast forgetting. A generation who has not known war is springing up, and deep, deep down the old racial prejudices are striving. 1932 will be a year of drastic reorganisation if we are to avoid another World War.

Germany, Great Britain and Italy in January last; a resolution endorsed by 23 other European foreign Ministers and representatives of four other European States, favoured the liberal principle. It asserted that the economic recovery of the world was hindered by widespread political anxiety and that the best service they could render toward meeting the economic position is the firm assurance of European peace. "We therefore declare," they said, "as foreign Ministers or responsible representatives of European States that we are resolutely determined to use the machinery of the League to prevent any resort to violence."

This resolution suggests a brief reference to the connection between economic conditions and the functioning of the League. The current severe depression from this point of view has influences for good and evil. On the good side—it increases international meetings in the effort to find a solution; it brings nations together (Czecho-Slovakia and Hungary); it gives a new stimulus to the reduction of armaments; on the other hand, it has most unhappy political effects which have been abundantly illustrated by the events of this year when the temper of the peoples have been darkened by the economic gloom; fear of disaster and of loss of prestige increases in times of depression; political dangers are exaggerated in the public mind; there is a lack of confidence, of trust in the future, and a positive suspicion of other countries.

This latter increases international friction through the aggravation of economic nationalism; a country is only too eager to adopt tariffs and other devices discriminating against other countries (in 1930 and 1931 there were many and important tariff changes and they were generally in an upward direction). Depression always disturbs the political situation in countries—discontent finds expression in change of Governments and later feeds upon the disillusion that usually follows fast upon such changes; and measures are taken in haste that often lead to quarrels with other countries. This year of 1931 in which the temper of the peoples has been dominated by the depression has exhibited all these features in strong relief.

Up to August there were hopeful signs that the political situation in Europe was improving—opinion sympathetic with the spirit of the Locarno treaties and the Pact of Paris was growing in most countries; responsible European statesmen were developing a habit of close and almost constant

contact with one another at Geneva, where there was a wholesome anxiety visible in the discussion of recent events and apparently genuine efforts to avoid provocative action. This was due largely to M. Briand and the leadership of Great Britain. The reputation of Mr. Henderson grew as the year advanced.

Politically the Franco-German problem is the most central of European problems. Mr. Troup has already spoken of this. Last year the success of the Hitler party in Germany was due largely to the discontent of the young men with the economic situation and the outlook for the future; they were determined they would not be bound down by the terms of a peace unjust and impossible of fulfilment.

The evacuation of the Rhineland (five years before the due date) had a twofold effect within Germany—it stimulated and intensified the nationalist spirit and on the other hand the political differences which had been put in the background in the presence of the common enemy began again to divide the people. The growth of German nationalism stiffened up France and her resolve to persist in her policy of dependence on troops and alliances.

As the year progressed the Briand policy of conciliation and genuine utilisation of the League weakened. France clearly aimed at the military predominance of herself and her allies; she had felt herself deserted by U.S.A. and Great Britain after the peace, and the League having no force at its command, she had decided to police Europe herself. That military predominance she has recently increased, as we shall see later. In effect, she succeeded in isolating Germany by using the old methods of diplomacy, and on occasions the League when it could serve her ends. The new idea of an international government for Europe, which seems the only means of safeguarding Western civilisation, is in danger of being overshadowed by the old idea of the domination of a group of Powers subservient to one. The French believe that the only real alternative to their own supremacy is the supremacy of Germany and her allies. They demand security not only against invasion, but against any alteration of the treaties by force.

Germany demands equality in armaments and a revision of the terms of the peace. As one writer says:

"We ought to be much more surprised than we are that a German revolution is again stayed off. No people are so law-abiding or so patient. When the history of the last twelve years comes

to be written we shall see that the central tragedy has been the failure to make use of the pacific mood of post-war Germany. For years after the war Germany was not only disarmed, but she did not want to re-arm. The Hohenzollerns, the Junkers, the whole paraphernalia of Prussian militarism, were utterly discredited, and if the Allies had made a different use of their victory, the endless chain of Franco-German hostility—war, revenge, and revenge again—would have been broken.

Surprise Items

IN order to avoid undue uniformity, we hear that a policy of occasional surprise items is to be adopted from Station 2YA. This will be by way of experiment in order to determine the appeal made to listeners. The first surprise item will be given on February 1.

"The German universities were filled with sincere pacifists, anxious not for revanche, but for a new kind of understanding, a new kind of Europe. Sentimentalists, if one cares to call them so, they had believed in Wilson's terms. They had accepted the League idea.

"It would be idle to pretend that the same spirit prevails among young men and women in Germany to-day. How could it? The astonishing thing is that it has lasted so long as it has and that it is not yet dead.

"First, there were the crushing humiliations of Versailles, based on the obvious lie that the whole 'war guilt' was on Germany's shoulders, the surrender of German territory, east and west, the loss of her colonies. Then followed the black troops on the Rhine—the kind of savage incident that the aggressor thinks trivial and that the humiliated nation never forgets. Then the invasion of the Ruhr, the continuous struggle over reparations, and the running sore of the Polish corridor, the opposition to German entry into the League—was any opportunity missed to outrage German pride and evoke German nationalism to make pacifism impossible and to recreate the spirit that awoke in Germany more than a century ago after the disaster of Jena?"

Solution by Force.

If her claims are not considered and some pacific means of revision devised, there is no doubt that Germany will abandon the League as a sham and try to find a solution by force.

We must agree with a writer in "The Round Table" of September, who says that "to attempt to keep Germany in the strait-waistcoat, political, economic and military, in which she has been confined since 1918, is to lay the foundations for another world war."

He describes the growth of conditions that seem to show it is only a question of time until the effectiveness of the French alliance system is neutralised and even out-matched, and notes the growing opinion in France itself "that, even from the narrow standpoint of the security of France, Poland, and the Little Entente, no less than from the wider standpoint of the League of Nations,

the right policy is to aim at some moderate scheme of revision in so far as the peace treaties are concerned and at the same time to carry all-round disarmament sufficiently far as to render it impossible for any nation to invade its neighbours of comparable size with any hopes of success,

and to make the co-operative machinery of the League of Nations for the settlement of disputes and the prevention of war really effective."

Since this was written France has greatly increased her ascendancy, but on the other hand the feeling that Europe is on the edge of a precipice and may take a fatal plunge has been enormously intensified by the events of the last few weeks, and is evidently spreading in France.

Italy would probably welcome an international pacific settlement; the action of Grandi at the recent Assembly session in proposing a temporary 12 months' armament truce and Mussolini's speeches reported these last few days are symptomatic. And the U.S.A., though determined to remain outside the European political structure, has co-operated with the League in many ways, knows that the preservation of world peace is essential for her interests, and is using her financial control as a lever to help on European disarmament. Over the Manchurian question, her influence has undoubtedly been exercised in the direction of peace in co-operation with the League. Russia is too busy with internal development to spare effort toward national aggrandisement, and would welcome disarmament, probably for more reasons than her fear of attack by the capitalist Powers.

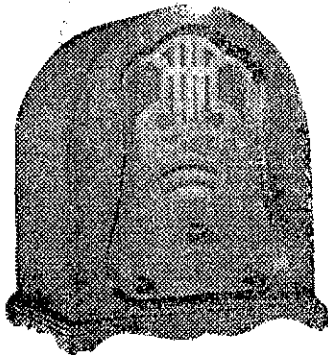
Events of 1931.

IS there space to glance at a few of the details of the calendar of events in 1931?

In January there was an international conference at Paris concerning the drain of gold to France; this showed the developing consciousness that international co-operation is necessary to tide over an economic crisis of that nature. The oppressive treatment of racial minorities by Poland was the subject of German and Russian protests and subsequent resolutions by the League.

In February, the tension between France and Italy tightened; France, suspicious of Italy, increased her naval expenditure; there was some fear of a German-Italian alliance to which Bulgaria, Hungary, and even Russia might adhere. In Germany the Hitler Party seceded from Parliament and there were signs of a decline in their power.

(Concluded on page 22.)



LYRATONE MODEL 63

SUPERHETERODYNE 8

The Family Xmas Present

Make this Christmas a Radio Christmas.

Consult your nearest dealer.

Wholesale: **CRAWFORD & FINLAYSON LTD.**

BOX 675, WELLINGTON.

Retail: **F. J. W. FEAR & CO. LTD.**

WILLIS STREET, WELLINGTON Phone 41-446

OVERSTOCK BARGAINS

20ft. Speaker Extension Cords, 1/9
50ft. Speaker Extension Cords, 3/-
Extension Cord Connectors ..10d.
Trickle Chargers. From 25/-
Aerial Wire, 100ft. From 2/6
Ground Wire, 25ft., 14G. ... 1/3.
Special 20% off Lead-in Strips 1/3.
Palnstock Clips, Ground Clamps.

ROYDS-HOWARD CO.

553 COLOMBO STREET.
CHRISTCHURCH.

News and Views of the D.X. Club

Answers to Correspondents

DX22MC (Rangiora): A very good log, which you could undoubtedly greatly improve by increasing the height of your aerial another eight or ten feet.

DX48A (Pokeno): We know of several members who have received Testaments from WLAC. DX48A would like to get in touch with anyone operating a Scott all-wave receiver.

"Bimbo" (Rongotea): No; we are afraid not. Try again.

R.E.C.: Under no conditions do New Zealand stations count for the competition.

DX760C (Dunedin): Your suggestions for a DX Competition are being considered, and will be discussed in the next "Log."

Addresses and Addresses Wanted

"Bimbo" (Rongotea): JOHK, Sendai, Honshu, Japan.

Could any dxe let me have the full address of KZRM, Manila?—"Bimbo" (Rongotea).

Identification Wanted

Relay of a wrestling match between Pincheff and Tommy —, one of whom was a Bulgarian, heard one night recently at about 11 p.m. on 785 kc. (382 m.)—R.E.C.

Mexican station heard on Jan. 9 on 950 kc. (315.6 m.), strength R4. He closed at 8 p.m. "Old Mexico" was all that was heard of the call.—H.F.A. (Masterton).

Station on approx. 600 kc. (500 metres), heard at about midnight, Jan. 9. A man was speaking hurriedly in a foreign language which sounded like Japanese.—DX52MC (Chch.).

DX48A (Pokeno): 4BH, not 4BX. Address will be published as soon as it comes to hand.

Station heard about 7.30 p.m. on January 9, about 13 deg. below 2ZW, and almost on 4ZP, Invercargill. Someone was talking about the British Isles, mentioning Falmouth. He also said something about two warships which were about to start on a cruise. The name of one of the ships resembled "Devonport." A weather report was also given. Shortly after this the station faded out—"Puzzled" (Waitaha).

An Australian heard on approx. 1490 kc. (201m.), on January 11. At 10.15 p.m. an item, "I'm Crazy Over You," was played. This station is not 2AY.—DX1230C (Timaru).

Stations Identified

F.J. (Tihorangi): 3AK, Melbourne, ca approx. 1500 kc. (200 m.). R.P.R. (Tim-

aru): 1ZB transmits regularly on the following schedule: Mon., 7.30 p.m. to 10 p.m.; Wed., 8 p.m. to 10 p.m., so your station is probably 4ZW, who broadcast each morning at 8 a.m. The station may be recognised by a chime of three notes. "Country Lad" (Gore): I have received verifications from all the Aussie B's you mention except 3HA. 3SH's address is Campbell St., Swan Hill, Vic.—"Marama" (Colac Bay).

RADIO TIME CHARTS

The Radio Time Charts, which have been on sale for the last six months, are now withdrawn from sale as many alterations have taken place in the stations listed thereon. The next complete list of stations will appear in the 1932 "Radio Guide," which will be on sale early in April. This list will be kept up to date in subsequent "Radio Logs."

DX260C (Tainui): KFBI, Milford, Kansas. H.F.A. (Masterton): The station you heard was not XEN, but XER.—M. Crouch (Kansas City, U.S.A.).

"Fernleaf" (Nelson): KOIN, Portland, Oregon. **DX12NW (Nelson):** 3BY, Melbourne, is correct, but frequency is higher, 1220 k.c. (246m.). **DX670C, 4BH, Bald Hill, Brisbane, 1370 k.c. (219m.).** **DX114A (Hamilton):** 4BH, Brisbane, is correct call, but your dial reading is a little out. See above. **"Wainui" (Gisborne):** Are you sure your new American WMBR is not WMBL, Chicago, on 1080 k.c. (278m.)? The former station, which operates on 1370 k.c. (219m.), has a power of only 100 watts, and is situated at Tampa, Florida. **DX16W (P.N.):** 2UR, Uralla, frequency 1250 k.c. (222m.). **"Omsk" (Whakatane):** Frequency of ZTC is 800 k.c. (375m.).—J.P.C. (P.N.).

DX Topics

Delayed Verification.

JQAK, Darien, advises that from Oct. 15, 1931, his wavelength was altered from 395 m. (760 k.c.) to 465 m. (644 k.c.). This alteration no doubt explains why 4QG has been readable the last two months. Re black-listed stations: 3WR replied to my letter by return mail, but I informed them when writing that they were "black-listed" by New Zealand dxers. This may have helped! Like other dxers I have sent two reports to KMOX, but they have been unanswered. KZRM asks for reports, but never answers them. My experience has been that some of the Americans are dilatory in replying, but when they do they generally apologise, a typical instance being that of a letter I received this week from WENR—"The delay in answering your letter is

sincerely regretted." Also by that mail I received a verification from KFBI, and instead of enclosing an Ekko stamp they sent an annual pass, "good on all lines owned, leased or operated by the Farmers' and Bankers' Life Insurance Company, Wichita, Kansas."—DX1W (Hataitai).

American Loggings.

ON Jan. 9 static was much lighter than usual, and several American stations were heard at good strength. Among these were: KHJ, Los Angeles, R7-3; KFVD, Culver City, R7; KGO and KFI. At 9.15 p.m. a new Australian was heard at R6-9, giving the call 4BH, Brisbane. Could anyone give me the address? Wavelength was below 220 m. (1360 k.c.).—H.F.A. (Masterton).

WTAM, Testing.

AT 2.30 a.m. on January 1 stations were heard on 350 m. (855 k.c.); 361 m. (830 k.c.); and 307 m. (975 k.c.). The latter sounded Chinese.

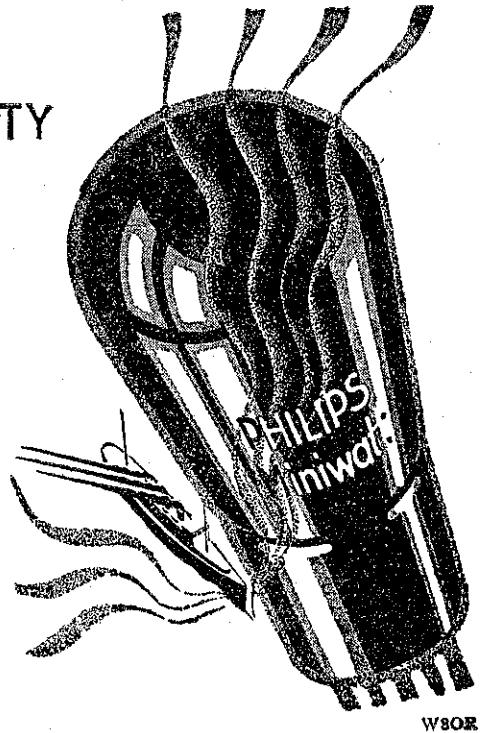
WTAM on a test programme for Australia, Washington and South Africa, was relaying Honolulu and came in louder than the local. Latest loggings are KGA on test programme; 4BH, Brisbane; 2SM, Sydney; and 2CO, Corowa.—DX64A (Mokau).

DX Jottings.

IN a verification recently received from Stockholm they state that they would like dxers to give definite names of items, as it would facilitate the granting of verifications. KGMB also makes the same request. JOJK, Kanazawa, sent a number of interesting snaps, including one of their three-stringed Samisen orchestra. Their schedule is from 6 a.m. to 10 p.m., J.S.T., and they operate on 710 k.c. (422 m.), with a power of 3 k.w. They would like further reports from New Zealand. To date I have not been able to obtain 3EFO's address. Has any dxe located him yet?—"Marama" (Colac Bay).

DEPENDABILITY

You can stake your life upon the dependability of Philips Valves. In the mighty laboratories of Philips they have been designed and produced—first the master valve, and then the hundreds of thousands of replicas which do not vary from the original. A hair's breadth to Philips laboratories is a yard.



WSOR

PHILIPS

A "CHEAP" VALVE IS "CHEAP" IN NAME ONLY.

Advertisement of Philips Lamps (N.Z.) Limited. Head Office: P.O. Box 1673, Wellington. Branches: Auckland—Paykel's Building, Anzac Avenue. Christchurch—226 Tuam Street.

A Ship-to-Shore Station.

MR. R. J. Patty (ZL2AE), chief operator of ZLI, a commercial station owned by the Gisborne Harbour Board, writes:—

"In reply to numerous inquiries. I would greatly appreciate it if you would publish the few following particulars: Station ZLI is listed as a private commercial station (early tests carried out under my own call, ZL2AE) is owned by Gisborne Harbour Board and used for shore-to-ship duplex telephony. It is worked in conjunction with a (portable) signing ZMJF placed aboard vessels working in the Gisborne boardstead. Power to ZLI is 11.5 watts input and to ZMJF 1.5 watts. ZLI transmits on 1515 k.c. and ZMJF on 1565 k.c. Hours of service vary according to shipping in the port."

Meeting for Dunedin DXers.

I RECEIVED a verification from 3WR, Wangaratta, recently, confirming my report of May 17. I suppose everybody is getting them now also. His hours of service are: Daily, 12.30 p.m. to 2 p.m., and 7.45 p.m. to 10 p.m. As regards a dx meeting in Dunedin, I could arrange a room for a meeting at the Savoy Tearooms free of charge as long as it could be held the last week in January. What do other Dunedin dxers think about it?—P.K.B. (Dunedin).

N.W. Broadcast System.

"JOEY" (Hokianga): I beg to differ with other replies re the stations associated with the North-west Broadcast System. There are only two, KJR, Seattle, Washington, and KGA, Spokane, Washington.—J.P.C. (P.N.).

Particulars of 4QL.

THE following particulars were taken from a verification recently received from VK4QL, Brisbane. Power 15 watts input, wavelength 225m. (1330 k.c.). Aerial 70 feet long and 40 feet high, using

Special Broadcast from KS00.

IN a letter to DX1T (New Plymouth), the secretary of the Round the World DX Club asks him to give as much publicity as possible to a special broadcast from station KS00, Sioux Falls, South Dakota, on Sunday, January 24, when a one-hour programme dedicated to the club will be broadcast from 11 to 12 p.m. (5—6 p.m., Monday, January 25, our time). An endeavour is being made to have this transmission extended for another hour for the benefit of the N.Z. DX Club. This hour is called the "Midnight Serenade," and is conducted by Mr. Ray Berry, the studio organist. Reports from N.Z. club members would be appreciated. KS00 operates on 1110 k.c. (270m.), with a power of 2.5 k.w.

Apropos the above letter, DX1T continues: "He thanks me for the 'legs' and sends many thanks to all members of the N.Z. DX Club for the great boost they have given to the Round the World DX Club in New Zealand. In conclusion, all members of his club send all members of the New Zealand DX Club best wishes for a very Merry Christmas and a Happy New Year, with good hunting."

a counterpoise. Address: Queensland Listeners' League, 157 Enoggera Terrace, Paddington, Brisbane.—DX12NW (Nelson).

News of 2GN.

THE following are particulars of 2GN, taken from a recent verification:—2GN operates on 216m. (1390 k.c.), with a power of 50 watts in the aerial. The latter is supported by two steel masts 160 feet high, and 428 feet apart. Address: Goulburn Broadcasting Co., Ltd., P.O. Box 88, Goulburn, N.S.W.—"New Chum" (Wellington).

A Generous Offer

A letter containing some interesting particulars of station XER, Mexico, was recently received from Mr. M. Crouch, 4029, Main Street, Kansas City, Missouri, U.S.A., and appears in the January "Radio Log." Our correspondent invites any readers desiring dx. information to write him.

An Interesting Paragraph.

THE following is a copy of a paragraph taken from the Sioux City journal, received by me from KSCJ:—

"Six letters from residents of New Zealand telling of programmes broadcast from KSCJ, the journal radio station, which were heard in that distant island, have been received in the station studios.

"The writers, all men, said that the KSCJ broadcasts had considerable volume, and came in clearly, although there was a small amount of static, due to a storm near the island. Five of the letters conveyed the information that the broadcasts had been heard on the island during September, while the author of the other letter said that he heard a programme from KSCJ on August 9.

"Following is a list of the authors of the letters, and the dates on which they heard KSCJ programmes:—

"J. H. Looker, 110 Harbour Terrace, Dunedin, N.Z., Aug. 9; H. L. Hood, Stewart Street, Ravenborne, Dunedin, N.Z., Sept. 4; D. N. Adams, 35 Bowker St., Timaru, N.Z., Sept. 4; H. E. Rean, Ohakune Junction, King Country, N.Z., Sept. 5; J. L. Fraser, Mahana, Nelson, N.Z., Sept. 6; and V. S. Pruden, Outfield Road, New Plymouth, N.Z., Sept. 9.

"New Zealand is more than 8000 miles from Sioux City."

Verification is just to hand from 2CO, Corowa, the Riverina Regional station. Frequency 560 k.c. (536m.), power 7.5 k.w. DX16W (P.N.): 2UR's frequency is 1276 k.c. (235m.), and his power is 170 watts. These facts are taken from a verification received on Sept. 14 last. Jan. 1 was an excellent night for dxing, some 10 or 12 Americans being received from R5-9, and about 20 at R3-5.

"Joey" (Hokianga): The following stations associated with the North-west Broadcasting System are taken from a book sent to me by the Advisory Council of the National Broadcasting Company:—KSTP, St. Paul; WTMJ, Milwaukee; WEBC, Duluth, L. Superior; KHJ, Los Angeles; KOIN, Portland; KVI, Tacoma; KOL, Seattle; and KFPY, Spokane. 4BH, Brisbane, and 2SM, Sydney, have both been heard at excellent strength. DX760C: Re club meeting. I will make a point of attending.—DX840C (Dunedin).

"Anzacs Honour DX'ers."

THE following paragraph, which appeared in an American newspaper, under a 3-column streamer heading—"Anzacs Honour DX'ers"—in red type, was sent in by Spence R. Ellis, of Okato, Taranaki:—

"Through a special arrangement completed by George Viliani, station 2YA, of Wellington, New Zealand, will dedicate a period of their programme on Saturday, October 17, to the Round the World DX Club of Los Angeles.

"This will be a gala occasion for DX'ers, not only in Southern California, but in every section of the world, for the local DX Club boasts a membership of "hams" whose variegated lingual attainments would make the Tower of Babel gathering sound like a tri-nation conference.

"The broadcast from 2YA will begin at 2 a.m., Saturday, and will continue 1½ hours, being personally conducted by Spence Ellis, of Wellington, himself a member of the Round the World DX Club.

"It is desired to have as many listeners as are able to pick up this station during the broadcast, and to write 2YA for confirmation. It is hoped that other foreign stations may follow the lead of 2YA."

The Month's Dxing.

RECEPTION on the whole during the month has been fairly good, and several new stations have been heard. On December 12 KCRC, Enid, Oklahoma, on 1370 k.c. (219 m.), was heard testing at R5 on 4 valves. However, QRN was very bad, and so I held him on 3 valves, our set having a 3 and 4-valve jack. Although reception was considerably weaker on 3 valves, QSA was slightly better.

On December 16 KGFF, Shawnee, Oklahoma, celebrating their "first birthday party," were heard at R4. The slogan was given as "The Voice of the Indian Territory." He was being heterodyned rather badly by KFQU, but fortunately the latter station was very weak. The same evening from 9.30 p.m. until 9.45 p.m., KLLZ, Denver, Colorado, was heard, just concluding a special broadcast for the Newark Radio Club. Slogan was given as the "Pioneer station of the West." This station has been heard before, but only weakly, in the background of KTAB, but I have not been able to write to him before.

On December 17 I heard KRIEG closed down at 7.00 p.m., saying that he would be on the air again "at 12.15 a.m. to broadcast a special programme in response to many requests from dxers." This special programme came in very well, and he was heard from 8.30 until 8.50 p.m., when he closed down. This same evening, from 7.20 until 8.00 p.m., tuned in to a terrible din on 1300 k.c., and managed to log KFJR, Portland, Oregon, out of the lot. QRN this night was very bad.

On December 24, tuned in at 8.00 p.m. to a foreigner on 1000 k.c. (300 m.), which closed down soon after at 8.20 p.m. This station I take to be XEB, Mexico City, but no call was heard. By the way, Mr. N. Jenkins (Masterton), I heard a station on July 13, on 330 metres (910 k.c.), and wrote to NEX, Mexico. He did not reply, but I received a reply from NEW, Mexico City, verifying my report, so XEX must have forwarded it on to him.

December 26, from 8.30 until 9.00 p.m., station KGFK, Moorhead, Minnesota, was heard on a dx programme. I understood them to say that it was a regular one, conducted every second Friday (i.e. they mean early Saturday morning). His power was given as 50 watts, but he came in very well at R3. This, by the way, is the first American I have heard on a power of less than 100 watts.

For the several days following I was away, arriving back on New Year's Day. Heard only one new station this night, WMBD, Peoria Heights, who closed down at 9.00 p.m. He said that it was a policy of WMBD to broadcast a special programme for the first few hours of each New Year.

On January 3, KOH, in Reno, Nevada, broadcasting a programme "for distant listeners in all parts of U.S.A., Canada, and Mexico, and particularly for the Newark Radio Club." Came in very well at R5-3, and was heard for three-quarters of an hour—closing down at 8.00 p.m.

The following evening, January 4, KWG, Stockton, California, was heard. (Concluded on page 22.)

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

NEW SEVEN VALVE ZANEY-CILL

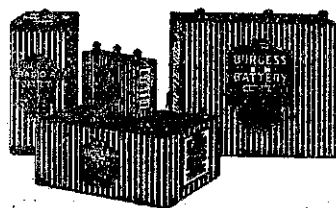
Lifelike Realism of tone
Never before attained in Midget Type Radio

Three Multi Mu S-G Tubes
Push-Pull Pentodes
Minimizes Static and Interference
Full Vision Dial



NORTH ISLAND DISTRIBUTORS.
A.H. NATHAN LTD
Box 345 Auckland.

SOUTH ISLAND DISTRIBUTORS.
ROYDS-HOWARD CO.
553 COLOMBO ST. CHRISTCHURCH



**BURGESS
RADIO
BATTERIES**

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.

DX49MC: Would my reception be improved if I installed a pair of headphones?

A.: It is doubtful. By installing phones you would pick up a tremendous amount of noise which would probably drown the weaker stations. An article on this subject appeared in the "Radio Record" of August 7, 1931.

S.M.C. (Mokau): The Daniel cell charger was fully described in the "Radio Record" dated November 7, 1930.

A.B.N. (Grey Country): I have a five-valve commercial set, and use PM6 in the last and second-last stages. Are my valves placed correctly?

A.: Up to the second last stage, yes, but you should not use PM6 in that position. It is unquestionably a last stage valve, and should not be used elsewhere. Substitute it with a valve of the 221 class. Otherwise your valves are quite satisfactory.

2. When I remove the wires from the bias battery, reception is clearer and stronger. If I reverse the wires reception is still better. The black wire goes to + and the brown to —.

A.: We cannot help you, for we do not know where the black wire should go. Trace it out, if you can, and see if it goes to A— or B—. If that is the case then your connecting it to + is correct. If the C battery is reversed you will run down your B battery, shorten the lives of the valves, and incidentally introduce distortion. It seems, however, that by connecting the black wire to C+ you are correct.

J.A. (Kartigi): I have a six-valve set, and am using 5 201A and PM6 detector. Are these valves right?

A.: You should not use 201A in the

last stage. The valve in this case should be of the B805 high gain power valve type, suitably biased.

2. My aerial is 75 feet at one end and 35 at the other end, and I am using 150 volts B. Is this too much?

A.: Your aerial is quite good, and you have ample B battery. It is certainly not too much, and you will appreciate the high voltage when you install a power valve in the last stage. From your sketch we cannot pick out which is the power valve, but you can detect it by finding the plate wire and seeing if it goes to one of the speaker terminals. Perhaps an easier way would be to find the valve which is connected directly with one of the speaker terminals.

MAT B. (Auckland): I have a crystal set which functions perfectly on my next door neighbour's set and elsewhere. When I put it on my own aerial and earth I cannot get a sound. What is the matter?

A.: We do not know. If you are quite certain your aerial and earth are irreplaceable, our only suggestion is that you have a defective lightning arrestor in the circuit.

INTERESSANT (Christchurch): You have not said what type of condenser you wish to use. Presuming you use .00015 for tuning and reaction, the following specifications should suit your requirements:—30 to 50 metres, secondary 8 $\frac{1}{2}$, reaction 10 $\frac{1}{2}$ turns (30 d.s.c.); 16 to 30 metres, secondary 6 $\frac{1}{2}$, reaction 5 $\frac{1}{2}$ turns (30 d.s.c.); 10 to 16 metres, secondary 2 $\frac{1}{2}$, reaction 3 turns (30 d.s.c.).

Puzzled (Westland): See the dx column for your first query.

2. What form of aerial is desirable if you wish to receive the maximum number of stations, including the reception of stations in daylight?

A.: The Beverage aerial is best. The full details were published in "R.R." of October 3, 1931.

3. Does the power of the set gradually decrease as the "A" battery is discharged?—Yes.

MUSIC LOVER (Auckland): My 4-valve a.c. set oscillates on the lower end of the broadcast band.

A.: Have you an efficient earth on the set? Try another 551 valve in the correct socket. See that all the shields are making perfect contact with the main shield. Failing this insert 500 ohms grid suppressors between the coil and the grid of the valve. This should not be necessary, however.

2. What is the best method of connecting a pickup to a set?

A.: By breaking the grid and connecting the pickup between this point and earth.

3. The set contains an r.f. choke wound on a wooden former. Would a shield choke make any difference?

A.: Quite possibly, as this unit may be picking up stray r.f. currents.

CURIOUS (Timaru): What kind and what is the filament voltage of an Ozarka type A valve?

A.: We do not know the make, but the chances are ten to one that it is a 201A type of valve. This is a general purpose valve employing five volts on the

filament, and 45 to 180 on the plate. It can be used in any socket of a battery set except the last.

2. Can dry cells be recharged from a bicycle generator?

(Concluded on page 24.)

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

N.Z.'s. OWN RADIO BOOKSHOP—

LATEST ARRIVALS

"Radio Call Book and Technical Review," (formerly Citizens' Call Book Quarterly), January, 1932, 1/11.

Gernsback's "1932 Official Radio Service Manual," 40/- (complete diagrams of all 1931-32 receivers—a bumper book which no dealer should miss).

"Wireless: The Modern Magic Carpet," by Ralph Stranger, 5/- (New stocks just arrived—The "Radio Record" and Mr. Dawson, Philips Lamps, say no set owner should miss this).

Mack's List of World Short-wave Stations, 7d. (Don't miss this.)

"Collins's Wireless Diary, 1932," 4/6. (A mine of information.)

"The How and Why of Radio, 1931," by Hunter. Illustrated—Recommended, 3/8.

"Radio Engineering Principles," by Lauer and Brown, 19/- (A general text-book on radio).

"Drake's Radio Encyclopedia, 1931" (practical reference work), 45/-.

"The Microphone," (U.S.A. monthly for amateur radiophone), 1/-.

"101 Hook-ups" ("Radio news"), 2/11.

"Modern Sets, 1932," 1/8.

"Radio Call Book and Technical Review" (formerly Citizens' Call Book Quarterly), Dec. issue, 1/11.

"Break-in" January, 1932 (N.Z. Amateur's publication), 6d.

"Radio Questions and Answers" ("Radio Record"), 1/8.

"N.Z. Radio Handbook, 1931," 2/6.

"Mathematics of Radio," by Rider, 13/8.

"Radio Physics Course," by Ghirardi—revised and enlarged. Answers every question on Radio, Electricity, Television and Talkies. First lot sold on sight. More stocks on way. Book now, 30/-.

"Television," by Sheldon and Grisewood—America's best publication. Details for building your own set. 18/2.

"Mathematics for Practical Men," by Howe. Simplicity itself, 10/9.

"Radio: A Study in First Principles," by Burns, 13/- (Simple and clear.)

"Sound Pictures and Trouble Shooters' Manual," by Cameron and Rider. The projectionist's "sheet-anchor," 46/-.

"Practical Radio Repairing Hints," by Rider. Stocks never last long, 13/3.

"Scott's Radio Handbook, 1931," 1/8.

"Wireless Weekly," 32-page call-sign book, let for broadcasters, amateurs and short-waveers, 4d. (Useful.)

"Morse Made Easy," 7d.

"Radio Log and Lore" (World's Best Log of the World), 1/10.

"Radio Log" (N.Z.), Dec., 7d.

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

Blue Prints—"Batteryless 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.

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

"Direction Finding," by Keen, 27/-.

OUR LOCAL AGENTS:

Auckland: F. R. Jeffreys, 466 Queen St.

Palmerston North: Radio Supplies & Service Co. (E. B. Borham), 245 Main St.

Blenheim: Tomlinson & Gifford.

Nelson: Keith Walker, Baird's Buildings.

Timaru: J. H. Healey, Bookseller.

Christchurch: A. T. Williams, Bookseller, 35 Cashel St. W.

Dunedin: H. H. Driver, Bookseller, George St.

ALL RADIO MAGAZINES STOCKED.

PRICES QUOTED INCLUDE POSTAGE.

WRITE US NOW.

TE ARO BOOK DEPOT

61 COURTENAY PLACE, WELLINGTON

Radio Serviceman's Course

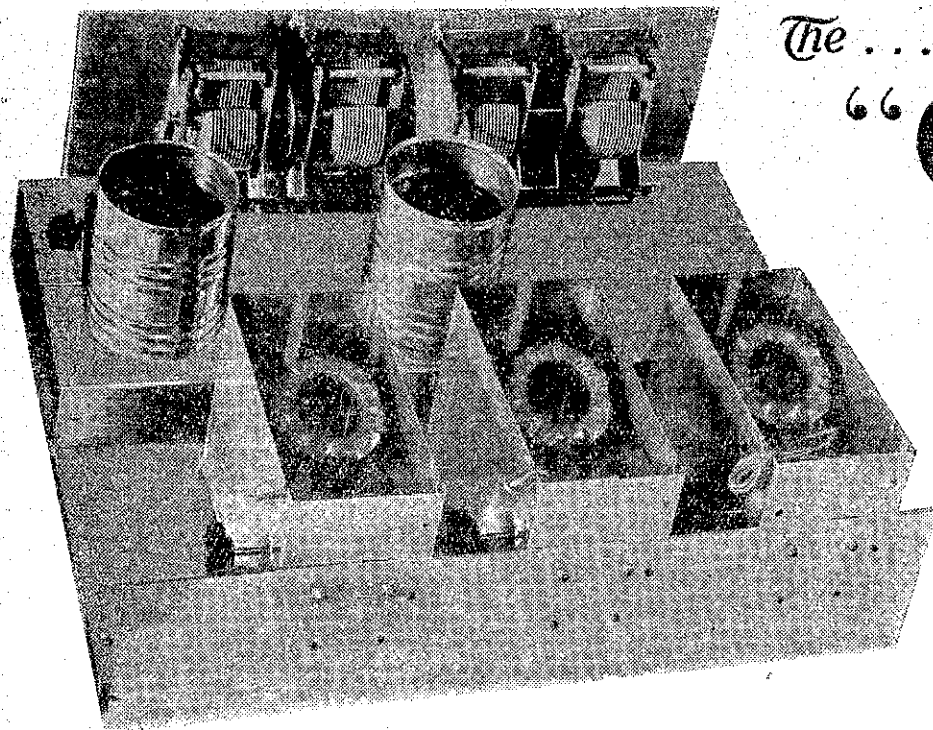
The newly instituted Radio Serviceman's Examination calls for an exact knowledge of radio principles and a correct diagnosis of radio troubles.

Can you face the examiner without being afraid of the results?

Write for our special course now and be in time for the next examination. Complete syllabus coverage. Results assured.

**JOHNSON'S WIRELESS AND
RADIO SCHOOL,**

St. George Buildings, 8-10 Brandon St.,
Wellington.



The ...

"Cathode" Super

A powerful six-valve all-wave
a.c. superheterodyne, designed
and described by

"CATHODE"

In commencing the description of this highly developed design, it is perhaps advisable to be at some pains to impress upon the reader that, unlike the simpler short-wave superhet., recently described, this receiver is not a fit subject for casual experimenting by the amateur set-builder. A great deal of time and experiment has been spent in working out the circuit constants and the details of the design, and if it is desired to equal the splendid performance of which the set is capable in its original form, the builder must be prepared to follow the instructions given in their entirety. Such modifications as are

considered permissible will be specifically mentioned.

Readers may be interested to know how the "Cathode Super" came into being. It was this way. "Cathode" in his vocation of radio engineer was consulted by a client who wished to obtain the absolute maximum of useful result in both broadcast and short-wave reception. The question of cost did not enter into the matter. When the commercial receivers available came to be reviewed, however, it was found that there was not a single receiver commercially procurable which would give the required results.

The question was then put as to whether "Cathode" could design and

construct a suitable receiver, and the great work was undertaken.

The usual minor troubles were encountered, of course, but in its essentials the "paper" design proved absolutely "right" from its commencement. In the outcome the results on both long and short waves were uniformly excellent, and the client was no less surprised and delighted than "Cathode" himself.

It should be mentioned here that certain features of the receiver, notably the oscillator circuit and its coupling to the first detector, are the subject of patent applications which will doubtless be granted in due course. The designer has no objection whatever to these features being made use of by amateurs building receivers for the use of themselves and their families, the patent applications being made merely

to prevent commercial exploitation of the particular principles involved. No fears need be entertained, therefore, regarding contravention of these particular patents.

The big receiver has been christened the "Cathode Super," partly because it employs six "indirectly-heated" cathode valves, but principally because its designer feels that it represents a fitting climax to a successful series of set designs. "Cathode" takes a certain pride in having his now familiar nom-de-plume associated with so outstanding a design.

The Circuit.

TURNING to the circuit diagram of Fig. 1, it will be seen that the receiver incorporates all those features which have been found desirable in modern design. It functions on the

ELECTRAD

WE announced last week the ELECTRAD wire-wound resistance which we believe to be the best manufactured.

These resistances were offered at prices showing a considerable reduction, and are now cheaper than many resistances of inferior quality.

Your attention is now drawn to the ELECTRAD ROYALTY VARIABLE RESISTANCES, which can be used as either potentiometers or rheostats.

Type.	Maximum Resistance.	Current in M.A.
A	7 Megohm	0.2
B	100,000 Ohms.	5.0
C	50,000 "	7.5
D	700,000 "	2.0
E	500,000 "	2.5
F	2,000 "	37.5
G	10,000 "	18.5
H	25,000 "	10.5
J	200,000 "	4.0
K	5,000 "	23.0

PRICE - - 7/6 EACH.

Watch our future advertisements announcing additional Electrad Products.

THOS. BALLINGER & CO., LTD.

58-62 VICTORIA STREET :: WELLINGTON.

"WHERE THE QUALITY GOODS ARE SOLD."

"THE CATHODE SUPER"

OUR LIST OF BRITISH PARTS

- | | |
|--|---------|
| 1 Formo 4-Gang .0005 Shielded Condenser, complete with trimmer and dial. | £3/17/6 |
| 1 25,000 Colvern wirewound Potentiometer | 7/6 |
| 2 Colvern 6-pin Bases, each, 2/6 | 3/3 |
| 6 Colvern 6-pin Coil Former, ea., | 6/3 |
| 1 3in. Diameter Former, 4in. long, | 10d. |
| 1 .0001 Mica Dielectric Condenser | 4/6 |
| 3 900 ohm. Telsen Spaghetti Resistors, each | 1/- |
| 3 2,500 ohm Telsen Spaghetti Resistors, each | 1/3 |
| 3 25,000 ohm. Telsen Spaghetti Resistors, each | 1/6 |
| 1 20,000 ohm. Telsen Spaghetti Resist. | 1/6 |
| 2 15,000 Electrad (U.S.A.), each | 5/- |
| 1 40,000 Electrad (U.S.A.), 7/- | 1/6 |
| 1 100,000 Fixed Resistor | 2/- |
| 1 60 ohm C.T. Resistor | 2/- |
| 14 1 Mfd. Condensers, 500-volt test, each | 2/3 |
| 1 2 Mfd. Condenser, 500-volt test. | 3/3 |
| 1 4 Mfd. Condenser, 500-volt test | 6/3 |
| 1 .0001 T.C.C. Fixed Condenser Mica | 1/6 |
| 2 H.F. Chokes, McMichael high-quality binocular, each | 6/- |
| 6 5-pin Sockets, A.W.A., ea., 1/6 | 1/6 |
| 3 Intermediate Coil Holders, 1 set | £2/17/6 |
| 6 .001 Compression Condensers, Formo Denser, type G, ea., 2/3 | 12/6 |
| 1 Telsen Radio Grand Transformer, 3-1, | 12/6 |
| 4 Philips UY 224 Valves, ea., 8/- | 8/- |
| 2 Philips UY 227 Valves, ea., 7/6 | 5/- |
| Screws, nuts, wire, solder, tags, etc., about | 5/- |
| 1 .0002 Telsen Fixed Condenser | 9d. |

F. J. W. FEAR & CO.

63 WILLIS STREET, Telegraph "Fear." WELLINGTON.

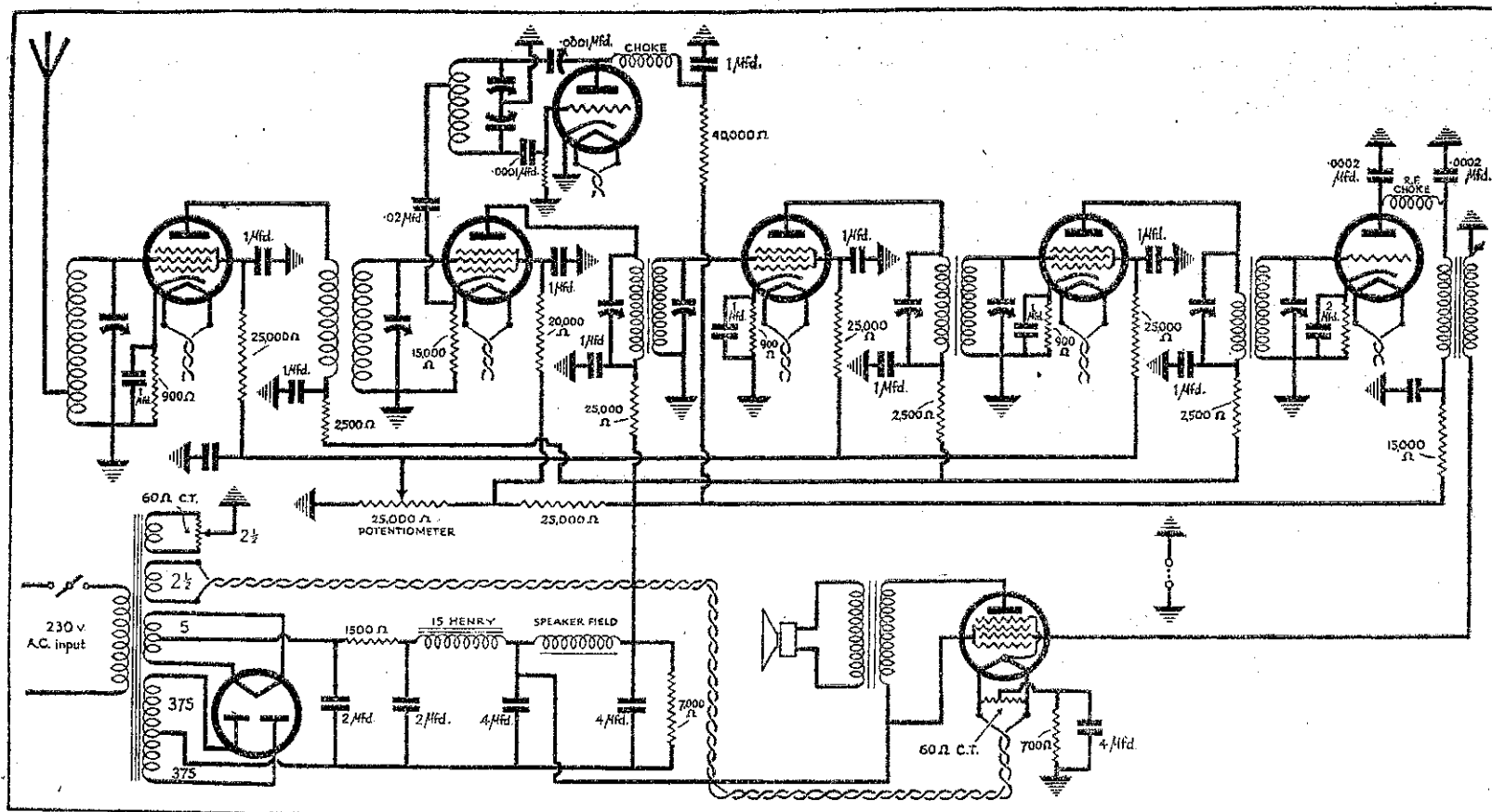


Fig. 1.—Theoretical circuit of the "Cathode" superheterodyne.

superheterodyne principle, of course, and the reader who has read the earlier articles in this series will have no difficulty in following the operation of the set. The first valve amplifies at radio frequency in order to provide a certain amount of selectivity ahead of the frequency changer.

Without some provision of this kind, trouble might be encountered with powerful local stations in the vicinity, as superheterodynes are rather given to

receiving stations at more than one point on the tuning dials.

The radio-frequency amplifier is transformer-coupled to the first detector. A screen grid valve is employed in this position, and for a very good reason. It has been shown that the efficiency of a valve operating as a cumulative grid first detector in a super is but a small fraction of that which it shows in its more normal sphere of rectifying r.f. modulated at audio frequencies. On the other hand, a three electrode valve operating as a plate-band detector is notoriously insensitive to small inputs. The screen-grid valve, however, may be employed as a plate-band rectifier, and in this service will show an efficiency which compares favourably with the efficiency factor of a grid leak detector in normal service.

The oscillator valve functions as a modified Colpitts oscillator, the regeneration being supplied by the coupling between the two condensers which, in series, tune the oscillator coil. It has been found that this type of oscillator functions smoothly and reliably on short as well as broadcast waves, while being noticeably free from "dead spots" which might necessitate having an unnecessary amount of feed-back at some points to ensure its being adequate at others.

The oscillator is a type 227 valve, and is coupled to the first detector via the biasing resistor of the latter. Although the operation may be a little difficult to grasp at first sight, this coupling is effective in varying the grid potential of the detector in sympathy with the applied oscillations, yet without introducing undesirable coupling coils into the grid circuit directly. In case any conscientious constructor should chance to observe that the biasing resistor of the first detector is the

only one in the set without a by-pass condenser and hasten to rectify the omission, it should be mentioned here that the insertion of a condenser at this point will render the receiver completely inoperative.

The output of the first detector feeds into the intermediate amplifier, which is tuned throughout with band pass couplings. That is to say, there are in all six coils and six semi-variable condensers to tune them. The actual coupling is effected by the mutual inductance existing between primary and secondary of the band pass units. There is not space here to go into the merits of the band-pass system of tuning, and we must content ourselves with saying that, in addition to the enhanced selectivity which it lends, it seems to be the most practical method of realising the "flat top" resonance curve which is generally considered desirable.

There are two screen-grid intermediates, the second feeding into a plate bend or "power" detector, for which a 227 type valve is employed. From

this point, the constructor may be permitted some latitude in making a choice of an audio amplifier. The description refers to a straightforward transformer coupling to a UY 247 pentode, but to suit individual requirements this could be altered to provide push-pull coupling to a pair of power
(Concluded on page 24.)

A money back guarantee covers every purchase

Crosley Merola Pick-up
with Volume Control. 47/6 each
22½-volt B Batteries—
—Portable size 4/6 each
Philips B443 Valves. 18/6 each
Philips A442 Valves. 18/6 each
25ft. Speaker Cords. 2/3 each
50ft. Speaker Cords. 5/- each
Igranie Broadcast H.F.
Chokes 4/6 each
Battery Cables—5-wire. 2/3 each
Battery Cables—5-wire
with Fuses 5/6 each
Electric Combs 4/9 each

BOB HORROBIN
"Flashlight Corner" 2 Courtenay Place
WELLINGTON
Quick Repairs Phone 22357

T.C.C. Radio Condensers for Accuracy and Quality

N.Z. Representatives:
TURNBULL & JONES, LTD.
Auckland, Wellington, Christchurch, Dunedin.

British-Made Accumulator Tester

—Accurate. 1 - each. Reliable—

Like a Fountain Pen Filler with Rubber Bulb, it has three Coloured Beads which float when the cell is charged and the acid density is correct. You can keep your "A" or "B" Accumulator in good order.

Transmitting Keys 13/6, Special 17/6. Transmitting Condensers—Dubilier.

A. E. STRANGE

404 WORCESTER STREET :: :: CHRISTCHURCH.

Feature Peeps

At

Future Programmes

SUNDAY

From Auckland

THE evening service in Beresford Street Congregational Church will be broadcast. The Rev. Lionel B. Fletcher will be the preacher, with Mr. W. Gemmell at the organ and Mr. A. Cherry as choirmaster.

A relay of the concert to be given in Albert Park by the Municipal Band, under Mr. G. Buckley will follow.

Wellington Notes

THE service to be held in St. Gerard's Redemptorist Church will be broadcast. A concert to be presented by the Wellington Artillery Band under Captain T. Herd and assisting artists will follow.

From Christchurch

THE Rev. T. W. Armour will be preacher at Knox Presbyterian Church, when the service will be broad-

cast. Mr. A. G. Thompson will be the choir conductor, with Miss Victoria Butler at the organ. A relay from 4YA will follow.

Dunedin Features

A SALVATION ARMY service will be broadcast, Adjutant Tong being the speaker.

The principal performer on the evening's concert programme will be Margherita Zelanda, coloratura soprano. Mr. A. Lungley, baritone, will also be singing. An orchestral programme will be provided by Pettitt's Instrumental Sextet and a band programme by the St. Kilda Band.

MONDAY

Wellington Features

A MORNING talk about "Cooking" and a talk at 7.0 by a representative of the New Zealand Institute of Opticians will comprise the lecturettes.

The evening programme will be of an operatic-classical nature. The vocal portion will be contributed by a talented trio—Signora Bulmas (soprano, late of Sydney), Miss Ruth Mann (contralto), and Signor Lucien Cesaroni (bass).

Signora Bulmas and Signor Cesaroni will be heard in two duets—"The Singing Lesson" and the grand duet, from "Aida," "Heaven, My Father." Miss Mann and Signor Cesaroni will sing "O Lovely Night." Among the solos to be presented will be "Marie, Marie," "Ombra Mai Fu," "Tosca's Prayer," "The Song of the Flea," and "Old Drinking Song," the last two being by Signor Cesaroni.

Miss Mary Cooley, well remembered for her performance in "Joan of Arc," will appear as a storyteller, narrating a tale by O. Henry.



ROBERT MCKNIGHT,
who will entertain 1YA listeners with
a group of concertina numbers on
January 28.

3YA Notes

AT noon 3YA is going on the air to broadcast reports of the wool sale to be held in the Caledonian Hall.

To celebrate the anniversary of the birth of Robert Burns, a Scottish programme will be broadcast.

This will be provided by the Christchurch Municipal Band and assisting

artists, with additional instrumental items by the Melody Trio and recordings by Harry Lauder. During the evening Lord Rosebery's eulogy of Scotland's great poet will be broadcast.

Dunedin Features

A PROGRAMME of specially-selected recorded items will be presented. Orchestral selections, choruses, solos by Galli-Curci, John McCormack (tenor), Gigli (tenor), Thomas (tenor), and Newall (baritone), violin solos by Helfetz and Roderick Gray are included.

TUESDAY

1YA Notes

THE speaker for the W.E.A. session will be the Rev. W. Monckton, who will discuss "Present-day Problems."

In the evening, "A Night w/ Rabble Burns," to be given by the Caledonian Concert Party, will be featured.

From Wellington

The evening's concert programme is entitled "The Spirit of 1932" and is to be given by the Wellington Optimists Club, assisted by the Salon Orchestra under Mr. M. T. Dixon.

4YA Features

A CONCERT by the Dunedin Philharmonic Society under the conductorship of Signor Squarise will be broadcast. Associated with the or-

MORE BARGAINS MORE BARGAINS

NEW LOW PRICES NEW LOW PRICES

Limited Stocks—Send Cash
with Order—Please include
freight.

TRANSFORMERS.

Jefferson AF oversize. Were 12/6. Now 8/6
Zadek AF special windings. Were 14/6. Now 12/6
Freshman Output 1-1 ratio. Were 10/-. Now 5/-

INSULATORS.

Beehive Insulators for transmitters. Were 2/6. Now 2/-
Glass Special Lo-Loss. Were 1/- Now 9d.

VARIABLE CONDENSERS.

Quaker Var. Condensers. Were 8/6. Now, any size, 6/-
J.B. De Luxe Var. Condensers, various sizes. Were 12/- to 14/- Now 11/- to 13/-
Continental Condensers. Were 7/6, any size. Now 6/-

BATTERIES.

Lissen 4½-v. C Batteries. Now 9d.

SWITCHES AND PLUGS.

Automatic Switches for eliminators and trickle chargers. Were 21/-. Now 10/-
Frost Snap Switches. Were 2/9. Now 1/9
Marco Multi Plugs. Were 4/6. Now 3/-
H. & H. Sure-Grip Plugs. Were 2/3. Now 2/-

DIALS.

Bakelite 4in. Were 2/-. Now 1/6
Bakelite 3in. Were 1/6. Now 1/3
Bakelite 2in. Were 1/3. Now 1/-

COILS AND BASES.

6-Pin Coil Bases. Were 3/3. Now 2/-
6-Pin Coil Formers. Were 4/-. Now 3/-
Aero S-Wave Coils, 15-130 meters. Were 35/-. Now 15/-

L. B. SCOTT LTD.

MANCHESTER AND WORCESTER STREETS, CHRISTCHURCH.

Pulmonas
PASTILLES
for
COUGHS and COLDS



ADDIE CAMPBELL,

"The Bendigo Nightingale," who will be heard from Christchurch on Wednesday, January 27.

chestra will be Mrs. E. Stone (contralto) and Signor Giovanni Stella (tenor).

WEDNESDAY

From 1YA

THE W.E.A. lectures on "Literature and Life" will be continued by the Rev. W. Jellie.

The concert session will be devoted to the presentation of an historical drama, "The Favourite of the King." It is a three-act play, written by Dr. George De Clive Lowe, and will be presented under the direction of Mr. J. M. Clark.

Wellington Notes

A PROGRAMME of recorded items, opening with an exceptionally fine piece of orchestral work by Cesar Franck, "The Accursed Hunter," will be broadcast. During the evening Dr. Scholesfield will deliver a topical lecturette.

Christchurch Features

Miss Addie Campbell, late of Australia, where she was known as the "Bendigo Nightingale," will be the vocalist this evening. One of her four solos will be the popular "Indian Love Call," by Friml. She will also sing "Roses of Picardy."

The Campbell Boys, past masters on the English concertina, will play a number of selections. That talented combination of sketch artists, the Mascots, will present two entertaining sketches, "The Miracle" and "Jacob's Dream and Awakening." Maisie Outey will contribute some piano novelities. The Studio Orchestra and a variety of selected records will provide the balance of the programme.

4YA Features

"A Night with British Composers," featuring the works of eminent British musicians, with in-

troductory remarks and vocal and instrumental illustrations, will be the programme to be presented by Mr. G. W. Johnstone and his concert party.

THURSDAY

Auckland Notes

MR. E. BLAIR will give another one of the series of W.E.A. talks on "Art and Craft on the Amateur Stage."

An orchestral programme of a popular nature, mezzo-contralto songs by Mrs. Hawea Rees, humour by Miss Nomi Wright, popular duets by Miss Sylvia Pointer and Reg. Morgan, with baritone solos by Reg. Morgan, popular airs on Robt. McKnight's concertina, a topical talk by Mr. A. B. Chappell, and a number of novelty records will comprise the evening's concert programme.

From 2YA

THE evening concert will be provided by the Royal Naval Volunteer Reserve Band and 2YA artists, while the "Serenaders" (male voice quartet) will be heard in a number of popular melodies. Special recordings will be introduced into the programme and during the evening Mr. Arthur Cone, the young American who is hitchhiking round the world, will tell of his experiences in Australia.

3YA Notes

The Prime Minister will be the principal speaker at the official opening of the County Horticultural Society's First Grand National Show, to take place at 2.30, and which will be broadcast.

In the evening Mr. H. De O. Chamberlain will talk about "Boys' and Girls' Agricultural Clubs." A talk will also be given by Mr. E. E. Wiltshire, of the Canterbury Horticultural Society.

A recital of baritone songs will be featured on the evening's programme, the singer being Rex Harrison, well known throughout New Zealand and Australia.

He will present a quartet of popular numbers—"Song of the Tormentor," "To be Near my Beloved," "Kashmiri Song," and "Harbour Night Song."

From Dunedin

4YA will be on the air during the afternoon to broadcast results from the Forbury Park Trotting Club's meeting.

FRIDAY

Auckland Notes

FROM noon, 1YA will broadcast results from the Takapuna Jockey Club meeting.

A novelty programme by "The Radiators," interspersed with popular orchestral and banjo recorded numbers, will be broadcast in the evening.

Wellington Features

C. S. DEMPSTER will entertain 2YA listeners with another instalment of his cricket reminiscences.

The Wellington Apollo Singers, a very popular combination singing under the baton of Mr. H. Temple White, will give a studio performance in the evening. Listeners will hear "Drake's Drum" sung in Coleridge Taylor's setting, which has not previously been broadcast.

Also on the evening's programme will be the Aeolian Quartet of male voices, and Miss Kathleen Wood, soprano, who will sing "Nymphs and Fawns." Miss Joan Maunder, a musical monologue entertainer who has been very successful at Competitions, will make her first appearance in radio, presenting "Bredon Hill."

From 3YA

ANOTHER of the talks on "Tours and Motor Driving" will be broadcast by Mr. J. S. Hawkes, secretary of the C.A.A.

A programme of light variety will be broadcast in the evening.

Dunedin Notes

THE Philharmonic Four (vocal quartet), Stokes' Banjo Quartet, Dagg's Dance Band, and Madame Reggiardo's Instrumental Sextet will provide the evening's programme.

SATURDAY

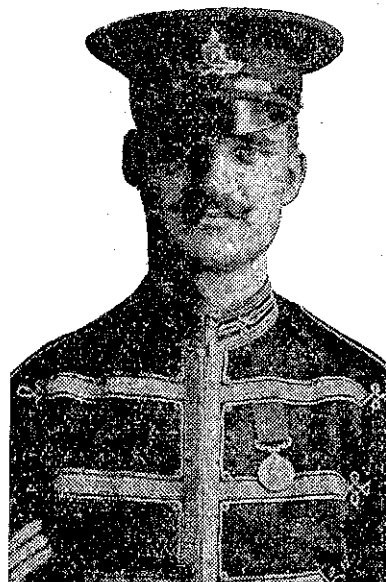
From Auckland

1YA will be on the air at noon to broadcast race results from Takapuna.

During the evening there will be a relay of some of the broadsiding races at Western Springs. The concert programme will be of a light vaudeville nature.

Wellington Notes

A PROGRAMME of light entertainment will be broadcast, a special attraction of the evening being the next of the series of talks



H. G. GLAYSHER,

well-known to Christchurch listeners as a harpist. Mr. Glaysher will render a group of traditional airs on January 29.

—P. Andrew photo.



DR. G. DE CLIVE-LOWE,

whose play "The Favourite of the King" will be broadcast by Mr. J. M. Clark and Company from 1YA on January 27.

—Photo, Crown Studio.

by Mr. B. S. Merlin on his adventures with the Bolsheviks.

The singers will be Miss Kathleen Ferris (soprano) and Mr. S. Evelyn Rodger (baritone), while the Salon Orchestra, under Mr. M. Dixon, will provide a varied programme. The recordings for the evening will include orchestral and band numbers, a flute quartet, and a light opera male chorus.

From Dunedin

AT intervals from noon 4YA will broadcast trotting results from Forbury Park.

Ever-popular plantation songs, sung by the Harmony Four, will form a considerable portion of this evening's programme. Quartet numbers will be a feature, but solos will also be sung by J. Kennedy (tenor) and A. M. McDowell (bass). A novelty quartet led by Ted Heaney will present selections of Irish and Scottish airs and popular melodies. Scottish humour in song and story will be presented by James Patterson. There will be duets of a popular nature from Edward and Violet Mee. The instrumental portion of the programme will be provided by a trio consisting of Madame Reggiardo, Anna Briasco, and P. Palmer. There will be a number of recordings, including "The Campbells are Coming," as played by a drum and fife band. The evening's programme will also be broadcast by 3YA.

IT is reported in the London Press that the King has bought a new four-valve portable set. There is a permanent set installed at Buckingham Palace, but it is said that the King also likes to have a portable set to take about with him when he travels. It is reported that he has bought a new one each year for the last five years.

Use Our Booking Offices in Advance

S-O-S

TRAVEL IN COMFORT BY
CAR

WELLINGTON - PALMERSTON
NEW PLYMOUTH

"The Valve With the

TRAIL BLAZER OF



Life-like Tone."

THE INDUSTRY

Specially selected by
Manufacturers because

America's Leading Set
of their reliability.

OBTAINABLE AT ALL GOOD RADIO DEALERS.

Full Programmes for Next

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

Sunday, January 24

1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, JANUARY 24.

- 3.0 : Selected recordings and literary selection.
 6.0 : Children's song service, conducted by Uncle Leo.
 7.0 : Relay of service from the Beresford Street Congregational Church.
 Preacher: Rev. Lionel B. Fletcher. Organist: Mr. W. Gemmell.
 Choirmaster: Mr. A. Cherry.
 8.30: Relay of Municipal Band Concert from Albert Park. Conductor, Mr. Geo. Buckley.
 March—The Band, "The Crusader" (O'Donnell).
 Overture—The Band, "Pique Dame" (Suppe).
 Trombone—Mr. Greg. Smith, "The Trumpeter" (Dix).
 Selection—The Band, "Preciosa" (Weber).
 Piccolo—Mr. Hal McLennan, "The Rose" (de Ville).
 Characteristic—The Band, "The Mill in the Black Forest" (Ellenberg).
 Suite—The Band, "Coppella" (Delibes).
 Hymn—The Band, "O Gladsome Light" (Sullivan).
 March—The Band, "The Champion" (Graham).
 God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JANUARY 24.

- 3.0 : Selected gramophone recordings.
 6.0 : Children's evening song service conducted by Uncle George, and assisted by the combined children's choirs from the Presbyterian Churches, Lyall Bay and Kilbirnie, under the leadership of Mr. Crawford and Mr. Littlejohn.
 6.55: Organ—"Meditation" (Pache).
 Rosary with Choral Responses.
 Antiphon—"Alma Redemptoris" (Phillips).
 Sermon—Rev. J. Cullen, C.S.S.R.
 Hymn—"Sweet Sacrament Divine" (Stanfield).
 Motets—"O Salutaris" (Tanner); "Ave Verum" (Mercadante); "Tantum Ergo" (Russell); Recital of Divine Praises; "Adoremus" (Allegri).
 Organ—"Allegro in A Flat" Rinck.
 Organist: Mr. H. Mount. Choirmaster: Mr. F. J. Oakes.
 8.15 (approx.): Studio concert—Wellington Artillery Band, Conductor, Captain T. Herd, V.D., assisted by Mrs. Catherine Goodson, soprano; Mr. Newton Goodson, baritone; Mr. Claude Tanner, cellist, and Philomel Quartet.
 Band—(a) Hymn, "Fierce Raged the Tempest" (Dykes); (b) March, "Champion of the North" (Kearsley); (c) Overture, "The Crimson Star" (Greenwood).
 Soprano—Mrs. Catherine Goodson, (a) "I Will Extol Thee" (Costa); (b) "The Heart of a Rose" (Elaine Defries).
 Cello solos—Mr. Claude Tanner, (a) Prelude from "Herodiade" (Massenet); (b) "Wegenglied" (Brahms); (c) "La Cinquantaine" (Gabriel Marie).
 Philomel Quartet—(Misses Muriel Hitchings, Agnes McDavitt, Rae Burns, Roma Burge). (a) "The Bridegroom" (Brahms); (b) "The Two Clocks" (Rogers).
 Band—Cornet solo (with band), Sergeant W. H. Bowman, "Robin Adair," with variations, (arr. Hartmann).
 Weather report and station notices.
 Duet—Mrs. Catherine Goodson and Mr. Newton Goodson, "The Day is Done" (Lohr).
 Cello solos—Mr. Claude Tanner, (a) "Cantabile" (Goltermann); (b) "Melodie Arabe" (Glazounov); (c) "Andante" (Gluck); (d) "Rigandon" (Rameau).
 Soprano—Mrs. Catherine Goodson, (a) "Tell Me, My Heart" (Bishop); (b) "Damon" (Max Stange).
 Band—(a) Cornet and Euphonium Duet with band—Sergeant Bowman and Bandmaster Hildreth, "Anthony and Cleopatra" (Riviers); (b) "Pilgrims' Chorus" (Wagner).
 Baritone—Mr. Newton Goodson, (a) "Boat Song" (Harriet Ware); (b) "A Song of Sleep" (Somerset).
 Philomel Quartet—(a) "Brisk Love Lull" (arr. Robertson); (b) "Barcarolle" (Brahms).
 Record—Violin solos—Master Yehudi Menuhin, (a) "La Capricciosa" (Ries); (b) "Allegro" (Fiocco).
 Band—(a) Selection—"Masaniello" (Auber); (b) March—Seventy-Infantry" (Code).
 10.0 : God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, JANUARY 24.

- 3.0 : Gramophone recital.
 5.30: Children's song service by children of Presbyterian Sunday schools.
 6.15: Chimes.

6.30: Selected gramophone recordings.

7.0 : Relay of evening service from Knox Presbyterian Church, Bealey Avenue. Preacher, Rev. T. W. Armour. Organist, Miss Victoria Butler. Choir Conductor, Mr. A. G. Thompson.
 8.15: Relay of concert programme from 4YA, Dunedin.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JANUARY 24.

- 3.0 : Chimes. Selected recordings.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.15: Instrumental recordings.
 6.45: Relay of evening service from the Salvation Army Citadel, Dowling Street, conducted by Adjutant Tong.
 8.15: Third concert by Margharita Zeland, coloratura soprano, assisted by the St. Kilda Band, under the conductorship of Mr. James Dixon; Mr. Arthur Lungley, baritone; and the Instrumental Sextet under Mr. A. H. Pettitt.
 Margharita Zeland will sing:—"Fairies from the Moon." (Russell); "The Blacksmith" (Brahms); "The Starlings" (Woodford-Finden); "Caratina" "Quel Guardo it Cavallere," from "Don Pasquale" (Donizetti); "Nea" (Pontet); "Yesterday and To-day" (Spross); "Whether Day Dawns" (Tchakowsky); Recitative: "Quella Fonte" and Aria "Reguava Nel Silenzio" (from "Lucia di Lammermoor." (Donizetti).
 The orchestral numbers will be selected from:—"Sumer Dago Suite" (Coates); "Gressenhall Suite" (Woods); "Menuet Pompadour" (Wachs); "Ballroom Chatter" (Albi); "La Voix des Cloches" (Lingini); "Kwang Hen" (Lincke); "Pizzicato" (Thome); "Nocturne" (Mendelssohn).
 The Band will play:—"March—"Through Bolts and Bars" (Urbach).
 Fantasia—"United Kingdom" (Rimmer). Cornet duet—"Ida and Dot" (Losey). Selection—"Songs of Scotland" (Round). Overture—"Pique Dame" (Suppe). March—"Invercargill" (Rimmer).
 10.0 : God save the King.

2YB, NEW PLYMOUTH (123 KILOCYCLES)—SUNDAY, JANUARY 24.

- 7.0 to 8.15: Church relay.
 8.15 to 10.0: Studio concert.

Monday, January 25

1YA, AUCKLAND (875 KILOCYCLES)—MONDAY, JANUARY 25.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, JANUARY 25.

- 10.0 : Chimes. Selected gramophone recordings.
 11.12: Lecturette—"Cooking."
 12.0 : Lunch-hour music.
 2.0 : Selected gramophone recordings.
 3.30 and 4.30: Sporting results.
 5.0 : Children's hour, conducted by Uncle Jeff.
 6.0 : Dinner music session.
 7.0 : News, market reports and sports results.
 7.40: Lecturette under the auspices of the New Zealand Institute of Opticians, "For Better Vision."
 8.0 : Chimes. Record—Milan Symphony Orchestra, "The Sicilian Vespers."
 8.8 : Signor Lucien Cesaroni's Operatic Trio—Soprano and Concerted—"Marie, Marie" (di Capua). Bass—"Corale" and "Piff, Paff" from "Les Huguenots" (Meyerbeer). Contralto with cello obbligato—"Ombra Mai Fu," from "Xerxes" (Handel).
 8.20: Orchestra—2YA Orchestrina, "Madame Butterfly" (Puccini).
 8.30: Soprano—Signora Bulmas, "Tosca's Prayer" (Puccini).
 Duet—Signora Bulmas and Signor Lucien Cesaroni, "The Singing Lesson" (Squire).
 8.37: Record—Piano, Mischa Levitski, (a) "Nocturne in F Sharp Minor" (Chopin), (b) "Etude de Concert" (Liszt).
 8.45: Bass—Signor Lucien Cesaroni, "Song of the Flea" (Moussorgsky).
 Duet—Miss Ruth Mann and Signor Lucien Cesaroni, "O Lovely Night."
 8.52: Orchestra—2YA Orchestrina, (a) "Serenade" (Pierne), (b) "Rakoczy March" (Liszt).
 9.0 : Weather report and station notices.
 9.2 : Record—London Flute Quartet, "Carnival of Venice" (Benedict).
 9.10: Duet—Signora Bulmas and Signor Lucien Cesaroni, "Heaven, My Father" (Verdi).
 9.16: Story—Miss Mary Cooley, an O. Henry story.
 9.24: Record—Grand Symphony Orchestra, "Jewels of the Madonna." (a) "Intermezzo," (b) "Apache Dance" (Wolf-Ferrari).

Week-all Stations-to Jan. 31

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

9.32: Contralto—Miss Ruth Mann, "My Prayer" (Squire).
 9.35: Soprano—Signora Bulmas, "Carissima" Valse (Penn).
 9.39: Records—Organ—Maurice D'Evry. (a) "Album Leaf" (D'Evry); (b) "Meditation" (D'Evry).
 9.45: Bass—Signor Lucien Cesaroni. (a) "Unhappy One" (Verdi); (b) "Old Drinking Song" (trdtl.).
 9.52: Orchestra—2YA Orchestra, "Confidence" (Mendelssohn); "Funeral March of a Marionette" (Gounod).
 10.0 : Dance programme.
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, JANUARY 25.

12.0 : Resume reports from wool sale, interspersed by gramophone records.
 4.30: Sports results.
 5.0 : Children's hour.
 6.0 : Dinner music session.
 7.0 : News and reports.
 7.30: Talk—Mr. R. W. Marshall, District Manager Government Tourist Department, "Tourist Resorts."
 8.0 : Chimes. Robert Burns Anniversary. Programme by Christchurch Municipal Band (conductor, Mr. J. Noble) and assisting 3YA artists.
 Selection—Band, "Scottish Souvenir" (arr. Hawkes): foxtrot, "The Belle of the Ball" (Lafont).
 8.15: Baritone—Mr. J. North. With piano, "Songs of Scotland" (Poppie); with Melody Trio accompaniment, "Hail! Caledonia" (Stroud).
 8.20: Recording—H.M. Grenadier Guards, "The Voice of the Guns" (Alford).

8.23: Contralto—Miss Alice Vinsen. (a) "Ye Banks and Braes" (trdtl.); (b) "The Year that's Awa" (trdtl.).
 8.30: The Melody Trio, "Old Irish Air" (arr. Kreisler).
 8.36: Recording—Sir Harry Lauder, "The Road to the Isles" (arr. Simson).
 8.40: Overture—Band, "Tancredi" (Rossini).
 8.48: Tenor—Mr. James Shaw. (a) "My Love is Like a Red, Red Rose" (trdtl.); (b) "Afton Water" (arr. Hume).
 8.54: Cornet Duo—(a) "Scottish Air" (arr. Hawkes); (b) "Robin Adair."
 9.0 : Weather forecast and station notices.
 9.2 : Talk—"Robert Burns" (Lord Rosebery's eulogy).
 9.11: Baritone—Mr. J. North. (a) "The Star of Robbie Burns" (Booth); (b) "A Man's a Man for a' That" (McFarren).
 9.15: Instrumental—Cello solo, "Spanish Serenade" (Friml). Trio, "Rosita" (Paul Dupont).
 9.22: Contralto—Miss Alice Vinsen, with Melody Trio accompaniment, "Caller Herrin" (Sloper).
 9.25: Fantasia—Band, "Minstrel Songs" (Raymond).
 9.34: Instrumental—Violin, "Midnight Bells" (Heuberger). Trio, "Serenata" (Tosselli).
 9.43: Tenor—Mr. Jas. Shaw. (a) "Scots Wha Hae" (trdtl.); (b) "Gae. Bring Me a Pint o' Wine" (trdtl.).
 9.49: Record—Humour, Sir Harry Lauder, "I'm Looking for a Bonny Lass."
 9.53: Humoresque—Band. (a) "Who Killed Cock Robin?" (Trenchard); (b) "For Auld Lang Syne" (trdtl.).
 10.3 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, JANUARY 25.

3.0 : Chimes. Selected recordings.
 4.30: Sports results.
 5.0 : Children's session, conducted by Big Brother Bill.
 6.0 : Dinner music session.
 7.0 : News session.
 8.0 : Chimes. Relay of Annual Concert of Burns Society, from His Majesty's Theatre.
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, JANUARY 25.

7.30 to 8.0: News and information.
 8.0 to 10.0: Studio concert.

Tuesday, January 26

1YA, AUCKLAND (875 KILOCYCLES)—TUESDAY, JANUARY 26.

3.0 : Selected recordings and literary selection.
 5.0 : Children's session, conducted by Uncle Dave.
 6.0 : Dinner music session.
 7.0 : News and market reports.
 7.30: W.E.A. session. Speaker: The Rev. W. Monckton, M.A., "Present Day Problems."
 8.0 : Chimes. The Caledonian Concert Party, "A Night w/ Robbie Burns."
 9.30: Recorded: Classical gems.
 Overture—St. Louis Symphony Orchestra, "Fingal's Cave."
 Violin—Master Yehudi Menuhin, "Scottish Pastorale" (Saenger).
 Choral—Ed. Branscombe's Westminster Glee Singers, "On the Banks of Allan Water" (arr. Branscombe).
 Octet—J. H. Squire's Celeste Octet, "Scottish Fantasia" (Mulder).
 Piano—Mischa Levitzki, "Eccossaise" (Beethoven).
 Soprano—Lotte Lehmann, "Take Thou My Greetings" (Schubert).
 Orchestral—Philadelphia Symphony Orchestra, "Toccata and Fugue in D Minor" (Bach).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, JANUARY 26.

10.0 : Chimes. Selected gramophone recordings.
 11.12: Lecturette—"Fabrics and Fashions."
 12.0 : Lunch hour music.
 2.0 : Selected gramophone recordings.
 3.30 and 4.30: Sporting results.
 5.0 : Children's hour, conducted by Jumbo.
 6.0 : Dinner music session.
 7.0 : News, market reports and sports results.
 7.40: Lecturette—Representative Agricultural Department, "For the Mar on the Land."

TAKING N.Z. BY STORM!



HEAR the Amazing NEW 1932 Stewart-Warner Round-the World RADIO
 Lowest Prices in Radio History

Radio *Hopie Gibbons Ltd* Division

AUCKLAND — CHRISTCHURCH — WELLINGTON.

- 8.0 : Chimes. "The Spirit of 1932"—A studio programme by the Wellington Optimists' Club, assisted by the 2YA Salon Orchestra under Mr. M. T. Dixon.
10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, JANUARY 26.
SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, JANUARY 26.

- 3.0 : Chimes. Selected recordings.
4.30 : Sports results.
5.0 : Children's session, conducted by Big Brother Bill.
6.0 : Dinner music session.
7.0 : News session.
8.0 : Chimes. Concert by the Dunedin Philharmonic Society under the conductorship of Signor Squarisen.
The Orchestra will play—Overture—"Nabucodonosor" (Verdi); Lullaby from "Bavarian Dances" (Elgar); "Slavonic Rhapsody" (Friedmann); Symphonic Poem—"Finlandia" (Sibelius); Intermezzo—"Love's Dream" (Von Blon); Japanese Dance—"Ke-Sa-Ko" (Chopin); March—"The Vanishing Army" (Alford).
Mrs. Stone will sing—"Praise of God" (Beethoven); "The Star and The Flower" (D'Hardelot); "A Dream of Delight" (Nichol); "Mia Picciarella" (Gomez).
Signor Giovanni Stella will sing—"Arioto" (Leoncavallo); "Come di Rosa" (Lama); "Mari, Mari" (De Capua); "Spring Time" (Tirindelli).
10.0 : God save the King.

Wednesday, January 27

1YA AUCKLAND (875 KILOCYCLES)—WEDNESDAY, JANUARY 27.

- 3.0 : Selected recordings.
5.0 : Children's session, conducted by Uncle Reg.
6.0 : Dinner music session.
7.0 : News and market reports.
7.30 : W.B.A. Session. Speaker: The Rev. W. Jellie, B.A., "Literature and Life."
8.0 : Chimes.
Presentation of Dr. George de Clive-Lowe's three-act play, "The Favorite of the King," by Mr. J. M. Clark and company.
Overture—Record—New Symphony Orchestra, "Three Dances from Henry VIII." (German).
Act. 1—Scene—The Countess of Essex's private retiring-room, Essex Mansion, London. 1612, afternoon.
Entr'acte—Record—Band of H.M. Grenadier Guards, Selection from "Merrie England" (German).
Act. 2—Scene 1.—The library of Sir Thomas Overbury's house, London. Scene 2—The Countess of Essex's private retiring-room.
Entr'acte—Record—Light Opera Orchestra, "The Yeoman of the Guard" (Sullivan).
Act. 3—Scene 1.—The Countess of Essex's private retiring-room, September 14, 1613. Scene 2—Library of the Earl of Somerset's mansion. Late afternoon.
Selection—Record—B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore" (Sullivan).
Programme of dance music.
11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, JANUARY 27.

- 10.0 : Chimes. Selected gramophone recordings.
11.37 : Lecturette—"Hollywood Affairs."
12.0 : Lunch hour music.
2.0 : Selected gramophone recordings.
3.30 and 4.30 : Sporting results.
5.0 : Children's hour, conducted by Aunt Daisy.
6.0 : Dinner music session.
7.0 : News, market reports and sports results.
7.40 : Lecturette—Mr. A. E. Wilson, "Tourist and Holiday Resorts."
8.0 : Chimes. Programme of recordings.
Overture—Royal Opera Orchestra, "The Accursed Hunter" (Cesar Franck). ("Sunday morning. From afar the sound of bells and the joyful songs of the people. Sacrilege! The brutish Count of the Rhine sounds his hunting horn. The hunt rushes over fields, plains and meadows. 'Halt, Count, I beg thee. Hear the pious strains!' 'No.' So the hunters continue their whirlwind chase. Suddenly the Count finds himself alone; his horse refuses to move, no sound will come from his horn. A stern voice utters his doom. 'Sacrilege! Thou shalt be hunted through the eternity by the powers of Hell.' Flames appear—the Count, insane with terror, rushes on, faster and faster, pursued by demons, over the abyss by day, through the heavens by night.")
8.13 : Tenor—Jan Kelpura. (a) "Quo Locchio al Mondo": (b) "Amaro sol per te m'era il" ("Tosen").
8.21 : Pianoforte—Alfred Cortot, "Rigoletto" (Paraphrase de Concert) (Verdi-Liszt).

- 8.29 : Concerted—Light Opera Company, "The Street Singer" (Fraser); "Toni" (Hirsch).
8.37 : Selection—J. H. Squire Celeste Octet, "Peter Pan" (Crook).
8.45 : Baritone—Gerhard Husch. (a) "In Childhood I Played with a Sceptre and Crown" from "Ozar and Carpenter" (Lortzing); (b) "From Fair Provence's Sea and Soil" from "La Traviata" (Verdi).
8.53 : Violin, with Berlin State Opera House Orchestra—Fritz Kreisler, "Third Movement of Violin Concerto, Op. 77 (Brahms).
9.1 : Weather report and station notices.
9.3 : Lecturette—Dr. Guy H. Scholefield, O.B.E.
9.18 : Instrumental—Berlin State Opera House Orchestra, "Intermezzo—Waltz Scenes" (Strauss).
9.26 : Concerted—Light Opera Company, "Tiptoes."
9.30 : Cello—Pablo Casals. (a) "Toccato in G Major—Adagio" (Bach); (b) "Gayescans" (Gounod).
9.38 : Soprano—Meta Seinemeyer. (a) "La Vergine Degli Angeli" (Verdi); (b) "Il Sante Nome do Dio" from "The Force of Destiny."
9.46 : Instrumental—Royal Opera Orchestra, Covent Garden, "Marche Joyeuse" (Chabrier).
9.50 : Duet (Soprano and Tenor)—Lucrezia Bori and Schipa, "The Death of Mimi" from "La Boheme" (Puccini).
9.58 : Band—St. Hilda Professional Band, "The Torrent Chorus" from "William Tell" (Rossini, arr. Hawkins).
10.1 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, JAN. 27.

- 3.0 : Gramophone recital.
4.30 : Sports results.
5.0 : Children's hour.
6.0 : Dinner music session.
7.0 : News and reports.
7.30 : Addington stock market reports.
8.0 : Chimes. Studio Orchestra (Conductor, Harold Beck). (a) "Albanian March" (Hall); (b) "Romantique Overture" (Kela Bela).
8.9 : Record—Choral—Leake County Revellers, "In the Good Old Summer Time" (Evans).
8.13 : Piano Novelty—Miss Maisie Ottey. (a) "Upright and Grand" (Banter and De Rose); (b) "Try and Play It" (Ohmann).
8.19 : Soprano—Miss Addie Campbell (with Orchestra). (a) "Indian Love Call" (Friml); (b) "Love's Garden of Roses" (Wood).
8.26 : Record—Piano—Josef Pembauer, "Forest Murmurs" (Waldesrauchen).
8.29 : Humour—Mr. Reg. Lamb, "The Matrimonial Chase" (Weston).
8.34 : English Concertina Duo—The Campbell Boys. (a) Waltz—"Tesoro Mio" (arr. Middleton); (b) March—"Invercargill" (Lithgow).
8.41 : Sketch—The Mascots, "The Miracle" (arr. Flewellen).
8.51 : Studio Orchestra—"Melodies of Grief" (arr. Beck).
9.2 : Weather forecast and station notices.
9.6 : Record—De Groot and Piccadilly Orchestra, "Maid of the Mountains" (Fraser-Simson).
9.10 : Record—Light Opera Company, Vocal Gems from "Toni" (Hirsch and Jones).
9.14 : Piano Novelty—Miss Maisie Ottey. (a) "You Tell 'em Ivories" (Codfrey); (b) "Kute and Kunning" (Lapham).
9.20 : Soprano—Miss Addie Campbell. (a) "I Love You Truly" (Jacobs Bond); (b) "Roses of Picardy" (Wood).
9.25 : Record—Sousa's Band, "Round and Round the Village" (Trdtl.).
9.28 : Studio Orchestra—(a) "Bedouin Love Song" (Pinsuti); (b) "Sweet and Low" (Barnby); (c) "Valse Bluettes" (Drigo).
9.34 : Humour—Mr. Reg. Lamb, Musical Sketch, "The Christening" (Grey).
9.39 : Ocarino and English Concertina Duo—The Campbell Boys. Ocarino, "Anchor's Aweigh" (Zimmerman); Concertina Duo, "Medley of Irish Airs" (arr. Middleton).
9.47 : Sketch—The Mascots, "Jacob's Dream and Awakening" (arr. Flewellen).
9.57 : Studio Orchestra—(a) "Coronach" (Barratt); (b) "Grasshoppers' Dance" (Bucalossi).
10.6 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, JANUARY 27.

- 3.0 : Chimes. Selected recordings.
3.15 : Talk—Under the auspices of the Home Science Extension Service Department, Otago University.
4.30 : Sporting results.
5.0 : Children's session, conducted by Big Brother Bill.
6.0 : Dinner music session.
7.0 : News session.
8.0 : Chimes. Programme arranged by Mr. G. W. Johnstone—"A Night with British Composers," featuring works of eminent British musicians, with introductory remarks and vocal and instrumental illustrations.
Assisting artists—Misses Beatrice Sproston, Eva Scott, Rina Begg, Phoebe Melrose, Ada Aitcheson, Alva Myers, Maisie McDonald, Rona Thomson (pianist), and Mr. Edward Benton.
An instrumental quartet under the leadership of Mr. A. H. Pettitt will play—"Shepherds Dance," "Narcissus," "Canzone Aurorosa," "Wedding of the Winds," "L'Angelus."
9.30 : Dance session.
11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, JAN. 27.

7.30 to 8.0: News and information.

8.0 to 10.0: Studio concert.

Thursday, January 28**1YA, AUCKLAND (875 KILOCYCLES)—THURSDAY, JANUARY 28.**

- 3.0 : Selected recordings and literary selection.
 5.0 : Children's session, conducted by Skipper.
 6.0 : Dinner music session.
 7.0 : News and market reports.
 7.30: W.E.A. session. Speaker, Mr. E. Blair—"Art and Craft on the Amateur Stage."
 8.0 : Chimes. 1YA Chamber Orchestra (under direction of Mr. Harold Baxter) — March—"Freedom's Flag" (Navowieski). Mazurka—"La Tzigane" (Ganne).
 8.9 : Baritone—Mr. Reginald Morgan. (a) "To Mary" (White); (b) "Just for To-day" (Seaver).
 8.15: Record—Piano novelty—Raie da Costa, "Cryin' for the Carolines."
 8.18: Humour—Miss Noni Wright. (a) "Rhoda's Pagoda" (Jones); (b) "A Visit to the Art Gallery" (Mss.).
 8.29: Concertina—Mr. Robert McKnight, "Scottish Airs" (arr. Loraine).
 8.35: Mezzo-Contralto—Mrs. Hawea Rees. (a) "When You're in Love" (Monckton); (b) "Red Roofs" (Brahe).
 8.40: Waltz—1YA Chamber Orchestra, "Marsovia" (Blanke).
 8.46: Talk—Mr. A. B. Chappell, "Topical Talk."
 9.1 : Evening weather forecast and announcements.
 9.3 : Selection—1YA Chamber Orchestra, "Mikado" (Sullivan).
 9.15: Popular Songs—Miss Sylvia Pointer and Mr. Reginald Morgan. (a) "Lena" (Burns); (b) "Good Evening" (Turner).
 9.21: Concertina—Mr. Robert McKnight. (a) "Londonderry Air" (arr. Reeves); (b) "Shoulder to Shoulder" (Klohr).
 9.26: Record—Sketch—Leslie Henson and Company, "A Warm Corner."
 9.32: Record—Mandoline Concert Society, "Amazon's Ride" (Ritter). Banjo—Olly Oakley, "Camptown Carnival" (Morley).
 9.38: Mezzo-Contralto—Mrs. Hawea Rees, cycle of three short songs. "Sing, Happy Bird," "A Pearl for Every Tear," "The Way Home."
 9.43: Orchestra—1YA Chamber Orchestra, "Polonaise in A" (Chopin).
 9.48: Record—Parlophone Variety Quartet, "Veterans of Variety."
 9.54: Record—Humour, Will Evans, "Will Evans Loses His Umbrella."
 9.57: Record—Band, H.M. Coldstream Guards, "Geisha" selection (Jones).
 10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, JANUARY 28.

- 10.0 : Chimes. Selected gramophone recordings.
 10.45: Lecturette—"Cooking."
 12.0 : Lunch-hour music.
 2.0 : Selected gramophone recordings.
 3.15: Lecturette—Miss I. F. Meadows. 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.
 7.0 : News, market reports and sports results.
 7.40: Lecturette—Member of Wellington Lawn Tennis Association, "Tennis and How to Play It."
 8.0 : Chimes. Concert by the Royal Naval Volunteer Reserve Band (Conductor, Petty Officer Baker) and 2YA artists.
 March—The Band, "Old Comrades" (Rimmer). Selection—"Chu Chin Chow" (arr. Ord Hume).
 8.15: Male Quartet—The Serenaders, "Killarney" (Balle).
 Baritone and Chorus—Mr. H. F. Gardiner, "Yeoman's Wedding Song."
 8.20: Record—J. H. Squire's Celeste Octet, "Everybody's Melodies."
 8.27: Bass—Mr. K. H. B. Strong, "Youth" (Alliston).
 8.31: Waltz—The Band, "Over the Waves" (Rosas). Quartet—"Scotia."
 8.41: Male Quartet—The Serenaders, "Pussy's in the Well" (Herbert); "Anchored" (Watson).
 8.46: Selection—The Band, "Gold Diggers of Broadway" (Burke).
 9.0 : Weather report and station notices.
 9.2 : Lecturette—Mr. Arthur Cone, "Hiking Through Australia."
 9.17: March—The Band, "Victory with Honour" (Verner).
 9.21: Vocal Duet—Messrs. E. L. Howe and K. H. B. Strong, "The Battle Eve" (Bonheur).
 9.25: Record—Cinema Organ, Jesse Crawford. (a) "Siboney"; (b) "Maria, My Own."
 9.31: Baritone—Mr. H. F. Gardiner, (a) "Dinner Courtship" (Coats); (b) "The Garden of Your Heart" (Dorel).
 9.37: March—The Band, "Paddy's Patrol" (Dacre).
 9.42: Records—Vocal—Light Opera Company, "Rose Marie" (Primi).
 9.50: Foxtrot—The Band, "Betty Co-ed" (Hall). Waltz—"Down the River of Golden Dreams" (Hall).
 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, JANUARY 28.

- 2.30: Relay from King Edward Barracks of official opening of the first Great National Show arranged by Canterbury Horticultural Society.
 Speeches by the Rt. Hon. G. W. Forbes and others. Gramophone recital to follow.

3.15: Home Science Talk arranged by Home Science Extension Service, Otago University.

4.30: Sports results.

5.0 : Children's hour.

6.0 : Dinner music session.

7.0 : News and reports.

7.30: Talk—Mr. H. De O. Chamberlain, "Boys' and Girls' Agricultural Clubs."

7.45: Talk—Mr. E. E. Wiltshire, of Canterbury Horticultural Society.

8.0 : Chimes. Christchurch Salon Orchestra (Francis Bate, Conductor), "L'Arlesienne Suite" (Bizet).

8.11: Recording—La Scala Chorus, "Va Pensiero Sull'ali Dorale" (Verdi).

8.15: Piano—Miss A. Harley Slack. (a) "Allegro con brio"; (b) "Largo sostenuto"; (c) "Presto ma non troppo" (Haydn).

8.23: Contralto—Miss Nellie Lowe. (a) "In the Gardens of England" (James); (b) "A Song O'er the Hill" (Ireland).

8.26: Salon Orchestra—"Reverie" (Gabriel Marie).

8.32: Baritone—Mr. Rex Harrison. (a) "Song of the Toreador" (Bizet); (b) "To be Near My Beloved" (Gomez); (c) "Kashmiri Song" (Woodforde Finden); (d) "Harbour Night Song" (Sanderson).

8.45: Recording—Symphony Orchestra and Chorus. (a) "Carmen" March (Bizet); (b) "Faust" (Gounod).

8.53: Salon Orchestra—(a) "To the Sea" (Macdowell); (b) "Lullaby to a Modern Infant" (Maurice Besly).

9.2 : Weather forecast and station notices.

9.4 : Recording—Orchestra Royal des Guides Belges, "Legere Artillerie."

9.7 : Contralto—Miss Nellie Lowe. (a) "My Haven of Dreams" (Barry); (b) "The Silver Ring" (Chaminade); (c) "A Requiem" (Horne).

9.13: Piano—Miss Althea Slack, "Jardins Sous la Pluie" (Debussy).

9.16: Recording—Light Opera Orchestra, "Yeomen of the Guard" (Sullivan).

9.19: Contralto—Miss Nellie Lowe, "When You Come Home" (Squire).

9.22: Salon Orchestra—"In a Monastery Garden" (Ketchby).

9.31: Programme of recorded dance music.

11.1 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, JANUARY 28.

- 12.0 : Results of the Forbury Park Trotting Club's midsummer meeting.
 5.0 : God save the King.

Friday, January 29**1YA, AUCKLAND (875 KILOCYCLES)—FRIDAY, JANUARY 29.**

- 12.0 : Results of the Takapuna Jockey Club's meeting, and relayed description of New Zealand Amateur Rowing Championship races at Hamilton.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner music session.
 7.0 : News and market reports.
 7.40: Sports talk.
 8.0 : Chimes. A Novelty Programme—"The Radiators" will radiate Happiness.
 Record—Orchestral, Jack Hylton and His Orchestra, "Melodious Memories" (arr. Finck).
 8.9 : The Radiators.
 8.54: Record—Orchestral, London Coliseum Orchestra, Leslie Stuart Melodies.
 9.0 : Weather report and station notices.
 9.2 : Record—Orchestral, Jack Hylton and His Orchestra, "Old Musical Comedy Gems."
 9.10: The Radiators.
 9.54: Record—Banjo Quartet, Emile Grimshaw's Banjo Quartet, "A Swanee Sing Song" (Grimshaw).
 Record—Band—Band of His Majesty's Grenadier Guards, "Twist and Twirl" (Kohau).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, JANUARY 29.

- 10.0 : Chimes. Selected gramophone recordings.
 11.12: Lecturette—"Fashions."
 12.0 : Lunch hour music.
 2.0 : Selected gramophone recordings.
 3.30 and 4.30: Sporting results.
 5.0 : Children's session, conducted by Uncle Jim.
 6.0 : Dinner music session.
 7.0 : News, market reports and sports results.
 7.40: Lecturette—Mr. C. S. Dempster, "Cricket Reminiscences."
 8.0 : Chimes. Studio presentation of concert by the Wellington Apollo Singers, under the conductorship of Mr. H. Temple White. Accompanists: Messrs. Ernest Jenner, A.E.A.M., and Wm. Billington.
 Record—Overture—National Military Band, "The Flying Dutchman."
 Choral—Apollo Singers, "Sailors' Chorus" from "The Flying Dutchman" (Wagner).
 Tenor—Mr. B. H. Mayall, "Who Is Sylvia?" (Schubert).
 Choral—Apollo Singers (Mezzo-soprano soloist, Miss Dorothy Sawyer), "Maureen" (Robertson).
 Quartet—The Aeolians, (a) "Lovely Night" (Chwatal); (b) "Every Rustling Tree" (Kuhlaw).
 Soprano—Miss Kathleen Wood, "Nymphs and Fauns" (Bomberg).

Choral—Apollo Singers, "Drake's Drum" (Coleridge-Taylor, arr. Fletcher).
 Baritone—Mr. George Wright, "The Trumpeter" (Dix).
 Choral—Apollo Singers, "Gondolier's Serenade" (Schubert).
 Records—Humour—Flotsam and Jetsam, (a) "Schubert's Toyshop"; (b) "Polonaise in the Mail" (Chopin, arr. Flotsam and Jetsam).
 Choral—Apollo Singers, "Awake! Awake" (Cadman, arr. Ross Hilton).
 Musical monologue—Miss Joan Maunder, "Bredon Hill" (Shortland).
 Choral—Apollo Singers, "My Bonnie Lass She Smileth."
 Tenor—Mr. George Wilson, (a) "I Ha'e a Wife O' My Ain" (Burns); (b) "My Wife's a Winsome Wee Thing" (Burns); (c) "Come Under My Plaidie" (Trdl.).
 Choral—Apollo Singers, "Follow the Gleam" (Aylward, arr. Gaines).
 Weather report and station notices.
 Instrumental—Berlin Philharmonic Orchestra, "Grand March" from Tannhauser (Wagner).
 Choral—Apollo Singers, "Pilgrims' Chorus" from "Tannhauser" with accompaniment by Messrs. Jenner and Billington, two pianos.
 Soprano—Miss Kythe Maciver, "Ritorna Vincitor" (Verdi).
 Choral—Apollo Singers, "Greeting to Spring" (Strauss, arr. Lichter).
 Bass—Mr. J. M. Caldwell, "Myself When Young" (Lehmann).
 Choral—Apollo Singers, "The Sword of Ferrara" (Bullard).

9.30: Dance programme of old-time favourites.

11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, JANUARY 29.

3.0 : Gramophone recital.
 4.30: Sports results.
 5.0 : Children's hour.
 6.0 : Dinner music session.
 7.0 : News session.
 7.30: Talk—Mr. J. S. Hawke's, Secretary to Canterbury Automobile Association, "Tours and Motor Driving."
 8.0 : Chimes. Record—Eighteenth Century Orchestra, "The Beggar's Opera." (Guy-Austin).
 8.8 : Tenor—Mr. David McGill (with Salon Orchestra accompaniment), (a) "If You Would Love Me" (McDermid); (b) "Sleep and the Roses."
 8.14: Record—Organ Solo, "La Nuit."
 8.16: Soprano—Miss Phyllis Coombs, (a) "The Scent of the Lilies" (Cobb); (b) "In the Fashion" (Fraser Simpson).
 8.22: Salon Orchestra—Waltz, "The Blue Danube" (Strauss).
 8.28: Vaudeville entertainment—The Two Rascals, introducing, (a) "I Don't Care a Lot for a Lot Of It" (Sterndale); (b) "Chin Wag" (Hegan); (c) "Piano Novelties" (Goodland).
 8.40: Harp—Mr. H. G. Glaysher, "The Murmuring Brook" (Jules Bernard).
 8.45: Baritone—Mr. Claude Burrows (with Salon Orchestra accompaniment), (a) "The Clock" (Loewe); (b) "Uncle Rome" (Homer).
 8.50: Salon Orchestra, (a) "Orientale" (Cesar Cui); (b) "Nocturne."
 8.59: Record—Male Quartet, "I Know of Two Bright Eyes" (Clutsam).
 9.2 : Weather forecast and station notices.
 9.6 : Tenor—Mr. David McGill, (a) "Roses of Forgiveness" (D'Hardelot); (b) "The Carnival" (Molloy).
 9.12: Record—Tampa Blue Orchestra, "Running Between the Raindrops."
 9.16: Vaudeville—The Two Rascals, introducing, (a) "A Vagabond Lover" (Donaldson); (b) "Chin Wag" (arr. Hegan); (c) "Piano Novelty" (arr. Goodland); (d) "Tap Dance Specialty" (arr. Goodland).
 9.28: Salon Orchestra—"Woodland Pictures," (a) "In the Hayfields"; (b) "An Old World Garden"; (c) "The Bean Feast" (Fletcher).
 9.39: Soprano—Miss Phyllis Coombs (with Salon Orchestra accompaniment), (a) "L'Ete, Summer" (Chaminade); (b) "Stay With Me, Summer" (Gwynn Morris).
 9.44: Harp—Mr. H. G. Glaysher, (a) "The Last Rose of Summer" (Trdl.); (b) "The Mountains of Mourne" (Templeton).
 9.50: Baritone—Mr. Claude Burrows, (a) "Sunshine in Rainbow Valley" (Hamblen); (b) "Go to Sea" (Trotter).
 9.55: Record—Parlophone Military Band, (a) "Steadfast and True" (Ticke); (b) "The Singing Season" (Ticke).
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, JANUARY 29.

3.0 : Chimes. Selected recordings.
 4.30: Sports results.
 5.0 : Children's session, conducted by Big Brother Bill.
 6.0 : Dinner music session.
 7.0 : News session.
 8.0 : Chimes. Popular programme by the Philharmonic Four, Oliver Stokes' Banjo Quartet, Dag's Dance Band, Madame Reggiardo's Instrumental Sextet.
 The Dance Band will play—"Danube Waves"; "Old Time Alberts"; "Irish and Scottish Medleys"; "Barn Dance"; "Highland Schottische"; "Old Time Waltzes."
 The Banjo Quartet numbers will include—March, "Here They Come" (Weidt); "Veronica Barcarolle"; "Mountain Laurel Waltz"; "Evening Reverie"; March, "University of Dayton."
 Madame Reggiardo's Instrumental Sextet will play—"The Merry Widow" Selection; Valse, (a) "Moon Magic" (Arnold); (b) "Kiss of Spring" (Rofe); "Floradora" Selection; Suite, "Merchant of Venice."
 The Philharmonic Four will be heard in—"The Last Rose of Summer"; "Believe Me if All Those Endearing Young Charms"; "Softly Fall

the Shades of Evening"; "When Evening Twilight"; "The Dear Little Shamrock."

10.0 : God save the King.

Saturday, January 30

1YA, AUCKLAND (875 KILOCYCLES)—SATURDAY, JANUARY 30.

12.0 : Results of Takapuna Jockey Club's meeting.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner music session.
 7.0 : News and market reports.
 8.0 : Chimes. (During the evening a description of the broadsiding at Western Springs Stadium will be relayed.)
 March—1YA Chamber Orchestra (Conductor, Mr. Harold Baxter), "Distant Greeting" (Doring).
 Selection—1YA Chamber Orchestra, "Echoe de Bastions" (Kling).
 Bass-Baritone—Mr. Arthur Wright, (a) "The Yeomen of England" (German); (b) "Mountain Lovers" (Squire); (c) "A Chip of the Old Block" (Squire).
 Novelty Piano—Mr. Eric C. L. Bell, (a) "I'd Climb the Highest Mountain" (Berlin); (b) "Roses of Picardy" (Wood).
 Elocutionary—Miss Nina Scott, (a) "The Clown" (Walsh); (b) "Little Wise Son" (Anon.); (c) "I Want to Go with Daddy."
 Morceaux—1YA Chamber Orchestra, (a) "Serenade d'Amour" (Blot); (b) "Nigger's Birthday" (Lincke).
 Soprano—Miss Ruth Scott, (a) "A Pastoral" (Carey); (b) "Waltz Song" from "Romeo and Juliet" (Gounod).
 Suite—1YA Chamber Orchestra, "Africana" (Thurban).
 Weather report and station notices.
 Novelty Piano—Mr. Eric C. L. Bell, (a) "Mean to Me" (Turk); (b) "Annie Laurie" (trdl.).
 Humour—Mr. Zante Wood, (a) "Songs—Up-to-date" (Henry); (b) "Three Blind Mice" (Wood).
 Selection—1YA Chamber Orchestra, "The Gondoliers" (Sullivan).
 Sports resume.
 Programme of dance music.
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, JANUARY 30.

2.30: Gramophone recital. Relay of progress reports from New Zealand Amateur Athletic meeting (Wellington Centre) at Athletic Park, for Dewar Shield competition.
 3.30 and 4.30: Sporting results.
 5.0 : Children's hour, conducted by Aunt Molly.
 6.0 : Dinner music session.
 7.0 : News, market reports and sports results.
 8.0 : Chimes. Record—Marek Weber's Orchestra, "Potpourri of Famous Melodies" (Robrecht).
 8.8 : Baritone—Mr. S. Evelyn Rodger, (a) "My Heart is a Haven" (Stein); (b) "Herding Song" (Lawson).
 8.14: Overture—Salon Orchestra, "Stradella" (Flotow).
 8.22: Soprano—Miss Kathleen Ferris, (a) "Kiss Me Again" (Herbert); (b) "Aloha" (Friml).
 8.28: Record—B.B.C. Wireless Military Band, "The Mill on the Rock."
 8.34: Fantasia—Salon Orchestra, "Squire's Songs" (arr. Baynes).
 8.42: Baritone—Mr. S. Evelyn Rodger, (a) "Captain Mac" (Sanderson); (b) "If I Might Only Come to You" (Squire).
 8.48: Records—London Flute Quartet, (a) "Melody" from "Rosamunde" (Schubert); (b) "The Bees' Wedding" (Mendelssohn); (c) "Carnival of Venice" (Benedict).
 8.54: Selection—Salon Orchestra, "Voice of the Bells" (Thurban).
 9.0 : Weather report and station notices.
 9.2 : Lecture—Mr. B. S. Merlin, "My Adventures with the Bolsheviks."
 9.17: Suite—Salon Orchestra, "Gabrielle" (Rosse).
 9.27: Soprano—Miss Kathleen Ferris, (a) "Be Still, Blackbird" (Sanderson); (b) "Little Star" (La Forge).
 9.33: Selection—Salon Orchestra, "Maid of the Mountains" (Fraser-Simson).
 9.41: Record—Light Opera Male Chorus, "Jolly Good Fellows Every One."
 9.49: Instrumental—Salon Orchestra, "Latest dance novelties."
 10.0 : Dance programme.
 11.0 : Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, JANUARY 30.

3.0 : Gramophone recital.
 4.30: Sports results.
 5.0 : Children's hour.
 6.0 : Dinner music session.
 7.0 : News and reports.
 8.0 : Chimes. Relay of 4YA, Dunedin, programme.
 10.0 : Dance music.
 11.1 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, JANUARY 30.

12.0 : Results of Forbury Park Trotting Club's midsummer meeting and selected recordings.
 5.0 : Children's session, conducted by Big Brother Bill.

- 6.0 : Dinner music.
 7.0 : News session.
 8.0 : Chimes. Record—Overture, Royal Albert Hall Orchestra, "Leonora," parts 1 and 2.
 8.9 : Quartet—The Harmony Four. (a) "I'm Gwine to Sing" (Milligan); (b) "Ol Grey Robè" (trdtl.).
 Novelty Quartet—"Irish Airs" (arr. Heaney).
 8.21 : Vocal Duets—Edward and Violet Mee. (a) "The Keys of Heaven"; (b) "New Moon."
 8.28 : Recording—Instrumental—International Novelty Orchestra, "Shine On, Harvest Moon."
 8.31 : Quartet—The Harmony Four, "Swing Low, Sweet Chariot" (trdtl.).
 Bass—Mr. A. M. McDowell, "Climb Up, Ye Chillun, Climb."
 8.37 : Novelty Quartet—"Scottish Melodies" (arr. Heaney).
 8.44 : Tenor—J. Kennedy, "Oh, Boys, Carry Me 'Long" (Foster).
 Quartet—The Harmony Four, "Carry Me Back to Old Virginny."
 8.50 : Trio—Madame Reggiardo, Anna Briasco, and Mr. P. Palmer, "La Source Ballet" (Delibes).
 8.57 : Humour—James Patterson, Scottish Humour in song and story.
 9.0 : Weather report and station notices.
 9.1 : Recordings—San Francisco Symphony Orchestra. (a) "Marche Militaire"; (b) "Flight of the Bumble Bee."
 9.8 : Quartet—The Harmony Four, "Heah Dem Bells" (trdtl.).
 Bass—Mr. A. M. McDowell, "Roll, Jordan, Roll" (trdtl.).
 9.13 : Novelty Quartet—"Popular Melodies" (arr. Heaney).
 9.23 : Humour—Mr. James Patterson, "Stories of Bonnie Scotland."
 9.30 : Cello solo—Mr. P. Palmer, "Romance" (Rubinstein).
 9.34 : Duet—Edward and Violet Mee. (a) "The Golden Song," from "Lilac Time" (Schubert); (b) "Money Matters" (introducing old popular airs) (Hunter).
 9.41 : Trio—(a) "Elegie" (Massenet); (b) "Love's Garden" (Schwartz).
 9.49 : Harmony Four—Tenor solo, John Kennedy, "Angel Gabriel" Quartet—"Steal Away."
 9.54 : Recording—Fife and Drum Band, "The Campbells are Coming."
 10.0 : Dance music programme.
 11.1 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, JANUARY 30.

- 7.30 to 8.0 : News and information.
 8.0 to 10.0 : Studio concert.
 8.0 to 10.0 : Studio concert.

Sunday, January 31

1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, JANUARY 31.

- 3.0 : Selected recordings, and literary selection.
 6.0 : Children's song service, conducted by Uncle Leo.
 7.0 : Relay of service from the Unitarian Church. Preacher: Rev. Wm. Constable.
 8.30 : Relay of Municipal Band Concert from Albert Park. Conductor: Mr. George Buckley.
 March—The Band, "Indienne" (Sellenick).
 Overture—The Band, "Poet and Peasant" (Suppe).
 Cornet duet—Messrs. F. Bowes and J. Davies, "Echoes of Rosa" (Duboit).
 Rhapsody—The Band, "Norwegian" (Syvendsen).
 Flute and Euphonium—Mr. Hal C. McLennan and Mr. J. Purchase, "Serenade" (Till).
 Xylophone—Mr. Rowland Jackson, "Xylophobia" (Brigham).
 Selection—The Band, "Supplication" (Baynes).
 March—The Band, "The Mad Major" (Alford).
 God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JANUARY 31.

- 3.0 : Selected gramophone recordings.
 6.0 : Children's song service, conducted by Uncle George, assisted by the children's choir from the Cambridge Terrace Congregational Church under Mr. Reynolds.
 7.0 : Relay of evening service from the Terrace Congregational Church. Preacher: Rev. H. W. Newell. Organist and Choirmaster: Mr. Harry Brusey.
 8.15 (approx.): Studio concert.
 Instrumental—Wellington Chamber Music Players, "Quintette in E Flat" (Schumann).
 Duet—Mrs. Amy Woodward and Mr. Keith Grant, "Love Duet" from "Pagliacci" (Leoncavallo).
 Record—Piano—Misha Levitski, "Ballade in A flat major" (Chopin).
 Contralto—Mrs. Wilfred Andrews, (a) "Little Blue Pigeon" (Needham); (b) "Allah Be With Us" (Woodforde-Finden).
 Violin—Mr. Leon de Mauny, "Ballade and Polonaise" (Vieuxtemps).
 Weather report and station notices.
 Baritone—Mr. Keith Grant, "Largo al Factotum" from "The Barber of Seville" (Rossini).
 Duet—Mesdames Amy Woodward and Wilfred Andrews, "Beyond the Meadow Gate" (Montague Phillips).
 Instrumental—Wellington Chamber Music Players, "String Quartet in G major" (Haydn).

- Duet—Mrs. Wilfred Andrews and Mr. Keith Grant, "Nocturne" (Chaminade).
 Record—Cornet—Del Stigers, "My Heaven of Love" (Bryan-Goldman).
 Soprano—Mrs. Amy Woodward, "The Willow Song" (Coleridge-Taylor).
 Instrumental—Wellington Chamber Music Players, "Phantasie Trio in D minor" (Ireland).
 Record—Organ—Maurice D'Evry, (a) "Choral Prelude" (Bach); (b) "Fugue in G" (Bach).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, JANUARY 31.

- 3.0 : Gramophone recital.
 5.30 : Children's song service by children of Christchurch Salvation Army.
 6.15 : Chimes.
 6.30 : Selected recordings from studio.
 7.0 : Relay of meeting in the Salvation Army Citadel, Victoria Square. Address by Adjutant Radcliffe.
 8.15 (approx.): Studio Orchestra (Conductor: Harold Beck). (a) "Marche" (Tschalkowsky); (b) "Prometheus" Overture.
 8.23 : Record—Chelsea Singers, "Sigh No More, Ladies" (Stevens).
 8.27 : Recital—Piano and Baritone, by Mrs. and Mr. F. W. Simpson, with introductory comments.
 Piano—Mrs. F. W. Simpson. (a) "Tremolo" (Gottschalk); (b) "Golliwogs' Cake-Walk" (Debussy); (c) "Dance Negre" (Scott).
 Baritone—Mr. F. W. Simpson. (a) "Billy Boy" (trdtl.); (b) "Bound for the Rio Grande" (trdtl.).
 8.43 : Violin—Miss Norma Middleton. (a) "Jota" (De Salla); (b) "From the Canebrake" (Gardner).
 8.49 : Soprano—Miss Frances Hamerton, with flute obligato by Mr. A. E. Hutton. (a) "Echo Song" (Bishop); (b) "The Snake-Charmer."
 8.56 : Studio Orchestra—(a) "La Fenetre d'Amour" (De Severac); (b) "Tempo di Menuetto" (Beethoven); (c) "Spanish Dance No. 1."
 9.7 : Weather forecast and station notices.
 9.9 : Record—Halle Orchestra, "Romeo and Juliet" (Berlioz).
 9.15 : Record—Vocal Duet—Mayr and Andrassy, "Der Rosenkavalier."
 9.21 : Flute—Mr. A. E. Hutton, "Songs Without Words" (Clinton).
 9.26 : Piano and Baritone Recital—(continued)—Piano, Mrs. F. W. Simpson. (a) "Erl King" (Schubert-Liszt); (b) "Nocturne in F sharp major" (Chopin).
 Baritone, Mr. F. W. Simpson, with piano and Studio Octet. (a) Five-and-Twenty Sailormen" (Coleridge-Taylor); (b) "A Smuggler's Song" (Mullinar).
 9.41 : Violin—Miss Norma Middleton, "Hejre Kati" (Hubay).
 9.47 : Soprano—Miss Frances Hamerton (with Studio Orchestra). Waltz Song, "Printemps" (Springtime) (Stern).
 9.50 : Record—Choral—The Salon Group, "Dawn of To-morrow" (Gravelle).
 9.54 : Studio Orchestra—Suite, "Faust" Ballet Music (Gounod).
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JANUARY 31.

- 3.0 : Chimes. Selected recordings.
 5.30 : Children's song service, conducted by Big Brother Bill.
 6.15 : Instrumental recordings.
 6.30 : Relay of evening service from Presbyterian First Church, Moray Place. Preacher: The Rev. Allan Stevely, M.A. Organist and Choirmaster: Dr. V. E. Galway.
 7.45 : Instrumental recordings.
 8.15 : Relay of concert programme from 3YA, Christchurch.
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, JANUARY 31.

- 7.30 to 8.15 : Church relay.
 8.15 to 10.0 : Studio concert.

ILLUSTRATE Your Goods and SELL Them

Those who buy for the home, farm, office or factory have one thing in common. They usually buy the things that look best for the price. Whether their buying is influenced by newspaper advertisement or catalogue they purchase the goods pictured and described to the best advantage.

Your product can be successfully pictured if you use "Dominion" illustration blocks. Made by craftsmen who know how to produce the best results for every class of printing, they give unusual satisfaction. Let us help you with your illustration problems.

"The Dominion" Process Engraving Dept.

WELLINGTON

Day and Night Service



DX Topics

(Continued from page 10.)

also broadcasting a special programme for the Newark Radio Club. The announcer said that the station had been on the air since 1921. For a "hundred-watter" he was at great strength, reaching R6 at times for a few moments. He was heard from 8.00 until 9.00 p.m., when he closed down. At 12.45 a.m. this night heard an Australian calling "Hello, hello, 2MI," and held him for fifteen minutes, but was unable to tell, even by his expression, whether he was calling up

a station of that call or whether it was his own call!

On January 5 WMBI was heard for a while, on a special anniversary programme.

On January 7, from 7.45 p.m. till 8.00 p.m., when he closed down, held KYA, San Francisco. I have heard this station only once before, although I believe he is on regularly. KREG, Santa Ana, was again heard from 7.00 p.m. I understood the announcer to say it was a regular Friday broadcast. This was on January 9.

This same evening, January 9, heard three new stations. It was raining steadily, and QRN was fortunately light until 9.00 p.m. From 7.10 until 8.00

p.m., KFAC, Los Angeles, California. He was playing organ music until then, but at 8.00 went on to relay an hour's dance programme.

At 8.00 heard on 1310 k.c., KGBX, St. Joseph, Missouri, broadcasting a special dx programme. He came in very well, closing down at 8.30. Toward the end he was very badly heterodyned, and when he closed down heard KXRO, Aberdeen, Washington, also on a special dx programme. As a matter of fact got the call KXRO several times before KGBX closed down, although of the two, KGBX was considerably the stronger.—DX3NW (Nelson).

[The Editor of the "Log" wishes to thank you for your report, but he regrets it arrived too late to be of any use.—Ed.]

Must We Resort to This?

(Continued from page 8.)

In March, France and Italy made a friendly agreement, largely through the efforts of Mr. Henderson. This provided for a reduction of naval expenditure, but left France still with an unduly large submarine fleet. The rising resentment in France against German nationalism was raised to boiling point by the publication of the proposal to form an Austro-German Customs Union. The alarm spread to her allies and Italy. The proposed Union was in itself good, since its main immediate object was to lower tariffs and increase the flow of goods, and it was not to be an exclusive union but open to other countries to join if they thought fit; it might be regarded as the first practical step toward the institution of the United States of Europe that had been proposed by M. Briand a year before. But both the mode and the time of its announcement were far from tactful; the chief result was to throw another extremely disturbing element into the European situation just at a time when the approaching Disarmament Conference called for a calming of all national passions. It gave the French a new basis on which to ground opposition to general disarmament. Germany must be kept down at all costs, even at the sacrifice of general economic welfare.

They were alarmed in April at the English invitation to the German Ministers Bruening and Curtius to visit Chequers, and haggled over finalising the naval agreement with Italy in the attempt to get the most out of the bargain. Dissensions in his party and the failure of the Hitlerite Government in Thuringia still further weakened Hitler. The agrarian depression induced Czechoslovakia, Hungary, Poland, Rumania, and Jugo-Slavia to negotiate an economic agreement which had French approval. The minority question again forced itself on the notice of Europe, this time in the S. Tyrol, where the people desire return to Austria. The statistics relating to the progress of the Russian Five-Year Plan, now near the half-way point, begin to impress on observers the conviction that Russia is in truth being rapidly converted into an industrial country. Where before had been contempt based on ignorance, there came now a panic fear that Russian imports might ruin industries in other countries. Russia's share of the world trade, however, was only 3.6 per cent. before the war, and had dropped to less than 1 per cent. in 1931; imports from Russia were less than 1 per cent. of England's total imports.

[We regret that, owing to undue pressure on space, the continuation of this article will have to be held over until next week.—Ed.]

Useful Hints

POOR contacts in a resistance or an imperfect primary or secondary winding or bad aerial insulation are common causes of "interference."

ALTHOUGH a small hole or two in a screening-box is comparatively harmless, an imperfectly fitting lid or bad joint along one edge of the box destroys much of its efficiency.

January Log

Many Features of Interest

THIS month's "Radio Log" contains many features of interest to dx enthusiasts. There are full details and photographs of the new Australian station 2CO, Corowa, which can lay claim to be the most powerful broadcasting station in the Southern Hemisphere. There is an account of a new and revolutionary type antenna for the powerful New York station, WABC, which is often heard in this country. Improvements have been recently made to the antenna of WHK, Cleveland, another station which dxers tune in, and these will tend to improve reception of their programmes.

There is an interesting account of broadcasting in India and Ceylon, rendered topical by the recent decision of the Government to close down the two Indian broadcasting stations.

The map this month is one of the World, with the time belts and 50 of the principal stations indicated. The map shows the number of hours which each belt is behind or ahead of Greenwich and behind New Zealand. The use of this will simplify greatly the calculation of time and days.

There is an article couched in simple language explaining to the broadcast listener how he may break into the short-waves. This is an informative article—not a constructional one—and is illustrated by rather ingenious diagrams which tell their own story.

There are further excerpts from verifications received by club members. These contain a wealth of information.

The new and amended Q.R.A.'s contain many alterations in stations' schedules, and these are undoubtedly of great importance to dxers.

For the first time is published a list of the names and addresses of all members of the DX Club. This has been done in response to numerous inquiries, and the list will be kept up to date in subsequent issues of the "Log."

There are in addition very many other features which anyone interested in long-distance reception cannot afford to miss. This issue of the "Log" is unusually well illustrated and can, we consider, justly claim to be the best "Log" yet.

TO prevent interaction between your set and that of your neighbour your aerial should be placed as far from his as possible.

19.10.22



Absolutely Unaffected After 4 Hours Immersion

Not a drop of water got inside—so complete was the insulation. As a further test, the condenser was stored in an atmosphere of 80 per cent. humidity for four to twelve days and then subjected to a 1000-volt D.C. test for three to five minutes. After all this—a much more rigorous test than that to which the average condenser will normally be put—the loss was practically negligible. With the Simplex Condenser freedom from "shorting" is definitely assured. Because of this, and because these condensers are so strongly made that nothing can get out of place, they give an all-round efficiency and length of life never before obtained from any other condenser. Change over to-day and give your set new life, new power—more tone with less interruption. At all Radio Dealers.

Standard

Telephones and Cables (A/sia) Limited.

Head Office: G.P.O. Box 638, Wellington.

Auckland: G.P.O. Box 1897.

South Island: L. B. SCOTT, LTD., Christchurch.

"Aida"

(Continued from page 3.)

hero about to set forth against her own father, yet confesses to herself the great power of her love for the Captain of the Guard.

The second scene is in a temple of the Vulcan, where Rhadames has come to seek the blessing of the gods. He is invested with the sacred armour, and as the priestesses go through the mystic dance, the curtain falls.

At the opening of Act II Rhadames has been away for some time, and Amneris is at a loss to understand his prolonged absence. Aida approaches, and Amneris prepares for a moment of revenge. She treacherously consoles the girl just long enough to gain her confidence, and then when the secret is out she turns upon her like a scorpion, and then confesses her own love for the hero. Aida is dazed, and pleads desperately for pity. Amneris then threatens her with death, but refuses upon this by demanding that she shall witness Rhadames's triumphant return, and his obeisances to herself as she sits beside her father, the King.

The scene changes to a gate of the city of Thebes, where the King and his court are assembled to receive and welcome the conquering army. The pomp and splendour of this scene are unsurpassed by anything in the range of opera. The Egyptian troops enter, preceded by the trumpeters, chariots of war, the dancing girls carrying treasures, and finally Rhadames, riding in triumph under a canopy drawn by twelve slaves. The effect is magnificent beyond all description.

The King descends from his throne and embraces Rhadames, and at his own command Amneris crowns the victor, who is asked to name any boon he desires.

At that moment the prisoners enter, including Amonasro, who is dressed as a plain officer. Aida cries out "My father," but he signals her not to betray his rank. Amonasro then acknowledges his daughter, admits defeat, and describes how the king of the Ethiopians, "transfixed by wounds, died at his feet."

Amonasro's bluff, soldierly manner commends itself to the king, and the populace, who beg his release. The priests demand his death, with the other captives. Rhadames pleads for mercy, recalling the King's promise of whatever he desires, and demands the life and liberty of the Ethiopian. The King yields, stipulating that Aida and Amonasro remain as his hostages. The King of Egypt announces that Rhadames should have for further reward the hand of Amneris.

The third act opens on the banks of the Nile. It is a moonlight night, the temple of Isis rising beyond the palm trees in the background. Coming from the temple is heard a sweet mysterious chant of praise, sounding portentous, as before a storm. A boat approaches with Rhadames and Amneris, who has come to give thanksgiving for victory and to pray that Rhadames shall be hers forever.

As the pair enter the temple Aida comes cautiously forward. She has heard that Rhadames himself may appear. She sings a tender and plaintive despairing song of the lovely land she may never see again. Turning, she sees her father who sees in her love for Rhadames a means of escape and victory. He plays, even as Amneris

Radio Serviceman's Exam.

A Modern Power Pack

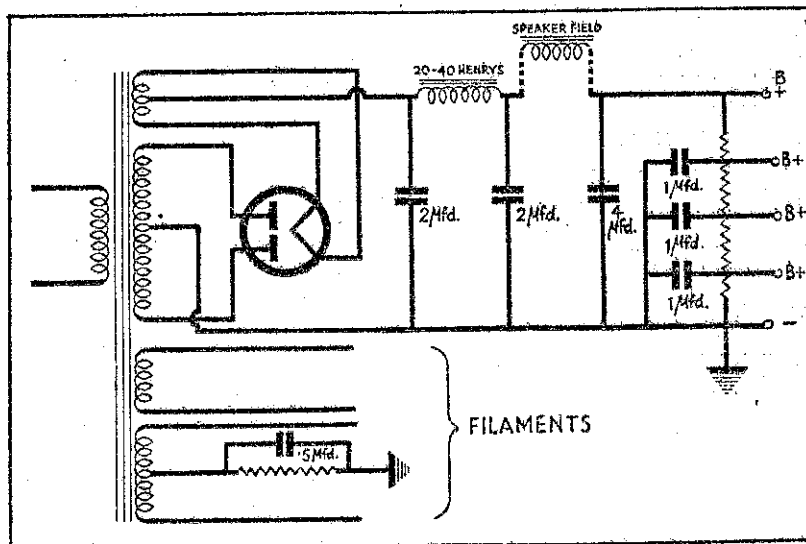
THIS week we deal with the fourth question on the paper set in the Radio Serviceman's Examination: "Sketch the circuit diagram of the modern powerpack employing full-wave valve rectification."

THERE are literally dozens of modern powerpacks, so the candidate has plenty of choice. The circuit of a modern powerpack—a perfectly straightforward one—is reproduced. Note the following points which we think the question calls for:—

1. Powerpack complete, with filter devices and voltage divider.
2. Filament windings.
3. "B—" connected to earth. This is in accordance with the regulations.
4. The values of the condensers. It is usual in the filter to have the largest

condenser nearest the voltage divider, where it is referred to as a reservoir condenser, although sometimes it is placed between both chokes.

5. Note the values of the chokes from 20 to 40 henries.
6. Individual tapings by-passed to "B—."
7. No provision in the powerpack for grid bias. This nowadays is provided by resistances in the grid return of the valves. The method of obtaining it in directly heated valves is shown in the diagram.



played, upon the feelings of the innocent girl, telling her almost brutally that he knows of her love and of the princess's jealousy. Agonised, she cries out that she is in the power of Amneris, and he tells her how she may gain happiness with her lover and return to Ethiopia. The proposal is an ugly one, and the way for it is made by a harrowing picture of Ethiopian treatment of their conquerors. That is too much for the girl, who recoils. Then follows a terrible scene (the one being broadcast), in which the woes of her people are laid upon her own head. She cries out for pity—but what are the woes of a girl beside the ambitions of a king and the fates of peoples?

"Our people armed are waiting for the signal."

Now strike the blow.

Success is sure; naught but one thing is wanting,

That we know by what path will march the foe.

Aida: Who that path will discover?

Amon.: Rhadames, whom thou expectest, will tell thee. He commands the Egyptians.

Aida: The thought is hateful! What prompt'st thou me to do? Then Amon-

asro, with savage rage, draws a picture of the ruin that has been wrought by the Egyptians. Aida in terror calls, "Ah, father!" and he repulses her—"Callst thou thyself my daughter? Torrents of blood shall crimson flow"—and another more terrible picture than before is drawn—"Thou hast thy country slain."

Aida in her terror calls for mercy, but Amonasro goes on with the terrible picture. "Thy mother's hand, see there again stretched out to curse thee."

And uttering a cry of anguish Aida sinks to the ground. "Spare me, spare me, spare me," and the cello rolls out a plaintive phrase, as if in sympathy.

Aida is dragged to her feet, and Amonasro gains his way. "Oh, then

my country has proved the stronger. My country's cause and love is strong!"

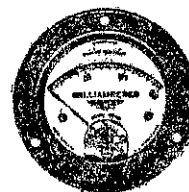
Rhadames is then heard approaching, and Amonasro conceals himself behind the palms. "Have courage, here he comes. Here I will remain." The hero seeks to embrace his beloved, but she bids him prove his affection by fleeing with her. He resists, but the glamour of her presence, the spell of the night, and the desperate prospects of his marriage with Amneris, weakens his resolve. He gives way, and in yielding lets slip the information that the Egyptian army must go out by the pass of Napata. Amonasro then leaps forth, and points out that he is guiltless, and that his betrayal is Fate. He paints an attractive picture of what lies for them all in Ethiopia, and Rhadames, as a man, is done.

But there has been another eaves-dropper, for Amneris has overheard. Mad with jealousy, she rushes in and denounces the pair, her wrath blazing forth. She declares Rhadames is betraying his country, his gods, and herself. So blind is her passion that Amonasro escapes with Aida.

In the next act Rhadames is a prisoner awaiting a traitor's punishment, but Amneris, still passionate, hot-blooded and vindictive, resolves to try to bring Rhadames to love her. She offers to save him if he will renounce Aida, but he refuses, and is told that death is the alternative. When Rhadames has gone, Amneris cries out against the very fate to which she has sent him. Throughout the trial Rhadames remains silent, and is sentenced to death by being buried alive beneath the altar of the gods whose noble attributes, faith, and justice, he has betrayed. Amneris departs in wild despair, her last hope gone, for nothing now can save the man she loves from the terrible doom which awaits him beneath the temple floor.

The setting of the last scene is one of the most remarkable opera. Above, the temple full of light, where the ceremonies continue immutable in the sanctuary of the indifferent gods, below two human beings dying in each other's arms. The hero, dedicated to death, believes himself alone, and laments, not a suffering death, but separation from his beloved. As the last sounds die, he sees among the shadows the outline of a human figure. It is Aida, come to partake of death beside him. Her father is slain and his troops scattered, and she has crept to earth like a stricken animal, her heart foreseeing the sentence to be passed on Rhadames. The great duet between the two is one of the supreme moments in all opera. Its melody is in broad, calm phrases, tranquil as the sea of eternity. Together they bid farewell to earth, its sorrows, and await the dawn.

KNOW the time all over the world with a
DN Clock.
9d. Each.
BOX 1032, WELLINGTON.



There is a JEWELL Measuring Instrument for every type of Radio and Electrical Requirement. If unable to obtain, write direct to—



Factory Representatives for New Zealand:
ABEL, SMEETON, LTD., Customs Street East, Auckland.

Short-wave News

"El Prado," Ecuador.

A LETTER has just been received from "El Prado" in reply to my report of this station heard on October 3, when a special programme, dedicated to New Zealand, was heard.

They state, "Our call letters are PRADO, and we are in the air every Thursday night from 9 to 11 p.m., E.S.T. (Friday, 2 p.m. to 4 p.m., N.Z. summer time), on 89.8 metres, power 50 watts, and we hope our programmes will continue to be to your liking."

After asking for further reports and any suggestions, they sign,

Yours in radio,

Estacion Radiodifusora de "El Prado."
The address is, Sparto 98, Riobamba, Ecuador, South America.

Short Waves from the Canaries.

THE Tenerife shortwave station is now working on Sunday and Mondays from 9 a.m. to 11 a.m. (N.Z.S.T.), with a wavelength of 41.6 metres. On other days the transmission begins at 6 a.m.

RV59, Moscow.

THE latest schedule from RV59, Moscow, 50 metres, is as follows:—Monday and Tuesday, transmission in German and English; Wednesday, Dutch and French; Thursday, Czech-Slovakian and French; Friday, German and English; and on Saturday, German and French. On Sunday three languages are used—German, English and Spanish. German, Dutch and Czech-Slovakian commence at 7 a.m. (N.Z.S.T.), English and French at 8 a.m., and Spanish at 9 a.m. The station closes at 10 a.m. The Russian session commences at 2 a.m., and continues until the foreign language sessions.

S.W. Reception in Bay of Plenty.

MR. C. F. GEE (NZ9W), Taneatua, in a newsy letter, says that morning reception is very weak at the Bay of Plenty. Paris and Rome are very weak, while G5SW has not been heard for some time. An American, on about 25 metres, possibly W8XK, has been coming in well the last few mornings at 8 a.m. A station heard on about 29 metres, calling Madrid, Valencia, saying that they were just starting a programme at 8 a.m. W1XAZ is fairly good in the afternoons. The 49-metre Americans are now weak in the later afternoon. ZL2ZX comes in well. VK3MB and VK2ME are received well, but fade very badly.

Log for Week Ending Jan. 16

RV15, Siberia, 70.1 metres: Heard every evening from about 8 p.m., but not so loud now until a later hour.

PREPARE FOR THE
ADVANCEIN
BROADCASTINGAND RECEPTION OF
INTERNATIONAL

PROGRAMMES

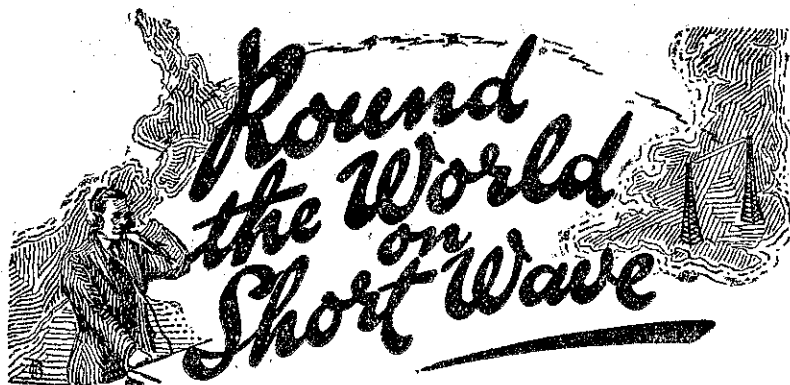
Consult MACKS for all
Alterations, Improvements or
Repairs needed to

ALL MAKES OF SETS.

MACKS RADIO SERVICE

77 KENT TERRACE,
WELLINGTON.

Tel. 28-779.



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.

HVJ, Vatican City, 50.26 metres: At 7 a.m. most mornings, being only R7-8 at its best now. On Tuesday they were early, being R7, with talk at 6.45 a.m.

RV59, Moscow, 50 metres: It is necessary to be up early to hear this station now, as by 7 a.m. signals are down to R1-2, and soon fade out. The other Moscow station, REN, has not been heard during the past few days.

D.X. NOTEPAPER.

Makes sending for verifications easy.

Per two dozen lots, 1/6 posted.

Per 6 dozen lots, 4/- posted.

Box 1032, Wellington.

W9XF, Chicago, 49.83 metres: Usually about R3 at 5.30 p.m., reaching R 7-8 by 6 p.m., but seldom clear of background noises.

ZL2ZX, Wellington, 49.5 metres: The only short-wave station receivable here always free of static, etc.

W8XAL, Cincinnati, 49.5 metres: Saturday, 5 p.m., R6, increasing to R8-9 by 5.45 p.m. The programme from the studios of WLW, Crosley Radio Corporation, was received quite well, except for slight static.

49.2 metres (about): Thursday at 7.45 a.m. a lady singing was heard at about R4, fading right out every few seconds. At 7.50 a.m. the station faded right out, forgetting to come back. No call was heard.

W3XAL, Boundbrook, 49.18 metres: Only heard on Tuesday and Wednesday this week, reaching R8-9 by signing off time—6 p.m. An announcement was made to the effect that on every Tuesday at 6 p.m. N.Z.S.T. the following week's programme would be given.

F3ICD, Saigon, 49 metres: R9 at 11.30 p.m.; sometimes they commence earlier. I usually find Morse interference troublesome till after midnight on this station.

W3XL, Boundbrook, 46.69 metres: Sunday, R3 at 5 p.m., increasing to R8 by 5.30 p.m., but too gushy for good reception.

PLW, Java, 31.86 metres: Tuesday, at 10.15 p.m., R9, with records, and at 11.15 p.m. on Wednesday.

VK3MB, Melbourne, 31.55 metres: Wednesday and Saturday from 10 p.m. R9 with one stage of audio. This station with me does not fade so severely as 2ME.

31.48 metres (about): On Wednesday, at 5.20 p.m., music was heard at R9, several items, but no call was given up till 6 p.m., when I left them.

W2XAF, Schenectady, 31.48 metres: Heard nearly every day, but volume has varied considerably. Very little is heard before 3 p.m., and they reach about R7-8 by 4 p.m.

W1XAZ, Springfield, 31.35 metres: More is being heard of this station now.

Sunday they were weak, and spoilt by static. Wednesday from R2 at 3.15 p.m., they reached R8-9 by 5.30 p.m., being quite good. On Friday morning at 7 a.m. they were very gushy at R4. From 5 to 5.30 p.m. the same day signals were R8. Saturday they were not quite so good.

VK2ME, Sydney, 31.28 metres: Sunday, from 6 p.m., R9 with slight static, and the usual severe fading.

G5SW, Chelmsford, 25.53 metres: Each morning 5SW has either been only just audible, or else no sign at all. On Wednesday night I carried on until 12.30 a.m. in the hope of hearing some news, but an R4 gushy carrier was all that could be heard. The new station is certainly wanted.

25.4 metres (about): On Sunday night a Short-wave Club member rang me up to inquire who the stranger was on about 25 metres coming in very loud. I had not been listening, so I tried round 25 metres and had no trouble in finding this stranger, as the volume was easily R9. The wavelength was about 25.4 metres. At 9.30 p.m., when first heard, organ music was heard. During a short interval at 9.45 p.m., voices in the background were audible. A choir was then heard. By 10 p.m. it was found to be a church service—Catholic. The service continued till 10.30 p.m., there was not any sermon, mostly organ, choral and solos, with two prayers. At 10.30 p.m. an announcement was made in French. This was followed at 10.31 p.m. by a band item. Volume all the time was R9 (like a local station), with a slight rapid fade.

The same transmission, church service, and band after 10.30 p.m., was also heard on about 25.2 metres, possibly FYA, only R3-4, but steadier than the louder station.

12RO, Rome, 25.4 metres: Back again on Saturday morning after a silence of several weeks, the lady announcer was heard at R2-3 at 7.45 a.m.

W8XK, Pittsburgh, 25.25 metres: Only heard on Sunday, when they were R4 at 5.30 p.m., with messages to the Far North.

FYA, Paris, 25.2 metres: Monday, R5 with a very rapid fade at 6.45 a.m., and R2-3 at the same time on Friday was all I heard of this station during the week.

"Cathode" Super

(Continued from page 13.)

valves, or possibly to a first and second audio stage. The pentode seems to suit the average dynamic speaker to perfection, however.

The Power Supply.

POWER supply is drawn from alternating-current mains through the medium of a heavy duty power transformer having two 2.5 volt filament windings for the pentode and the preceding valves, a 5 volt filament winding for a UX 280 rectifier, and a 750 volt centre-tapped winding for the plates of the same tube. The arrangement of the filter circuit is clearly shown in the theoretical diagram. It is a trifle unusual in that the first 4mfd. smoothing condenser is split into two sections by a 1500 ohm resistance. This was done more to protect the condensers from severe voltage rises due to the inductance of the first smoothing choke than for any other purpose, but it seems also to be of material assistance in reducing the slight hum which is usually encountered in a big mains-operated receiver and which is apt to be annoying in the reception of short-wave stations. The bleeder resistance which ensures sufficient current being drawn through the dynamic speaker field to excite properly it must be of a heavy duty type; for that matter, so must the 1500-ohm resistance in the first section of the filter.

Next week a full range of parts required to build the "Cathode" Super will be given, together with full details of the coils and b.p. filters.

Questions and Answers

(Continued from page 11.)

A.: No; a dry cell manufactures its own electricity. A storage battery converts electricity passed into it into chemical form, from which it is reconverted later to ordinary electricity.

3. Which is the best three-valve short-wave circuit?

A.: Either the "Kestrel Three" or the "Night Owl Three." The latter is the less expensive, and is easier to build and control.

NEW CHUM (Levin): Occasionally my set becomes quite dead, but moving the dial a little up and down will often bring the signals back again.

A.: This sounds like dust between the vanes of your condenser, or bent vanes. If you cannot locate the trouble yourself, call in a serviceman. Do not interfere with your set too much, as you may introduce further troubles. Have the valves tested.

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.

... With ... BOOK and VERSE

By "John O'Dreams"

Jottings

REMEMBERING Miss Tennyson Jesse's thoughtful and distinctive work in the realm of the novel, it comes somewhat in the nature of a surprise to read the latest book of this talented author—a collection of sketches falling into the category of "thrillers." In a witty and illuminating Foreword to "The Solange Stories," Miss Jesse summarises the essential elements of the detective story, and provides brief diagnoses of her own method and those of such consummate craftsmen in this branch of fiction, as Mr. A. E. W. Mason and Mrs. Agatha Christie.

The tracker down of crime in the five stories is a charming, clear-cut, modern young woman, partly French and partly English in extraction. Thus naively the creator of the delightful Solange sets out her reason for selecting a girl as chief protagonist: "Although I intensely dislike the modern newspaper mode of thought which considers a woman 'news,' I pandered to it so as to be able to sell my stories more easily."

An element of the psychic is introduced into the sketches with excellent effect: "A sudden warning of the nerves that told, correctly, facts about some human being perhaps only encountered for half an hour and with whom hardly a word had been exchanged." This, in a minor degree, is a sensation not unfamiliar to many highly sensitised human beings, and is exploited in Miss Jesse's enthralling tales with a skill very convincing, even to those of the prosaically minded who are honest enough to admit there are things in earth and heaven undreamt of in their philosophy.

The opening story, "The Pedlar," enchains attention from its quiet opening, when the young worldling, visiting England, her mother's country, sets out for a tea-party at the Vicarage, where she meets a burbling spinster, who very narrowly escapes becoming victim to wiles of unscrupulous Lohario, to whom, by intuitive methods of psychic Solange, is sheeted home a singularly callous crime. An element of the supernatural, indicating possible redemption through spiritual agony, is introduced with a skill calculated to bring shudder to the most unimaginative.

In "The Canary," a sordid boarding-house mystery makes picot for Miss Jesse's ingenuity; "Lot's Wife" is a singularly horrible tale of cold-blooded crime, and its consequences; and "The Black Veil," perhaps the best story in the book, a brilliant study of the sordid old age of a drunken Paris prostitute, who goes to her death leaving behind a

Prize Poem Competition

THE prize of half a guinea in the current competition is awarded to F. H. Smith for "The Musician," a noteworthy poem in a difficult verse form, it being obvious that our contributor is a musician as well as a litterateur. Selected for commendation is "The Writer," by M.L.G., in whose work both strength and grace are apparent, two qualities not always allied; "Merrie's" vividly descriptive and imaginative "Dry River Bed"; and, from "Smilax," three appealing poems in devotional vein, of which we regret that lack of space precludes publication.

From correspondents: "Good Luck to the 'Radio Record' and all fellow-would-be poets."—S.F.J.

"I feel that your page is doing much to stimulate and encourage any not-so-mute inglorious Miltons that we may have among us, and apart from that it makes good reading at any time. How interesting a little collection culled from your pages would be."—G.F.

G.G.: Yours is a noteworthy effort, and is held for further consideration.

"Thur": Your small poem is extremely charming.

"Music of the Spheres": Treatment somewhat inadequate of so tremendous a theme.

"The Lost Friend": A tribute bearing true touch of pathos.

J.B. handles his paean to the sun-god with sure hand and arresting clarity and vigour.

"Termagant": These be strange happenings.

"Love-in-a-mist": Pretty vapourings.

"Flautist": A pitiful pipe.

"Rapsallion": We like clever parody—but it must be clever!

THE MUSICIAN

*He clasped his cherished "Strad" till all was still,
Then raised his bow, and with its magic spell
Set free the inmates of that narrow cell,
The concourse of sweet sounds that rouse and thrill
From diapason to the skylark's trill;
Harmonics crystal-clear as fairy bell,
Staccato pearls dropped from one slender shell;
Chromatic showers, then frenzied chords until,
The storm o'erpast, a still, small voice was heard,
Lulling the senses like a dreamless sleep
And dying in the shadowland of sound.
The audience sighed; and when at length they stirred
A hurricane of plaudits loud and deep
Shook the vast building to the very ground.*

—F. H. Smith, Waimata Valley.

scrawled, magnificent lie to shield a beloved assailant.

It is predicted that this brief and excellent collection will be of extreme interest to those interested in occultism and the psychology of crime.

MR. ALEC WAUGH, since he created his sensation with "The Loom of Youth," has written some good novels, essays and short stories. His literary career has been interesting to watch, and though he began it at the early

age of seventeen, his very real talent shows no sign of petering out. His latest book, "So Lovers Dream," is the story of a successful young novelist, traveller, and lecturer, and his adventures, amorous and otherwise. There are some good portraits of the eternal feminine, notably a charming actress, and, by way of contrast, a presentment of what is known as the modern girl, who cherishes a very real regard for the novelist. He, however, is immune from the tender passion, except in re-

gard to Faith Sweden, who, unluckily for his happiness, is already married. The book is well written, has some vivacious description of the habits of the literary world, and will add further distinction to Mr. Waugh's growing reputation.

MR. G. K. CHESTERTON has written a preface—and it goes without words a witty and revealing one—for "The Burns We Love," by Mr. A. A. Thomson, who has already to his credit a book on the Lowlands and the Highlands. The author has written his book on the perennially interesting poet with epigrammatic wit and brings a refreshing originality to bear on his treatment of the life and work of the well-beloved Scottish bard. In writing his book he has introduced a good deal of his own particular philosophy of life, with conspicuous tact and skill, and shed a new light on certain aspects of the fascinating, if well-worn, subject of his eloquent periods.

"LIFE AS WE HAVE KNOWN IT," by Co-operative Working Women, is a collection of biographical reminiscences by members of Co-operative Women's Guilds, with an appendix of extracts from letters, which give glimpses of their reading, the conditions of their childhood, and their never-ending public-spirited social service. The appalling grinding drudgery of the working woman's life is presented. Many of the writers were earning odd pence for the family exchequer at eight or nine years old, if not, they were responsible for the younger ones while both parents worked. Marriage on, say, 22/- a week was a leap in the dark, and when the baby was expected, then was the time to take on all the extra work you could find, regardless of health, so as to have something saved for its coming. Then would come the lean years, with four or five children, all too young to go to work; and, after that, old age. Not much of a life! Yet against this background stands out the idealism of the writers—their ability, and extraordinary independence of judgment. Above all, there stands out the passionate struggle to live up to a high social and personal standard, which is all that illuminates life for most of them; and their devotion to "the Guild" in which it finds its truest expression.

HAVE you renewed your subscription to the—

"Radio Record and Home Journal,"
Box 1032, Wellington,

the Radio Log is the best paper for long distance fans

Your Newsagent or Radio Dealer sells the "Radio Log" for 6d. a copy. After having read one copy you will realise just what you have been missing, but if you should experience difficulty in getting a copy, write direct to the publishers—

The
Radio Record
BOX 1032 - WELLINGTON.

Tips and Jottings for the Constructor

Eliminator Instability.

WHEN a receiver which is quite stable when working off batteries is connected to an eliminator, it often happens that 'instability' results. The most common symptom is that of motor-boating. This is due to the fact that the eliminator, unlike a battery in good condition, has a high internal impedance. The cure is the introduction of decoupling devices into the anode circuits, and especially into the anode circuit of the detector. If the eliminator is designed to deliver voltages not much higher than those for which the set was originally designed, however, it may happen that the introduction of resistances in series with the "B" supply reduces the voltages available at the anode of the valves to such a degree that the performance of the set suffers. In such a case it should not be forgotten that it is often practicable to use a choke in place of a resistance, and that the introduction of the choke will only reduce the available voltage to a very small extent.

Connecting Loudspeakers.

AS is generally well known, there is a right and a wrong way to connect loudspeakers or 'phones to a set which does not use an output filter. The lead with the red tracer running through it, or which is marked positive, should be connected to the "B+" output terminal. If this is done, the current is flowing in such a way that the field it creates in the speaker winding assists that of the permanent magnet. Connected in the opposite way, the two fields are in opposition, and it is only a question of time before the magnet becomes insensitive. Generally, the symptoms of de-magnetisation are decreasing sensitivity and a marked falling off in quality and clearness. With a well magnetised loudspeaker unit, it may take a long time to reach this state, but wrong connections are certain to be detrimental.

Care of Accumulators.

OVER 'discharging' an accumulator will materially shorten its life. Nothing would be achieved by doing so, because when an accumulator is discharged its voltage begins to drop very rapidly, and the receiver soon ceases to function. The voltage to which it is usually permissible to drop in each cell is 1.8, and down to this value you will not notice any appreciable falling off in volume from the receiver. As soon as the voltage drops below this, however, you will find results getting weaker and weaker, and this should be your signal immediately to disconnect the accumulator and have it charged. Do not wait until results fade right away. An even more sensitive indication that it is charging time may be obtained from the reaction control. As soon as

the accumulator voltage drops even a little you will find that the reaction condenser has to be turned further round to give the same effect as usual.

A Drilling Tip.

MANY beginners find it difficult when drilling holes to keep the drill perpendicular, so that the axis of the hole is at right angles to the surface of the material. A punch mark on the surface of your panel ensures that the point of the drill will not wander in starting the hole, but when the terminal is fixed in position you may find that it leans to one side or the other. The only cure then is to enlarge the hole so that the terminal can stand upright, and this is a poor makeshift at best, and not by any means a workmanlike job.

Until the knack of keeping the drill upright is acquired, it will be found that a small box such as a wooden matchbox placed upright on the panel near the drill is an excellent guide to ensure straight drilling.

You will then find it quite easy to look down over the top of the drill brace and to keep the drill parallel with the nearest side of the upright box. If you tilt the drill out of the perpendicular in any direction you will at once detect your error.

Safety First.

MOST amateurs have one or two spare fixed condensers on hand, but not everyone knows that a great many sets would greatly benefit by the addition of a ".001." The idea is that in condenser-controlled reaction sets (popularly called "Reinartz reaction") the reaction condenser should have a fixed condenser of about .001 mfd. in series with it, to prevent "B" battery shorting.

To insert the condenser, first of all examine the connections to the reaction condenser. In most sets you will find that one of its sets of plates is connected to B+ (possibly via reaction coil), and the other set of plates is connected to the filament wiring. All you have to do is to break one of these leads and connect the condenser in series. In other words, cut the lead and take one of the ends to one side of the fixed condenser and the other end to the other side of the fixed condenser. There will be no alteration to reaction effects, etc., but now, if the reaction condenser plates are accidentally shorted, no damage will result from stray anode voltage.

Buying "B" Batteries.

WHEN buying a "B" battery, remember that the rated voltage and its size are not the only matters calling for attention. Important as these are,

the question of "internal resistance" must not be neglected. A battery having a high resistance fault will spoil the reproduction of the best set, by setting 'up coupling effects between the various stages. This usually results in distortion.

In addition, the resistance may be variable, and then there are present also all sorts of crackling and frying noises, making the battery practically useless. It is impossible to settle the question of "resistance" when buying the battery, and so only those of high quality should be considered when purchasing.

Finally, beware of batteries that show any signs of dampness or of coloured patches.

Useful Hints

UNDOUBTEDLY the best way to make a satisfactory connection to a large metal earthing plate is to cut along part of one edge and bend this up so that it reaches above surface level, where it can be inspected.

IF you have trouble from your aerial swinging and tending to break the strands at the lead-in tube, you will find that a bit of springy brass or phosphor bronze soldered to the aerial will overcome the tendency to wear.

USUALLY the chief objection to portable sets is the "B" consumption, so if you are purchasing such a receiver make sure what this figure is likely to be, or you may find battery renewals far more expensive than you expected.

THEORETICALLY the best place for a volume control is as early in the set as possible, i.e., at the R.F. end.

THE directly-heated type of S.G. valve usually requires rather less grid bias than the indirectly-heated type.

WHEN a grid-bias battery has to be included in an oscillatory circuit (such as biasing for an S.G. valve) it should be shunted by a large condenser of good quality.

ONE disadvantage of the leaky grid detector is that it causes damping and loss of selectivity in the circuit to which it is coupled.

A CONTINUOUS howl that does not vary with the tuning adjustment is a sign of audio instability.

THE grid leak of a short-wave set can often with advantage be increased up to 10 megohms.

IT often pays to lift a short-wave set off the table on which it is standing by means of valve boxes or similar non-metal supports in order to keep coils, etc., well above grounded objects.

AN output choke system or an output transformer is almost essential for high-quality loudspeaker reproduction where good volume is required.

OWING to its excellent insulation properties, glass can be used for the panel of a radio set, but it is difficult to drill.