

Vol. V., No. 5.

WELLINGTON, FRIDAY, AUGUST 14, 1931.

Price, 3d.



## Radiola 45E

A Four-Valve Sereen Grid, All-Electric Console Model, with full power Dynamic Speaker. Australian and New Zealand reception. Elimination of hum. This Radiola incorporates Tone Control—allowing you to accentuate the higher or lower notes to your taste.

Eclipsing all other receivers by its radiance...disseminating a new joy in radio entertainment...and selling at a low price within the reach of every home,

# RADIOLA 45E

is acclaimed alike by a zealous trade and a discriminating public.

See . . . hear Radiola 45E TO-DAY!



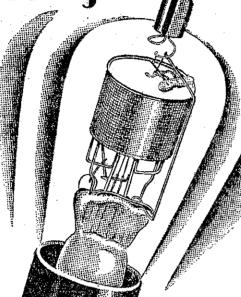
P.O. BOX 830, WELLINGTON.

Agents: The Farmers' Trading Co. Ltd., Auckland.

# You'll find this screen-grid

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Jhe osram my. 224

.. MADE IN ENGLAND



PERFECT radio detection is a matter of perfect valves. This new 2.5 volt Osram is, like the entire 2.5 Osram series, definitely non-microphonic. Shocks or vibration do not affect it. It is the ONLY screen-grid valve that is perfectly noiseless in operation.

You can test Osram '2.5' superiority at your Radio Dealer's. Ask to switch on any set, tune out all stations and tap the 224 or 227 detector. If it is microphonic the speaker will emit a pinging noise, indicative of imperfect reception. If the microphonic valves are replaced by Osram 2.5s, tapping will result in silence.



Ask your dealer also to show you the full range of Osram 2.5 volt valves — MY.224, MY.227, MX.245 & MX.280

MADE IN ENGLAND

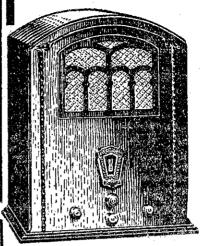
Advertisement of the

BRITISH GENERAL ELECTRIC CO. LTD.

37 Taranaki Street, Wellington.
 Brunswick Bldgs., 49 High Street, Auckland.
 Hannaford Chambers, 145 Worcester Street, Christchurch.

# A Perfect Miniature

Eclipsing Every Standard of Radio
Performance



SILVER-MARSHALL "COMPACT"

# The SILVER MARSHALL

# 8-VALVE SUPERHETERODYNE

All the line tone and volume that you expect in a full-size cabinet model is available in the Silver-Marshall "Miniature" Receivers.

An 8-Valve Midget type Superheterodyne chassis is housed in this "Compact" Model — complete with every feature you want to give unparalelled performance.

A thrill awaits you when you hear the 1931 Silver-Marshall.

N.Z. Distributors:

# FACTORY IMPORTS LTD. 96 TORY ST., WELLINGTON.

N.Z. Distributors for S.-M. Short-Wave Sets, Chassis and Parts— THOS. BALLINGER & CO., LTD., VICTORIA ST., WELLINGTON.



# Standard Dermadyn

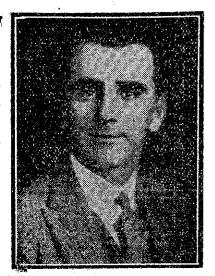
A New Speaker that is a Permadyn. Built on the latest permanent magnet—movingcoil dynamic principle, this Loud Speaker is a production of the highest quality.

It is the equivalent of a dynamic and is of the moving-coil type, but has the definite advantage that no field excitation is required.

It has a 10½ in cone, and can accommodate tremendous volume with absolute faithfulness of tone.

# Stata and Cables (Asia) Limited

Head Office: G.P.O. Box 638, Wellington. Auckland: P.O. Box 1897.



MR. OWEN PRITCHARD who, conjointly with Mr. Albert Russell, acts as song leader at the Wellington Community Sing. -S. P. Andrew, photo.

# Forget Your Troubles -And SING!

We all like to sing—especially when we know that nobody knows or cares whether we make mistakes or not! And that is why community singing is so popular. At 1230 every Wednesday, a community sing is held in the Auckland and Wellington Town Halls, and on many occasions accommodation is packed to its limits. These sings are broadcast from 1YA and 2YA, and their popularity with listeners in is evidenced by the telegrams and heavy mails received after each broadcast by the organisers in both centres. All letters are appreciative, and many show this in more tangible form by the inclusion of very acceptable donations for the collection boxes. On several occasions sailors and passengers on board ships in mid-ocean have given practical proof of their enjoyment of these concerts by "taking the hat round" and forwarding the proceeds on reaching port.

OMMUNITY singing is not new to Wellington. Many remember how during the hard days of the 1921 winter a crowd would assemble one day each week in the Town Hall, there to forget their troubles in singing. That this was the panacea for which the public was then waiting was evidenced by the fact that from a small effort commenced in the Concert Chamber of the Wellington Town Hall, there sprang up in the course of a few weeks organised community sings in about fifty of the largest towns in the Dominion. Mr. Albert Russell, well known as an organiser and song-leader of such entertainments, himself established then in Christchurch, Dunedin, and Auckland.

One sing in Wellington created a record, there being over The Concert Chamber and the main Hall 6000 people present. were packed to their limits, and 3000 more clustered in the streets outside—all singing, singing, singing. These sings, which were renewed during the winters of 1922 and 1923, have not fallen in popularity since then, but this year, with its accompanying financial worries, has been an enthusiastic revival, and now community singing

is more popular than ever.

This is easily understood by anyone who has attended one of these gatherings. One perhaps goes there with a bad attack of the "blues," but after ten minutes of lusty roaring, with bright quips by the song-leaders, taxes, unemployment and other spectres which haunt many people these days, all assume laughably

small proportions.

Community singing in Auckland has developed side by side with that in the Capital City. Inaugurated in 1921, the movement has persisted to the present Though admission is free, collections are taken up, and the response in Auckland has been such that in the past five years £643 has been distributed among the various local charitable organisations. In addition to this, £90 was paid into the Murchison and Hawke's Bay Earthquake Funds as a result of two special sings.

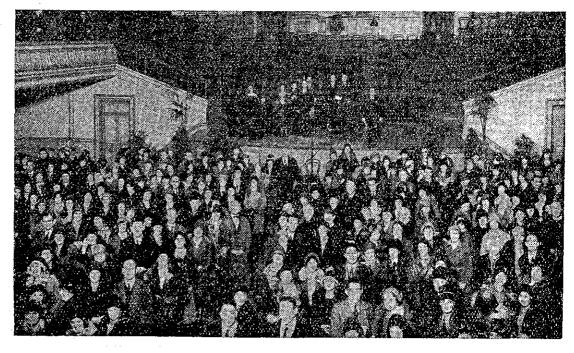
In past years the community singing season commenced in Auckland in June and continued until the last week in September, but, in response to many requests, this season began on April 22, and it is proposed to continue it until October 7.

On the other side of the world community singing has enjoyed immense

popularity. At one period every gathering in the Mother Country—no matter for what object—was preluded with a community sing. Many employers recognised the undoubted benefits of such sings, and set aside fifteen minutes each morning for such a purpose. Imagine all the employees of a big department store, all gathered together on the ground floor, conductor on the staircase, making the building ring to the melody of "Pack up Your Troubles," etc. No doubt such practices did much to help England successfully pull through the difficulties of the after-war period.

IN Australia to-day community singing is the order of the day, and for a twohour period each week the main halls of the capital cities are packed with people eager to forget their troubles.

As in everything, community singing has advanced with the times, and instead of old-fashioned, cumbersone song volumes, neat pocketsize books of "words only" are now available for the singers, while the accompanist has the music of the same songs in a larger volume. The profits from the sale of these song books, obtainable at a nominal cost from music dealers, go toward the collections.



A happy crowd of community songsters in the Wellington Town Hall. Mr. Owen Pritchard may be seen standing toward the front of the stage with the microphone a little to his right. -R. E. Bobson, photo.

# Broadcasting in American Hotels

# A Difficult Problem

THAT much-harassed body, the U.S. Federal Radio Commission, has a new problem to solve, viz., whether the proposed adoption of wired-wireless for distributing radio programmes through the larger hotels will mean the establishment of miniature short-wave broadcasting systems which require licenses.

The problem was presented to the Commission in a letter from Montague Lyon, junior, of St. Louis, a patent attorney. An unnamed client, he stated. has invented the system, patents for which are pending.

Mr. Lyon explains that programmes would be picked up on a standard receiving set and rebroadcast on a lowpowered transmitter, of perhaps 10 watts power, which would be worked into a "dummy aerial system" composed of the electric light wiring on a ground. He said this would prevent radiation to receivers other than those in the hotel or building, and that therefore the system actually was not radio but wire

The 1931 "Radio Guide"
180 pages brim full of useful and interesting information.

# The Aeolian Orchestra

# Popular Auckland Amateurs

# By "Call Up"

music-lovers, dates back to 1922 when Mr. W. Webb, an enthusiastic amateur musician with considerable English experience in vocal, piano, 'cello and organ work, formed in Auckland a small body of musicians who called themselves the "Auckland Amateur Musical Club." The club was divided into two parts—a vocal and an instrumental section, the latter really a small orchestra of less than a dozen The club rehearsed in instruments. Mrs. Webb's studio in Symonds Street. and for a time gave concerts in a small hall, the audiences comprising for the main part friends of the performers; then, as the membership in-creased, concerts were given in the Grafton Hall. By 1924 the vocal section had practically disappeared, and the instrumentalists had increased to nearly thirty under the enthusiastic conductorship of Mr. Webb.

THE origin of the Aeolian Orchestra, and in 1925 various changes were made now so popular with Auckland in the organisation of the club. The name was changed to the Aeolian Orchestra; a subscribers' list was opened; and the practice of giving four con-certs a year in the Town Hall Concert Chamber was inaugurated.

At the beginning of 1928 it was decided to give the concerts in the Lewis Eady Hall, this being most suitable for various reasons. At the end of that year the orchestra lost the valuable services of Mr. Webb, who left New Zealand to reside in Vancouver. The year 1929 saw more changes. The orchestra was fortunate in securing as conductor Mr. H. Hollingrake, the well-known Auckland musician. After a year with the orchestra Mr. Hollingrake was compelled to resign his position owing to pressure of other musical engagements in connection with his position as musical lecturer to the Training College, W.E.A., and other bodies. Mr. G. T. Lee, who had former-The membership continued to grow, ly been deputy-conductor, was unani-

mously elected in his stead. present time the other office-holders are Mr. F. M. Price, president, deputy conductor and leader; Miss F. Lee, secretary; and Mr. J. McGregor, librarian.

The orchestra has some forty-five instrumentalists, all departments being represented, and a quite extensive library of music has been acquired. The players, including the conductor, are, without exception, amateurs. No one receives payment for his services, and remarkable enthusiasm and good-fellowship are displayed by the players. Only three members of the original club are still in the orchestra, these being Mr. M. Aldis, for many years president; Mr. J. McGregor, and Miss McGregor.

The orchestra recently agreed have its concerts broadcast on August 6. the orchestra's second concert for the 1931 season. Their attitude toward broadcasting is favourable, and it has not in any way affected aftend-

ances at their concerts.

The committee endeavours to arrange varied and popular programmes of a light classical type. Its policy is to aim as high as the musical ability of the orchestra as an orchestra will permit, and not to go beyond this. No "rubbish" is played, but, on the other hand, the more difficult classical numbers are not attempted. A typical programme would consist of a march, a grand march, a standard overture, a selection, a suife, a concert waltz, and quite often a symphony or classi-cal number. Various vocalists assist at the concerts.

The Aeolian Orchestra is becoming increasingly popular with the public, as the growing audiences testify. In encouraging amuteur talent in a city proverbially indifferent to good must it deserves every help and encourage ment. At present, due to absence of salary payments and the cutting of expenditure to a minimum, the orchestra is financially sound.

Fitting Gramophone

# Precaution with Super-Het.

APROPOS the fitting of a gramophone pickup to a superheterodyne receiver, we have received a note from an Auckland firm pointing out difficulties.

"While fitting the pickup after the detector is a possible way to achieve the desired result, it involves certain difficulties in the way of construction. If it is to be made a permanent device, as is most likely, difficulties in the alignment of the 175 kilocycle 1.F. transformer will obviously arise. The permanent alteration must be fitted to the low potential end of the grid circuit, and the bias must be altered so that the detector valve may function as an amplifier."

This is no job for the amateur, who should contact his agents before anything of the nature is done.

# FOR SALE OR EXCHANGE

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

MUST Sell: 3-Valve long or short-wave, complete Valves and Batteries. Highest grade parts only. Logged over 100 stations. Price £6/10/-. "Sparks," C/o "Radio Record."



BRITON, MAKER OF MEN

# Make This Test To-night

ing, broad-shouldered nussy, warranteen arching chest and rippling bands of solid muscle? Would you bet on him

the respect of men or the admiration of women if you're a physical weakiling. Let me get to work on that body of yours. Let me build a man who'll be PROUD to step out in a bathing suit. This free book shows how EASY it is. You'll never know what this book is worth to you until you've read it yourself. It may change your entire life. It's a revelation in body-building and musele-building. It's crammed full of pictures and matter that will make you open your eyes. Thousands of men have thought it worth while to invest a 2d. stamp to get their copies. That's all it will cost you. No obligation—no salesman will call. YOU be the Judge and Jury. Mail the conpon or write—TO-DAY.

# ALFRED J. BRITON,

DEPT. R.R. 107 FITT ST., SYDNEY, N.S.W.

Before you step into your pyjamas to-night, stand in front of the mirror and look yourself over. Are you proud of the man you see? Is he a strap-ing, broad-shouldered husky, with

Be fair to yourself. You can't expect the respect of men or the admiration of

and without any obligation on my part whatsoever a copy of your latest book. "The Secret of Muscular Strength—and How to Acquire It." I enclose 2d, in stamps for postage. R  ${f E}$ NAME

ALFRED J. BRITON, Dept. R.R., 107 Pltt Street, Sydney, N.S.W.

 $\mathbf{E}$ FULL ADDRESS  $\mathbf{E}$ 

14/8/31



# Men are Amazed at their STRENGTH

AFTER THIS FREE BOOK SHOWS THEM THE WAY TO GREAT MUSCULAR POWER!

Get this book now; whether you are weak or strong—sickly or healthy—young or old—overweight or underweight—regardless of WHAT your condition may be send for it NOW. It will show you how men just like yourself have grown! STRONG. It will show you the way to a superbly built body—to broad shoulders, powerful muscles, a deep chest, slim waistline, to splendid health and vitality in every organ of your body.

# MY SECRET

The great improvement in your health and strength is simply the natural outcome of a SCIENTIFICALLY CORRECT COMBINATION OF RESISTANCE. You will be amazed at its simplicity, and the results you will get from it.

I Don't Promise You Results,

# I GUARANTEE THEM!

I GUARANTEE to put two inches of solid muscle on your arms; to increase

your chest five inches; to develop your neck to a size larger collar; to add three inches of powerful development to your thighs, two inches to your calves; to give you a firm, slim walst-line, that will make you take in a notch or two in your belt.

And I don't ask you to take my word for it—I don't promise anything—I back every statement with an ironclad

I've done all this for others. I can do it for you. Get the PROOF—send for my amazing new Book—NOW! It's FREE.

# Tear This Out—Send NOW.

# Heterodyne Interference Increasing Reports Wanted from Listeners



HE number of reports on adjusted is heard. Do not mistake you locate a station which, if it were listening for the call-tign until no posheterodyne interference re- this for a heterodyne. not heterodyned, would be loud enough sible doubt exists. ceived in each week's D.X. so that it is apparent a reallocation of at least several of the Australian and New

Zealand broadcasting station frequencies is urgently required.

The problem, however, is not as simple as it appears. For instance, in one locality two stations may heterodyne badly, but in another depending on the relative distances from the two transmitters, they may be received separately and without interference. Hence it is apparent that if the best possible re-arrangement is to be made, some idea of reception conditions in various localities is a vital necessity.

This is where members of the D.X. Club and listeners in general can perform a valuable service to the radio public of this country. It is proposed to ask every listener to forward to these offices a concise report on the heterodyne interference experienced in his or her particular locality.

When sufficient reports have been received and we hope to obtain at least five hundred, covering every locality in New Zealand-all data will be correlated and a detailed comprehensive report prepared. A copy of this will be submitted to the broadcasting authorities of this country, while another will be forwarded to the Australian authorities. who, in the interests of their own listeners, will no doubt be pleased to co-

Every listener who is troubled in this way is earnestly requested to send in a report-for without sufficient data no good could be achieved.

## What is Heterodyning?

NOW for those who do not know what heterodyne interference is. Without going into theoretical detail, it is sufficient to say that a heterodyne between stations is evidenced by a persistent, usually high-pitched, whistle which camet be eliminated. times a garbled mixture of, for example, music and speech might be That is heterodyne interferheard.

I'wo points to be very careful of, though. If your receiver uses reaction you may get a pseudo-heterodyne effect by advancing the reaction control a little too far. A high-pitched squeal is the result. If by slackening the reaction control, however, this disappears, the whistle is not due to a heterodyne. A receiver should never be forced beyond limits in this manner because of the interference it cre-

Again, some other listener may be forcing his receiver in this way, with the result that a whistle which persists until the oscillating receiver is re-

mail has increased lately to the cause of interference is to listenan alarming extent—so much in to the heterodyning stations at the same time for several evenings. Perdoubt is removed.

#### The Report.

IN making out the report, it is im-

not heterodyned, would be loud enough sible doubt exists. One way to make almost certain of and static-free enough to enjoy, do we want reports.

Secondly, heterodyning between stations which are both outside New Zeahaps the surest test of all, however, is land or Australia obviously cannot be to identify definitely the two interfer- rectified, and hence details of such ing stations. In this way all possible would be useless. If one of the stations is in New Zealand or Australia, however, and one in another country, such as America, a report would be wel-

comed. After locating a heterodyne which portant that no mention be made cannot be eliminated without cutting of heterodynes between stations which out the station it is desired to listen are too distant or too weak to be of to, the interfering stations should be any entertainment value. Only when identified, not by assumption, but by

It is not sufficient to identify a station heterodyning with another as XYZ, because your call-book states that XYZ is on or near the same frequency. If the heterodyne is loud enough to spoil the programme, both stations can be identified.

In general, heterodyning occurs between Australian and New Zealand stations. The latter can usually be easily identified, if not during the evening, then at closing time, which in general is between 10 and 11 p.m. As Australian time is 12 hours behind our time, stations in that country can be identified best after our own stations have closed down.

The heterodyning stations should be grouped in twos or threes, as the case may be, with call-sign and location given for each.

Next, your locality should be given. Country listeners should also give approximate geographical position with respect to the nearest large town. For example: "Urenui, 20 miles north-east of New Plymouth." Lastly, state the make and model of your receiver. Those using home-built sets should state the number of tuned radiofrequency stages employed (if any), with comments on selectivity.

Mark your summary "Heterodyne Interference Report," and forward it to the D.X. Editor, Box 1032, Wellington. Reports may be included with other correspondence, but should be drawn up on a separate sheet of paper. Reports should be forwarded as soon as compiled, but not before the sender is completely satisfied that the identification of stations is correct.

listener will help in this matter, because it is only by so doing that you will be able to enjoy programmes free from heterodyne interference.

In conclusion, we hope that every

# A Story With a Moral

TURING the last Easter holiday in England, a British Broadcasting Corporation official was staying at an East Coast resort with his uncle, the local postmaster. A concert party on the pier happened to include a famous wireless comedian, who, recognising a B.B.C. man in the audience, "cracked" a series of improvised gags directed at "our friend from Savoy Hill sitting next to the postmaster." On the Tuesday morning after the holiday there was a twenty-yard queue of nervous listeners waiting for the post-office to open for the sale of licences!

HAVE you renewed your subscription to the-"Radio Record and Home Journal!" 12/6 in Advance. Box 1032, Wellington.

ADECEMBRANCE TERREPORTE CENTRALE CONTROL DE CONTROL DE



The cat in this picture was, by accident, shut up in the packing case and despatched with the radio set to Napler, where he was discovered, a little leaner, but not much the worse for his experience, after 72 hours' imprisonment.

——Photo, courtesy "Dominion"

# The New Zealand

Encorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032. WELLINGTON.

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

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

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

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

WELLINGTON, FRIDAY, AUGUST 14, 1931.

POWER LEAKS AND HETERODYNE INTEREFERENCE.

OUR Mailbag and DX columns provide, we think, a means for the expression of the views of listeners. From time to time interesting points are raised therein, and in not a few cases some definite good has been accomplished as a result. Few subjects are more consistently discussed than interference, for not only has it been responsible for the ruination of many an otherwise good programme, but also it has been definitely responsible for the loss of sales to dealers.

Interference can be classed into two groups-man-made and natural-but it is the former we are concerned with as the latter is quite beyond control. Of the former there are three classes, electrical disturbances, heterodyne interference, and the "howling" valve. Now, has been said truthfully that all man-made static can be controlled. But what is the position obtaining in this country? Very far from catisfactory. When one turns on a powerful receiver, the result, especially if the set is in a town area or near power apparatus, most distressing. A series of gurgles, splutters and roars makes A series of gurgles, splutters and roars makes istening quite impossible. If it is absent, then the chances are that the annoying, unvarying whistle we call heterodyne is there to mar one's enjoyment. In countries where radio is more developed, these forms of interference have been thoroughly suppressed. In several countries it is an offence to operate machinery capable of radiating highfrequency power that can mar someone's enjoyment of radio. quite rightly, too. Inexpensive filters, which will effectively eliminate all noise, can be fitted to most apparatus, and it is our contention that It is high time some such legislation were introduced into this country. Radio is no mere plaything that need be operated only when the ether is clear. It is a utility that is in operation continuously.

A DISTRESSING case is brought to our notice this week. In a certain city suburb residents near the tramline cannot listen when a tram is approaching or leaving. On being asked to suppress the noise the authorities stated that they were the first in the field and therefore radio must give way to them, though they admit that much of the noise could be eliminated at a moderate cost. They absolutely refuse to do anything, even if listeners were to contribute a portion of the cost.

Kingsford Smith uses Burgess Batteries. Commander Byrd uses Burgess. More Burgess Batteries are sold in New Zealand than any Why? other make.

BURGESS RADIO

Frankly we cannot understand this egotistical attitude, but we can appreciate the fact that it is high time legislation to deal with cases such as these was introduced. We understand the broadcasting system is under revision, and we are confidently looking to the moulders of the new system to introduce legislation to deal effectively with cases such as these. It is our firm belief that listeners as a whole are more concerned with improving radio from this angle than they are in who shall provide them with their daily fare. With a clear atmosphere they can reach out and get exactly what they want, whereas now, being in many instances restricted to one programme, they find cause for complaint, simply because one programme cannot please everyone.

Listeners will be disappointed if this question is shelved when the long-awaited broadcasting legislation is brought down. At the present moment it is a punishable offence to make a receiver oscillate so that it annoys a neighbour, yet a local body or a private person can blot out a whole programme, and all that can be done is to ask the offenders if they would please instal filters. Surely the case is reminiscent of the "man-of-war without guns" that we read of in

early New Zealand history.

ANOTHER source of interference is that caused by two stations operating on almost identical frequencies and coming in at relatively the same strengths. The result is a whistle called the heterodyne beat. This completely mars the programme of both stations, and because of this the frequency of 1YA has been changed within the last week or so. Heterodyning stations show a deplorable lack of co-operation on the part of the broadcasters in the areas concerned. In Europe there are some hundreds of broadcasters, yet the ether is orderly and heterodyne whistles are not serious. But they were until a conference was called of engineers of all the principal countries and the "Prague Plan" evolved. This separates broadcasters on approximately the same power and wavelength, and arrangements are made to keep careful track on the outputs of all stations. Broadcasters off their allotted frequencies are asked to explain, and if this state continues they are ordered off the air. A somewhat similar system operates in the United States of America and Canada, where there are some 760 stations on the air. But in New Zealand and Australia the Governments merely "keep in touch." and with no more than 80 odd stations, we find that there is frequent heterodyning, and that now, one of the most powerful stations has to move because of a newcomer and blot out a popular American. Elsewhere we call attention to the fact and ask the co-operation of listeners in preparing a report on the subject. We believe that if a comprehensive report could be handed to the Governments of the two countries much could be done to alleviate the present unsatisfactory state of affairs.

# International Programmes

# New Series Beginning

LISTENERS-IN will find the new and a vocal quartet, provide music, International Programmes to be of humour and joviality.

a very enjoyable nature. The present series at 2YA will conclude on Wednesday, August 12, and the first of the best kind, provided by strings and saves and saves and saves are strings. new series will be broadcast on August saxophone. Featured on the programme will

an exceptionally fine combination, under Mr. Harold Levy, featuring the 17. works of the best composers. Numerous

works of the pest composed.

Vocal numbers are included.

"THE VITAFICITE CARRIED COMPOSED CO

by.
"THE FLYING SONG SQUADRON" is a talented male voice quartet with classical music.

"THE MIRTH QUAKERS," consisting of Brother Macy and Brother A programme

Brokenshire, assisted by an orchestra follow.

From 4YA

THE VITAPHONE ORCHESTRA, A NEW International series will begin at 4YA on Monday, August It will consist of features provided by:-

"THE OLD WHITTLER" talas current topics and personalities. Metaphorically, he sits on a fence whittling a stick as he watches the world go "FORGET ME NOT," instrumental numbers with vocal interpolations by a country of the contract of the

Classical and semimixed quartet.

"IRRESISTIBLE IMPS," songs and

A programme of dance music

# Programme Jottings

ON Thursday afternoon ringside descriptions of the New Zealand amateur boxing championships at Ashburton were broadcast by 8YA. A relay was also carried out on the final night, Friday, and this was further relayed to the Greymouth station, 3ZR. Mr. Geo. P. Aldridge, secretary of the New Zealand Boxing Association, was the announcer. On Monday evening, August 10, arrangements were made to relay from 1YA, Auckland, to station 1ZH, Hamilton, a description of the Walker-Alley wrestling match. These two relays, which were undertaken at the request of the private station, indicate the interest taken in sporting events.

COMMUNITY singing is being revived in Dunedin, and Thursday, August 18, is fixed as the opening date. The gathering will be held in the Town Hall, and as 4YA has been asked to carry out a broadcast the station is go-

# The Third Test

ARRANGEMENTS are in train ARRANGEMENTS are in train for the broadcasting of a daily resume of play in the third Test ericket match between New Zealand and England. As on the two former occasions, the radio telephone will again be used. The previous rebroadcasts by the YA stations were of outstanding interest to listeners, athough atmospheric conditions militated against complete success. militated against complete success.

ing on the air specially for the purpose, Thursday being normally a silent It is probable that arrangements will be made to hold the sing-songs between noon and two o'clock.

ON Wednesday evening last week 1Y.A and 3YA carried out a successful rebroadcast of the American shortwave he occupied a leading position both as station-W8XAL, Mason, Ohio. occasion was a special concert dedi- he left for Auckland, but stayed there cated by the Crosley Radio Corporation to the people of New Zealand. The voice of the announcer was very clear, but the music suffered somewhat from atmospherics.

LISTENERS will be interested to reception of station W8AL, Ohio, enjoyed in New Zealand, endeavours are being made for a monthly broadcast. It is hoped that a feature of this will be a talk by an influential American citizen on a topic of interest to New Zealanders.



# New Octet from 3YA

# Brilliant Combination of Artists

A NEW orchestral octet, to be known Company some years ago. Until she as the Salon Orchestra, will make went to England with her husband in church musician.

selections, will accompany the vocal-

its first radio appearance at 3YA on 1927 she was leader of the Crystal Pal-Saturday, August 8. The octet, an ace Symphony Orchestra, under the excellent combination which listeners conductorship of Alfred Bunz. In Eng-will appreciate, has been formed by land she furthered her studies and Francis Bate, a well-known Christ-played at the Theatre Royal, Ryde, with him. She is now violiniste for The octet, in addition to playing Ballantyne's popular trio. Middleton is well known in Christists.

Francis Bate has the distinction of being a pupil of Johan Hock and a ther her studies at the same time as

# Humorous Mozartian Concert

presented by

Signor Lucien Cesaroni and his Operatic Company

will be broadcast from

2YA on Monday, August 17

member of the Birmingham Symphony Mr. and Mrs. Bate. She returned to Lozell's Hall Full Orchestra at the age of fourteen. After a short tour of Canada he came to New Zealand in 1920 and settled in Christchurch, where The a teacher and as a performer. In 1927 only fifteen months, when he returned to England to gain knowledge of the latest methods.

While at Home he toured with the Paul Belinfante Quintet and played the summer season at the Theatre Royal, Ryde. He returned to Christlearn that in view of the splendid church early in 1930 and is now bustly engaged teaching. He is also musical director for Messrs. J. Ballantyne and Company, Limited.

> LADYS VINCENT (Mrs. Francis Bate) is well known throughout New Zealand. With her violin she Christchurch. She is one toured as a prodigy with the Cesaroni planistes in New Zealand.

Orchestra. He was solo 'cellist of the New Zealand in 1929 and was leader of Everybody's Select Orchestra until tor of the Grenadier Guards' touring the advent of the "talkies." Hutton, recognised as one of the leading flautists in New Zealand, has had years of experience in professional circles. F. Woledge is a clarionetist of high standing. He was a member of the Crystal Palace Orchestra for several years and latterly at Everybody's Theatre. Jas. Alston, the bass player, is also an artist of the first class. He was a valued member of Everybody's Select Orchestra from its inception till it disbanded. Rena Algie, 'celliste of the octet, is a gifted pupil of Mr. Bate and had much experience with various Christchurch orchestras.

The pianiste of the octet will be Aileen Warren, whose reputation as an accompaniste extends far beyond Christchurch. She is one of the finest beyond

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1YA Orchestra

Two New Members

IN accordance with the suggestion made by the 1YA Musical and Dramatic Committee, the present fine orchestral combination has been increased by two members. The station has secured the services of a cornetist and a trombonist, and the augmented orchestra will make its first appearance on August 80.

The cornetist is Mr. W. Bright. Before the war Mr. Bright was mostly concerned with brass band work in Anckland, and for a few years studied piano and theory work under an eminent German musician at that time in the city. During the war he was a member of the New Zealand band in France, and while convalescent in England was deputy-conductor of the New Zealand Engineers' Band of forty players at Bournemouth, playing alternate-ly with the Bournemouth Municipal

# 1YA's Wavelength Altered

In order to avoid serious heterodyne interference with the transmissions from the new Australian "B" class station, 4RK, Rockhampton, it has been found necessary to shift 1YA's frequency, This is now 875 kiloquency. This is a cycles (343 metres).

Band under Sir Dan Godfrey in the Winter Garden and on the pier for twelve months. He was considered by Mr. Pearce, the tutor of the brass band at Bournemouth Academy, and conducband, to have as fine a tone as he had heard there.

Mr. Bright has appeared as cornet soloist before their Majesties the King and Queen at the Queen's Hall in Lon-He was recommended and had don. papers arranged for a six months' term at Kneller Hall, the famous military music academy, London, but owing to the termination of the war he did not fulfill his contract.

Mr. Sid. Sly, the trombone player, was at one time soloist in the Wanganui Garrison Band, and was also principal trombone player of the Auckland Bohemian Orchestra. Mr. Sly has just returned from Los Angeles, after some years spent with leading orchestras in that city. He brings to 1YA the fruits of splendid experience in orchestral

Thus, both Mr. Bright and Mr. Sly come to 1YA with a wealth of experience, and should considerably augment the present high standard of efficiency which the 1YA orchestra has obtained under the direction of Mr. Harold Bax-

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S-O-S

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WELLINGTON - PALMERSTON NEW PLYMOUTH

# A Book Review

The his last review. Mr. H. C. South, speaking from 2YA, devoted most of the limited time at his disposal to a commentary on "The Mystery of the Moz," by T. Lindsay Buick.

The Moa, which belongs to the family tree of the Ostrich, Emu, Cassowary and Kiwi, provides us with the most baffling mystery and romance of all creatures. The pressing problem for those interested is to know just when the Moa disappeared. Skeletons afford but little aid; all that can safely be deduced from bones is that the Moa was in existence to a later date in the South Island than in the North. Maori

ing to Mr. South, deals very attractively with a definite chapter in the history of the development and evolution of life.

other books. "Buttercups and Daisies," by Compton McKenzie, is of particular lesson to present day conditions. which is substituted cheerful humour.

its tents and is on the march..." as the theme of her latest book "The Marching Feet." Mr. South recom-Marching Feet." mends this as a good book, strongly told and wise in its outlook. As he says, this authoress may be one of our

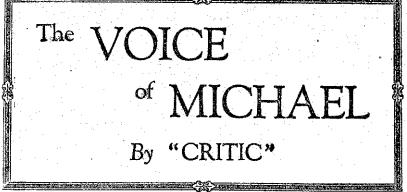
because he always gives listeners full I was listening to an expert, I held my sioned." all demanding that this vicious all these questions:reasons why books appeal to him. other words his criticisms, if they may so be termed, are constructive and never destructive, and consequently must be valued by those deciding on an addition to their library or to their reading

# The New Defence Scheme

CHANGING upon a talk on the above subject from 3YA, I was quite astonished to learn at its close that I had been listening to a full-blooded colonel! Somehow I always associate the speech of colonels with barks, roars and clipped staccato-like utterances reminiscent of the noises of a full-grown barrage; the kind of speech which may bore you but will never lull you to sleep, that will compel your attention without arresting your interest.

The talk by Colonel S. V. P. Nichols, D.S.O., compelled attention and interested you; it was a smooth, logical exposition of the desirability of the new volunteer defence scheme. He illustrated to a nicety the suggestion which I have more than once made in these columns that the quoting of an incident or the telling of a story will compel more attention than all the prosy, logical arguments in existence.

Early in his talk the Colonel reminded me that prior to 1870 the French invented



lore and tradition, which are generally the machine gun. The secret was so breath in apprehension when he anceasonably accurate, vaguely pin the closely guarded that when the French nounced recently from 1YA that he was date of the Moa extinction to between armies took the field against the Gerto talk on Alsatians. But my anxiety mans, none knew how to operate the was quickly allayed; "Sparwood" is a torical rather than scientific and, accordance was described. Lack the forested the grant of the period. Lack the forested and prejudice. Known my to interest because it provides an entire pressing need on the outbreak of any undesirable attributes and qualities. heavy style. In this book we find an and N.C.O's. The volunteer system in a new mame to be desirable, and they does not permit.

entire absence of the lugubrious, for New Zealand should provide enough chose that of "Wolf-hound." Clever, Please remember, though, that in which is substituted cheerful humour. material to call upon in case of emer- wasn't it? As "Sparwood" says "had classifying the Alsatian as dangerous,

# The Alsatian

HAS any gentleman been

4YA

have been adjudged the winner."

Hug. 19

and dangerous breed be exterminated? Any dog, of any breed, if ill-treated or badly cared for, is liable to turn bad tempered, but of all breeds, when properly looked after, none ranks higher for intelligence, frankness, boldness and gentlemanly behaviour than the handsome Alsatian.

"Sparwood" gave two local examples of the Alsatian's trustworthiness and sagacity. A comparative baby paddling on the beach at Takapuna was bowled over by a wave and dragged, screaming into the undertow. A beautiful Alsatian, not belonging to the baby's family, saw the danger, dashed in and brought that little child out of peril, restoring it to its distracted mother. Despite the fact that the child was wearing a bathing suit only, she never received one pinch from that Alsatian's teeth.

Again, a Henderson lady with Alsatian pup on a lead, was accosted recently by a bag-snatcher. As soon as she could, after recovering from the The chief enemies of the Alsatian are shock of the push which the thief had) wical rather than scientific and, accord-have won any war of the period. Lack

The chief enemies of the Alsatian are shock of the push which the thief had go to Mr. South, deals very attractively of knowledge and training cost the ignorance and prejudice. Known up to given her, she liberated her young the development and evolution of life. tion of this illustration was excellent; man Shepherd Dog," it carried a name He was only a youngster, but he knew Brief mention was also made of two it compelled attention, and listeners which breathed peacefulness and the his drill; notwithstanding the most ther books. "Buttercups and Daisies," would have no difficulty in applying the desire to protect. As soon as the war brutal kicks, that pup got the bag back of Compton McKenzie, is of particular lesson to present day conditions. The broke out the name became charged with So my own experience I could quote many change from the author's customary war is for trained and capable officers the kennel club in its wisdom deemed more such examples. Space, however.

Please remember, though, that in Mrs. Burnett Smith (Annie S. Swan) gency—material which may be spared they held a competition and offered a treacherous or unreliable, you do but has taken a passage from the Lambeth the usual necessity of gaining fighting substantial cash prize for the most display dreadful ignorance. If you have unfortunate name, then wolf-hound must the room; if you are prepared to devote ave been adjudged the winner." time and trouble, first in training, and Let it be remembered that it is post thereafter in exercising; if you are big sible to keep a list of offences against enough to have a big dog then you will any breed; because your terrier, feeling find in the Alsatian a handsome friend frisky, takes a bit out of the butcher who will reward your initial efforts on boy's pants, do you expect all your his behalf with a whole-hearted devotion says, this authoress may be one of our oldest living novelists, but she remains maligned, abused and slandered than maligned, abused and slandered than maligned abused and slandered than mali

Have you plenty of space? Have you sufficient time?

Will you feed him carefully regularly?

Will you refrain from over-feeding him?

Will you groom him regularly and constantly?

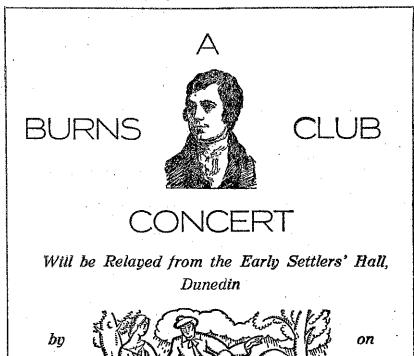
Will you give him plenty of exercisenot a stroll round the block, but a good romp over the hills-every day?

If so, he will make you his god, and will worship you—Can you stand the strain?

Should you be unable to answer all the above with a definite affirmative, please don't buy an Alsatian.

# Tourist and Health Resorts

THE talk by Mr. A. E. Wilson, recently given from 2YA, places me in a difficult position. When lecturers have, in my opinion, brought in advertising propaganda, I have never hesitated to condemn the practice. In this case the talk was interesting, but it was undoubtedly an advertisement for the New Zealand Railways and for the Chateau Tongariro; accordingly I should rebuke the speaker. It may be claimed, however, that a week-end spent at this famous resort is of national ser-



This lecture was by way of being a pot-pourri in that the speaker devoted half his time to emphasising the national plea for bird preservation and reminding us that this month is bird month. hope the reminder will not fall on deaf ears and that we shall do all in our power toward lightening the burden of living for the birds during this month when food for them is so scarce and hard to obtain

# Manchuria

MUCH informative data was provided vided the natural outlet for hundreds of thousands of Chinese who have fled from drought, famine and excessive taxations in their own native States. It is an area capable of enormous production, besides being rich in natural forest and mineral resources. Unfortunately international political atmosphere surinterests therein.

By defeating Russia, Japan gained centrol of the Southern Manchurian Railway and, on May 25, 1915, gained territorial concessions from China. The anniversary of this day is now held as a day of national humiliation by the Chinese, who are insistent that the grants were obtained under false pretences and by unfair means. They claim the evacuation by the Japanese of all interest in Manchuria.

From the point of view of population, Japan is not vitally interested; her people prefer to stay at home, and there are only about 200,000 Japanese in Manchuria. But her financial interest is enormous. Moreover, Manchuria provides for Japan a natural outlet for own factories and manufacturing plants, and, in consequence, she is loth to make any concessions back to China. When it is realised that Russia has never forgott what she lost, it will be under-stood that the position calls for tolerance, patience and wise statesmanship of an unprecedented high order. One false step may result in a flare up which, fanned by international intrigue and alliances, might plunge the civilised world back into another world war.

# Some Further Romance

N the second of his talks on "The Romance of the Main Trunk Rail-Mr. Fergie again preferred to deal with hard cold facts rather than indulge in any flights of fancy to the world of romance. He explained some of the reasons why a through connection in the North Island took longer to

vice. It provides revenue for the State, establish than a through connection in

Firstly, there was the difficulty of overcoming the objections of the Maoris and, secondly, the nature of the country with its vast ravines and gorges, made railroad construction slow and costly. Isn't it queer how native races, in the early stage of so-called civilisation, have a rooted objection to railways? Canada had to face the active dislike of red Indians: South Africa has had to contend with Zulu and other native opponents to progress; we had to contend with Maori interference. Wasn't this rather a golden opportunity for Mr. Fergie to have held his invisible audience spellbound while he recounted some of the dangers faced, and some of the deeds of heroism performed, which must be chronicled to the credit of our railway

Instead of this Mr. Fergie dealt at some length with the constitution and aims of the newly formulated Railway We all wish the board every possible success; the difficulties the members have to face are, in a very different way, perhaps as great as those terbury College, in his international talk construction. Paint these difficulties and given from 3YA. Manchuria has provided the natural outlet for he was prothe way by reminding the members of some of the Herculean tasks accomplished by rail leaders in the 70's, and who knows but that success in railway

management may yet be attained?

Mr. Fergie did permit himself one the flight of poetic fancy—and a pretty lurid flight it was-when he likened the red rounding Manchuria is charged with and green lights of the signalmen as electricity by reason of the Japanese splashes of ghost's blood and green eyes of little yellow gods respectively. He had only to complete the picture describing the rails as the ghost's backbone and . . . but then there would have been one terrific argument between Auckland and Wellington as to which centre was entitled to call itself the "head" of the skeleton, so perhaps it was all for the best that he stopped where he did.

## Neutralising the Radiola 20

(To the Editor.)

A CORRESPONDENT, R.D. (Kaitangata), writes with regard to our much of the tremendous output of her answer to a query concerning the use of other American valves in the Radiola 20. Our answer favoured the 199,120. He states that we are not correct in this statement, and that he has been using A409 as r.f., detector A415, first audio A409, power B403. They have been in use for three years, and have given excellent service. His log to date is 74 stations. Regarding neutralisation, he says it certainly takes time and patience to re-neutralise the set, but he considers it worth while.

We pass this information on, but we might add that our remarks concerning the use of the 199 and 120 type valves were based not solely upon our own experience, nor those of one listener, but upon the average. However, when the set is neutralised for other valves, it will give good service.

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#### News Session.

ONE, "Eos," writing this week, says, "Cut out jazz, etc., reduce the news and reports, as most of it is stale to people who have already read their papers." It is quite evident that "Hos" is a "townie", and a selfish one at that. I am also a "townie," but noted the great boon that is given to the country listener by the air in the way the news session is an also as towners, but notes the great boon that is given to the country listener by the air in the way the news session is appreciated by the country listener when I visited my old home in the Murchison district. We were six miles from the post office, got the mail twice a week, unless we made a special trip for it, but the news came over each night from 2YA. Let "Elos" go somewhere where the daily papers do not reach each day and he will alter his opinion. "Elos" is right when he says that radio is a public necessity, but he must also remember that he is not the only pebble on the beach, and even if he and his like stop their license fees, the loss will be theirs, for others will step into their places in the ranks of appreciative listeners.—Wave Trap (Wanganui).

#### More Dance Music.

I WOULD like to add my support to the views of "Patient Listener-in" and "Ricky" in your issue of July 31. Too much cannot be said or written in condemnation of our "deadly dinner music." The abolition of those long pauses, or tacets, punctuated only by crashes of static, was indeed an improvement but why not continue with the crashes of static, was indeed an improvement, but why not continue with the good work? Surely the Radio Broadcasting Company need not have all its four stations broadcasting dinner music or news reports at the same time. One can hardly listen to them all at once. Let us be provided with bright, cheerful music between 6 p.m. and 8 p.m. More than ever at this time of depression and worry we need something light and happy to entertain us as we return from perusing our declining wool, butter-fat



While we welcome the expressed views of listeners on topics pertaining to while we welcome the expressed views of instances of topics persaming 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 nom-de-plume may be used for publication.

or sales returns instead of first and second movements, as "Patient listenerin" writers. And with regard to dance music. Who wants to start a party at 9.30 p.m.? Could not each station start its dance programme at 8.30 p.m. once a week? This would give us at least four nights of dance music per week at a time suitable for both the early-rising country listener and the city fan. With such improvements as these early-using country instener and the city fan. With such improvements as these private control of the YA stations would be infinitely preferable to State control.—"Waipa" (Otorohanga).

# Children's and News Sessions.

I AGREE with some of "Eos's" views, but I must disagree with the idea cutting down the news section of A's programme. I have no axe to 2YA's programme. I have no axe to grind, as living in town I have usually cleaned up both daily papers before this session comes on, and if, as "Eos" writes,

or sales returns instead of first and most of it is stale, well, switch off, as second movements, as "Patient listener surely something else can be found to do most of it is stale, well, switch off, as surely something else can be found to do during the forty minutes or so, but I would ask, "What of those listeners in the waybacks who get their newspaper perhaps only three days a week or less?" Is it not good to sit back in the evening and listen to the latest news while it is still fresh instead of being two or three days behind? I would like to back up "Tooth Grinder" re "Hollywood." I think we get just a little bit too much Yankee from 2YA, especially on Wednesday night.

day night.

Re children's session from 2YA. As most children have their parties on Saturday there is always an exceptional number of birthdays on this day, and they are put through only at the expense of the musical part of the programme. Only a few Saturdays back Uncle Jasper was unable to complete his budget in time and had to finish on the fol-

lowing Tuesday at the expense of this programme and the disappointment of the kiddies who were waiting on Saturday. Now what I would suggest is: Do not cut out the birthdays, that's half the fun, but on Saturday start the session at 4.45 p.m., or as soon after the football relay as possible, which would give an extra quarter of an hour. Also, do not allow the cells to he dunlicated. It an extra quarter of an hour. Also, do not allow the calls to be duplicated. It is quite common to hear the same name called two or three times the same week called two or three times the same week and sometimes the same night. If a strict rule was made to call only the birthday on the actual night or party night instead of both nights the session would be much improved. It is only swank on the part of some children to have all the uncles and Aunt Molly call them up, whereas the actual party is fun. Now, sir, count me as one vote (or more if you like) in favour of the present administration.—Cheerio (Kaiwarra). warra).

More Bass Wanted.

WE think the band programmes would be improved by more of the drum—also the orchestra would be better with some double bass. Both come out well over the air. I think the Dunedin Band is the only one that registers the drum.—I.T. (Cambridge).

#### Tramline Interference.

TAKE it you are out to do all you can to assist radio reception in every way you are able. I wonder if you would draw attention to the scandalous attitude taken up by the electrical department of the local city council on the question of tramway interference of radio. The residents of Opoho—a hill suburb 2½ miles out of Dunedin—on account of a tramway system that is in count of a tramway system that is in bad repair, cannot listen to any stations outside of Dunedin between 7 a.m. and 11.30 p.m. From the moment the car starts to climb the hill until it reaches (Concluded on page 30.)

# August is Bird Month

What a glorious "Spring Tonic" to win a Fortune for 2/6! Be a "Lucky Bird" --- buy a ticket every week--give yourself a real chance this time!



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# oise --- Its Cause and Elimination

# 'A Non-Technical Chat on a Subject of Vast Importance

By the Technical Editor

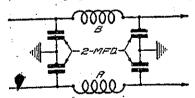
I WONDER how many who have discarded their battery sets for a.c. ones have noticed, that though many more stations are available, there is now much more noise? And I won-der how many owners of battery sets have remarked that they would not change their present set for an electric one on account of the noise the latter picks un? No doubt a great deal of this poise is due to the greater sensitivity of the set—it brings in noise as well as entertainment—but if the set is turned down to the sensitivity level of the battery set, the noise is little, if any, greater. But the a.c. set is often more noisy and this is due to its picking up noises transmitted through the electric mains with the current that operates the radio.

This brings us to one of the greatest problems of modern radio, the suppressing of noise. Before we attempt to suppress it, let us see if we can recog-

nise the various forms.

Noises like the signals picked up from the broadcasting station are a form of high frequency current, and consequently have the rather distressing habit of getting mixed up with them. That is the first problem-how

to keep them separate. Let us see how they reach the set Wherever they come from, they are in the form of waves similar to the signals from the transmitting station. They can then enter the set by way of the aerial or the earth, or by the In this latter power mains. class there are two distinct types of inter fering impulses. One is arising from surges in the mains, due perhaps to a switch or defective lamp upsetting the equilibrium of the current, and the other is high frequency noise caused by a spark transmitting its impulses along the wire. It is a combination of "wired" wireless and the spark transmitter of long ago. Both of these are



A filter for suppressing h.f. noise.

obsolete and have no place in the modern set-but we have to eliminate

#### Sources of Noises.

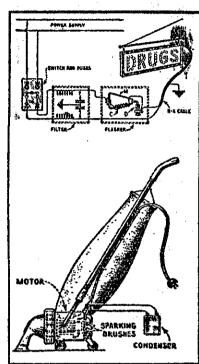
LET us now set down the facts as we have them, in some sort of order, so that we can see where we

Interference can be picked up:

(a) By the aerial and the earth systems. This may be due to static, over which we have no control, and which we shall not at the present discuss, or electric interference—which we shall disenss.

(b) Through the mains due to power surge.

frequency impulses generated by inter-elimination of noise can be brought



Suppressing noise in a flashing sign and a vacuum cleaner.

fering electrical gadgets. Here are some of the likely sources of interference of this nature: Generators and motors, are light circuits, street cars and electric trains, sign flashers, hospital and domestic equipment, roof bells, battery chargers (if of the vibrator type), lifts, moving picture equipment, switches, etc.

Now that we have classified the types. let us see how to recognise them.

To find out if the aerial is picking up noise, the most logical way is to take it off, and if the noise discontinues it is clear that the aerial is picking First look for loose connecit up. tions in the aerial-earth system itself and for any points that it can make contact with a ground return. Examine the ground and you might find that the clamp is corroded or rusty. Simple things should be looked to without a reminder, so we shall pass over them to the case where the antenna ground system is in good condition.

If the source of the noise is not apparent, the most sensible thing to do is to write to the district radio inspector and solicit his aid in locating the origin. If, however, it is due to some obvious cause, such as the proximity of the aerial to power lines or electrical apparatus, mitigation at least is in the (c) Through the mains due to high hands of the listener—though complete

about only by the co-operation of the owner of the noisy apparatus.

If power lines are to blame, re-erect the aerial so that it points toward them. It should NEVER be parallel. Take it as far away as possible, but do not have a long and straggling lead-in. Keep the flat top very short and as high as possible. It should be borne in mind that signal strength received is proportional to the square of the effective height of the aerial, which means that an aerial, roughly speaking, when raised to twice its former height, will bring in four times as great a signal strength. Furthermore, by raising the aerial above the interfering lines, the noise pick-up will be diminished considerably. A further diminished considerably. precaution can be taken by using armoured flex for the lead-in and earthing the armouring to a ground connection, distinct from the receiver ground. It will probably be found that the selectivity will be impaired by what amounts to lengthening the This is really a blessing in aerial. disguise, for the tuning can be sharpened up by another tuned circuit and more of the unwanted noise tuned out.

#### Noise from the Ground.

AS a great deal of the noise origin-A ates in the ground connection, or rather is transmitted from its source to the set via the ground, this part of the outfit deserves some consideration. Often a different ground from the one at present in use will bring about a remarkable difference in noise

If the present connection is to the household water system take it from here to some independent connection, consisting of a galvanised pipe sunk in moist ground. Coppers, etc., make good grounds, but it does not matter what you decide to use so long as it is efficient. Whenever armoured shielding is used connect it to a separate earth.

## Noise Through the Mains.

THE simplest form of noise through the mains is that due to a power sidering as a cause for complaint, as cases are rare. If a single plop is heard

when a switch is turned on the indications are that that switch is defective and should be tightened up. If it will not respond to this treatment, connect a 2 mfd. condenser between the points and the trouble will disappear. Under our regulations people who interfere with the mains or mains apparatus lay themselves open to prosecution, so it is better to get someone in the electrical line to do the job properly.

High frequency noise through the lines can be cleared up in either of two places, at its source, or at the point where the power enters the set. (Concluded on page 29.)



ALL OTHER A-C Sots

Obtainable at all good Radio Dealers. surge, but this is not worth while con- Factory Representatives: RADIO LTD., Commerce Building, Anzae Avenue, Auckland.

# **DUBILIER CONDENSERS for "KESTREL 3"**

GIVE BETTER RESULTS:

.0001 Mica Condenser and Clips, 2/- each. .0002 Mica Condenser and Clips,

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

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

All Other Parts Stocked.

# A. E STRANGE

404 WORCESTER STREET, CHRISTCHURCH.

# Answers to Correspondents

R.H. (Auckland).—You could receive short-wave stations on your broadcast set by building a short-wave adapter. One suited for your purpose is described in the 1931 "Radio Guide." If you have an efficient aerial, unshielded by these heildingstates and acceptance. by trees, buildings, etc., and a good earth, there is no reason why you should not receive at least as many stations as your neighbour does, as you say your set is superior to his.

F.L.W. (Fordell).—Briefly, the DX Club is composed of listeners who are interested in the reception of distant stations. Its objects are in general to assist the development of radio in every possible way.

"CIVIC" (Karapiro).—Your log is quite good. The addresses of American stations as given in the "Radio Log" should in the majority of cases be quite sufficient.

"DX260C" (Dunedin).—The best way to identity Japanese stations is to wait until they close down, usually at about 12,30 a.m., when they invariably give their call signs. Programme items, though usually unintelligible to English ears, can be described. Do so when writing for verifications. ears, can be described. writing for verifications.

W. R.G.B. (Port Chalmers): Full particulars of the next DX competition appeared in the last issue of the "Radio Log," obtainable from booksellers or from Box 1032, Wellington, Price

(Blenheim); KDYL, Inter C.J.S. Mountain Broadcasting Corpora-tion, Salt Lake City, Utah. KOA, Na-tional Broadcasting Co., Inc., Denver, Colorado. KUOA, University of Arkan-sas, Fayetteville, Arkansas. There is no station KFGB.

"DX12NW" (Nelson): If you have logged the number of stations you mention in only a fortnight you should be well in the running for the next DX com-

G.W.C. (Kurow): There are approxi-G. W.C. (Kurow): There are approximately 16 American stations operation you wish identified are much too ating between 3LO and 4QG, so you see scanty to be of any use.—Ed.]

# News and Views of the

# D.X. CLUB

without further particulars it would be useless to publish your queries.

PURUKI" (Picton): You will be surprised to see how rapidly your log will mount when you commence DX-ing in earnest. The stations you have already logged will form a good basis.

"PEDRO" (Pahiatua) and E.E. Le P. (Hamilton): The station you are both mistaking for XOL is the twin station of JOAK, referred to recently in the DX Notes.

# Addresses and Addresses Wanted

WOULD ZL2QSL (Waipawa) please forward his address?

WOULD "DX5T" please forward the full address of station XGZ (formerly XOW). "Kelgo" (Invercargill). Also be anyone the address of station 3BY. Melbourne?

## **Identification Wanted**

STATION on 1160 kc. (258 metres), heard at 1 a.m. on August 2 broadcasting a description of a boxing match. Heard name of one boxer-"Rogers." Later heard vocal numbers, "Old Folks at Home" and "Long, Long Trail."
--"M.X." (Penrose).

AT about 6 p.m. on August 5 a news session was heard from an American station on approx. 1430 kc. (210 metres). An earthquake in Sicily and an aeroplane accident in California were mentioned. At 7.10 p.m. an item, "Eleven More Months and Ten More Days" was heard. Also at 6.10 p.m., on approx. 820 kc. (366 metres), "the National Concert Orchestra" was heard playing "The Cradle Song" and "—" ("the love song of the young things of the twentieth century"). Announcer was American.—"DX9W" (Felding).

STATION on exactly 449m. (668 k.c.) heard at 1 a.m. on August 3—undoubtedly Chinese. Also another Chinese station on 276m. (1085 k.c.) heard the same morning after the Japs had closed down. At 7.15 a.m. one morning recently I picked up a station on 990 k.c.

# To DX Club Members

On page 3 of this issue appears on page 3 of this issue appears an article asking all listeners to forward reports on heterodyne interference. The problem, as no doubt you all know, is rapidly becoming serious, and in view of this, we are endeavouring to secure and correlate enough data on the position targles before the on the position to place before the authorities, who have expressed their willingness to co-operate in every possible way. Without a comprehensive report covering the whole of New Zealand, very little can be done, and it is in this recan be done, and it is in this respect you can render invaluable resistance. Reports from all listeners will be greatly appreciated, but in particular. I would like every member of the DX Club to forward a detailed report separately or enclosed with DX correspondence.

The DX Editor.

(304m.) at R3. It slowly faded out between 7.40 a.m. and 7.50 a.m. Orchestral recordings were heard, but no aunouncement.—"Keijo" (Invercargill).

STATION heard testing lately at about 12.30 a.m., Location sounded like "Brighton." (What frequency?—Bd.) Also station situated between KOA and 3ZR heard at fair strength lately. Closes down about 7.40 p.m.—"New Chum" (Dunedin)

(Dunedin).
[The particulars you give are scarcely sufficient for identification purposes.—

STATION heard on 75 (KMI 72) at 10.30 p.m. on July 25, broadcasting American Stock Exchange report. Also station heterodyning 4QG. Brisbane, at 9.30 p.m. on August 2,—"DXEM."

GTATION heard at 12.45 a.m. on August 2 on 1110 k.c. (270m.). A soprano solo was heard, followed by applause. The next announcement was from studio, announcer remarking "We are now going back to the theatre." Then a male voice sang. "There is Danger in our Eyes, Cherie." Would this be KZKZ, Manila?—"Silver King" (Auckland).

EARLY morning station operating on 790 k.c. (380m.). closing down at 6 a.m. on July 31. Also station heard

at 11 p.m. on August 1 on approx. 283m. (1060 k.c.). Male and female duet in what I thought was Chinese was heard, followed by several English recordings. KFBI was coming in well on 1050 k.c. (286 metres).—R.A.S. (Mamaku).

STATION heard from about July 1 onwards on 3XA's frequency usually between 7 and 8 a.m. Musical items, followed by foreign speech. Also stations heard before 7.30 a.m. operating on 6WF Perth's and 4QG Brisbane's frequencies.—"White Heather" (Invercargill).

STATION heard at 6.55 p.m. on July 28 on 1.440 kc. (208 m.), broadcasting a church service. At the conclusion, announcer remarked that reports were coming in from Canada and that he expected more distant ones in a few days' time.—"DX5HB" (Napier).

STATION heard from 5.45 a.m. to 6.15 a.m. on July 28 on approx. 890 kc. a.m. on July 28 on approx. Ou Re. (337 m.). A solo on an instrument something similar to that often heard from Radio Bangkok was heard, but no announcements. Also station on approx. 730 kc. (411 m.). heard on July 29. Song by male voice, followed by piano solo. Station disappeared at 5.45 a.m.—"Scalper" (Ohakune). (Ohakune).

STATION on 1225 kc. (245 m.), heard on July 30 from 6.26 to 6.53 a.m. Foreign talk and music. I note that N. Jenkhus (Masterton) evidently heard same station a few days earlier, and suggests that it is either German or Austrian.—"DX6N.W." (Westport).

STATION heard at 11.45 p.m. on August 5, just below 3LO. Person spoke in foreign language for fifteen minutes, when station faded out. Also, station heard at 11 a.m. on July 30, 2 degrees above 4QG Brisbane. Heard chimes, followed by the weather report.—J.H. (Wellington)

[We have not tested your make of re-ceiver, but believe it to be quite suitable for DX-ing.—Ed.]

### Stations Identified

DX9A (Auckland).—American heard 1½ deg. above 7ZL is KTAB. Oakland), not KGAB. At times he is the last American to close down in the evening.—"Notnats" (Dunedin).

"Nothats" (Dunedin).

"DETECTOR" (Block House Bay).—
Station slightly above 7ZL is
KMTR, the official broadcasting station
of the Los Angeles "Evening Herald."
The studios are situated in Hollywood.
Write them and you will receive a very
nice letter and an autographed "Ekko"
stamp. "Fellow" (Auckland).—Your
two stations are undoubtedly Japanese—
one on 65 is—JOHK, Sendai (it is coming
in very well just now), and the one behind 4QG is JQAK, Darien.—"DXA"
"New Plymouth).

[Your own station would be 5DN, Hume
Broadcasters, Limited, Franklin Street,
Parkside, Adelaide, broadcasting on 960
k.c. (312 m.). Power 900 watts.—Ed.]

SMART SET" (Timaru).—If you mean BHART SET" (Timaru).—If you mean 3UZ, then station is probably 4RK, Rockhampton. Station JOHK operates on 770 k.c. (390m.). "Novice" (Dunedin)—JOAK heterodynes 4QG practically every night from 9.30 onwards. Has any DXer heard a station giving the call 3WI, operating on 1420 k.c. (212m.)?—"DX7W" (Marton).

"EGA" (P.N.): KFOX, Long Beach, California, on 1250 kc. (240 m.), power 1 kw.—N. Jenkins (Masterton).

H. WALKER (Bluff): Station on approx. 785 kc. was one harmonic of 2YA. I picked up three of their harmonics on the same evening on frequencies as follow:—Approx. 1460, 785, and 660 kc. Other harmonics I have picked up are 1YA on approx. 645 kc., and 3LO on

# DX Club Membership

D.X. Editor, Box 1032.

Wellington.

Dear Sir,-

I am very interested in D.Xing and wish to become a member of the DX Club.

1 enclose herewith 2/6 for badge of the {brooch } type and membership card.

I would like also to subscribe to the monthly D.X. magarine, "The Radio Log," and enclose 6/6, being 12 months' ubscription, post free.

(Strike out last paragraph if not required.)

····· valves.



Name

Address

Nom de plume

(Please use block letters.)

W. E.W. (Te Mata): The station heterodyning with 1YA was 4RK, Rockhampton, a new Australian "B" class station. 1YA's frequency has now been shifted to approx. 870 kc. (345 metres), in an endeavour to avoid this. Incidentally, 4RK usually relays 4QG, Brisbane, thus explaining why you heard the latter's programmes on two frequencies.

RE foreign station on 910 kc. (330 m.), reported by several DX-ers lately. On August 1 at 4.53 p.m. an announcement was given in English to the effect that the station was situated on the west coast of Mexico. I am sure the station is using very high power, for there are times when I have had him stronger than 1YA.

—"DX31HB" (Gisborne).

'A READER" (Papakura), "Trapper" A MEADER" (Papakura), "Trapper" (Rangataua), and "Digger" (Hamilton): KZRM Manila, on 620 kc. (484 m.). "DX23A" (Cambridge): WLS, Chicago, signing off. WENR then came on with dance music. Both stations operate on 870 kc. (345 m.),—"DX1HB" (Hawke's Bay).

J. R.B. (Whangamomona): KSL Salt Lake City, Utah (265 m.), 1130 kc.—"Bob" (Wellington).

W. L.B. (Wanganui): Station heard between 6.15 and 7 p.m. on July 26 is KSTP, St. Paul, Minnesota. Fre-quency, 1460 kc. (205 m.). I heard the items mentioned and have sent for a card. —"Knight of the Ether" (Carterton).

"DX7W" (Marton): I cannot explain why, but the music you heard was 2YA's dinner session. I heard it exactly where you state, half-way between KGO and KTM. It was undoubtedly 2YA, as I heard the station again during the news

session, and there is no mistaking the announcer's voice.—M.B.S. (P.N.).

[Possibly a relay by some "B" class station.—Ed.]

# DX Topics

#### Particulars of 2ZH.

Particulars of 2ZH.

HOLLOWING are details of schedule, power, etc., of our station, 2ZH, Napier, the transmitter of which has now been completed. Tests are being carried on almost every morning, and from 10.0 a.m. to 1.0 p.m., and sometimes at night after 10.30 p.m. The opening ceremony took place on August 5. Power, 100 watts; frequency, 1260kc (238 metres). Schedule.—Monday to Saturday, inclusive, 10.0 a.m. to 1.0 p.m.; in addition, Wednesdays, 6.30 p.m. to 10.30 p.m., and Sundays 2.0 p.m. to 4.30 p.m., and 7.0 p.m. to 10.0 p.m.

The transmitter is a complete new one, built in our own workshops, the one we had in operation previous to the earthquake having been burnt during the fire.

—O. B. Hansen and Co., Ltd. (Napier).

### American Reception.

A UGUST 5 was one of the best nights A UGUST 5 was one of the best nights I have had for American reception. KGMB, KOL, KDYL and KGER after 6.30 surpassed even the powerful KFI. This may bear out the theory of "Kairu-uri" that reception is better after a cyclonic storm. Did any DX-er hear WLW giving the New Zealand programme relayed by 1YA and 3YA from WX8AL? As most people know, the latter is the short-wave station of WLW.—"DX46A" (Cambridge).

about 1400. As 2YA were on their news session you heard no call. "Treasure" (Auckland): It is not uncommon to get a foreign lecture from Australian stations, and it is quite likely yours was one from 3LO.—B.W. (Stratford).

W. E.W. (Te Mata): The station this heterodyning with 1YA was 4RK, Rockhampton, a new Australian "B" class station. 1YA's frequency has now been shifted to approx. 870 kc. (345 metres), in an endeavour to avoid this Incidentally, 4RK ususly relays 4QG, Brisbane, thus explaining why you heard the latter's programmes on two frequencies.

P.E. foreign station on 910 kc. (330 m.), Incidentally the heard at the beginning of the wel-come to Prince and Princess Takamatsu on reception (on 1040 k.c.) of the wel-come to Prince and Princess Takamatsu of Japan, relayed from Fairmont Hotel San Francisco, on May 28. He said that this programme was broadcast by the N.B.C. at the time and date mentioned, but that neither of the two stations on 1040 kc. (288 m.), RRLD and Francisco, re a report I had sent him or reception (on 1040 k.c.) of the wel-come to Prince and Princess Takamatsu of Japan, relayed from Fairmont Hotel San Francisco, on May 28. He said that this programme was broadcast by the N.B.C. at the time and date mentioned, but that neither of the two stations on 1040 kc.) of the wel-come to Prince and Princess Takamatsu of Japan, relayed from Fairmont Hotel San Francisco, on May 28. He said that this programme was broadcast by the N.B.C. at the time and date mentioned, but that neither of the two stations on 1040 kc.) (288 m.), RRLD and KTHS, were connected with the N.B.C., nor were relaying a programme. R.J.R. P.N.) mentioned the broadcast by R.J.R. P.N.) mentioned the broadcast by kR.J.R. heard the call, because the latter's programme was broadcast by kR.J.R. heard the beginning of the N.B.C. at the time and date mentioned, but that neither of the two stations on 1040 kc. (288 m.), RRLD and R.T.H.S. here are princes. I heard no call at the beginning

# Reception Table

Following is a table showing the relative strengths of Australian stations (R1—10) as received by "Joe" (Greymouth)—

| •   |   |
|-----|---|
| 2NC | 9 |
| 2FC | 8 |
| 2BL | 8 |
| 3L0 | 8 |
| SAR | 8 |
| 4QG | 8 |
| 3DB | 8 |
| 4BC | 8 |
| 2AY | 8 |
| 2MO | 7 |
| 3KZ | 7 |
| 26B | 7 |
| 2UE | 6 |
| 7ZL | 5 |
| 5CL | 4 |
| 6WF | 3 |
|     |   |

when the station closed down. Mr. Saxton, of the N.B.C., said that he had no idea of what station was relaying their programme and would like to know. Can R.J.R. or any other DX-er give any information?—"DX42W" (Oamaru).

#### DX-er's Accomplishment Doubted.

SEVERAL DX-ers doubt the achievement of NZ17W (P.N.), in logging Europe on a one-valve set. Might I suggest to NZ17W that he forward full details of his set to the "R.R." so that the "unbelievers" and others may build it and test for themselves the capabilities of his receiver.—"Knight of the Ether" (Carterton).

[Subject to our approval, we would be quite agreeable to publish details of DX17W's set.—Ed.]

# 2ZL's Frequency Changed?

STATION 2ZL on 1330 k.c. (225 m.) on August 4 came in at dial reading 12, and was heterodyning with another station. Later in the evening, however, he came in at 10, with no interference. I recently logged WGES, Chicago, on 1360 k.c. (220 m.).—H.L. (Havelock North).

## Are DX-ers Wearing Their Badges?

MY reception of 1YA's relay of the A UGUST 5 was one of the best nights

A I have had for American reception.

KGMB, KOL, KDYL and KGER after
6.30 surpassed even the powerful KFI.

This may bear out the theory of "Kairu
uri" that reception is better after a
cyclonic storm. Did any DX-er hear
WLW giving the New Zealand programme relayed by 1YA and 3YA from
WX8AL? As most people know, the
latter is the short-wave station of WLW.

"'DX46A" (Cambridge).

Did Anyone Hear This?

T RECENTLY received a letter from
the Division Engineer, N.B.C., San

# ARE YOU CERTAIN

That Set you have your eye on IS the Latest???

READ THIS:

# **MODEL 63 LYRATONE SPECIAL**

8-Valve Super Heterodyne, 3 Variable Multi-MU Valves, 1 Pentode, Pointer Type Vernier Control, Full Vision Dial, Calibrated Kilocycles and Metres.

For TONE PURITY, VOLUME,
EXTREME SELECTIVITY,
EXTRAORDINARY RANGE, (DX-ers note this point) KEN-RAD VALVES.

Matched Walnut Cabinet. Latest Refinements in Dynamic Speaker, Phono Jacks—1932 at your door to-day. Fully Guaranteed 230 Volts, 50 Cycles

THE NEATEST, BONNIEST, SUPER-HET. MIDGET THE WORLD HAS YET PRODUCED, AND ITS

FIRST FEATURE IS PERFORMANCE



N.Z. Retail Price £25

Wholesale only-

# CRAWFORD & FINLAYSON

BOX 675, WELLINGTON.

(Regular shipments commence to arrive August 12th) LYRATONE SHORT-WAVE A.C. CONVERTERS for all Models arriving,

member that your fellow members are on the look-out for you! 3BO, Bendigo, and, in fact, all the Aussies, are being well received here at present. The Japs are also coming in well. DX3T and DX6T: I have received a reply from 4BC, but have not had one from 3BA, although it is exactly 12 months since I wrote. Other Aussies who have not replied are 3BY and 4GO. I had never seen the latter reported by DX-ers. I replied are 3BY and 4GO. I had never seen the latter reported by DX-ers. I seen the latter reported by DX-ers. I caught him testing one night, and sent a good report, which failed to bring forth a reply. My latest loggings include 3BO, Bendigo; 4RK, Rockhampton; KRLD, KVOO, and KFI. The latter is good, but 4YA is inclined to stifle him at times.—"Amazon" (P.N.). [Items of special interest are held for publication in the "Radio Log," provided that such delay does not detract from

their value. Also, any correspondence specially marked "Radio Log."—Ed.]

Congratulations Acknowledged.

MR. MORLEY STAFFORD, of Pehiri, Gisborne, wishes to thank all DX-ers who congratulated him, both by letter and through the DX columns, on his recent success in winning the "Radio Record" DX Cup.

DX Notes.

RE DX2HB's statement concerning KGL, a few days ago, I received a complete, up-to-date and authentic log of 790 them. I think if he would listen again he would discover that his station on 780 k.c. (384m) is KTM, Pickwick Broadeasting Corporation, Itd., Los Augeles, and then not be taken correctly. For example, with (Wanganui) gives station on 1500 k.e. as KFGC. This should be KSTP, St. Paul and Minneapolis, Minnesota. I heard the same programme. Concerning the remarks to DX10C (Timaru). Out of seven vertifications for daylight reception of Australian stations in Teceived four in which no mention was made of time of logging. I immediately returned them with stamped and addressed envelope, explaining the position, and asked them particularly to mention daylight reception. In each case I received them back corrected. I presume DX10C has had the same trouble. I was a station of the American stations and then not be taken correctly. For example, with (Wanganui) gives station on 1500 k.e. as KFGC. This should be KSTP, St. Paul and Minneapolis, Minnesota. I heard the same programme. I received four in which no mention was made of time of logging. I immediately returned them with stamped and addressed envelope, explaining the position, and asked them particularly to mention daylight reception of Logging. I immediately returned them with stamped and addressed envelope, explaining the position, and asked them particularly to mention was made of time of logging. I immediately returned them with stamped and addressed envelope, explaining the position, and asked them particularly to mention daylight reception of australian stations. I had asked them particularly to mention daylight reception of australian stations. I an adhesive seal. I think they would appeal to overseas stations, and probably be some inducement to them to send their "Eliko" stamps. Re 3KU, Swan Hill: I had a verification from this station in April, followed by a card in June stating that the call would be changed to 3SH, Swan Hill, and that the station would be registered as "B" class. He was testing up to 2 a.m. on August 2, on 1070 k.c. (280m.), and was coming in very well. On the same morning I heard a new station, 3HB, Brighton. A new Jap. was

# DX Notepaper

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

heard at 12.30 on 2ZO's frequency, but 2CA, Canberra were testing until after he had closed, and I could not get his call. "Logan Park" (Dunedin).—I received a verification from 4LW by return mail, asking for another report. I notice 1YA has changed its frequency. It is to be hoped that the change is not permanent, for he is right on WENR, and at the time of writing (7.45 p.m.) is badly overlapping 2BL—J.P.C. (P.N.)

# Particulars of JOCK

THE following are particulars of JOCK The following are particulars of JOCK taken from a verification card dated fune 27:—Address: Jock, Central Broadcasting Station, Nagoya. Call, JOCK, Nagoya, Chuo-Hoso-Kyoku. Frequency, 810 k.c. (870 m.); power, 10 k.w. Japanest stations may be identified by hearing them closing down between 12.30 a.m. and 1.30 a.m., or perhaps later, in some cases. On July 30 I heard the following closing down, each with a clear, loud call:—

cases. On July 30 1 nearn the lower ing closing down, each with a clear, loud call:—
JOIK, below 3ZR, 12.25 a.m. N.Z.S.T.
JOHK, below 4QG, 12.26 a.m. N.Z.S.T.
JOHK, below 4QG, 12.26 a.m. N.Z.S.T.
JOAK, below 2BL, 12.29 a.m., N.Z.S.T.
JOAK, below 2BL, 12.29 a.m., N.Z.S.T.
Particulars of 1ZB, Auckland, taken from a recent verification are as follow:
Power, 32 watts. When giving call sign announcer adds slogan, "The Little Station with the Big Punch." Schedule, 7.30 p.m. to 10 p.m., Monday; 8 p.m. to 10 p.m., Wednesday. Recent loggings include 2KN, 3HB, KROW, 3BY, 3SH and 5WS. My set is a six-valve a.c. and uses three stages of s.g. Curiously enough, I find that for American reception, if the earth is placed in the aerial terminal and no aerial at all is used, stations from dial reading 55-100 come in much better. For Australian stations and for loud reception from 1-52, I use aerial and earth in the ordinary I use acrial and earth in the ordinary way. This makes the set more sensitive at the lower end of the dial.—"DX25NW" (Westport).

[Your log is among the best we have seen, excluding, of course, those sent in by the winners of the DX Competition. Why not get a few more stations verified, and enter?—Ed.]

1YA in Trouble.

RECENT loggings here include KSTP RECENT loggings here include KSTP, St. Paul, Minn., on 1460 k.c. (205 m.), and WLAC, Nashville, Tennessee, a degree lower than KSTP, and heterodyning with KGA. An August 2 KVOO, "The Voice of Oklahoma" was heard at good loudspeaker strength, It is operating on 1140 k.c. (263m.), and may be found between 4ZP and KSL. KMOX, St. Louis, has been very good here lately, from as early as 4.20 p.m. many evenings, and on until IZR comes on the air. Inotice 1YA has shifted up to 345m. (870 k.c.) to clear 4RK's transmission. Previous to this, hererodyning was bad. They are not "out of the wood" yet, however, for this evening they were heterodyning with WENR, and I can foresee trouble with JOAK. May I make a suggestion? In writing reports, I find that my "remarks" occasionally exceed the space allotted them on DX paper. Why not print sheets of writing paper, stamped with the DX badge and offer these in dozen lots, or made up in pads? What do other DXers think? "DX67" (Mokau).—I received a verification from 4EC (or rather from Oxley Radio, as it was then) in April last.—"DX15W" (Shannon).

#### More Heterodyning.

More Heterodyning.

LAST week I heard the opening ceremony of 4RK, Rockhampton, and I am sincerely hoping I shall hear the closing down ceremony this week. He interferes badly with 1YA, Auckland, the only station we can tune in here and leave all the evening with the same steady volume. (1YA's frequency is now changed.—Ed.) I consider the time has surely arrived when some sort of agreement should be made with the Australian authorities so that our main stations' wavelengths would be well clear of unwanted interfering "B" broadcasting stations. Of course, our authorities should do the same for Australia. There are far too many "B" stations with wavelengths ranging between 200 and 330 metres. My personal opinion is that half of these should be closed down. I know that that will bring strong protest from many, but my point is easy to prove. One "B" station in the four main centres and one in each of Gisborne, Napier, Palmerston North, Wanganui and New Plymouth would be more than sufficient. None at all in villages such as Elsetahuon. at all in villages such as Elietahuua. What is wrong with the waveband above 4YA? Is it haunted?—"Waikare" (Te Kauwhata).

[See article in this week's issue concerting reports on heterodyne interference.—Ed.]

### Australian Notes,

"DX33W" (Raurimu): I think that your station on 1430 k.c. (210 m.) is VK3HB, not VK3HK. I have a verification from this station and his power is given as 25 watts. Address: H. Byrne, "Surona," 21 Wolseley Grove, Brighton Beach, S5, Victoria. On oc-Byrne, "Surona," 21 Wolseley Grove, Brighton Beach, S5, Victoria. On occasional mornings several foreign stations may be heard. On August 2, between 5 and 6 a.m., a foreigner on approx. 365 k.c. (347 m.) was heard at R4 broadcasting very weird music. On the same merning I logged a new station giving call as 3RI, Melhourne. Frequency approx. 1340 k.c. (224 m.). I thought only the Americans were "early birds," but I know better now. The following particulars of 2KX, Sydney, are taken from a recent verification: Power 1.5 k.w., frequency 1070 k.c. (280 m). Closes down at 11.30 p.m. every night (N.Z. time) excepting Sundays and holidays, when they do not broadcast. A verification card was also received from 2ME, Sydney. He was heard about three weeks ago calling up several ships. Will this station be accepted for the competition?—N. Jenkins (Masterton).

[Not if his frequency is above 1500 k.c. (200 m.).—Ed.]

ON August 1, station KVOO, Oklahoma, was my best American, while on the 2nd, WENR, KNX and WFAA, and seve-ral others were all very good. The Japa were also coming in excellently that night. (Concluded on page 29.)



Your nearest Atwater Kent dealer will gladly demonstrate or write to distributors.

The Radio Record D.X. Cup has been won this year by Mr. Morley Stafford of Pehiri, Gisborne, with a record of 142 Verified distant stations, logged with an

Yet Long Distance Reception is only ONE of the outstanding merits of Atwater Kent Radio. Superb Tone, Sharp Selectivity, Reserve Power, and, above all. DEPENDARHLITY.

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Buy the Radio you can trust.

W.H. (Gisborne): I desire to employ the "Kestrel Three" especially for short-wave work. Would I gain in efficiency by using a tuning condenser of the usual short-wave type instead of the .00085?

A.: Yes, use the .0001, preferably double spaced, condensers, and do not alter the specifications given for the

What valves are most suitable?

I have a six-volt accumulator.

A.: Use six-volt valves of the special screen-grid, special detector and highgain power types.

3. In the schematic diagram I see no connections for "B—" and "C+." Where

connections for "B—" and "C+." Where do these go?

A: "A—," "B—," "C+" are connected together outside the set.

4. What are the voltages for the different "B" and "C" leads?

A: The detector voltage is, roughly, 22½ to 45 volts. The plate voltage on the power and s.g. valves is 90 to 135, and on the screen 45-67½. The "C" hattery will depend upon the valves used battery will depend upon the valves used in the last stage and the number of volts on the plate of this valve,

5. It understand that in a short-wave set it is advantageous to have the "C"

battery within the set and keep the to a choke. Please get in touch with us leads short. Can this be done in the again.
"Kestrel Three"?

A.: Yes; you could probably find room for it when you are laying out your

6. Why is the 4in, armoured cable men-

tioned in the parts list?
A.: The cable, as explained in the text, connects the s.g. valve to the coil

7. As to the screening boxes—two open sides and open top only leaves two ends and bottom—hardly a box. What position is it mounted in?

A.: It is mounted with one side screening the radio stage from the audio stages. one end of the box is against the panel and the other along the floor of the baseboard in the radio stage. Neither of your sketches is correct so far as we can see. "A" is nearly correct, but instead of the piece being at the back of the set, it divides the compartments.

A.J.S. (Oamaru): In writing with reference to queries asked previously in the column it is not a bad plan to include the query to which reference is made. In your case, although we have gone to some trouble to look up your previous query, we can find no reference

INTERESTED (Southland): I have an eight-valve set being only 80 yards from a 66,000-volt power-line; am troubled with crackling noises. What do you advise?

A.: Communicate with the radio inspector in your district and state your spector in your district and state your case. It is possible that something may be done to alleviate the trouble caused by the power lines. Failing this, get your aerial as high as possible. If it is practicable, get it up another 20 feet with a very short top, and insulate your leadin by using armoured cable and earth the armouring. See that your line runs at right-angles to the power-line. Change your earth and do not confuse it with the earth on the electric light or your water mains. Keep a separate earth altogether for radio work.

MECHANIC (Wellington): would be the specifications for a radio frequency tuning coil 12in, diameter tuned with a .00035 condenser with for a a closely-coupled primary of 800,000 im-

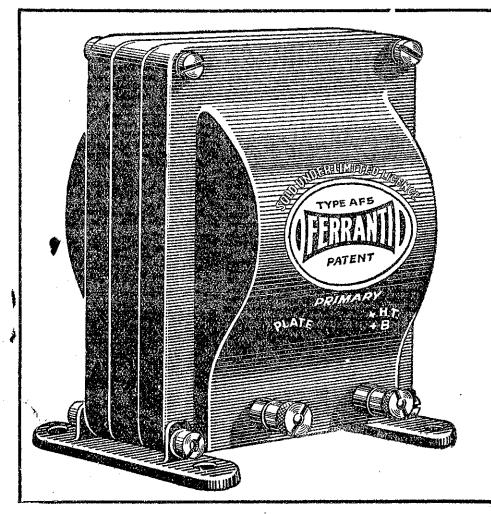
for the primary, use 40 turns of No. 38 d.s.c. or enamelled wire. That should be about right. If you are troubled with oscillation, remove some of the turns because, although it is easy enough to feed into an optimum impedance, the transfer of energy may be too high to maintain stability, and you will have so lessen the coupling.

D. (Bay of Plenty): I have a nine-valve all-electric set, and can get very little volume. I have it turned up until the oscillation point is reached, but the change in volume is hardly noticeable. Would the valves be at the bottom of the trouble? My other two sets bring in the American stations by the dozen.

the American stations by the dozen. Should the speaker be adjusted?
A.: Quite possibly your condensers are out of alignment. Decreased sensitivity may result from almost any defect in the set, so it is very difficult to tell you where to look for it, especially as you are operating a commercial set. However, we very much suspect the condensers, or one of the valves.

H. L. (Nelson): I use a 2-amp, charges 13m, amps, to my set, How much will & pedance?

A.: We suggest that on the secondary on use 87 turns of 26 s.w.g. wire, while, cost me to operate both of these?



# The TRANSFORMER **SUPERLATIVE MERIT**

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A.: Your charger can be operated approximately 500 hours for one unit, while the eliminator will use slightly more electricity running 400 hours on one unit.

FBERG PATE (Morrinsville): Do you consider four 221, and one 171 a good combination for a five-valve American

A.: Yes; instead of the 171 you could use one of the high gain power valves of the B605 type.

2. What are the optimum grid-bias voltages to work on the power valve with 180 volts on the plate?

A.: The 171 requires 42 volts gridbias, B605 18 volts.

3. Which is the more suitable valve for

the last stage, the 171A or the 112?
A.: In your case the 112. We cer-

tainly recommend the use of the 221 instead of the 201A's.

J. G. (Invercargill): I propose building the "Sparrow Hawk" one described in the 1931 "Guide." Would Browning Drake coils be suitable with a .0005 condenser ?

A.: Yes. You could use the Browning Drake coil, but it would not altogether be the Sparrow Hawk One, would it?

WIRELESS (Wanganui): Could you tell me the number of turns for coils for a one-valve broadcast set? The wire used is 26 d.s.c. for all coils tuned with a .0005 condenser.

A.: Questions such as this have been assured reneatedly in the "R.R." Inanswered repeatedly in the "R.R." Information was given in the "Radio Guide" for the secondaries of all coils, and you could look this up. You will find that you need 85 turns on the secondary, 20-25 on the primary, and 25 on the tickler.

N. Z.D.X. (Auckland): What is the simplest means of tone control?

A.: A variable resistance of 50,000

ohms in series with a .002 fixed condenser between the grid of the second audio and earth.

2. What is the right value of a variable

resistance acting between the aerial and the earth

e earth in the volume control?

A.: 100,000 ohms will be quite satis-

factory.

MOI WHARE (Feilding): Could I obtain the parts for the "Outspan Five" cheaply by buying up an old set and using the parts from that?

A.: There is no reason why you should

not do this, though there would be a big

waste. Just check it over and see how many parts you can use. You will find that the tuning condensers will be all right, so should the valve sockets and transformers, and you may be able to find an efficient r.f. choke.

2. Would the "Outspan" using push-

pull in the last stage give me better re-

sults than a certain commercial set?
A.: We are inclined to think the "Outspan" would be the better set, as not only is it a more modern circuit, but it uses screen-grid valves.

H. E.I. (Rotorua): My speaker is excellent, but should I derive any advantage by using one of the newer types?

A.: One of the newer types will give good results, especially as you have a modern set. We think one of the 66R type speaker would be much better than the one you are using. However, if you like your speaker, do not change. An inductor dynamic speaker would be even better than the 66R.

2. My set calls for 40 volts bias and it uses two 171 valves. I use their equiva-lent in other makes, but found this combination quite unsatisfactory. Two 201A valves with 9 volts bias were much

better.

A.: You will get greater strength by using two 201A in pushpull than two 71's, and it is possible that the improvement of tone by using the 71's will not be apparent when you are using a speaker such as yours. For this type use a P605 valve. These should be biased by from 12 to 15 volts, depending upon your (1233) voltage. This, by the way, may be at the base of your trouble with the 71's. If you are not using 6 "B" batteries the 40 volts bias is far too much. With three batteries it should be reduced to about 20 volts. For ordinary operation of course, you could use 45 volts by the double biassing. A really quite satisfactory scheme.

3. With the set came two pairs of coils for short-wave, but I have had no success with either the power valve or the 201A.

A.: The last valve could have no effect upon the operation of the short-wave coils. Try varying the detector voltage and the grid leak and if these do not bring about any improvement, communicate with the agents who sold you the set.

4. The set seems extravagant on current, both "A" and "B." Would an al-Would an alteration to other than 9 volts improve this? The set uses 140 v. "B."

A.: We do not quite get the strength

of "the alteration to other than 9 v." The best valve to use in the set would be the 221 type of valve instead of the 201A. They are very much lighter on current. we recommend your double biassing the last stage valve, that is use say two B 605's and 40 volts grid bias. This should make your set much more econom

With regard to interference from electric noises, machinery, etc., I understand that owners can be compelled to in-

stal some inexpensive gadgets to neutrolise this. What steps can be teken?

A.: It can certainly be neutralised quite easily by the use of h.f. chokes and by-pass condensers. The District Radio Inspector if called upon by you, will endeavour to assist in locating the specific cause of interference, and when this has been discovered will communicate with the owner of such apparatus. Intimating that the general laws governing the use of electric power necessitate the installation of such apparatus as will neutralise the trouble. It is really a moral rather than a settled law.

"PIAKO." (Hauriki Plains): Your anestions in respect of the "Diag-nosis Series" are very interesting and raise some fundamental points. We think the better plan would be to discuss them in the "Diagnosis" column. However, we can answer your number 3 question here, that is concerning the text-book that goes into theory in an elementary manner and is not expensive. This book undoubt-edly, is "Wireless, the Modern Magic edly, is "Wireless, the Modern Magic Carpet," and if you are at all interested

in the whys and wherefores, you should not be without a copy.

A.T. (Kaponga): I have constructed
• the Beverage aerial with very poor
ults. I would like to get into touch results. with anyone who has constructed such an aerial. Will they please communicate with V. A. Tait, Kaponga, Taranaki.

"DIGGER" (Hamilton): We are very pleased to note the good results you are getting now that you refer to our radio time-table. We hope you continue-to get good results. Now, about the selectivity problem, we think a wave-trap would not have the desired result. wave-trap will cut out one station, cannot be made to improve all stations. The best plan is to use a .0003 condenser in the aerial. That would slightly weaken the stations, but will certainly sharpen Thanks for your concluding selectivity. remark, but forget about it; but we do appreciate your sentiment very much.

"PENTODE" (Orunake): I have constructed with success, the "Night Hawk" receiver. Could a pentode be

used to increase volume?

A.: Yes, you could use a pentode, but it would be preferable to make an output transformer or an output choke, such as that described by Mr. Dawson in his series of articles a few months back. Only by so doing would you get really improved

CONCRETE" (Auckland) : Recently my a.c. set has developed an intermittent distortion on both music and speech. It is particularly noticeable on the upper notes.

A .: Your trouble should really be located by a serviceman, as with an a.c. set it is very difficult to tell you what to do. We suspect a bins resistance, or a punctured condenser on the audio side. When you had your valves tested, was the rectifier O.K.?

"PADDY" (Christchurch): Is it possible to have a stage of s.g.r.f. followed by a three electrode stage of r.f.? Could I obtain a circuit?

A: We cannot call to mind a circuit except the "Outspan Five." For the ordinary r.f. stage you could refer to the four valve Browning Drake.

2. Could you give me the connections for an eight-point switch to be used for a

gramophone pick-up?

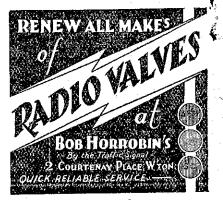
A.: If you send us a more complete description of your set, we will sketch out the connections for you. We could not, the connections for you. We could not, however, undertake to do it through the "R.R." It would have to be done through the post, subject of course, to the condi-

tions imposed upon replies by post.

3. Would a 112A in the first audio stage and a 171A in the last stage be suitable for amplifying a gramophone pick-up?

A.: No. You do not need a 112A in the first audio stage. Use a 221,

CURIOS (Te Aroha): Is there may way of cutting out overlapping of rations? Would the wave-trap described in the "Radio Guide" be suitable? (Concluded on page 30.)



# 

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"How Radio Receivers Work," by Roberts 8/-.

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

"Wireless: The Magic Carpet," 5/-. (Technical Editor "Radio Record" says no set owner should be without it.)

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

"Practical Radio Repairing Hints," by Rider, 18/- (Don't miss it.)

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

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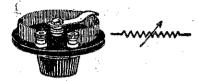
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# Diagnosis of Radio

## Resistances

WE all know that the word "resistance," whether applied to radio or not, means that something is hindering something else. We know, too, that where E is the emf. or voltage dissi-If we connect certain wires and radio pated, and I is the current passed. components with a battery, or with some source of current, that current will flow through those wires. If we introduce something that will hinder

## RHEOSTAT



the passage of that current, we are inamount of current that will flow. Now work to do than it is designed for. we know that if a water pipe is dirty, we know that it a water pipe is dirty, or blocked, i.e., if there is a resistance to the flow of water, not only will less water pass, but it will have less pressure, some of this latter quantity being absorbed in the resistance itself.

Now that is exactly what happens in the radio circuit.

The resistance causes not only a decrease in the number of amperes which term indicates the amount of current flowing, but also causes a certain drop in voltage, which measures the pressure.

Everything through which current flows has some resistance, but ordinary wire and certain components have

# POTENTIOMETER



very low resistance, and we can disre-gard their effect. Other components detector circuit. have a high resistance.

There is another class of resistance w. ch we are going to consider now, and that is the special ones. These, as the name implies, are devices used purposely to break down the voltage and limit the flow of current in certain parts of a circuit. We divide these into two main classes, fixed resistances and variable resistances.

The fixed resistance can be rated at a certain value, whereas the value of the variable resistance can be changed within certain imits. A resistance is rated in ohms, and the number of ohms in any resistance is given by the amount of current flowing through ir, divided into the voltage that the resistance does away with, or to use a more technical term, the voltage that the

resistance dissipates. If a resistance, passing one ampere of current breaks down the voltage by one volt, its resistance would be one ohm. In other words, R = E + I, (By the Technical Editor)

(Continued from previous issues.)

If we have a resistance of a certain number of ohms and pass through it small current, the voltage dropped will be correspondingly small, but if we pass a greater amount of current through it there will be a greater drop in voltage.

Now this brings us to an important point. The material of which a resistance is composed carries only a certain amount of current, and if we attempt to pass more current through it than it is designed for, it will become hot and will probably burn out. For this reason every resistance is not only rated in ohms, but also in carrying capacity, and it is important to see troducing a resistance and limiting the that each resistance is not given more

> Fixed resistances are used in the power pack to break down the voltage for the different uses it has to be put to; in a resistance capacity coupled amplifier: as a grid leak in order to bring about detection; as a grid bias register to develop a difference in potential (voltage), to bring about bias; and in the filament supply, to keep this at the proper level.

> Variable resistances are generally of two classes, the rheostat and the po-tentiometer. The rheostat has only two terminals, the one attached to the moving arm, and one end of the resistance itself, but we can vary the distance between the movable arm and the fixed terminal, and so put in any desired amount of resistance.

A potentiometer (that name, is really incorrect) has three terminals, one at each end of the fixed resistance, and the third is the variable tap. This can life upon the dependbe settled at any point between the It is arranged so that there is a constant number of ohms between the Valves. two outside terminals. The potentio-meter is used across filament supply, mighty laboratories so that the "B" current can be brought of Philips they have into the centre tap: as volume control; and to provide a variable return in the

# **Switches**

SWITCH is a very simple piece of radio apparatus, its function being to make and break a circuit.

A switch may be one of several types.

ITCHES

(1) Single pole, single throw. This is a switch which can be operated in one way only, that is, it can either be

on or off.

(2) Single pole, double throw, in other words, a two-way switch, the set with the moving arm can make contact with either one of two points. Gramophone and radio switches are usually of this type.

(3) Double pole single throw. switch contacts two sets of points at one time without connecting the set together.

(4) Double-throw double pole. In one way it connects two sets of two points and when thrown over the other way

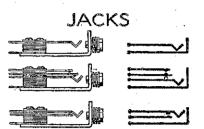
contacts another two points.

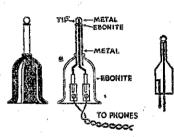
(5) The multiple stud switch in which a moving arm contacts any one of several different points. These switches were very much used in the early days of radio, but are now not in a bent spring arranged at a convenient general use.

# Jacks and Plugs

making contact with any circuit.

A jack, as can be seen from the illustration, is only a piece of metal bent at right angles, called the body, with

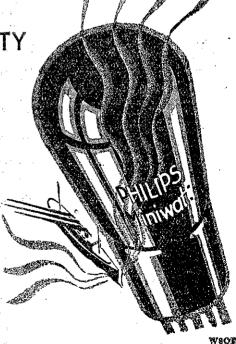




distance from the body, and in such a way that it will not contact it. A plug which provides a means of bringing any outside piece of apparatus in con-JACK provides an easy way of cylinder fitted inside a hollow ebenite (Concluded on page 30.)

# DEPENDABILITY

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# Simple Short - Wave Superheterodyne

By "Cathode"



the release licensees of the Radio Corporation of America of the patents involved in the superheterodyne principle of reception, there has taken place a most remarkable revival of interest in this type

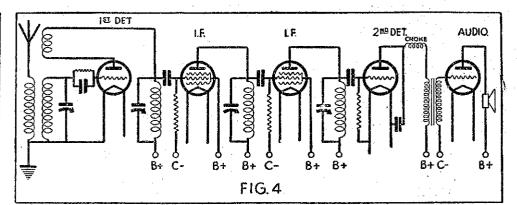
of receiver. Those manufacturers who had previously had some experience with superheterodynes and who could consequently enter on their production with a minimum of delay have found themselves in the fortunate position of being able to cope with the sudden de-

Some manufacturers, indeed, are concentrating upon superheterodyne receivers to the exclusion of the very fine t.r.f. receivers, with which they built their reputation. Many authorities consider that except for small low-priced receivers, the doom of the t.r.f. is sealed. We must admit that we would hardly like to go so far as this our-

We intend to describe in these pages the design and construction of superheterodyne receivers of widely different type.

The first, intended for short-wave reception, is battery-operated, and is an example of the simplest possible type of superhet, receiver.

80 90 100 110 120 Kd FREQUENCY FIG. 1.



er, yet without introducing high-note loss.

amplifier, giving an order of selectivity far greater than any commercial receiv-

A radio-frequency stage is used ahead of the screen-grid first detector so as to permit of an outdoor aerial being used if desired, although the available amplification of over ten million times makes it unnecessary to use anything but a small indoor

In short, it is a receiver whose owner The second receiver to be described is could confidently place it alongside any of a much more elaborate type. It is set commercially available in New Zea-entirely a.c. operated, provision being land, secure in the knowledge that it made for the excitation of a dynamic will more than favourably compare speaker field. Three band-pass filters with any opponent. One last word—it are incorporated in the intermediate works splendidly on short-wave.

### Features of the Superhet.

BEFORE dealing with the details of the design and construction of the simpler superhet, a few notes on the unique features of this type of receiver will render it easier to understand why manufacturers have pounced upon it immediately the patents became available.

Briefly, the essential feature distinguishing a superheterodyne is the conversion of the incoming signal frequency to one of lower frequency, but carrying the original modulation. This lower frequency is then amplified and detected just as if it were an incoming long-wave signal.

Practically all superhets, employ substantially the same means of changing the frequency. In addition to the incoming signal frequency, an oscillating valve is employed to generate oscilla-tions of a frequency differing somewhat from that being received. The two frequencies are then applied to the grid of the first detector valve.

It can be shown mathematically that, as a result of the beating of the two frequencies, the input to the first detector is the sum of the two applied frequencies, but modulated at a frequency of half their difference. The effect of the first detector, of course, is to convert the modulation into a new wave form of twice the modulation frequency, just as an ordinary detector valve does in the case of modulation at audio frequencies.

In the output of the first detector, then, there is present, among other things, a frequency equal to the difference between the incoming and generated oscillations, and this new frequency carries the original modulation transmitted by the broadcasting sta-

It may, therefore, as previously explained, be amplified, detected, and made to operate a loudspeaker just like any other signal.

At first sight it may appear that we have gone to a lot of trouble without accomplishing very much. In the output of the first detector we still have

except that they are of lower frequency. But how much easier to handle is this lower frequency. Whereas amplification of the incoming frequency would be fraught with difficulties, the lower (but still super-audible) frequency can. be amplified with the greatest ease.

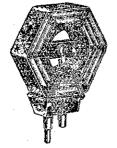
Moreover, since by adjusting the frequency of the local oscillator we can \* vary the "lower" frequency (or, as we will now call it, the "intermediate frequency") to what we will, we can tune the amplifier once and for all and make the frequency suit the amplifier instead of vice-versa. Thus the necessity for constantly adjusting the several tuning condensers of a multi-stage amplifier is gone. The intermediate tuning is fixed, the tuning of the local oscillator being varied instead.

#### Selectivity Problems Vanish.

LASTLY, the superheterodyne has the inherent advantage of outstanding selectivity. This is due to the fact that a difference of frequency appears unchanged after the first detector, and is a larger percentage of the small intermediate frequency than of the large original frequency; and selectivity depends on percentage differences.

Thus, take a 300-metre signal mollated at 1000 cycles. Because of side bands, this acts as if it were a mixture of three currents, at 999 kilocycles, 1000 kilocycles, and 1001 kilocycles respectively. If we set to beat with it a current of 900 kilocycles we shall have in the output (among others) currents of 99 kilocycles, 100 kilocycles, and 101 kilocycles. Thus the modulation is preserved unchanged.

Now, suppose an interfering station on 297 metres (1010kc.) This is 1 per. cent away from the first, and is hard to tune out. Our beating current of 900 kilocycles will set up in the detector output a current of 110 kilocycles, which is not 1 per cent. off but 10 per cent. off that which we are trying to get. In fact, the separation (in percentage) of the two stations is modulated high-frequency oscillations multiplied by the ratio of the interjust like those collected from our aerial mediate to the incoming frequency.



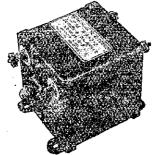
# Can You Procure the Coils You Need?

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The action of the supersonic principle itself, then, is to multiply the separation between stations. To take advantage of this, we must still have a selective intermediate amplifier. But if it is too selective, it will cut the higher notes which form the extreme edges of the band of wanted signals. Thus, taking the case mentioned above -300 metres—but modulated at 5000 frequency and "converted" to 100 kilocycles by the first detector, we find that the amplifier should have the same overall performance for all frequencies between 95 kilocycles and 105 kilocycles, but should not work outside these limits. We want a resonance curve like Fig. 1.

Actually, such a curve can be approximated only. Later, in connection with the more advanced design to be presented, the matter of obtaining the required selectivity without cutting side-bands will be considered in some

getting near the limit.

The second detector and audio system operate precisely as in a more normal receiver-except, perhaps, that the input to the second detector is larger.

### Designing the Shortwave Super.

N entering upon the process of design of the first and simpler set, every effort was made to make its circuit and construction free from elaboration and expense. It was realised that many constructors would at once see the advisability of experimenting with this receiver before embarking on the construction of its more elaborate

A large part of the apparatus used may be rescued from the junk-box, or from firms which specialise in cheap second-hand and disposal parts.

As the receiver is intended primarily for shortwave reception, it was con-

quencies. Practically 30 kilocycles is of regeneration is provided, the re- to the rig. If it is desired to receive action coil being arranged so as to cause the valve to oscillate steadily at all settings of the tuning condenser.

> It will probably occur to readers possessing shortwave receivers of the regenerative type, without our pointing it out, that they can quite well use the detector portion of their existing receivers for their experiments with supersonic reception, and thus save the necessity for building up this part of the apparatus specially.

## Intermediate Amplifier.

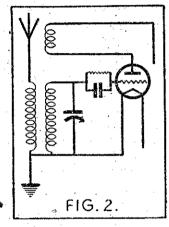
THE next part of the receiver to be considered is the intermediate amplifier. Again with simplicity as our object, we suggest tuned plate coupling, using straightforward single coils of 20 to 40 turns tuned with semivariable condensers of the "Formodenser" type.

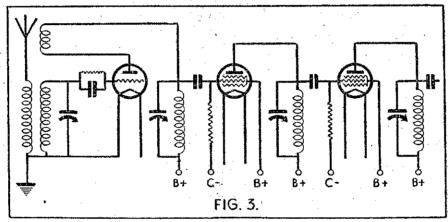
A two-stage amplifier will be ample,

Morse it will be necessary to provide reaction on the second detector so that it may be made to oscillate. Normally, however, this would not be done and the complete circuit diagram would be similar to that shown in skeleton form in fig. 4.

The choke and by-pass condenser in the plate circuit of the second detector are very necessary to prevent I.F. from feeding into the audio amplifier, where it would probably be amplified and cause instability. The choke must be a radio-frequency one of very high inductance (i.e., having a great number of turns), and if a choke of this type is not available one may be improvised by winding 1500 or 2000 turns of very fine wire on a slotted former of the type previously described in this journal.

The detailed specifications and layout of this receiver will be given in the next article.





# Conflicting Requirements.

AS to the actual frequency to be chosen for the intermediate amplifier, there are conflicting requirements which lead to a compromise. In order to obtain maximum selectivity, the frequency should be low; but this is not very important for the total selectivity is limited, as just pointed out; the limit can easily be reached with quite a high intermediate frequency.

The frequency should, however, be considerably lower than the lowest frequency to be received. On the other hand, if the frequency is too low, there are increasing difficulties due to the I.F. being too near the modulation fre-

sidered permissible to dispense with a separate oscillator valve and make the first detector perform this service. The objection to this practice on broadcast wavelengths is that the tuned circuit controlling the frequency of the local oscillations is too far off tune so far as the incoming signals are concerned. If a low intermediate frequency is chosen, however, the tuned circuit need only be a comparatively small percentage off tune for the very high frequencies being received. The gain in simplicity is considerable.

So far, then, we have the circuit shown in fig. 2. This is obviously identical with an ordinary shortwave receiving circuit except that no control

preferably using screen-grid valves; ordinary three-electrode valves may be used, however, if they are stabilised by series grid resistances. So far. then, we have something like fig. 3.

#### The Second Detector.

# Trade Jottings

# New Lyratone

MESSES. CRAWFORD AND FIND LAYSON announce that they are importing a new line of Lyratone A.C. Receivers.

The new set, which is of approximately the same dimensions as the former model, employs the super-heterodyne circuit, combining screen-grid, multimu and pentode valves. There are nine tuned circuits for selectivity, and, with the variable-mu and pentode combination, a far greater undistorted output is possible.

The set is equipped with tone and volume controls, full vision dial calibrated in metres and kilocycles and gramophone attachment.

The Second Detector.

It is anticipated that the "Radio Record" will have a full test report on tector and a single audio amplifier this little set in the very near future.

# "The Kestrel Three

RAY-O-VAC 2-VOLT VALVES are especially suitable for the "Kestral Three"-and they are economical on batteries.

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# FEATURE PEEPS

... at ...

# FUTURE PROGRAMMES

# **SUNDAY**

#### From 1YA

THE afternoon programme will include a short relay from the Town Hall, where an organ recital is to be given by Mr. Maughan Barnett. The service in Pitt Street Methodist Church, conducted by the Rev. W. Walker, will be broadcast in the evening. Professor W. A. Moore will be the organist and choirmaster. The after-church studio concert will be contributed to by well known 1YA artists.

# Items from Wellington

THE evening service to be conducted in St. Andrew's Presbyterian Church will be relayed, the preacher being the Rev. R. J. Howie, B.A., and the organist and choirmaster Mr. Frank Thomas. At 8.15 p.m. a concert by the Royal Naval Volunteer Reserve Band, under the conductorship of Mr. Harry Baker, will be relayed from the De Luxe Theatre.

# Notes from 3YA

THE Children's Song Service and the evening's church broadcast will be conducted on relay from the Baring Square Methodist Church, Ashburton. The preacher will be the Rev. G. B. Hinton, the choir conductor Mr. H. A. Humphreys, and the organist Mr. John Corbett. In the interlude between the song service and the church service, an organ recital will be given by Mr. Corbett. At 8.15 p.m. a concert to be given in His Majesty's Theatre, Ashburton, by the Ashburton Silver Band, will be relayed to 3YA, and also to 4YA.

# **Dunedin Topics**

THE service in Moray Place Congregational Church will be broadcast, the Rev. Albert Mead being the preacher and Mr. A. Walmsley choirmaster.

# MONDAY

# Selections from Wellington

THE 2YA "Musical Portrait" series will be continued by Lucien Cesaroni, who is well known in Italy, Australia, and New Zea-and, as an exponent of the works of Mozart. He will present, with his operatic company, humorous excerpts from Mozart's operas "Il Seraglio," "Figaro," "The Magic Flute," and "Don Juan."

Gordon Short will play part of Mozart's "Fantasia" and a selection from his "Concerto in D Minor," while the orchestrina, under Signor A. P. Truda, will also play selections from Mozart's works, including one of his charming minuets.

## 3YA Items

THE New Brighton Municipal Band, under Mr. J. A. Nuttall, will provide a programme of diverse items. Assisting vocalists will include W. Bradshaw (who won numerous prizes at the recent Christchurch Competitions), and Mrs. Robert Sherris (mezzo-soprano), who is making her first appearance in radio. The Christchurch Broadcasting Trio will be heard in selections, and accompany Mr. Bradshaw in his solos.

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# The Programme from Dunedin

AN international programme will be presented, the lecturer being Mr. A. J. Woods, M.A., Lecturer in History at Dunedin Training College. He will speak on "Some Historic Aspects of Internationalism."

# **TUESDAY**

# Notes from Auckland

THE lecturer for 1YA International Programme will be Mr. Tom Blood-



REX HARRISON, a popular broadcasting artist, who was heard from 2YA Thursday last.

worth, who will speak on "The Work of the International Labour Office."

# Wellington Selections

STUDIO concert of the popular type will be broadcast, the vocal portion of which will be provided by the Lyric Quartet, singing a number of favorite quartets and solos. The Salon Orchestra, under Mat. Dixon, will supply the instrumental programme, and will accompany the playing of the violin solo "Chanson Meditation," by W. Haydock.

# **Featurettes**

Musical Portrait Series 2YA, Monday.

Orphans' Club Orchestra 1YA, Wednesday.

Royal Auckland Choir 1YA, Thursday.

Christchurch Salon Orchestra 3YA, Saturday.

Musical Societies' Concert 4YA, Saturday.

## Topics from 4YA

THE final of the series of W.E.A. talks on "The Trend of Events in the Next Century" will be given by Mr. G. McCracken.

A concert by the St. Kilda Band, under Mr. James Dixon, assisted by vocal artists, will be broadcast in the concert session. Two humorous cockney sketches will be acted by the Winkel-Lampen Radio Players.

# WEDNESDAY

#### Notes from Auckland

THE Auckland Orphans' Club Orchestra, under Harold Baxter, will provide a studio concert. With baritone solos by Stan Pritchard, humour from Tom Harris and a number of specially selected recordings, a very attractive programme can be expected.

## 2YA Items

Dr. Guy Scholefield will be the speaker for the international programme.

## Items from Christchurch

THE Melodious Quartet and Madame Gower Burns (soprano) will provide the vocal portion of the musical programme, which will be of an operatic-classical nature. Pianoforte solos will be contributed by Aileen Warren and a 'cello solo by Harold Beck, The Studio Octet will present an attractive orchestral programme. During the evening Mr. Te Ari 'Pitama give a talk on "The South Island Maori."

# THURSDAY

## Meals on a Tray

THE afternoon home science talk, prepared by the Home Science Extension Department of Otago University, for 1YA, 2YA and 3YA, will be about "Meals on a Tray."

### Topics from 1YA

UNDER the auspices of the New Zealand Manufacturers' Association there will be a talk on "Household Recuisites—Hardware."

At 8 o'clock the station will relay from the Town Hall the second of the 1931 season's concerts to be given by the Royal Auckland Choir under the conductorship of Dr. W. E. Thomas,

# Wellington Notes

THE major portion of the vocal items will be given by the Waiata Quartet. These ladies are proving very popular radio artists and will be heard in quartets, trios, duets and solos. Outstanding numbers will be "Time's Garden," sung by Mrs. P. Ramsay, with 'cello obbligato, a vocal trio with orchestral accompaniment, "Bird Songs at Eventide," and a quartet with orchestral accompaniment, "Sleep, Gentle Lady." The incidental music will be supplied by the Salon Orchestra, under Mr. M. T. Dixon.

# 3YA Topics

THE lecturer for the International Programme will be Mr. Wm. Machin, general manager for the New Zealand Farmers' Co-operative Association. He will speak on "International Indebtedness."

# **FRIDAY**

## **Auckland Features**

"MAORI BIRD LORE" will be the subject of a talk to be given by Mr. George Graham, under the auspices of the N.Z. Native Bird Protection Society.

Mrs. L. M. Keven (contralto) and Morris T. Schroeder (baritone) will be the vocalists on IYA's concert programme. Their items will include many favourite numbers, such as "A Summer Night," "My Rose," "The Toby Jug," and "A Perfect Day." The Asquiths will contribute one of their popular twenty-minute drawing-room entertainments. Mr. R. A. McMilne and his accordion will provide a col-

lection of jigs and hornpipes. The Orchestral Octet will contribute a popular instrumental programme.

### Notes from 2YA

THE programme includes a variety of items that should prove entertaining to all listeners. Mr. S. Evelyn Rodger (baritone) will be heard in "The Link Divine" and "Mate o' Mine" (both with violin obbligato), and "The Garden of Allah." Mrs. H. G. Reeves and her banjo band will again delight listeners in a series of numbers, the march "Let Her Go," "Irish Medley," "Popular Choruses," and the selection "Mexican Ride." Miss Gladys Barton (mezzo-soprano), well known to 1YA listeners, will be heard in the songs "Ring Bells, Ring," "Prelude," and "Songs My Mother Sang." The Orchestrina, under Signor A. P. Truda, will supply the incidental music.

#### Selections from 3YA

CONTRALTO and tenor solos (with orchestral accompaniment), piano novelties, entertainers at the piano, orchestral selections, a lecture, and a gramophone lecture-recital will be included in to-night's programme. The Two Rascals will provide the vaude-ville turn, and Mr. E. Iveagh Lord will continue his series of talks on "The Story of the Golden Coast," while Karl Atkinson's lecture-recital will be on "The Midas of Melody."

### Items from 4YA

ARTHUR GORDON'S Orchestra, specialising in popular melodies, will contribute to to-night's programme. A vaudeville turn, in song, patter and dance, will be contributed by The Radiettes.

# **SATURDAY**

### Items from Auckland

FROM the Town Hall a concert to be given by the Municipal Band, under Geo. Buckley, will be relayed.

# Wellington Programme

AT 7.40 p.m. there will be a W.E.A. lecturette by Mr. R. J. Waghorn, M.A., Lecturer, Teachers' Training College, entitled "The Origin of the Solar System."

Amy Dunn (soprano) and Claude Moss (baritone) will be the vocalists on the week-end programme. Mr. Moss will be heard in three songs with orchestral accompaniment: "Boat Song" (by Ware), "A Brown Bird Singing," and "In a Monastery Garden." The Harmony Four, novelty instrumental quartet, will present a budget of up-to-date melodies. Will Yates will give ten minutes of his inimitable humour. Mr. Yates writes all his own material, and on this occasion has chosen for his subject "Radio Good Nights." Mr. Owen Pritchard will be heard in Lauder humour, "That's the reason noo I wear a Kilt." The Salon Orchestra, under Mr. M. T. Dixon, will play the "Student Prince," "Tina," a selection of old-time songs, "In Olden Days," an Hawaiian medley, "Sunset Land," and the latest dance novelties. Mr. W. Haydock will play "Violin Song" (by Rubens).

### Notes from 3YA

A TALK under the auspices of the N.Z. Native Bird Protection Society will be broadcast from 3YA.

The Christchurch Salon Orchestra, under Francis Bate, will make its second appearance this evening, when, in addition to accompanying the



MR. MORLEY STAFFORD, winner of the recent DX competition and president of the DX Club. —Photo, Millard.

vocalists, it will broadcast a popular programme which will include "Pas de Fleurs," "Liebesfreud," "The New Sullivan Selection," "Londonderry Air," and "Ponpee Valsante,"

The orchestra will also provide accompaniments for three cornet solos by Mr. N. G. Goffin. The programme will include a twenty-minutes' sketch acted by The Mascots.

# Items from Dunedin

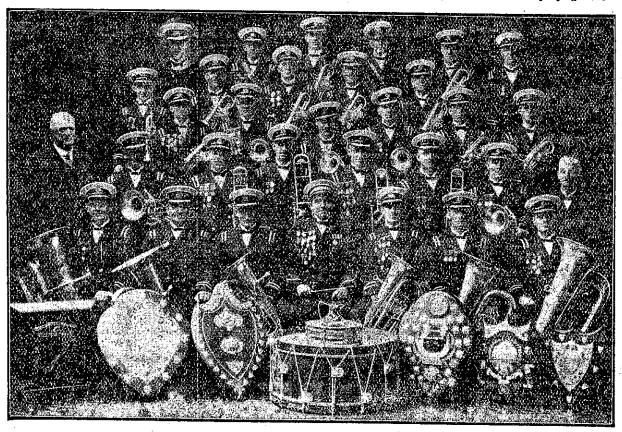
A TALK under the auspices of the N.Z. Native Bird Protection Society will be broadcast from 4YA.

A concert to which all the musical societies of Dunedin will contribute will be given in the Dunedin Town Hall and will be relayed by 4YA and 3YA. The concert is to be tendered as a compliment to Chas. A. Martin, Mus. Bac., who is shortily leaving Dunedin for the purpose of going abroad to further his musical studies.

# Valves for Automobile Receivers

A UTOMOBILE receivers in America are becoming extremely popular, and the result has been the development of a new series of valves designed specially for these. Typical of these are the 236, a screen grid radio frequency amplifying valves, the 237 and the 238, a general purpose and a power amplifying pentode respectively. These valves have a filament voltage of 6.3 and draw about 3 amps. They are designed to operate from the car "A" battery. They are recommended to work upon 135 volts "B" and rely for their current on dry batteries. These can be fairly heavy owing to the availability of ample space.

In addition there is a new 233 pentode valve for battery-operated receivers. This valve operates on 2 volts with a filament current of 0.26 amps. and 135 volts plate. This is one of the family of 230 valves which was introduced a short time back. The 230, it will be remembered, is a general purpose valve, the 231 a screen grid valve, the 232 a power valve, and now we have the 33, a two-volt pentode.



THE ST. KILDA BAND.

A combination who, under the conductorship of Mr. James Dixon, broadcast regularly from 4YA.

# Full Programmes for Next

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# Sunday, August 16

# 1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, AUGUST 16.

8.0 : Chimes. Selected recordings and relay of portion of Organ Recital from the Town Hall by the City Organist, Mr. Maughan Barnett.

6.0: Children's song service, conducted by Uncle Leo.
7.0: Relay of Divine Service from the Pitt Street Methodist Church.
Preacher, Rev. W. Walker; Organist and Choirmaster, Professor W. A. Moor.

(approx.): Overture—Berlin State Opera Orchestra, "Academic Festival" (Brahms) (Parlo. A4210).

Mezzo-soprano-Miss Gladys Barton, "Goin' Home" (Dvorak).

Vocal duet-Misses Gladys Barton and Alys Moncur, "Still as the Night" (Bohm).

Suite—Orchestral Octet, (a) "March," (b) "Scena." (c) "Mazurka." Baritone—Mr. Wilfred Manning, (a) "Thou'rt Passing Hence" (Sullivan), (b) "My Ideal" (Tosti).

Evening weather forecast and announcements. Reverie—The Orchestral Octet, "Sunset" (Hiller); orchestral, "A Tone Picture" (Hass).

Contralto—Miss Alys Moncur, "O Thou That Tellest Good Tidings to Zion" (from "Messiah"—Handel).

Lute—Professor R. Calace, (a) "Canto Nostalgico," (b) "Serenata Malinconica" (Calace) (Poly. 20526).

Mezzo-soprano—Miss Gladys Barton, "The Promise of Life" (Cowen).

Vocal duet—Misses Gladys Barton and Alys Moncur, "The Rosary,"

Waltz—The Orchestral Octet, "Artist's Life" (Strauss); orchestral, "Othernal, "Othernal"

"Clair de Lune" (Thorne).

Male choir - Westminster Glee Singers, (a) "Breeze of the Night" (Lamothe), (b) "Nellie Gray" (arr. Branscombe) (Parlo. A2992). Contralto—Miss Alys Moncur, "The Bitterness of Love" (Dunne).

The Orchestral Octet, "A Dream" (Massenet); selection, "Cavalleria Rusticana" (Mascagni).

10.0 : God save the King.

# 2YA, WELLINGTON (720 KILOCYCLES)-SUNDAY, AUGUST 16.

8.0 : Selected gramophone recordings.

6.0 : Children's song service, conducted by Uncle George, and assisted by the Children's Choir from the Karori Methodist Church.

7.0 : Relay of evening service from St. Andrew's Presbyterian Church.
Preacher, Rev. R. J. Howie, B.A.; Organist and Choirmaster, Mr. Frank Thomas.

(approx.): Relay of Band Recital by the Royal Naval Volunteer Reserve Band from the De Luxe Theatre (Conductor, Mr. Harry Baker)

God save the King.

# SYA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, AUGUST 16.

8.0 : Gramophone recital.

5.30: Relay from Ashburton of Baring Square Methodist Church Children's Song Service, under the supervision of Rev. G. B. Hinton.

6.15: Organ music by Mr. John Corbett from Baring Square Methodist Church.

6.30: Relay of evening service from Baring Square Methodist Church.
Preacher, Rev. G. B. Hinton; Choir Conductor, Mr. H. A. Humphreys; Organist, Mr. John Corbett.

\$.15 (approx.): Relay of concert programme by Ashburton Silver Band, from His Majesty's Theatre, Ashburton. God save the King.

# 4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, AUGUST 16.

8.0 : Selected recordings.

5.30: Children's Song Service, conducted by Big Brother Bill.

6.15: Instrumental recordings.

6.30: Relay of evening service from Moray Place Congregational Church.
Preacher, Rev. Albert Mead, M.A.; Choirmaster, Mr. Alfred Walmsley.

7.45: Selected recordings.

8.15: Relay through 3YA, Christchurch, of programme by Ashburton Silver Band.

10.0 : God save the King.

#### 2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, AUGUST 16.

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

# Monday August 17

1YA, AUCKLAND (875 KILOCYCLES) -- MONDAY, AUGUST 17.

SILENT DAY.

### 2YA, WELLINGTON (720 KILOCYCLES) -- MONDAY, AUGUST 17.

10.0 : Chimes. Selected recordings.

11.12: Lecturette—"Cooking."
11.37: Lecturette—"Health Hints or First Aid."

12.0 : Lunch hour music.2.0 : Selected recordings.

3.30 and 4.30: Sporting results to hand.

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

6.0 : Dinner music session (Polydor)-Dinner music session (Polydor)—
Great Symphony Orchestra, "Countess Mariza" Medley (Kalman).
Paul Godwin's Orchestra, "Octobre" (Tschaikowsky) (19457); "Serenade des Mandolines" (Desormes) (19531).
Paul Godwin's Orchestra, "The Bird Seller" (Zeller) (19288).
Paul Godwin's Quartet, "Un Peu D'Amour" (Silesu) (21703); "Serenata D'Amalfi" (Becce) (21703).
Polydor Orchestra, "Aus Winkeln und Gassen" (Hannemann) (21939).
Paul Godwin's Quartet, "Intermezzo Russe" (Franke) (19457).
Paul Godwin's Trio, "La Lettre de Manon" (Gillet) (19531).
Hja Livschakoff's Orchestra, "The Land of Smiles" (Lehar) (27196).
News session, market reports and sports results.

7.0: News session, market reports and sports results. 7.40: Lecturette—Mr. H. C. South, "Books-Grave and Gny."

8.0 : Chimes. Humorous Mozartian Concert by Signor Lucien Cesaroni and his Operatic Company.

Overture—Menorah Symphony Orchestra, "Bar Kochba" Selection.

8.8 : Concerted—The Company, "When Justice Armed With Virtue's Might"

(from "The Magic Flute") (Mozart).

Duet Migroy M. Standay and J. Standay (1992)

Duet-Misses E. Standen and J. Stirling, "Good Morning, Madam" (from "Figaro") (Mozart).

8.13: Bass-Signor Lucien Cesaroni, with orchestral accompaniment, "Now Your Days of Philandering Are Over" (from Figaro") (Mozart).

8.17: Overture—2YA Orchestrina (Conductor, Signor A. P. Truda), "The Magic Flute" (Mozart); "Minuet" (Mozart).

8.17: Overture—2YA Orchestrina (Conductor, Signor A. P. Truda), "The Magic Flute" (Mozart); "Minuet" (Mozart).

8.28: Duet with humorous dialogue—Messrs R. Trewern and G. Gray, "Viva—Long Live Bacchus" (from "Il Seraglio") (Mozart).

8.31: Piano—Mr. Gordon Short, Selection from "Fantasia" (Mozart).

8.38: Trio—Misses E. Standen, J. Reynolds and Mrs. N. Brady, "Our Second Greetings" (from "The Magic Flute") (Mozart).

8.41: Balalaika—Grand Russian Balalaika Orchestra, (a) "A Song of India" (Rimsky-Korsakov); (b) "Snowfiake" (Rimsky-Korsakov).

8.47: Duet—Miss J. Stirling and Mr. G. Gray, "How Long in Torment Sighing" (from "Figaro" (Mozart).

8.51: Selection—2YA Orchestrina, "The Marriage of Figaro" (Mozart).

9.0: Evening weather report and station notices.

9.2: Band—H.M. Coldsfream Guards, "Aida," (a) Introduction and Moorish Ballet; (b) Grand March and Finale (Verdi) (H.M.V. C1339).

9.10: Concerted—The Company, "Ave Verum" (Mozart).

Bass—Signor Lucien Cesaroni, with orchestral accompaniment, "Papageno's Drinking Song" (from "The Magic Flute") (Mozart).

9.17: Selection—2YA Orchestrina, "Romeo and Juliet" (Gounod).

9.25: 'Cello—Pablo Casals, (a) "Goyescas Intermezzo" (Grandos); (b) "Toccata in G Major—Adaglo" (Bach) (H.M.V. DB1067).

9.33: Trio—Miss J. Stirling, Mr. R. Trowern and Signor Lucien Cesaroni, "From Thee I Part with Keenest Pain" (from "The Magic Flute").

9.36: Duet with dialogue—Miss E. Standen and Signor Lucien Cesaroni, with orchestral accompaniment, "Give Me Thy Hand, O Fairest" (from "Oon Juan") (Mozart). "Don Juan") (Mozart).

9.40: Piano with orchestra-Mr. Gordon Short, Selection from "Concerto in D Minor" (Mozart).

9.46: Trio with dialogue—Messrs. R. Trewern and J. Ross and Signor Lucien Cesaroni, "March, March, March" (from "Il Seraglio") (Mozart).

Duet with dialogue—Miss E. Standen and Signor Lucien Cesaroni, "I Leave Thee, But Bid Thee Beware" (from "Il Seraglio") (Mozart).

9.53: March-2YA Orchestrina, "Turkish March" (Mozart).

10.0 : Dance programme (Polydor)-Foxtrots-Paul Godwin's Dance Orchestra, "Dance of the Raindrops." Ilja Livschakoff's Dance Orchestra, "The Song of My Wife." Paul Godwin's Jazz Symphonians, "You Are the Sweetest Girl in the World" (Heymann) (23040).

10.9: Waltz—Ilja Livschakoff and His Dance Orchestra, "Beautiful Lady in the Moon" (Wiga) (22991).

Foxtrots—Ben Berlin Dance Orchestra, "Kiss Me and Then Forget."

Paul Godwin's Dance Orchestra, "Hokus Pokus" (German).

10.18: Vocal—Sidney Burchall, "Bye and Bye" (Richard Rodgers).

10.21: Tangos-Ilja Livschakoff's Dance Orchestra, "A Little Love Longing."

# Week-all Stations-to Aug. 23

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

Jose M. Lucchesi and His South American Orchestra,

"Pesares" (Lucchesi) (22058).

Juan Llossas Original Argentin Tango Band, "Warum
Charmante Frau" (Bauer) (23118).

10.30: Waltz—Paul Godwin's Jazz Symphonians, "Love Waltz" (Heymann).
Foxtrots—Hija Livschakoff's Dance Orchestra, "Perfidious Luck"
(Mackeben) (23335); "I Am Fondly Attached to You"
(May) (23538); "Would You Give Me the Happiness of
One Sweet Hour" (Gilbert) (23333).

10.42: Vocal—Sidney Burchall, "Here in My Arms!" (Richard Rodgers).

10.45: Tangos—Ben Berlin's Dance Orchestra, "I Love You" (Schmidt).

Ilja Livschakoff's Dance Orchestra, "Come Down Rosie."

Juan Llossas Original Argentin Tango Band, "Astoria."

10.54: Foxtrots—Hja Livschakoff and His Dance Orchestra, "There's Nothing
Like Love" (Guttmann) (22991); "Troika Drive in the
Moonshine" (arr. Benedict) (23480).

11.0 : God save the King.

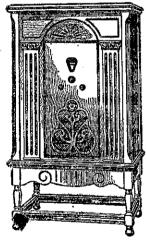
### 3YA, CHRISTCHURCH (980 KILOCYCLES)-MONDAY, AUGUST 17.

3.0 : Gramophone recital. 4.25: Sports results.

5.0 : Children's hour.

6.0: Dinner music session (Polydor)—
The Polydor String Orchestra, "La Muette De Porticl" Overture.
Paul Godwin's Orchestra, "Talkative" (Eilenberg) (19841); "Les Patineurs" (Waldteufel) (19710). Jean Gilbert's Scala Orchestra, "Strolling Through Jean Gilbert's Hits."

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Hope Gibbons Ly AUCKLAND - CHRISTCHURCH - WELLINGTON

Paul Godwin's Orchestra, "Sizilietta" (Von Blon) (22902); "Cajolery," Efim Schachmeister's Jazz Symphonians, "Dubinuschka" (Schirmann). Paul Godwin's Orchestra, "Doll's Dancing" (Rhode) (19710); "Siciliano" (Jessel) (22902).

Paul Godwin's Jazz Symphonians, "Hullo 1930" (Borchert) (22929).

7.0 : News session.

7.0: News session.
7.30: Talk—Mr. E. J. Bell, "Books of Biographies, Travels, etc."
8.0: Chimes. Band programme by the New Brighton Municipal Bana (Conductor J. A. Nuttall) and assisting 3YA Artists.

March—Band, (a) "Ever Ready" (White), (b) "What Happened After the Ball" (Lawrence Wright).
8.7: Tenor—Mr. W. Bradshaw with trie accompaniment, "Thora" (Adams)

8.11: Instrumental—Christchurch Broadcasting Trio, "Vienna Life." 8.19: Male trio—The Thrill Harmonisers, (a) "There's a Good Time Coming" (Wallace), (b) "Rollin' Down the River" (Waller).

8.23: Waltz—Band, "Tesoro Mio" (Becucci).
8.31: Mezzo-soprano—Mrs. Robert Sherris, (a) "The Bird With The Broken Wing" (Jolson), (b) "Slumberland, Hushabye" (Daphne Hope).
8.37: Accordion—Bastlen and Bal Musette Orchestra, (a) "The Mill"; (b)

"Coquette" (Halet) (Poly. 23561). 8.43: Novelty duo—At piano—Mr. Les Grummitt: Vocalist—Mr. Rex. Sayers,

(a) "The Sun Is At My Window" (Meyer), (b) "Right or Wrong" (Sizemore).

8.50: Xylophone—Franz Kruger, (a) "Tell Fantasia" (arr. Kruger), (b)
"La Kraquette" (Clerice) (Poly. 21963).
8.56: Foxtrots—Band, (a) "Dance of the Blue Danube."

9.4 : Evening weather forecast and station notices.

9.6: Orchestral—State Opera Orchestra, Berlin, "Der Rosenkavaller."
9.14: Tenor—Mr. W. Bradshaw, with trio accompaniment, (a) "Down The Vale" (Moir), (b) "For You Alone" (Geehl).

9.20: Instrumental—Christchurch Broadcasting Trio, (a) "Senerade To The Moon" (Esipoff), (b) "Farewell To My Love" (from "Frasquita") 9.27: Selection—Band, "Classic Moments" (Rimmer). 9.38: Mezzo-soprano—Mrs. Robert Sherris, (a) "Down Here" (Brahe), (b)

"I Wonder If Ever The Rose" (Slater).

9.42: Orchestral—Hja Livschakoff's Orchestra, (a) "Curly" Intermezzo (Powell), (b) "In The Bar Of The Gnomes" (Rosen).
9.48: Foxtrots—Band, (a) "Melancholy" (Campbell), (b) "Baby's Birthday

Party" (Ronell) 9.55: Novelty duo-At piano, Mr. Les Grummitt: Vocalist, Mr. Rex Sayers, (a) "Singing a Vagabond Song" (Richman), (b) "Exactly Like You" (McHugh).

10.1 : March-Band, "Rauparaha" (Lithgow).

10.6 : God save the King.

# 4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, AUGUST 17.

Children's hour, conducted by Uncle Jack, assisted by Uncle Pete.

: Dinner music session (Polydor)-Dinner music session (Polydor)—
Great Symphony Orchestra, "A Rendezvous With Lehar" (arr. Hruby).
Marek Weber and His Adlon Orchestra, "Lettre a Armand" (Haagman).
Paul Godwin's Orchestra, "Serenata" (Clement) (19628).
Philharmonic Orchestra, Berlin, "Euryanthe" Overture (Weber).
Efim Schachmeister's Orchestra, "Gipsy's Farewell" (Trad'1).
Philharmonic Orchestra, Berlin, "Tannhauser Grand March" (Wagner).
Marek Weber and His Adlon Orchestra, "Dreams" (Wagner).
Paul Godwin's Orchestra, "Types Tziganes" (Clement) (19628); "Sidelights Medler" (Morena) (27168)

lights Medley" (Morena) (27168). Efim Schachmeister Orchestra, "White Acacia" (Trdtl.) (20455) Philharmonic Orchestra, "Prelude to Act 3-Lohengrin" (Wagner).

7.0 : News session.

8.0 : Chimes. Specially Recorded International Programme. Vitaphone Orchestra.

Radio Sweethearts. Forget-me-Not. Weather report.

International talk—Mr. A. J. Woods, M.A., Lecturer in History at the Dunedin Training College, "Some Historic Aspects of Internationalism."

The Radio Imps.

Vitaphone Dance Orchestra.

God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)-MONDAY, AUGUST 17. 8.0 to 10.0 p.m.: Concert programme.

# Tuesday, August 18

1YA, AUCKLAND (875 KILOCYCLES)-TUESDAY, AUGUST 18. 3.0 : Selected recordings.

3.15: Talk-Mrs. Leslie Crane, "Beauty of Mind and Body in Relation to

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

7.0: News and market reports.
7.40: Talk—"Sparwood" of the "New Zealand Referee," "Dogs."
8.0: Chimes. Specially Recorded International programme.

Dr. Eugene Ormandy and His Salon Orchestra.

International Singers.

Ambassadors of Melodyland.

Abroad with the Lockharts.

Weather report.

International Talk—Mr. Tom Bloodworth, "The Work of the International Labour Office."

Hywide and Handsome.

Nat Brusiloff and His Lido Venice Orchestra,

God save the King.

# 2YA, WELLINGTON (720 KILOCYCLES)-TUESDAY, AUGUST 18.

10.0 : Chimes. Selected gramophone recordings.

.12: Lecturette—"Fabrics and Fashions.

12.0 : Lunch hour music.

2.0 to 3.0: Educational session.

5.0 : Selected recordings.

3.30 and 4.30: Sporting results to hand.

5.0 : Children's session, conducted by Jumbo.

5.0 : Children's session, conducted by Jumbo.
6.0 : Dinner music session, (Columbia)—
Bohemian Orchestra, "Love and Life in Vienna."
Organ—G. T. Patiman, "Alice Where Art Thou?" (trdtl.) (DO146).
Berlin Philharmonic Orchestra, "Roses of the South" (Strauss).
Band of H.M. Grenadier Guards, "Ivanhoe" Selection.
Bohemian Orchestra, "Destiny Waltz" (Baynes) (Reg. G20775).
Herman Finck and His Orchestra, "Melodious Memories" (arr. Finck).
Plaza Theatre Orchestra, "A La Gavotte" (Finck) (01439).
J. H. Squire's Celeste Octet, "La Serenata" (Braga) (9116).
Venetian Players (String Quintet) "Romenza" (Mozart, arr. Sear).

Venetian Players (String Quintet) "Romanza" (Mozart, arr. Sear).
Percy Pitt's Orchestra, "Raymond" Overture (Thomas) (DOX84).
Plaza Theatre Orchestra, "Minuet" (Finck) (01439).
Organ—G. T. Pattman, "Cinderella Waltz" (Pattman) (DO146).
J. H. Squire's Celeste Octet, "Serenade" (Titl) (9116).

7.0 : News session, market reports and sports results. 7.40: Lecturette by a Representative of the Agricultural Department, "For

the Man on the Land."

8.0 : Chimes. Overture—Berlin State Opera Orchestra, "Die Fledermaus."

8.8: Baritone—Mr. Will Goudie, with orchestral accompaniment, "Hadfield Bells" (Martin).
8.12: Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon) "Petite

Suite Moderne" (Rosse).

8.20: Soprano—Miss Christina Ormiston, (a) "Songs My Mother Taught Me" (Dvorak), (b) "Annie Laurie" (arr. Lehmann).

(Dyorak), (b) "Annie Laurie" (arr. Leimann).

8.26: Guitar—Kalama's Quariet, (a) "Ohuohu Oahu" (trdtl.), (b) "Hawaiian Girl O' Mine" (Noble) (Parlo. A3132).

8.32: Quariet—The Lyric, "Juanita" (arr. Parks).

8.36: Instrumental—Salon Orchestra, (a) "Danse Des Bacchantes" (Gounod), (b) "Air on the G String" (Bach).

8.44: Tenor—Mr. Chas. Williams, (a) "Go Lovely Rose" (Quilter), (b) "Trees" (Rasbach).

8.50: Soprano and Quartet—Miss Christina Ormiston and Lyric Quartet, with violin obbligato, "Slumber Song" (Parks).
8.54: Accordion duo—Gellin and Borgstrom, (a) "Blaze Away" (Holzmann), (b) "Gladiators' Farewell" (Blankenburg) (Poly. 22039).

9.0: Evening weather report and station notices.
9.2: Descriptive selection—Salon Orchestra, (a) "A Day In Naples"

(Byng), (b) "Viennese Melody" (Kreisler).

9.10: Tenor—Mr. W. Roy Hill, (a) "The Roadside Fire," (b) "Silent Noon."

9.16: Whistling—Guido Gialdini, (a) "Creole" Tango (Ripp), (b) "Nola."

9.22: Bass—Mr. W. Binet Brown, with orchestral accompaniment, "Blow,
Thou Winter Wind" (Ketelbey).

9.26: Violin—Mr. W. Haydock, with orchestral accompaniment, "Chanson
Meditation" (Cottenet).

Instrumental—Salon Orchestra, "Poupee Charmante" (Savino).

9.36: Soprano—Miss Christina Ormiston, (a) "Ma Curly Headed Babby"

(Clutsam), (b) "Whatver Is—Is Best" (Lohr).

9.42: Male choir—Berlin Liedertafel, (a) "Aufblick," (b) "Unsere Berge."

3.46: Quartet-The Lyric, with orchestral accompaniment, "Dreamy Caro-

lina" (arr. Knight).

9.50: Instrumental—Salon Orchestra, "Latest Dance Novelties."

10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, AUGUST 18. SILLINI DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, AUGUST 18.

3.0 : Selected recordings.

3.0: Selected recordings.
5.0: Children's hour, conducted by Aunt Leonore.
6.0: Dinner music session (H.M.V.)—
London Palladium Orchestra, "Nautical Moments" (arr. Winter).
Organ—Sandy Macpherson, "L'Heure Bleu" (Spolianski) (B3300).
Vienna Philharmonic Orchestra, "Hungarian Dance No. 1" (Brahms)
Berlin State Opera Orchestra, "Oberon" Overture (Weber) (D1316).
Jack Hylton and His Orchestra, "Steppin' Out" (Vauchant) (B5727).
National Military Band, "Ben Hur" (Byng) (Zono. A365).
New Mayfair Orchestra, "Follow Through" Selection (de Sylva).
De Groot and His Orchestra, "I Love You". (Grieg) (B3184).
Marek Weber and His Orchestra, "Lehariana" (Geiger) (C1679).
De Groot and His Orchestra, "Romance" (Rubenstein) (B3184).
Vienna Philharmonic Orchestra, "Hungarian Dance No. 3" (Brahms).
Jack Hylton and His Orchestra, "Lonesome Little Doll" (Boutelje).
Organ—Sandy Macpherson, "In An Old World Garden" (Pepper).

7.0 : News session.

7.40: Talk—Mr. G. McCracken, under auspices of the W.E.A., "The Trend of Events in the Next Century" (Final Talk of Series).
8.0: Chimes. Concert by St. Kilda Band and 4YA Artistes.
March—Band, "Royal Fusiliers" (Raynor); Waltz, "The Queen's

March—Band, "Royal Fusiliers" (Raynor); Waltz, "The Queen's Own" (Greenwood).

8.13: Soprano—Miss Noni Davidson, (a) "Rest, Warrior, Rest" (Kelly); (b) "Daffodii Days" (Phillips).

8.19: Cockney sketch—Winkel-Lampen Radio Players, "Seeing London."

8.30: Selection—The Band, "A Soldier's Liffe" (Sheriff).

8.46: Baritone—Mr. H. P. Desmoulins, (a) "Seventh Royal Fusiliers" (Le Brunn); (b) "Private Tommy Atkins" (Potter).

8.53: Accordion—Bastien and Bal Musette Orchestra, (a) "Smash" (Pegure); (b) "Sugared Almond" (Bastien) (Poly, 23617).

8.59: Contralto—Miss M. R. Kenward, "Ring, Bells, Ring" (Day).

9.2 : Weather report and station notices.

9.4: The Balalaika Orchestra, (a) "Der Mond Leuchtet"; (b) "Russlan Potpourri" (Traditional) (Polydor 20585).
9.10: Soprano—Miss Noni Davidson, "Song of Autumn" (Elgar).
9.13: Selection—Band, "Battle March of Delhi" (Pridham).
9.27: Cockney humour—Winkel-Lampen Radio Players, "The End of a Per-

9.27: Cockney humour—Winkel-Lampen Radio Flayers, "The End of a Perfect Day" (arr. Lampen).
9.40: Baritone—Mr. H. P. Desmoulins, "The Trumpeter" (Dix).
9.48: Cornet with band—Mr. G. Christie, "When You Come Home" (Squire).
9.49: Contralto—Miss M. R. Kenward, (a) "The Soldier's Tear" (Old English) (Lee); (b) "Fisher Lad" (Day).
9.56: March—The Band, "The Guardsman" (Morgan).

10.1 : God save the King.

# Wednesday, August 19

# 1YA, AUCKLAND (875 KILOCYCLES)—WEDNESDAY, AUGUST 19.

12.30: Relay of Community Singing from the Auckland Town Hall. 3.0: Selected recordings.

3.15: Literary selection.

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

6.0: Dinner music session (Polydor)—
Paul Godwin's Orchestra, "From Heidelberg to Barcelona."
Paul Godwin's Quintet, "Minuetto" (Bolzoni) (19929).
Paul Godwin's Orchestra, "Hearts and Flowers" (Tobani) (19932).

Marek Weber and His Hotel Adlon Orchestra, "Under the Old Lime Tree" (Felix) (20456).

Paul Godwin and Kunstler Ensemble, "Potpourri of German Folk

Paul Godwin and Kunstier Einsemble, Potpourri of German Folks Songs" (arr. Hannemann) (19425).

Paul Godwin's Quintet, "Dolis' Minuet" (Blon) (19929).

Paul Godwin's Orchestra, "The Merry Peasant" (Fall-Leon) (19603).

Marek Weber and His Hotel Adlon Orchestra, "Extase" (Gangel).

Paul Godwin's Orchestra, "Sleeping Beauty's Bridal Trip" (Ande)

(19982); "The Count of Luxembourg" (Lehar) (19624).

(19932); "The Count of Luxembourg" (Lehar) (19624).

7.0: News and market reports.

7.40: Talk—Mrs. H. Hodges, "Book Review."

8.0: Chimes. Presentation of a Studio Concert by the Auckland Orphans' Club Orchestra, under the conductorship of Mr. Harold Baxter.

March—The Orchestra, "Juarez" (Schettino); Overture, "Morning, Noon and Night" (Suppe).

Noon and Night" (Suppe).

8.13: Chorus—Parlophone Musical Comedy Company, (a) "Viennese Nights" (Romberg); (b) "One Heavenly Night" (Parlo. A3134).

8.21: Baritone—Mr. Stan. Pritchard, (a) "Harbour Night Song" (Sanderson); (b) "The Moon Drops Low" (Cadman).

8.28: Suite—The Orchestra, "A Coon's Day Out" (Baynes); Characteristic, "A Dervish Chorus" (Sebek).

8.43: Chorus—The Salon Group, (a) "Kiss Me Again" (Herbert); (b) "The Fortune Teller" (H.M.V. EB58).

8.51: Reverie—The Orchestra, "Chanson de Nuit" (Elgar); Novelty, "A Nigger's Birthday" (Lincke).

9.0: Evening weather forecast and announcements.

9.2: Humour—Will Fyffe, "Daft Sandy" (Fyffe) (Col. DOX87).

9.10: Orchestral—The Orchestra, "Ballet Russe" (Luighi); (a) "March Russe"; (b) "Valse Lente."

9.16: Humour—Mr. Tom Harris, (a) "Me and Jim"; (b) "The Tram Con-

9.16: Humour—Mr. Tom Harris. (a) "Me and Jim"; (b) "The Tram Conductor" (Anony)

9.26: Fantasia—The Orchestra, "Livolution of Dixie" (Luke).

9.36: Chorus—Sieber Choir, "Tales from the Vienna Woods" (Strauss). 9.44: Orchestral—The Orchestra, Ballet Music from "Faust," Nos. 5, 6 and

7 (Gounod).

Paraphrase—The Orchestra, "Ave Maria" (Schubert, arr. Moor Karoly); March, "Orphans" (Moor Karoly). Note.—The latter two numbers were composed for and dedicated to the Auckland Orphans' Club, and will be conducted by the composer.

10.0 : God save the King.

#### 2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, AUGUST 19.

10.0 : Chimes. Selected gramophone recordings, 11.37: Lecturette—"Hollywood Affairs."

12.0 : Lunch hour music. 2.0 : Selected recordings.

3.15: Lecturette—Miss Ruth Hay, "The Value of Physical Culture for Women."

3.30 and 4.30: Sporting results to hand.

: Children's session, conducted by Aunt Daisy.

Dinner music session (H.M.V.)-New Mayfair Orchestra, "Lilac Time" (Schubert, arr. Clutsam). San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski); (b) "Aubade" (Auber) (ED6).

(b) "Aubade" (Auber) (ED6).
Creatore's Band, "Semiramide" Overture (Rossini) (C1420).
New Light Symphony Orchestra, "Spanish Serenade" (Blzet) (B2584);
"Narcissus" (Nevin) (Zono. EE111).
Trio—De Groot, Pacey, Gibilaro, "O Sole Mio" (Di Capua) (B2588).
San Francisco Symphony Orchestra, "Liebeslied" (Kreisler) (ED6);
"Valse de Concert" (Glazounov) (D1492).
New Light Symphony Orchestra, "Spring Song" (Mendelssohn).
National Symphony Orchestra, "William Tell" Overture (Rossini).
New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowski).
News session. market reports and sports results.

7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. A. E. Wilson, "Tourist and Health Resorts."
8.0: Chimes. Specially Recorded International Programme.

Vitaphone Orchestra. The Old Whittler.

The Flying Song Squadron.

Weather report.

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

The Mirth Quakers.

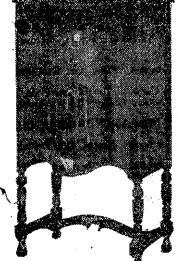
Whispers.

God save the King.

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## 3YA, CHRISTCHURCH (980 KILOCYCLES)-WEDNESDAY, AUGUST 19

3.0 : Gramophone recital,

4.25: Sports results.

5.0 : Children's hour.

6.0 : Dinner music session (H.M.V.)-

Dinner music session (H.M.V.)—
H.M. Coldstream Guards Band, "Wedding of the Rose" (Jessel),
Vienna Philharmonic Orchestra, "Dorfschwalben Waltz" (Strauss).
Instrumental trio—Fritz Kreisler, Hugo Kreisler and M. Raucheisea,
"Syncopation" (Kreisler) (DA961).
Organ solo—Jesse Crawford, "Serenade" (Friml) (EA638).
International Novelty Orchestra, "Four Little Farms" (Zono. EE18).
Coldstream Guards Band, "Suite Francaise" (Foulds) (B2751/2).
De Groot and His Orchestra, "Samson and Deillah" Selection.
Marek Weber and His Orchestra, "Cavalleria Rusticana" Selection.
Organ solo—Jesse Crawford, "Indian Love Call" (Friml) (EA638).
Instrumental trio—Fritz Kreisler, Hugo Kreisler and M. Raucheisen. Instrumental trio—Fritz Kreisler, Hugo Kreisler and M. Raucheisen, "Marche Miniature Viennois" (Kreisler) (DA961).

De Groot and His Orchestra, "Louise" Selection (Charpentier).

International Novelty Orchestra, "To Die Dreaming" (Zono. EE182).

7.0 : News session.

7.30: Addington stock market reports.

7.30: Addington stock market reports.
8.0: Chimes. Overture—State Opera Orchestra, Berlin, "William Tell."
8.15: Vocal quartet—Melodious Quartet, (a) "Awake! Awake!"; (b) "Evening Has Lost Her Throne" (Bantock).
8.21: Piano—Miss Alleen Warren, (a) "In a Mountain Glen"; (b) "Sea Mew's Flight" (Barratt); (c) "Clock Prelude" No. 17 (Chopin).
8.29: Soprano—Madame Gower Burns, with octet accompaniment, "Gloria."
8.34: Instrumental—Studio Octet (Harold Beck, conductor), "Scenes Pittoresques" (Massenet).
8.46: Vocal—Melodious Ouncite (a) "Oh What a Torch Media Hall Bean

toresques" (Massenet).

8.46: Vocal—Melodious Quartet, (a) "Oh, What a Lovely Magic Hath Been here"; '(b) "On Himalay" (Bantock).

8.52: Piano—Miss Alleen Warren, (a) "In a Gondola" (Palmgren); (b) "Little Hakon" (Grieg).

8.59: Soprano—Madame Gower Burns, with octet accompaniment, recit and aria, "The Sad Years Roll By" (from "L'Enfant Prodigue").

8.59: Soprano—Madame Gower Burns, with octet accompaniment, recit and aria, "The Sad Years Roll By" (from "L'Enfant Prodigue").

9.2: Evening weather forecast and station notices.

9.4: Talk—Te Ari Pitama, "The South Island Maori."

9.19: Overture—Studio Octet, "L'Impressario" (Mozart).

'Cello—Harold Beck, with Studio Octet, "Orientale" (Cui).

9.25: Vocal—Melodious Quartet, (a) "Rose Aylmer" (Fritz Hart); (b)

"Swing Low, Sweet Chariot" (negro spiritual) (Burleigh).

9.30: Dance programme (Parlophone)—

Foxtrots—Tom Rock and His Orchestra, "Truly, I Love You" (Hirseh).

Sam Lanin and His Famous Players, "It's a Lonesome Old

Town" (Tobias) (A3146).

Ray Seeley and His Orchestra, "There's Something Missing
in Your Eyes" (Gilbert) (A3144).

Ed Lloyd and His Orchestra, "Walkin' My Baby Back

Home." (Turk) (A3146).

9.42: Waltz—Hotel Pennsylvania Orchestra, "The Kiss Waltz" (Dubin).

9.45: Foxtrots—Sam Lanin and His Famous Players, "Oh Why?"

Ray Seeley and His Orchestra, "You're the One I Care For."

Ed Lloyd and His Orchestra, "I Am the Words—You Are
the Melody" (de Sylva) (A3117).

9.54: Vocal—John Warren, "I Miss a Little Miss" (Coots) (A8125).

9.57: Foxtrots—Sam Lanin and His Famous Players, "The One Man Band."

Ed Lloyd and His Orchestra, "Sing Song Girl" (Hanley).

The New York Syncopators, "The King's Horses" (Graham).

10.6: Waltzes—Favilion Lescaut Orchestra, "Drink, Brother, Drink."

The Orquesta Tipica Francisco Canaro, "Bells of Hawaii."

10.12: Foxtrots—Ed Lloyd and His Orchestra, "Hullabloo" (Dolen).

The New York Syncopators, "The King's Horses" (Graham).

10.6: Waltzes—Favilion Lescaut Orchestra, "Drink, Brother, Drink."

The Orquesta Tipica Francisco Canaro, "Bells of Hawaii."

10.12: Foxtrots—Ed Lloyd and His Orchestra, "Hullahaloo" (Dolen).

Hotel Pennsylvania Orchestra, "Sing Something Simple."

Ray Seeley and His Orchestra, "Hurt" (Solomon) (A3126).

Hotel Pennsylvania Orchestra, "A Peach of a Pair."

10.24: Vocal—Melville Gideon, "Lady Play Your Mandolin" (Caesar).

10.27: Foxtrots—Sam Lanin and His Famous Players, "To-morrow is Another Day" (Green) (A3129).

The New York Syncopators, "I'm So Afraid of You" (Kalmar) (A3145); "The Little Things in Life" (Berlin).

10.36: Tango—Pavilion Lescaut Orchestra, "Oh! Miss Greta" (Flossas).

10.39: Vocal—John Warren, "Heavenly Night" (Brown) (A3125).

10.42: Foxtrots—Russ Morgan and His Orchestra, "L'Itle Sunshine."

Ed Lloyd and His Orchestra, "Hello! Beautiful!"

10.48: Waltz—Sam Lanin and His Orchestra, "Crying Myself to Sleep" (Wendling) (A3147); "When You Were the Blossom of Buttercup Lane" (Dubin) (A3153).

Waltz—Fred Rich and His Orchestra, "When Your Hair Has Turned to Silver" (Tobias) (A3159).

11.0 : God save the King.

#### 4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, AUGUST 19.

3.0: Afternoon session.
3.15: Talk—"A Talk About Wool," by the Home Science Extension Service of Otago University.
5.0: Children's hour, conducted by Big Brother Bill.
6.0: Dinner music session (Parlophone and Polydor)—Paul Godwin's Dance Orchestra, "The World's Best Waltzes Medley." Ilja Livschakoff's Orchestra, "Fiddler Where is Your Home?" (Stolz). Vienna Schrammel Quartet, "Serenade" (Heykens) (21919). Paul Godwin's Orchestra, "Marche Grotesque" (Sinding) (22900).

Ilja Livschakoff Dance Orchestra, "Roses of the South" (Strauss). Organ—H. Wood, "Songs My Mother Taught Me" (Dyorak) (23304). Orchestra Mascotte, "Amoureuse" Waltz (Berger) (Parlo, A3185). Paul Godwin's Orchestra, "The Clock and the Dresden Figures." Ilja Livschakoff Orchestra, "Hungarian Medley" (Leopold) (23539). Vienna Schrammel Quartet, "Silk and Velvet" (Ziehrer) (21919). Paul Godwin's Orchestra, "Joy Bells" (Blaauw) (22900). Organ—H. Wood, (a) "Song Without Words" (Mendelssohn); (b) "Adagio from L'Arlesienne" (Bizet) (23304).

His Livschakoff's Dance Orchestra, "Blue Danube" (Strauss) His Livschakoff's Dance Orchestra, "Blue Danube" (Strauss).

Dajos Bela Orchestra, "The Grenadiers" Waltz (Waldteufel).

La Argentina, Castanets with Orchestra, "Dance No. 5" (Granados).

Paul Godwin's Orchestra, "The Cathedral Bells" (Becker). 7.0 : News session. 7.15: Talk.—Mr. G. A. Holmes, under auspices of 4YA Primary Productions Committee, "Spring Manuring." 8.0 : Chimes. Relay of Burns' Club Concert from Early Settlers' Hall, Dunedin. 9.30: Dance session (Columbia)-

Dunedin.

9.30: Dance session (Columbia)—
Foxtrots—Ben Selvin and His Orchestra, "Around the Corner."
Gil Dech and His Syncopators, "You Can't Be Unhappy if You Sing" (Barry) (DO166).
Paul Specht and His Orchestra, "Santiago" (Stothart).
Stellar Dance Band, "Minnie's Yoo-Hoo!" (W. Stalling).
9.42: Waltz—The Four Bright Sparks, "Eleanor" (McCarthy) (DO139).
Foxtrots—Van Phillips and His Band, "Just Like in a Story Book."
Gil Dech and His Syncopators, "Bride of Our Dreams Come True" (Monk) (DO166).
9.51: Vocal duet—Sweet and Low Duettists, "By the Waters of Killarney."
9.54: Foxtrots—Ipana Troubadours, "Cooking Breakfast For the One I Love."
Columbia Photo Players, "Leave It That Way" (Fisher).
Ipana Troubadours, "Kickin' a Hole in the Sky" (Greer).
Columbia Photo Players, "The Whole Darned Thing's For You" (Ahlert) (DO127).

10.6: Waltz—Frank Ferera's Hawaiian Trio, "Lazy Lou'siana Moon."
Foxtrots—Paul Specht and His Orchestra, "Into My Heart" (Ahlert).
The Four Bright Sparks, "High Society Blues" (McCarthy).
10.15: Vocal—Cavan O'Connor, "The Sunshine of Marseilles" (Gilbert).
10.18: Foxtrots—The Columbia Photo Players, "The 'Free and Easy,"
Frank Ferera's Hawaiian Trio, "Pale Blue Waters."
Stellar Dance Band, "The Toy Farm-Yard" (Weston).
Paul Whiteman and His Orchestra, "Livin' in the Sunlight."
Poxtrots—The Columbia Photo Players, "It Must Be You" (Turk).
Ben Selvin and His Orchestra, "With My Guitar and You."
Paul Whiteman and His Orchestra, "Yon Brought a New Kind of Love to Me" (Fain) (07039).
Stellar Dance Band, "A Pair of Blue Eyes" (Kernell).

Paul Whiteman and His Orchestra, "You Brought a New Kind of Love to Me" (Fain) (07039).

Stellar Dance Band, "A Pair of Blue Eyes" (Kernell).

10.45: Vocal duet—Sweet and Low Duettists, "Just An Old Refrain."

10.48: Foxtrots—Van Phillips and His Band, "I'm in the Market For You."

Gil Dech and His Syncopators, "Johnnie, Our Aeroplane Girl" (Lumsdaine) (DOS4). Debroy Somers Band, "Figaro" Debroy Somers Band, "Flgaro" (Mitchell) (DO133). Gil Dech and His Syncopators, "A Lone Girl Flyer."

## 2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, AUGUST 19

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

# Thursday, August 20

# 1YA, AUCKLAND (875 KILOCYCLES)—THURSDAY, AUGUST 20.

8.0 : Chimes. Selected recordings. 8.15: Talk—"Meals on a Tray." Lecturette prepared by the Home Science Extension Service of Otago University.

5.0 : Children's session, conducted by Skipper.

Charten's session, conducted by Shipper.

Dinner music session (Columbia)—

Regal Salon Orchestra, "Memories of Beethoven" (Beethoven).

Plaza Theatre Orchestra, "Gipsy Suite" (German). (1) Valse (Lonely Life); (2) Allegro (The Dance) (02537).

Columbia Symphony Orchestra, "Al Fresco" (Herbert) (01092).

Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawaiian

Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawailan Waters" (Ketelbey) (05085).

J. H. Squire's Celeste Octet, "Invitation to the Valse" (Weber).

Orchestra de la Societe des Concerts du Conservatoire, Paris, "Le Rouet D'Omphale" (Saint-Saens) (02926).

Plaza Theatre Orchestra, "Gipsy Suite" (German). (3) Menuetto (Love Duct); (4) Tarantella (The Revel) (02538).

Columbia Symphony Orchestra, "Badinage" (Herbert) (01092).

Menorah Symphony Orchestra, "Bar Kochba" Selection (Goldfaden).

J. H. Squire's Celeste Octet, "Chant Sans Paroles" (Tschaikowsky).

News and market reports.

7.0 : News and market reports.

7.40: Talk-"Dairy Utensils and Sheet Metal Goods." Under the auspices of the New Zealand Manufacturers' Association.

8.0 : Chimes. Relay from the Auckland Town Hall of the Royal Auckland Choir's Second Concert of the 1931 Season, under the conductorship of Dr. W. E. Thomas.

10.0 : Dance programme (Polydor) --

Foxtrots—Ilja Livschakoff's Dance Orchestra, "And Swiftly the Days Pass By" (arr. Benedict) (23482); "The Gipsy Prin-cess" (Kalman) (23610); "Munich Kiddy" (Stolz).

10.9 : Waltz-Ilja Livschakoff's Dance Orchestra, "My Love Song Must be a Waltz" (Stolz) (23649).

Foxtrots—Paul Godwin's Dance Orchestra, "Say That You Love Me."
Ilja Livschakoff's Dance Orchestra, "The Whole World is
Sky Blue" (Stolz) (23649).

10.18: Vocal (Spanish)—Juan Llossas with His South American Orchestra, "La Cigarra" (Paredes) (P40488).

10.21: Tangos—Ilja Livschakoff's Dance Orchestra, "Don't Leave Me!" (arr. Benedict) (23482); "To-night I've Dreamt of You" (Kalman) (23610); "You Are My Morning and Night Prayer" (Krauss) (23569).

10.30: Waltz-Paul Godwin's Dance Orchestra, "Under the Roofs of Paris." Foxtrots-Paul Godwin's Dance Orchestra, "Fair Little Daisy." Ilja Livschakoff's Dance Orchestra, "Love and Wine Never

Alone" (Krauss) (23569). "The Barrel Organ" (arr. Michaeloff) (23481).

10.42: Vocal (Spanish)—Juan Llossas with His South American Orchestra, "Sonarse Abandonado" (Paredes) (P40488).

10.45: Tangos—Ilja Livschakoff Dance Orchestra, "A Love Letter" (arr.) Michaeloff) (23481); "Just a Bit of Love" (Rosen) (23547); "And Once You Too Will Deceive Me" (Stolz).

10.54: Foxtrots-Ilja Livschakoff's Dance Orchestra, "You Are My Greta Garbo" (Stolz) (23401). Paul Godwin's Dance Orchestra, "Mariner's Song" (Uher).

11.0 : God save the King.

### 2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, AUGUST 20.

10.0 : Chimes. Selected gramophone recordings.

10.45: Lecturette-"Cooking."

11.37: Lecturette-"The Ear." Under the auspices of the Health Department.

12.0 : Lunch hour music. 2.0 : Selected recordings.

3.15: Lecturette—Miss I. F. Meadows, "Meals on a Tray." Talk prepared by the Home Science Extension Department of the Otago University. 3.30 and 4.30: Sporting results to hand,

5.0 : Children's session, conducted by Uncle George and Big Brother Jack.

5.0: Children's session, conducted by Uncle George and Big Brother Jack.
6.0: Dinner music session (Columbia)—

The Classic Symphony Orchestra, "Raymond" Overture (Thomas).

Band of the Garde Republicaine, "The Two Pigeons" (Messager). (1)

Entrance of Tziganes; (2) Scene and March of the two Pigeons.

Herman Finck's Orchestra, "Schubertiana" (arr. Finck) (02721).

Musical Art Quartet, "To a Wild Rose" (McDowell) (01506).

The Rhythmic Troubadours, "Song of the West" Selections (Youmans).

London Theatre Orchestra, "Maid of the Mourisis" Selection.

Rhythmic Troubadours "Puritie" on the Bita" Selection. Rhythmic Troubadours, "Mand of the Mountains" Selection, Rio Novelty Orchestra, "Spaventa" Tango (Pares and Van Parys). Musical Art Quartet, "Mighty Lak" a Rose" (Nevin) (01506) Rio Novelty Orchestra, "Mientras Llora el Tango" (Barabine a Courau) (D0159).

7.0 : News session, market reports and sports results.

8.0: Chimes. Overture—Barnabas von Geczy and His Orchestra, "The Student Prince" (Romberg) (Parlo. A4208).
8.8: Tenor—Mr. Frank Skinner, (a) "Serenade" (Schubert); (b) "Mignon."
8.14: Quartets—Waiata Quartet, (a) "Marle" (Franz); (b) "Fat L'il Feller" (Gordon).

8.20: Overture—27A Salon Orchestra (Conductor, Mr. M. T. Dixon), "A Strauss Garland" (arr. Winter).
8.28: Humour—Mr. Len Ashton, (a) "Misery Farm" (Wallis); (b) "I Think

of You Dear, I Think of You" (Long). 8.34: Zither—George Freundorfer, "Isar Waves" (Freundorfer).

8.37: Soprano—Miss Lalla Vondersloot, with orchestral accompaniment, (a)
"Dream Tryst"; (b) "The Land of the Sky Blue Water" (Cadman,
8.43: Chorus—Zonophone Light Opera Company, "Maritana" Vocal Gey,
8.50: Suite—2YA Salon Orchestra, "Vox Maris" (Elliott); Dance, "Grasshopper's Dance" (Buccalossi).
9.0: Weather report and station notices.
9.2: Balalaika—Grand Russian Balalaika Orchestra, "Russian Reminiscences" (Michailowsky) (Poly 22839)

cences" (Michailowsky) (Poly, 22839).

9.8: Humour—Mr. Len Ashton, "It's Bound to Come in Useful Later On."

9.8: Humour—Mr. Len Ashton, "Tills" (La Forge); With 'cello obbligato, "Time's Garden" (Goring Thomas).

9.18: Tone poems—2YA Salon Orchestra, (a) "The Poet's Dream"; (b) "Reverie" (McDowell).

9.26: Tenor-Mr. Frank Skinner, "My Dream of Love" (from "The Dollar Princess") (Fall),

9.30: Duets—Miss Nora Gray and Miss Mollie Fenton, (a) "Jack and Jill" (Sanderson); (b) "Crying Water" (Hamblen).
9.36: Instrumental—2YA Salon Orchestra, (a) "Spanish Serenade" (Wright); (b) "Spinning Song" (Mendelssohn).

9.44: Trio—Misses Nora Gray, Mollie Fenton and Mrs. P. Ramsey, with orchestral accompaniment, "Bird Songs at Eventide" (Coates).

Quartet—With orchestral accompaniment, Waiata Quartet, "Sleep Gentle Lady" (Bishop).

9.50: Instrumental—2VA Salon Orchestra, "Reconciliation" (Fletcher); "Latest Dance Novelties."

10.0 : God save the King.

# 3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, AUGUST 20.

3.0 : Gramophone recital.

3.15: Lecturette "Meals on a Tray," talk prepared by the Home Science Extension Service of Otago University.

4.25: Sports results. 5.0 : Children's hour.

5.0 : Children's hour.
6.0 : Dinner music session (Polydor)—
Paul Godwin's Orchestra, "Aubade" Serenade (Schweitzer) (19512);
"The Divorced Lady" Medley (Fall) (19521); "Lotus" Waltz (Ohlsen) (23223); "Alsatian Country Dance No. 1" (Merkelt) (21210).
Great Symphony Orchestra, "The Master Miner" (Zeller) (23315).
Mandolin and Lute Band, "Per Aspera ad Astra" (Urbach) (21624).
Paul Godwin's Orchestra, "Smitten" (Ziehrer-Hruby) (21709); "Alsatian Country Dance No. 2" (Merkelt) (21210).
Berlin State Opera Orchestra, "Knight Passman Ballet" (Strauss).
Paul Godwin's Orchestra, "Bells of Vineta" Waltz (Lindsay-Thiemer).
Mandolin and Lute Band, "Turkish March" (Mozart) (21624).
Paul Godwin's Orchestra, "Flower Song" (Lange) (21709); "Refoicings"
March (Schweitzer) (19512).

7.0 : News session.

7.30: Talk—Mr. J. M. Barnett (Superintendent of Reserves), "Forestry," under the auspices of the New Zealand Forestry League.

8.0 : Chimes. Specially recorded International Programme: Dr. Eugene Ormandy and His Salon Orchestra. International Singers. Abroad with the Lockharts.

Weather forecast and station notices.
International talk—Mr. Wm. Machin, "International talk—Mr. wm. Machin,"

Ambassadors of Melodyland. Hywide and Handsome.

Nat Brusiloff and His Lido Venice Orchestra.

God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, AUGUST 20.

SILENT DAY.

# Friday, August 21

# 1YA, AUCKLAND (875 KILOCYCLES)—FRIDAY, AUGUST 21.

3.0 : Chimes. Selected recordings.

3.15: Literary selection.

5.0 : Children's session, conducted by Nod and Aunt Jean.

6.0 : Dinner music session (Polydor)-

Paul Godwin's Orchestra, "Potpourri of German Folk Songs" (19424);
"The Girl of the Black Forest" (Jessell) (19523).
Mandolin and Lute Orchestra, "Minuet in G" (Beethoven) (21622).

Mandolin and Lute Orchestra, "Minuet in G" (Beethoven) (21622). Paul Godwin's Orchestra, "Suite Orientale" (Popy): (1) Les Bajaderes, (2) Au Bord du Gange, (3) Les Almees, (4) Patrouille (19465-6). Herman Finck and His Orchestra, "Waldteufel Memories" (arr. Finck) Mandolin and Lute Orchestra, "Norwegian Dance" (Grieg) (21622). The Opera Orchestra, Berlin, "Hungarian March in C Minor" (27213). Paul Godwin's Dance Orchestra, "From Ear to Ear" (Morena) (19623).

7.0 : News and market reports.

7.30: Sports talk.

7.40: Talk—Mr. George Graham, "Maori Bird Lore," under the auspices of the New Zealand Native Bird Protection Society.

8.0 : Chimes. Overfure—Debroy Somers Band, "The Desert Song" (Col.).
8.9 : Contraito—Mrs. L. M. Keven, (a) "A Summer Night" (Thomas), (b)

"My Rose" (Malcolm).

8.15: March—Orchestral Octet, under direction of Harold Baxter, "Punjab" (Payne); selection, "Pink Lady" (Caryll).

8.28: Baritone—Mr. Morris T. Schroder, (a) "Friend o' Mine" (Sanderson), (b) "The Unknown Land" (Day).

8.34: Accordion—Mr. R. A. McMilne, "Irish, Scotch, and English Jigs and Hornpipes" (trdtl.).

8.44: Chorus—The Parlophone Variety Company, "An Imaginary Broadcast." 8.52: Orchestral - The Orchestral Octet, Intermezzo and Nocturne from

"Midsummer Night's Dream" (Mendelssohn).

9.0: Evening weather forecast and announcements.
9.2: Novelty—The Asquiths, "Twenty-Minute Drawing-Room Entertainment"
9.22: Two pianos—Fairchild and Ranger, (a) "Twinkletoes" (Patter), (b)

"To Spring" (Grieg) (Bruns. 3976).
9.28: Contralto—Mrs. L. M. Keven, (a) "The Toby Jug," (b) "The Old
Springt" (Armodal)

9.28: Contralto—Mrs. L. M. Keven, (a) "The Tody Jug," (b) The Old Spinet" (Arundel).

9.34: Entr'acte—The Orchestral Octet, "Flirtation" (Cross); intermezzo, "Dreams" (Hurst).

9.43: Baritone—Mr. Morris T. Schroder, "A Perfect Day" (Bond).

9.47: Balalaika—Balalaika Orchestra, "Gorskaja, (a) "Stand ein Birkenbaum," (b) "Volga Folk Song" (trdtl.) (Poly 20592).

9.53: Waltz—The Orchestral Octet, "Beiuns Z'Haus" (Strauss).

10.0 : God save the King.

# 2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, AUGUST 21.

10.0 : Chimes. Selected gramophone recordings.

11.12: Lecturette-"Fashions."

12.0 : Lunch hour music.

2.0 : Selected recordings.

3.30 and 4.30: Sporting results to hand

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

5.0: Children's session, conducted by Uncle Jim.
6.0: Dinner music session (Polydor)—
Paul Godwin's Orchestra, "The Jolly Robbers" Overture (Suppe)
(19490); "Stephanie Gavotte" (Czibulka) (19486); "Feldblumen"
(Westling) (21407); "Suite Ballet" (Popy): (1) Entree Mazurka,
(2) Pizzicati, (3) Valse Lente, (4) Largo, (5) Final Galop
(19485-6); "Avant de Mourir" (Boulanger) (21407).

H. G. Amers and the Eastbourne Municipal Orchestra, "Tarantelle"
(Saint-Saens) (05033); "Coppelia Ballet Fantasy" (Delibes).

State Opera Orchestra, Berlin, "Othello Ballet" (Verdi) (66454); "La
Dame Blanche" (Boieldieu) (66390); "Turkish March" (Mozart),
Paul Godwin's Quintet, (a) "Popular Song," (b) "Tale" (Komzak).

7.0: News session, market reports and sports results.

7.0: News session, market reports and sports results.
7.40: Lecturette—Dr. J. Gibb, "Disarmament Conference."
8.0: Chimes. Overture—2YA Orchestrina (Conductor, Signor A. P. Truda). "Medley Overture" (Danks).

"Medley Overture" (Danks).

8.8: Baritone—Mr. S. Evelyn Rodger, with violin obbligato, (a) "The Link Divine" (Piccolomini), (b) "Mate o' Mine" (Elliott).

8.14: Banjo band—Mrs. H. G. Reeves and her banjo band, (a) March, "Let-Her Go" (arr. Bloy), (b) medley, "Irish Medley" (arr. Reeve).

8.22: Mezzo-soprano—Miss Gladys Barton, (a) "Ring, Bells, Ring" (Day), (b) "Prelude" (Ronald).

8.28: Selection—2YA Orchestrina, "Stop Flirting" (Gershwin).

8.38: Humour—Mr. W. J. McKeon, "Expert Assistance" (from "Suburban Days") (Browne).

Days") (Browne).

8.44: Baritone—Mr. S. Evelyn Rodger, "Garden of Allah" (Marshall).

8.48: Waltz—2YA Orchestrina, (a) "Soiree d'Epe" (Waldteufel), (b) "Les Deux Pierrot Amoureux" (Drigo).

9.0: Evening weather report and station notices.
9.2: Mezzo-soprano—Miss Gladys Barton, "Songs My Mother Sang."
9.6: Banjo band—Mrs. H. G. Reeves and her banjo band, selections (a)
"Popular Choruses" (arr. Reeve), (b) "Mexican Ride" (Grimshaw).
9.14: Humour—Mr. W. J. McKeon, "How to Live to be Two Hundred" (from "Novembra Novele") (Legacek)

"Nonsense Novels") (Leacock).

9.20: Dance—2YA Orchestrina, "Venetian Dance" (Rich); Dance Oriental,
"Roxala" (Arnold).

9.30: Dance music programme (Brunswick)—

Foxtrots—Jesse Stafford and His Orchestra, "Ragamuffin Romeo" (De Costa) (4824); "I'm Sailing on a Sunbeam" (Dreyer) (4630);

(De Costa) (4824); "I'm Sailing on a Sunbeam" (Dreyer) (4630);
"A Bench in the Park" (Yellen) (4824).

9.39: Waltzes—The Thematics Orchestra, "Giovanna" (Kountz) (4297).
Regent Club Orchestra, "The Moonlight Reminds Me of You" (Kahn),

9.45: Vocal—Marion Harris, "Wasn't It Nice?" (Young) (4806).

9.48: Foxtrots—Colonial Club Orchestra, "It's You I Love" (Davis) (4621),

Jack Denny and His Mount Royal Hotel Orchestra, "WhipPoor-Will" (De Voll) (4794).

Waltz—Castlewood Marimba Band, "A Night of Love in Hawaii."

9.57: Foxtrots—Meyer, Davis's Hotel Astor Orchestra, "Blue is the Night."

9.57: Foxtrots—Meyer Davis's Hotel Astor Orchestra, "Blue is the Night."

Colonial Club Orchestra, "Why?" (Davis) (4621).

Jesse Stafford and His Orchestra, "I'm Following You."

Waltzes—Regent Club Orchestra, "Dancing with the Tears in My, Eyes" (Dubin) (4795).

Castlewood Marimba Band, "My Heart Belongs to the Girl Who Belongs to Somebody Else' (Sherman) (4821). 10.12: Foxtrots—Hal Kemp and His Orchestra, "Give Yourself a Pat on the Back" (Butler) (4807).

Tom Gerun and His Orchestra, "Absence Makes the Heart Grow Fonder" (Lewis) (4829).

Bob Haring and His Orchestra, "I Still Remember" (4788).

Tom Clines and His Music, "Wasn't It Nice?" (Young).

Colonial Club Orchestra, "Stein Song" (Co..ord-Fenstad).

Waltz—Castlewood Marimba Band, "Down the River of Golden

Dreams" (Klenner) (4820).

10.30: Foxtrots-Meyer Davis's Hotel Astor Orchestra, "Nobody Cares If I'm Blue" (Clarke-Akst) (4802), Hal Kemp and His Orchestra, "If I Had a Girl Like You."

Meyer Davis's Hotel Astor Orchestra, "Ro-ro-rollin' Along."

10.39: Vocal duet—Al and Pete, "That's Why I'm Jealous of You" (Rose). 10.42: Foxtrots—Tom Clines and His Music, "You Darlin" (Woods) (4814).

Jack Denny and His Music, "You Darlin" (Woods) (4814).

Jack Denny and His Mount Royal Hotel Orchestra, "Dream'
Avenue" (Tobias) (4788).

Tom Clines and His Music, "You for Me" (Jason) (4814).

"Be Careful With Those Eyes" (Woods) (4813).

10.54: Waltzes—Castlewood Marimba Band, "My Reveries" (White) (4820).

Regent Club Orchestra, "Because There's a Change in You."

# 11.0 : God save the King. 3YA, CHRISTCHURCH (980 KILOCYCLES)-FRIDAY, AUGUST 21.

2.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's session.

Dinner music session .--Dinner music session.—
The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
Heerman Trio, "Pierette" (Chaminade) (Bruns. 4228).
Brunswick Hour Orchestra, "Only a Rose" (Hooker, Friml).
Symphony Orchestra, "Eva" Medley (Lehar) (Poly. 27018).
New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowski) Brunswick Concert Orchestra, "The Perfect Song" (Breil).

Symphony Orchestra, "Frederick" Medley (Lehar) (Poly. 27070). New Light Symphony Orchestra, "Spanish Serenade" (Bizet). Brunswick Concert Orchestra, "Sylvia" (Speaks) (Bruns. 4632). Heerman Trio, "Dalvisa" (Sandby) (Bruns. 4228). Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger). News session.

T.O : News session.

7.80: Talk—Mr. D. E. Parton, "Tree Trimming." 8.0: Chimes. Overture—Dajos Bela Orchestra, "Viennese Waltz

8.0: Chimes. Overture—Dajos Bela Orchestra, "Viennese waitz roupourr!" (Robrecht) (Parl. A4169).
8.8: Tenor—Mr. David McGill, with Octet accompaniment, (a) "At Dawning" (Cadman), (b) "Just For To-day" (Seaver).
8.14: Orchestral—Studio Octet (Conductor Harold Beck) (a) "Zampa" Overture (Herold), (b) "Love Is Like a Song" (Yeomans).
8.26: Entertainers—The Two Rascals, (a) "I Don't Care a Lot For a Lot of It" (S. Bennett), (b) "Chin Wag," (c) "Piano Improvisations."
8.27: Contralto—Miss Kathleen Bond, with Octet accompaniment, (a) "A Summer Night" (Goring Thomas), (b) "Still As The Night."
8.43: Plano novelty—Miss Maisle Ottey, "Polly" (Zamecnik).
8.47: Tenor—Mr. David McGill, with Octet accompaniment, "I Hear a

S. Tenor nevery—MISS Maisie Ottey, "Folly" (Zamecnik).

8.47: Tenor—Mr. David McGill, with Octet accompaniment, "I Hear a Thrush at Eve" (Cadman).

8.51: Orchestral—Studio Octet, (a) "Egyptian Dance" (Ansell), (b) "Love's Old Sweet Song" (Molloy), (c) "Waiata Poi" (Alfred Hill).

8.59: Contralto—Miss Kathleen Bond, with octet accompaniment, "Rhapsodie" (Dr. C. A. Jarman).

9.3 : Evening weather forecast and station notices.
9.5 : Talk—Mr. E. Iveagh Lord, "The Story of the Golden Coast."
9.20: Entertainers—The Two Rascals, (a) "A Vagabond Lover" (Donaldson), (b) "Chin Wag," (c) "Piano Improvisations."
9.28: Piano novelty—Miss Maisle Ottey, (a) "Coaxing the Piano" (Zoe Confrey) (b) "Fascinating Vamp" (Nussbaum).
9.34: Gramophone Lecture-Recital by Karl Atkinson, "The Midas of Melody"
10.4 : God save the King

0.4 : God save the King.

## 4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, AUGUST 21.

\$.0 : Afternoon session.

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

5.0 : Children's hour, conducted by Aunt Sheha.
6.0 : Dinner music 'session (Columbia)—
Symphony Orchestra, "Poet and Peasant" Overture (Suppe) (05044).
Garde Republicaine Band, "The Two Pigeons" (Messager) (02924).
Johann Strauss and Symphony Orchestra, "Morgen Blatter."
B.B.C. Wireless Symphony Orchestra, "La Boutique Fantastique."
Plaza Theatre Orchestra, "Pearl O' Mine" (Fletcher) (01638).
Albert W. Ketelbey's Concert Orchestra, "In a Fairy Realm" Suite (Ketelbey): (a) The Moonlit Glade; (b) The Queen Fairy Dances;
(a) The Gromes' March (02694/5).

(c) The Gnomes' March (02694/5). Carde Republicaine Band, "The Two Pigeons" Pts. 3 and 4. Johann Strauss and Symphony Orchestra, "Blue Danube Waltz."

Albert W. Ketelbey's Concert Orchestra, "Bells Across The Meadows."

Plaza Theatre Orchestra, "Bal Masque" Valse Caprice (Fletcher).

7:0 2 News session.

7.40: Talk—Dr. Duncan Cook, under auspices of Department of Health, "Prevention of Goitre."

80 : Chimes. Overture—Percival Mackey's Band, "The Vagabond King." 80 : Baritone—Mr. Arthur W. Alloo, (a) "To-morrow" (Keel); (b) "Vagabond" (Ireland).

bond" (Ireland).

8.15: Popular melodies—Arthur Gordon's Orchestra, "It's a Great Life" (Whiting), "The King's Horses" (Gay).

8.21: Humour—Mr. Lester F. Moller, "How To Attain Old Age" (Leacock).

8.26: Song, patter and dance—"The Radiettes" (a) "Make Yourself a Happiness Pie" (Perkins), (b) "April Blossoms" (Stothart).

8.36: Trumpet—Mr. Ira Coughlan, "Lucille" (Code).

8.40: Duet—Misses E. and J. Ritchie, "Ye Banks and Braes" (Moffatt).

Songano—Miss E. Ritchie "June Is Celling" (Sanderson).

Soprano-Miss E. Ritchie, "June Is Calling" (Sanderson). 8.45: Popular melody—Arthur Gordon's Orchestra, "Medley "Medley of Popular Numbers" (Brown and Dubin). 8.56: Contralto—Miss Lucy G. James, "The Ballad Monger" (Martin). 9.0 : Evening weather report and station notices.

9.2 : Accordion duo—Gellin and Borgstrom, (a) "Darby and Joan" Waltz (Gilbert), (b) "Rio Negro" Tango (Juarez) (Poly. 22038).

2.10: Humour—Mr. Lester F. Moller, "Guy De Vere Plays Football" (West).

7.16: Waltz—Arthur Gordon's Orchestra, "Old New England Home."
Foxtrot—"When I Take My Sugar To Tea" (Fain).

9.24: Mezzo-soprano—Miss J. Ritchie, "Sing Merrity To-day" (Phillips). Duet—Misses E. and J. Ritchie, "Sing! Sing! Bird on the Wing."
9.30: Banjo—Mr. H. Stokes, "Barcarolle" (Offenbach, arr. Stokes).

2.34: Song, patter and dance—"The Radiettes," "Don't Be So Unkind."

2.34: Song, patter and dance—"The Radiettes," Don't be so Unkind.
2.39: Baritone—Mr. Arthur W. Alloo, "Mountain Lovers" (Squire).
2.42: Chorus—The Jolly Old Fellows, "Rag Time Memories" (Reg. G20861).
2.48: Popular melodies—Arthur Gordon's Orchestra, (a) "I Miss a Little Miss" (Seymour), (b) "You Are The Melody" (De Sylva).
2.54: Contralto—Miss Lucy G. James, (a) "A Dream of Delight" (Nicholls),

(b) "Still As The Night" (Bohm).

9.59: March-Polydor Cavalry Band, "Foot Defile" (Konemann).

10.2 : God save the King.

# Saturday, August 22

1YA, AUCKLAND (875 KILOCYCLES)—SATURDAY, AUGUST 22.

3.0 : Chimes. Relay of Description of Rugby Football Match from Eden Park, Representative Match-Hawke's Bay versus Auckland

5.0 : Children's session, conducted by Cinderella.

: Dinner music session (Parlophone)-Edith Lorand's Orchestra, "Tales of Hoffman" Fantasia (Offenbach). Dajos Bela String Orchestra, "Goldregen" (Waldteufel) (A4238). Otto Dobrindt and His Symphony Orchestra, "Speak Not of Love

Otto Dobrindt and His Symphony Orchestra, "Speak Not of Love Eternal" (Granichstaedten) (A4275).

Dajos Bela Orchestra, "I Pagliacci" Selection (Leoncavallo) (A4090). Sandor Joszi Orchestra, "Polo" (Fetras) (A2851).

Berlin State Opera House Orchestra, "Rustle of Spring" (Sinding). Dajos Bela Orchestra, "Delirien" Waltz (Strauss) (A4182); "Count of Luzembourg" Waltz (Lehar) (A4182).

Sandor Joszi Orchestra, "Marionette's Wedding March" (Rathie). Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).

Berlin State Opera House Orchestra, "Praeludium" (Jarnefeldt).

Berlin State Opera House Orchestra, "Galand Silver" (Lehar) (A4238).

Mitia Nikisch and His Symphony Orchestra, "Madelon"—Dream Waltz. Mitja Nikisch and His Symphony Orchestra, "Madelon"-Dream Waltz.

7.0 : News and market reports.

7.40: Talk-Mr. T. L. Lancaster, M.Sc., F.L.S., N.D.H.N.Z., "Shrubs." Under the auspices of the Auckland Horticultural Society and New Zealand Institute of Horticulture.

8.0 : Chimes. Relay from the Auckland Town Hall of the Municipal Band Concert, under the conductorship of Mr. Geo. Buckley.

Military march—The Band, "Pomp and Circumstance, No. 5" (Elgar);
Overture, "Egmont" (Beethoven).
Song—Mr. E. J. Thomas, "The Bandolero" (Stuart).
Cornet solo—"The Shepherd's Morning Song" (Suppe).
Selection—Band, "Siegfried—Idyll" (Wagner).

Selection—Band, "Siegrized—Idyll" (Wagner).

Song—Mrs. A. Allan, "Spring's Awakening" (Sanderson).

Waltz—The Band, "Roses of the South" (Strauss).

Piccolo—Mr. Hal C. McLennan, "The Lark's Festival" (Brewer).

Song—Mr. E. J. Thomas, "Mandalay" (Speaks).

Rhapsody—The Band, "Norwegian Op. 19" (Svendsen); Ballet, "Dance of the Hours" (Ponchielli).

The Bond "Einlandie" (Sibelius): March "Abanico"

Tone poem—The Band, "Finlandia" (Sibelius); March, "Abanico." 10.0 : Programme of dance music (Polydor)

Foxtrots—Marimba Original Excelsior de Guatemala, "El Enganado." Ben Berlin's Dance Orchestra, "There's Only Room for One

Love" (May) (23535). Paul Godwin's Dance Orchestra, "I'm Longing For Some-

thing" (Hollander) (28536). 10.9 : Waltz—Ilja Livschakoff's Dance Orchestra, "Mother Needn't Know." 10.9: Waltz—Ilja Livschakoff's Dance Orchestra, "Mother Needn't Know."

Foxtrots—Ben Berlin's Dance Orchestra, "If Ifs and Ands Were Pots
And Pans" (Stolz) (23611).

Ilja Livschakoff and His Dance Orchestra, "The Brave Little
Tailor" (May) (22923).

10.18: Vocal—Clem Williams, "Old Fashioned Girl" (de Sylva).

10.21: Tangos—Ilja Livschakoff's Dance Orchestra, "Your Lips Were Mine in
My Dreams" (Marbot) (23546).

Ben Berlin's Dance Orchestra, "What's the Time?" (May).
Paul Godwin's Dance Orchestra, "Pimy, My Best Friend Is
You" (Ortuso) (23653).

10.30: Waltz—Paul Godwin's Dance Orchestra, "That's You" (Molto).
Foxtrots—"Mother Goose Parade" (Brean) (23327).

Foxtrots—"Mother Goose Parade" (Breau) (23327).

Ilja Livschakoff's Dance Orchestra, "I Would I Could Be Your Lover" (Dostal) (22923).

10.39: Vocal—Clem Williams and Des Tooley, "You Are the Melody."

10.42: Tangos—Ilja Livschakoff's Dance Orchestra, "My Heart is at Your Control of Co

Feet" (Schmidt) (23546).

Paul Godwin's Dance Orchestra, "Don't Leave Me" (Hollander) (23536); "Parting" (Blech) (23653).

10.51: Foxtrots—Hja Livschakoff's Dance Orchestra, "Don't Fear the First

Kiss" (Stolz) (23701). Paul Godwin's Dance Orchestra, "Dancing Puppets" (Rust). Marimba Original Excelsior de Guatemala, "Aguilas Mexicanas" (Jose Escobar) (21901).

11.0 : Sports results.

11.10: God save the King.

# 2YA. WELLINGTON (720 KILOCYCLES)—SATURDAY, AUGUST 22-

3.0 : Relay of Rugby Football Match from Athletic Park.

5.0 : Children's session, conducted by Aunt Molly.

6.0: Dinner music session (Columbia)—

J. H. Squire's Celeste Octet, "The Fly's Courtship" (Squire).

B.B.C. Wireless Military Band, "Dance of the Tumblers."

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

Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov).

Columbia Symphony Orchestra, "Idiilo" (Lack) (01076).

Albert W. Ketelbey's Concert Orchestra, "Cockney Suite." (1)

Albert W. Ketelbey's Concert Orchestra, "Cockney Suite." (1) A State Procession; (2) The Cockney Lover (Ketelbey).

Debroy Somers Band, "Hungarian Medley" (arr. Somers) (01862).

B.B.C. Wireless Military Band, "Golliwog's Cake Walk" (Debussy).

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

J. H. Squire's Celeste Octet, "The Ants' Antics" (Squire) (D0308).

Ketelbey's Concert Orchestra, "Cockney Suite." (3) At the Palace de Dance; (4) Elegy; (5) Bank Holiday (Ketelbey) (05053/4).

Columbia Symphony Orchestra, "Spring Song" (Mendelssohn).

News session, market reports and sports results.

7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. R. J. Waghorn, M.A., Lecturer, Teachers' Training College, a W.E.A. Lecturette, "The Origin of the Solar System."

8.0: Chimes. Overture—Band of Royal Air Force. "Songs of Britain."

8.8 : Baritone—Mr. Claude Moss, with orchestral accompaniment, (a) "Boat Song" (Ware); (b) "A Brown Bird Singing" (Haydn Wood),

8.14: Selection-Salon Orchestra (Conductor, Mr. M. T. Dixon), "The Student Prince" (Romberg).

826: Soprano-Mrs. Amy Dunn, (a) "The Cuckoo" (Lehmann); (b) "Sing, Sing, Blackbird" (Phillips).

8.32: Hawaiian instrumental—Harmony Four, (a) "You're Driving Me Crazy" (Donaldson); (b) "Medley of Choruses" (arr. French); (c) "Kalua" (Kern).

8.40: Humour-Mr. Will Yates, "Radio Good Nights" (arr. Yates).

8.50: Selection-Salon Orchestra, "Tina" (Rubens).

9.0 : Evening weather report and station notices.

9.2 : Baritone-Mr. Claude Moss, with orchestral accompaniment, "In a Monastery Garden" (Ketelbey).

9.6: Hawaiian instrumental—Harmony Four, (a) "Bye, Bye, Blues" (Hamm); (b) "Beloved" (Kahn and Sanders); (c) "Hine e Hine." 9.14: Chorus—Debroy Somers Band, "It's a Lovely War" (arr. Somers). 9.22: Selection of old-time songs—Salon Orchestra, "In Olden Days" (Ball). 9.30: Soprano—Mrs. Amy Dunn, (a) "An Open Secret" (Woodman); (b) "Who Knowe" (Pall)

'Who Knows?" (Ball).

9.36: Scotch humour-Mr. Owen Pritchard, "That's the Reason Noo I Wear

a Kilt" (Lauder).

9.42: Accordion—E. Jahrl, "Sailor's Waltz" (Reg. G20842).

9.46: Violin—Mr. W. Haydock, with orchestral accompaniment, "Violin Song."
Hawaiian medley—Salon Orchestra, "Sunset Land" (Kawelo); "Latest Dance Novelties."

10.0 : Dance programme (Columbia)-Foxtrots-Ben Selvin and His Orchestra, "The Rogue Song" (Stothart). Stellar Dance Band, "Harmony Heaven" (Vincent). Paul Tremaine and His Orchestra, "There's One More River to Cross" (DO98).

Waltz-Guy Lombardo and His Royal Canadians, "Lazy Lou'siana

Moon" (Donaldson) (DO128).

10.12: Foxtrots—Rhythmic Troubadours, "Without You, Emaline" (De Rose)
(Reg. G20764); "You're the Sweetest Girl" (Lombardo).
Guy Lombardo and His Royal Canadians, "Where the Golden Daffodils Grow" (Archer) (DO128)

Daffodils Grow" (Archer) (DO128).

10.21: Vocal—Art Leonard, "Ten, Twenty, Thirty Years Ago" (O'Hagan).

10.24: Foxtrots—Ipana Troubadours, "Blue is the Night" (Fisher) (DO125).

Rhythmic Troubadours, "I'm in the Market for You."

Ipana Troubadours, "Whippoorwill" (De Voll) (DO125).

10.33: Waltzes—Stellar Dance Band, "I'll Always Be Dreaming of Mary."

The Columbia Photo Players, "Dream Lover" Waltz.

Foxtrots—Ben Selvin and His Orchestra, "When I'm Looking at You."

Rhythmic Troubadours, "My Future Just Passed" (Whiting)

10.45: Vocal—Art Leonard, "Around the Corner" (Kahn) (Reg. G20760).

10.48: Foxtrots—Paul Tremaine and His Orchestra, "Swing Low Sweet

10.48: Foxtrots—Paul Tremaine and His Orchestra, "Swing Low Sweet Chariot" (arr. Tremaine) (DO98).

Fred Rich and His Orchestra, "For You" (Roemheld).

The Columbia Photo Players, "My Love Parade."

Fred Rich and His Orchestra, "Dream Avenue" (Richman).

11.0 : Sporting summary.

11.10: God save the King.

# 3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, AUGUST 22.

2.50: Relay of Rugby League Football from Monica Park.

5.0 : Children's hour.

Dinner music session (Polydor)-Dinner music session (Polydor)—
Paul Godwin's Orchestra, "Polish Temper" (Nedbal) (19608).
Paul Godwin's Trio, "For You" (Czibulka); "Melodie" (Denza).
Paul Godwin's Orchestra, "Kismet" (Yamada) (V40281).
Efim Schachmeister's Orchestra, "Dark Eyes" (Schachmeister). Enm Schachmeister's Orchestra, "Dark Eyes" (Schachmeister).
Paul Godwin's Orchestra, "Hearts and 'Diamonds."
Paul Godwin's Quartet, "Serenata" (Becce) (21344); "Adoration."
Polydor Orchestra, "Berlin As It Laughs and Weeps" (Conradi).
Paul Godwin's Orchestra, "Love in Idleness" (Macbeth) (B40261).
Efim Schachmeister's Orchestra, "Kasbek" (Schachmeister) (20453).
Paul Godwin's Orchestra, "Short But Delicious" (Schreiner) (19576) 7.0 : News session.

7.30: Sports results.

Talk—Mr. C. W. Hervey, under the auspices of the New Zealand Bird Protection Society.

8.0 : Chimes. Overture—Arthur Roseberry's Band, "Wonder Bar" selection. 8.8 : Cornet—Mr. N. G. Goffin with Salon Orchestra, "In an Old-Fashionel Town" (Squire).

8.12: Humour—In song and story—Mr. Geo. Titchener, (a) "Silly (Tom Clare), (b) "Leave Her Alone With Them" (Osborne).

(Tom Clare), (b) "Leave Her Alone With Them" (Osborne).

8.22: Orchestral—Salon Orchestra (Conductor, Mr. Francis Bate), (a) "Pas De Fleurs" (from "Naila Ballet") (Delibes), (b) "Liebesfreud."

8.31: Tenor—Mr. Douglas Suckling with Orchestral accompaniment, (a) "Love is Mine" (Gartner), (b) "The Little Irish Girl" (Lohr).

8.36: Banjo—Michele Ortuso, (a) "Lollipops" (Reser), (b) "Teasin' the Frets" (Collicchis) (H.M.V. B3651).

8.38: Sketch—The Mascots, The Adventures of Vi and Joe—"Rent Free."

8.58: Contralto—Mrs. F. Nelson Kerr, "Golden Days" (Sullivan).

9.1: Evening weather forecast and station notices

Evening weather forecast and station notices.

23 : Orchestral-Salon Orchestra, "New Sullivan" Selection (arr. Godfrey) 9.13: Humour in song and story—Mr. Geo. Titchener, "Bed, Beautiful Bed." 9.18: Piano—Patricia Rossborough, "Frederica" Selection (Lehar).

9.24: Tenor—Mr. Douglas Suckling with Orchestral accompaniment, "Mary."
9.28: Cornet—Mr. Norman Goffin with Orchestra, (a) "Alice Where Art
Thou?" (Ascher), (b) "The Garden of Your Heart" (Doral).

9.36: Contralto—Mrs. F. Nelson Kerr with Orchestral accompaniment, (a)
"Killarney" (Balfe), (b) "When You Come Home" (Squire).
9.43: Humour—Horace Kenney, "A Music Hall Trial Turn" (Kenney).
9.52: Orchestral—Salon Orchestra, (a) "Londonderry Air" (arr. Roberts),
(b) "Poupes Valsante" (Poldini).

10.0 : Dance music (H.M.V.) .-

Foxtrots—Jack Hylton and His Orchestra, "The King's Horses."
Ted Weems and His Orchestra, "My Baby Just Cares For Me" (Kahn) (EA800).

Nat Shilkret and His Orchestra, "Dixiana" (Caldwell).

Ted Weems and His Orchestra, "A Girl Friend of a Boy
Friend of Mine" (Kahn) (EA800).

10:12: Waltz—Nat Shilkret and His Orchestra, "Dancing With Tears In My

Eyes" (Dubin) (EA812).

Foxtrots—The High Hatters, "Anchors Aweigh" (Zimmerman).

Jack Hylton and His Orchestra, "Adeline" (Nicholls).

Jack Hylfon and His Orchestra, "Adeline" (Nicholis).
The High Hatters, "The Mug Song" (Gaskill) (EA765).

10.24: Vocal—Aileen Stanley, "Swinging in a Hammock" (Seymour).

10.27: Foxtrots—Nat Shilkret and His Orchestra, "How Are You To-night in Hawaii?" (Leslie) (EA819).

Nat Shilkret and His Orchestra, "Mr. and Mrs. Sippi."

Green Brothers' Marimba Orchestra, "Lo Lo" (Feist).

Nat Shilkret and His Orchestra, "Why Have You Forgotten Walkiki?" (Kahn) (EAS19).

10.39: Waltz—International Novelty Quartet, "Jolly Fellows" (Volistedt).
Foxtrots—Marimba Centro Americana, "Forget You? Never."
International Novelty Quartet, "Knocked 'Em in the Old

International Novelty Quartet, "Knocked 'Em in the Old Kent Road" (Ingle) (Zono. 5667).

10.48: Vocal—Aileen Stanley, "I Love You So Much" (Kalmar) (EA808).

10.51: Foxtrots—Ben Bernie and His Orchestra, "It's a Lonesome Old Town" (Tobias) (Bruns. 4943).

Waring's Pennsylvanians, "Little White Lies" (Donaldson) (EA812).

Ben Bernie and His Orchestra, "Au Revoir—Pleasant Dreams" (Meskill) (Bruns. 4943).

11.0 : God save the King.

# 4YA, DUNEDIN (650 KILOCYCLES) -- SATURDAY, AUGUST 22.

2.45: Relay of Association Football Match played at Logan Park, Dunedin.

Children's Hour, conducted by Aunt Anita.

Dinner music session (Polydor)-Berlin State Opera House Orchestra, "Cosi Fan Tutte" Overture. Berim State Opera House Orchestra, "Cosi Fan Tutte Overture. Efim Schachmeister's Dance Orchestra, "Second Waltz Medley." Symphony Orchestra, "Frasquita" Medley (Lehar) (27025). Paul Godwin's Orchestra, "First Love" (Michiels (27006). Symphony Orchestra, "The Last Waltz" Medley (Oscar Strauss). Paul Godwin's Orchestra, "Cinderella's Bridal Procession" (Dicker). Symphony Orchestra, "Eva" Medley (Lehar) (27025); "The Forester's Daughter" Medley (Jarno) (27049).

Paul Godwin's Orchestra, "Lake of Como" (Galos) (27006); "Throbbing Heart" (Eilenberg) (27007).

7.0 : News session.

7.40: Talk—Under auspices of New Zealand Native Bird Protection Society,
"Bird Month—It's Aims and Objects."

8.0: Chimes. Relay from Dunedin Town Hall of Farewell Concert tendered

by the Musical Societies of Dunedin to Mr. Chas. A. Martin, Mus. Bac. Societies participating: Royal Dunedin Male Choir, Dunedin Choral Society, Returned Soldiers' Choir, Leech Lyric Choir, Central Mission Choir, Maori Hill Presbyterian Church Choir, Dunedin Orchestral Society, Philharmonic Society, Society of Musicians of Otago, Ernest Drake Choir, Dunedin Musical Society, Knox Church Choir. Official accompanist: W. Paget Gale.

10.0 : Dance session (Polydor)-Foxtrots—Marimba Original Excelsior de Guatemala, "Vamos Al Merendon" (Jorga Vasquez Lanazabal) (21903).

Ben Berlin's Dance Orchestra, "First The Right Leg" (Kollo) (23394), "A Very Good Chum" (Heymann).

10.9: Waltz—Ilja Livschakoff's Dance Orchestra, "You've Been My Lucky

Star" (Stolz) (23400).
Foxtrots—Ben Berlin's Dance Orchestra, "Just You" (Nelson)

Foxtrots—Ben Berlin's Dance Orchestra, "Just You" (Nelson).

Paul Godwin's Dance Orchestra, "Both You and Myself."

10.18: Vocal—Jack O'Hagan, "Rambling Down The Roadway."

10.21: Tangos—Jose M. Lucchesi and His South American Orchestra, "Alla
Va El Caldo" (Pippo Rache) (22060), "La Voz Del Viento" (Lucchesi) (22059); "Amargura" (Lucchesi) (22060).

Waltz—Paul Godwin's Dance Orchestra, "Goodbye" (Spoliansky).

10.30: Foxtrots—Ben Berlin's Dance Orchestra, "To Begin With a Big Question Mark" (Heymann) (23533); "Hallo Sweet Lady" (Heymann) (23534); "My Heart Is Longing For You" (Heymann) (23533).

10.39: Vocal—Jack O'Hagan, "With My Guitar And You" (Harris) (DO130).

10.42: Tangos—Marimba Original Excelsior de Guatemala, "Nubes De Humo."

Ilja Livschakoff's Dance Orchestra, "The Tale of Good For-

Ilja Livschakoff's Dance Orchestra, "The Tale of Good Fortune" (Stolz) (23400). Jose M. Lucchesi and His South American Orchestra, "Sole-

dad" (Coppola) (22076).

10.51: Foxtrots—Marimba Original Excelsior de Guatemala, (21908); "Mi Perrito" (Pearly Chagnon) (21905).

11.0: God save the King. "Bomberos"

# 2YB. NEW PLYMOUTH (1230 KILOCYCLES)-SATURDAY, AUGUST 22,

2.50 to 4.30 p.m. (approx.): Sports relay.

6.30 to 7.30 p.m.: Children's session

7.30 to 8.0 p.m.: Sports results and talks.

8 to 10 p.m.: Concert and dance programme, with sports results.

# Sunday, August 23

# 14A, AUCKLAND (875 KILOCYCLES—SUNDAY, AUGUST 23.

8.0 8 Chimes. Selected recordings, and relay of portion of Organ Recital from the Town Hall, by the City Organist, Mr. Maughan Barnett.

40 8 Children's Song Service, conducted by Uncle Leo.

10 Relay of Divine Service from the Baptist Tabernacle. Preacher: The Rev. Joseph Kemp. Organist and choirmaster: Mr. Arthur E.

830: Relay of programme by the Puccini Society, under the direction of Signor A. T. Constantini.

Mottetto-The Choir, soloist Mrs. Menzies, soprano, "O Mario Salverza Nostra" (Capocci).

Nostra" (Uapocci). Soprano—Miss R. Paterson, "O Divine Redeemer" (Gounca). Tenor—Mr. T. Mitchell, "Aguns Dei" (Bizet). Baritone—Mr. Yates, "Gloria" (Pezzl).

Mottetto—The Choir, soloist Miss E. Herbert, soprane, ™Alma Redemptoris" (Schmitt).

Soprane with violin obbligato, Miss D. Jenkins, "Glory to Thes My God, This Night" (Gouned).
Choral—The Choir, soloist Mr. V. Mulgan, "Benedictus" (Constantini).

Mezzo-soprano—Miss Hinemoa Rosieur, with violin obbligato, "Av Maria" (adapted from the Meditation from "Thais") (Massenet). Duet—Mr. G. Fagan and Signor Constantini, "Crucifixus" (Faure).

Choral, for soprano, tenor and bass-The Choir, "Osacrum Consivium." Ohoral for three mixed voices—The Choir; Soloists, Miss H. Rosieur, Messrs. G. Fagan and S. Yates. Violinist, Miss I. Lockwood. Or-ganist, Miss K. O'Leary. "Pontifical Mass" (Monsignor Lawrence Perosi, conductor of Sistine Chapel).

10.0 : God save the King.

## 3YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, AUGUST 23.

? Afternoon session of Selected Gramophone Recordings.

2 Children's Song Service, conducted by Uncle George, and assisted by the Children's Choir from St. Giles' Presbyterian Church (Lyall Bay Section).

Relay of Evening Service from St. Thomas's Anglican Church. Preacher: Rev. C. V. Rooke. Organist and choirmaster: Mr. W. A. Gatheridge.

(approx.): Relay of Band Recital by the Wellington Municipal Tramways Band, from St. James' Theatre. (Conductor, Mr. E. Franklin). God save the King.

#### RVA. CHRISTCHURCH (980 KILOCYCLES)—SUNDAY. AUGUST 22.

8.0 : Gramophone recital.

5.30: Children's Song Service.

6.15: Chimes from Studio.

6.30; Relay from St. Andrew's Presbyterian Church. Preacher: Rev. J. Lawson Robinson. Organist: Mr. B. D. Lake. Choir Conductor: Mr. J. Maclean.

T.50: Musical recordings.

(approx.): Relay of programme from 4YA, Dunedin.

10.0 : God save the King.

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

8.0 : Afternoon session.

5.30: Children's Song Service, conducted by Big Brother Bill.

6.15: Instrumental recordings.

6.30: Relay of Evening Service from Trinity Methodist Church, Dunedin. Preacher: Rev. H. E. Bellhouse. Choirmaster: Mr. James Simpson.

7.45: Selected recordings.

8.15: Studio programme. Vocal portion presented by Mr. John T. Leech and

8.15: Studio programme. Vocal portion presented by all would a local many his Minnesingers, with Miss M. Caddie at the piano.

Overture—Salon Octet, "Stradella" (Flotow).

8.21: Chorus with orchestra—The Minnesingers, "Sing, Pretty Maiden." Contralto with orchestra—Miss Helen E. Roy, "Alas, Those Chimes."

8.28: Suite—Salon Octet, "The Conqueror" (German).

8.40: Chorus with orchestra—The Minnesingers, "Pretty Gitana" (Wallace). Baritone with orchestra—L. Harrison Stubbs, "The Mariner and His Bark" (Wallace).

8.46: Suite for strings—Salon Octet, "Suite for Strings and Plane," 8.57: Soprano and chorus with orchestra—Miss Noni Davidson and Minnesingers, "Tis the Harp in the Air" (Wallace).

9.0 : Weather report and station notices.

9.2 : Orchestra and chorus—Polydor Wind Orchestra, (a) "Stille der Nacht"; (b) "Lieb'ist's" (Kunze) (Poly. 23120).

9.8 : Tenor—Mr. John Leech, with orchestral accompaniment, "Yes, Let Me Like a Soldier Fall" (Wallace).

Soprano—Miss Anne White, with orchestral accompaniment, "Scenes

That Are Brightest" (Wallace).
9.13: Selection—Salon Octet, "Danse Macabre" (Saint-Saens).

9.21: Quartet with chorus and orchestra—Miss Anne White, Miss M. Kenward, Mr. J. Ferguson and Mr. T. D. White, "Health to the Lady."

9.25: Violin—Gustav Link, (a) "Swedish Airs" (Juon); (b) "Saltarella." 2.31: Baritone—Mr. W. Ruffell, with orchestral accompaniment, "There is a

49 Piano-Lilly Dymont, "The Juggler" (Toch) (Poly. 28577) 2.53: Duet and chorus with orchestra—Messrs. Ruffell and J. Simpson and the Minnesingers, (a) "I Am the King of Spain"; (b) "Oh, What

Pleasure" (Wallace). 9.00: Selection—Salon Octet, "The Derrish Entracte" (Marsden). 10.12: God save the King.

# IVA, AUCKLAND (875 KILOOYCLES) - SUNDAY, AUGUST 23.

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

BICSHBADAN CSININDAGSADARAN ASAMBABARSADI BIRHACI BANDHADI SHARING CILIH DURU CSIGARI DA KESINI DA KESINI DA K

# **Minimising**

# Interference

# No Substitute for a Good Aerial

RECENT research has conclusively proved the fallacy of the common belief that a short indoor serial is a desirable adjunct of the modern sensitive radio receiver, states the chief tion of Women and Children), Messrs. engineer of Philips Lamps, Ltd. (N.Z.).

For all but local reception there is as much difference in performance between outdoor and indoor aerials as Miss M. Hall (Secretary). between an expensive and a cheap set.

technique" has proved that there is no be eliminated at its source, but the listener himself can exert quite a useful measure of control of conditions at the receiving end.

The one object to be kept in view is obtaining the highest ratio of signal strength to interference level; means, therefore, of increasing signal or reducing interference is a step in the right strength strength is It has been established exdirection. perimentally that by far the greatest proportion of the radio interference experienced in towns, including the clicks and bangs caused by the making and breaking of electrical circuits, the crackling, rasping and whirring noises from electrical machinery reaches the receiver by way of the lighting and power mains, gas and water pipes, gutfrom the ground upward.

An indoor aerial operated right in the midst of the interference obviously be affected by it to a marked extent.

By adopting a high outdoor aerial we accomplish simultaneously a twofold effect, firstly by increasing the signai strength of the distant station and secondly we decrease the coupling between the serial and the ground interferences.

In addition to being well above the interference mentioned, a good aerial has the down lead carefully placed, remote from any power or telephone wires, house gutters, etc., while a really telephone good earthing system is well dtrow while, and attention to these points re sults in a great improvement in the ratio of signal strength to interference level, adding greatly to the enjoyment of distant broadcast programmes.

# Advisory Committee

# 3YA. Children's Sessions Committee

AT a meeting of the SYA Children's AT a meeting of the SYA Children's Sessions Committee, at which Mr. D. E. Parton (representing the Y.M.-C.A.) presided, there were present:—Mesdames W. H. Meddings (Y.W.C.A.), B. J. McLaren (National Council of Women), J. Schenkel (Mothers' Union), R. Tomlinson (Society for the Protec-W. A. Rumbold (Headmasters' Association), D. Dickson (Junior Scottish Society), C. S. Booth ("Chuckle"), J. MacKenzie (Station Director), and

An apology for absence was received from Mrs. James. Miss Hall ("Aunt The development of "interference Pat," children's sessions organiser) was welcomed on resuming duty after man-made interference which cannot sick-leave, and reference was made to the very efficient way Mrs. McLaren had carried on the sessions during that

time. Arrangements for visits to the Museum and Art Gallery were discussed. Among other places suggested as lending themselves to broadcast description were the old Provincial Buildings, The Sign of the Takahe, newspaper offices, and various factories. Talks on Maori stories and folk lore were also suggested and the chairman (former telegraph engineer) consented to give a talk later

on telegraphy.
"Aunt Pat" outlined programmes arranged for some time ahead. Numerous schools are assisting, and there were many willing helpers in various directions

Official visitors to the sessions durters, etc., these noises being propagated ing the coming month were arranged ťor.

> Simplify DX-ing, DX CLOCK

Box 1032, Wellington,

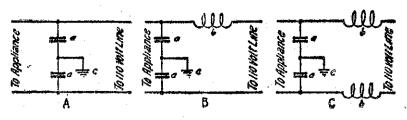
# SPECIAL VALUES

0-50 Pocket Voltmeters, 7/6. Now 5/-171 A.C. Tubes, for Electrics, 18/-.
Now 10/6

Tone Controls, for Push-Pull Sets, 19/6 Speaker Extension Cords. Speaker Extension Cords. 20ft., 2/ 50ft., Extension Cord Connecters Hydrometers—small, 2/3; large, 3/6 "C" Batteries, 4½-volt, 1/-, 3/9; 9v. 2/9 Spark Tester and Pencil, 1/6; large, 1/9 3-Valve Radio, complete .. £12/10/-Speakers from 37/6, less special discount

ROYDS-HOWARD CO., 253 Colombo St., Christchurgh It is much more satisfactory to do the job at the source as there are no doubt others likewise troubled by the noise.

AT the beginning of this article we mentioned the various sources of interference. If you know of any of these in the neighbourhood immediately suspect them. Noise from these can be easily stifled by the simple expedient of chokes and condensers. The condensers should be of one to four microflarads depending on the intensity of the noise, and of sufficient voltage test. Remember that in the case of an a.c. line the working voltage is just double that of the rated voltage. Thus a 240 main really has a voltage of 480, and thus the working voltage of the condenser must be able to accommodate this with safety. A 500 working would just do, but there is no margin of safety, so it should be increased to 750 or 1000 working. This means that the test must be 1000 or 2000.



a = .5 -2. Mfd. Condenser & & 2 MH. Choke e - Connection to Ground

Method of suppressing line noise at the point of origin. The choke is described in the text.

critical, it being sufficient to wind the interference can be minimised by folform full of wire of the proper size. A typical choke for a load of 2 amperes or less would be wound with approximately 560 turns of 18 wire d.c.c. wire. When heavier wire is used the spool dimensions should be increased. A simpler choke can be made by winding a solenoid coil with wire of the requi-

lowing the general lines previously laid down for aerials and earths.

Noise coming from the telephone can be rectified by the P. and T. Department.

In conclusion, do not be too ready to blame the power transformer outside your gate for noise. There are few pieces of electrical apparatus so innocent.

(Continued from page 12.)

Could any DXer tell me when WABC and WEAF may be best received?—"New Chum" (Dunedin).

| RECENTLY logged STR, Trafalgar,

ON July 26, at approximately 10.30 p.m., I heard a special broadcast from KFBI, Milford, Kansas, on 1050 k.c. (286 m.). Announcer mentioned a prize would

E.A.M. (Auckland): Re KGHF



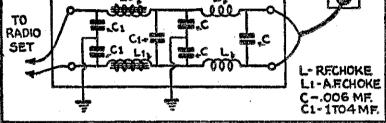
operating on 1280 kc. (234 m.). Latest verification from 1ZM, Manurewa, states that their power is 15 watts, frequency 1210 kc. (248 m.). The rebroadcast of W8XAL, Ohio, was very uncertain; static and fading were very bad.—"DX22A" (Kakahi).

COULD any DXers tell me at what N.Z. time KTIC, Hartford, and other main eastern American stations sign off Also, what is the best time to try for the Chinese stations?—"Amazon" (P.N.). When are going to hear from you again?—"Sandy."

KIBI, Millord, Karsas, on Lueu a.c. (200 m.). Announcer mentioned a prize would be given for best reports received. I found that reception of the rebroadcast by 1YA and 2YA of WSXAL, on August 5, was not so good as the broadcast by WLW on 700 k.c. (428m.). Did any other DXer notice this?—"DX1HB" (Hawke's Bay).

picked up by telephone lines and carried by "wired" wireless into the homes, where the h.f. current has only is on approximately 520m. (576 kc.). I a short way to jump to the set. Tram





A filter for the elimination of noises to be fitted at the set end of the a.c. mains. This should be encased in metal and connected with the ground.

The choke must be capable of pass- site gauge. About 150 turns should be ing all the current supplied or taken by the apparatus, and thus its wire must be carefully selected. No. 18 d.c.c. is suitable for anything up to 2 amps, 16 to 4 amps, and so on.

The coil indicated in the diagram is made by winding wire on a fibre, bakelite or paraffin-treated wood, or cardboard spool having a core diameter of 3-8ths of an inch, an outside diameter of 11in., and a winding space of 7-16ths of an inch wide. If enamelled wire is used, it is best to wind on in layers with insulating paper between the layers. Spools wound with cottoncovered wire should be treated with shellac or insulating varnish, and then baked. The number of turns is not

wound on a former with a three-inch diameter. Both chokes are air core and iron must not be introduced into them.

#### Further Causes.

TRAMWAY and telephone noises also call for attention. The former can be very persistent, and only by the close co-operation of the tramways authoritles can a really effective cure be brought about. Careful bonding of the rails and the installation of filters on the trams themselves are necessary, and though not expensive there is sometimes some reluctance to comply. Tramway interference is sometimes picked up by telephone lines and car-ried by "wired" wireless into the homes, where the h.f. current has only is

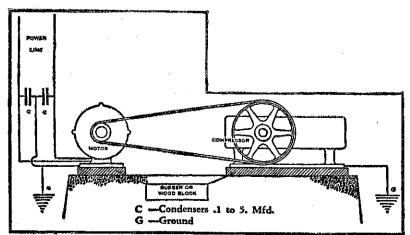


If so, our unique service for

Country Listeners will give your order prompt and accurate attention.

DROP THE C.A.S. A LINE

29 VENTNOR ST., SEATOUN, WELLINGTON



This diagram indicates the position of an interference filter with respect to the sparking motor,

Has any DX-er received this station on this frequency?—S.W. (Gisborne).

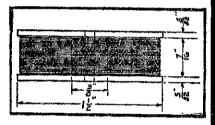
J.P.C. (P.N.): Re WLAC, 1470 kc. (204 m.), I received a circular from the Central Church of Christ, Nashville, Tennessee, stating that they were ville, Tennessee, stating that they were going to broadcast special services for Australia and New Zealand from July 19 to August 1 at 1 a.m. to 1.45 C.S.T. (6.30 to 7.15 p.m. N.Z. time). They hope to have suitable souvenirs for all who write to them. A recent letter from KELW, Burbank, California, stated that they are now on the air when KTM signs off, I a.m. to 6 a.m. P.S.T., and would appreciate reports. They operate on 384 m. (750 kc.). E.A.M. (Aukland): I think KTHS is correct. "T" could easily be mistaken for "G" and "S" for "F." Hot Springs is located in Arkansas.—M.B.S. (P.N.).

WDAG Amarillo, has installed a new transmitter, power 1 kw. WBAP. Fort Worth, can be heard every Tuesday evening until 5.30 p.m.—W.S.K. (Nel-

[W.S.K. forwards a letter received from station WLAC, "The Central Church of Christ," Nashville, Tennessee, Church of Christ," Nashville, Tennessee, in which they state they were putting over a special programme for Australian and New Zealand listeners from July 19 to August 1. Times as given by J.P.C.'s (P.N.) letter above. As W.S.K. mentions, the minister apparently does not realise the time it takes for a letter to reach. New Zealand, for the broadcast was scheduled for about three weeks after the date of his letter .- Ed.]

RECENT loggings include 4RK, Rock-hampton, 910 kc. (330 m.), and KOA, Denver, 830 kc. (361 m.). Can any DX-er supply the Intest schedule of Wangarui, Dannevirke, and Hamilton stations?—"Notnots" (Dunedin).

RECENT verification from station A RECENT verification from station 3KU, 231 m. (1300 kc.) states that they have been granted a B class permit. The station call will be 3SH, and it will operate on 277.8 m. (1080 kc.). They are continuing to operate 3KU as well.



A suitable choke for use in mains through which h.f. interference is transmitted.

Address is R. A. Hipwell, Swan Hill, Victoria. Low-powered Americans recently logged include: WDAG, Texas, 250 watts, 212 m. (1410 kc.); WKBF, Indiana, 500 watts, 214 m. (1400 kc.); WRR, Texas, 500 watts, 234 m. (1280 kc.); WRR, Texas, 500 watts, 234 m. (1280 kc.); kc.). I have received two cards from 4BC, one on the old frequency and one on the new. I have not received cards from 2CA, 3BY, 5DN, and 3WR, but am sending again, including a stamped and addressed envelope.—R.A.S. (Ma-

AT 12.3 9a.m. on August 2 I heard KMTR on the air, evidently on their early morning session. At 3.50 to 4 a.m. early morning session. At 3.50 to 4 a.m. on July 31 I nicked up the station mentioned by "DX5T," Okato, on 800 kg. (375 m.). Strength R2, but QRN was too noisy, and station could not be identified. Music could be heard through the noise. He was still on the air at 4.10 gm. when I closed down. On August 2, WGN, Chicago, was coming in at R2 on 720 kg. (416 m.). This is the station that is possibly heterodyning 2YA, though he would need to be much stronger to affect the latter.—"DXIT" (N.P.).

# Our Mailbag

(Continued from page 8.)

the foot again on the return journey nothing but one long bellow of thunder comes through the set—in fact, all-electric sets in Opoho, even a quarter of a mile from the tramline. Those in authority ignore all appeals to have the system repaired and earthed, stating emphatically that the tramways were first on the field and therefore radio must get along as best it can. They admit the tramway system could be fixed to give out only a system could be fixed to give out only a minimum of interference to radio, and also admit that the cost would be moderalso admit that the cost would be moderately light. They absolutely refuse to do anything, not even if radio listeners were to contribute a portion of the cost. Only a bombshell of Press agitation will move them. We would like to see "The Radio Record" and "The Radio Log" agitating for similar legislation to be passed in New Zealand as is law in several other countries. In some lands mothing electrical is allowed to interfare nothing electrical is allowed to interfere with radio reception. Trust that an abler pen than mine will come to the aid of listeners in similar districts to Opoho and fight for the rights of radio.—Notnats (DX48OC).

## Import Duty.

MR. BURT, of Kohukohu, in his letter in the "R.R." dated 7/8/31, said that the receivers are as cheap in New Zealand as in the United States of Am-Zealand as in the United States of America, but, according to a letter I have just received from U.S.A., this is not so. One well-known make of receiver is sold in New Zealand for £48, and this same receiver can be purchased in American for 45 dollars, or approximately £9. Another make which is sold in New Zealand at prices ranging from £49 to £55 is sold in U.S.A. for £24.—R.B. (Wellington).

#### More Popular Music.

GENERALLY I am well pleased with ENERALLY I am well pleased with the programmes broadcast by the A" stations, but a correspondent in the "R.R." brought up a point about the popular type of programme. These have, during the last month or two, faded away. The only popular broadcasts we get are on Friday, 1YA, with Reg. Morgan's Orchestra; Friday, 4YA, a little popular music; Friday, 4YA, a little popular music; Friday, 5YA; on Saturdays with E. Moody's Trio. Where are the old-time dances we had from 4YA once? Where are the good dance bands? once? Where are the good dance bands? when the plug is pushed in, the spring We all enjoy them when they do come moves away from a third spring and

ca. Could we not get some new dance records in the dance sessions? The present ones are good, but one gets tired of the same over and over again. I have no complaints about the afternoon sessions. Those from 2YA are especially good.—M.D.H. (Oamaru).

## **Answers to Correspondents**

SUBSCRIBER (Southland): Mr. and Mrs. Lockhart are the real names of the performers and are not the same as "Adam and Eve," whose names are not available.

BAKER (Russell) writes commend-A ing the enterprise of the R.B.C. in arranging the cricket broadcast. He wishes to thank especially Messrs. Ball and Drummond, of 2YA, for their impromptu broadcasts. Their efforts can more fully be appreciated when one realises that only a few years ago such achievements were totally unheard of

# Diagnosis of Radio

(Continued from page 15.)

and from the other to the tip of the circuit for the following:jack, which is insulated from the metal tubing. When we put the jack in the of a coil, the bottom of which is conplug the tip contacts the bent spring nected to earth. Now indicate an "A" and the body the sleeve, and so, by battery, show the two poles joined to pushing our phones or speaker tips either end of a fixed resistance. Draw into the two springs in the hollow a three electrode valve with a potenebonite, we can bring them into contact tiometer across the filament. Take the with the circuit of the set.

when the plug is pushed in, two other "Radio Record" and you will see if you springs are brought into contact with are right. one another. This is known as the single filament jack. The second set of springs cannot electrically contact the first set. A piece of ebonite or other insulating compound pushes the two springs together. If we connected a filament circuit to the two top springs these could be made to act as a switch every time we inserted or withdrew the plug.

A single closed jack is such that, when the plug is pushed in, the spring

breaks the contact. This lack could he used for a gramophone and radio combination.

The next type is the double filament jack. This is really a very complicated piece of apparatus. When the plug is pushed home several things happen at once. Two circuits are broken and two are closed simultaneously. The use of complicated jacks, such as these, unduly complicate and hamper wiring.

It is unwise to use a jack of this nature in order to plug in the first audio stage. If you want to be economical when you are using your set on a local station, arrange the nerial as we have shown in the "Outspan Five" and the "Radiogram" set, so that the radio valve can be cut out. You will find this will eliminate the jacking processes which, by complicating the wiring, quite spoil the set and make it unstable.

# Try This

As we have now very nearly come to the end of all the parts we can use in a radio set, let us have a little retube. In the tube are two springs, the vision. Take a pencil and paper and wire goes from one to the metal sleeve see if you can draw the theoretical

A crystal, aerial connected to the top centre tap to earth. Now turn back to The jack can be arranged so that the last two or three weeks of the

> Once we have completed the various parts of the set we shall go on to talk about how radio circuits are built up, and before long you will be drawing and understanding the different types of circuits used in radio work. Ϋ́on will find that you will naturally look at the theoretical circuit and not at the lay-out when you come to decide whether a set is good or not. Next week, too, we hope to deal with a few questions that were raised by one correspondent. He found that after reading the "Dlagnosis" he could go through his set and understand how everything was working until he came to the first audio transformer and found that it behaved in a manner in which it should not behave. But really, it is behaving correctly. We wonder if before next week he will be able to think out exactly what happens.

# Questions and Answers

(Continued from page 14.)

A.: Yes, but it would be preferable to use two formodensers, instead of the fixed condenser shown. A wave-trap will cut out only one station at one time, and you will have to alter it if you want it to set? sharpen up the other station.

W.J.H. (Wellington): It would be preferable to raise the lead-in end of your set. The experiment of cutting out the insulators would be worth trying. You may, however, pick up more noise, and the set would be less selective. Yet there are occasions when long aerials are satisfactory.

satisfactory.

2. Would an earth attached to a waterpipe with a 25ft. lead be better than a
in. copper tube wound with copper
wire, buried to a depth of 5ft, with an
insulated lead of 15ft, to the set?

A.: We are inclined to think the latter
would be the better.

3. The aerial and earth terminals on
the set are about an inch apart. Can
any leakage of waves occur through the
earth instead of getting the full power
to the set? Would binding with insulation tape be of any assistance?

A.: Theoretically a little power does
escape through the aerial and earth terminals being close together. It would be
better if you used armoured cable where
they approached one another and ground-

they approached one another and grounded the armoury. However, we do not think, taking everything into considera-tion, that this alteration would be worth while.

J. G.M. (Gisborne): Will I have to buy a license if I get a crystal set? A.: Certainly, all radio-receiving gear from the humble crystal set to the mighty super-heterodyne must be licensed. However, if you already have a set, you do not need to get another license.

L. J.A.H. (Napier): Could you give me the values of the following condensers:—Variable condenser with 17 plates? A.: It would depend upon the size of

each plate. It is probably a .00025.

2. With 28 plates — Probably a .0005.

3. Differential condenser, four moving and three fixed plates?

A.: You do not state whether they are separated by air or mica di-electric. they are mica di-electric it is in all probability a .0002.

A UDIO (Blenheim): Owing to my 40-foot aerial being well screened by trees, my set is not proving very efficient on DX work. Would the addition of a resonator make any appreciable difference to long-distance reception?

A.: It would help you slightly, but would not overcome the screening effect of the trees.

E.B.C. (Auckland): Could you supply the circuit of a screen-grid super let. adapter using battery valves in place of a.c.?

A.: We cannot make any promise in this respect, but will see what we can also be a second secon

A IRMAN (Paerata): Could you give me the qualifications necessary for (a) a "B" class station; (b) an experimental station?

mental station?

A.; A "B" class station operates on the broadcast band, and the license for such is issued to private firms or persons who guarantee to operate for a certain number of hours, and adhere to those hours. An experimental station is issued only in special cases, such as to electrical firms or advanced students in radio telegraphy, colleges, etc. It is rarely granted to private individuals, and only when it is considered the applicant is sufficiently advanced in radio engineering to experiment profitably.

PETER (Pahiatua): Could I put a battery-operated r.f. to my set and use the parts of a commercial one-valve

A.: It will not be practicable to do so.

# Mullard

Embodies all improvements known to Value Manufacturers.

# RADIO DIRECTORY

# What to Buy and Where

ACE & HAMMARLUND SETS, Johns, Ltd. Rectifiers Chancery Street, Auckland. WESTINGHOUSE

BURGESS RADIO BATTERIES, All Radio Dealers. LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,

Courtenay Place, Wellington.

MULLARD VALVES .... All Radio Dealers. RADIOLA RECEIVERS and Farmers' Trading Co., Ltd., Expert Radiola Service ..... Hobson Street, Auckland.

COUNTRY TOWNS.

PHILIPS VALVES AND APPARATUS .... All Good Radio Dealers.

# Short-Wave Topics

#### W3XAL and W3XL.

THE schedules of these stations to hand are as follows:—W3XAL, 49.18 metres, Tuesdays, 9.30 a.m. to 11.15 a.m., Wednesday, Thursday and Friday, 9.30 a.m. to 10.30 a.m., and daily from 3.30 p.m. to 5.30 p.m.; W3XL, 46.60 metres, Saturday and Sundays, 9.30 a.m. to 10.30 a.m., and 3.30 p.m. to 5.30 p.m., N.Z. time. N.Z. time.
ZL2ZX, Wellington.

ZL2ZX, 49.5 metres, "The Voice of Action," is on the air every Monday and Thursday from 7 p.m. to 11 p.m. Reports of reception are invited, which should be addressed to the Western Electric Company, P.O. Box 605, Wellington. lington.

G5SW, Chelmsford.

G58W, 25.53 metres, has increased its transmission, which are now as follow: Daily except Sunday and Monday, 6.30 to 11.30 a.m.; daily except Saturday and Sunday, 12 p.m. to 1 a.m.; Tuesday and Thursdays, late session of gramophone records, till 1.30 p.m.

W8XAL Programme for New Zealand.

THE short-wave station WSXAL, working on 49.5 metres, broadcast a special programme to be rebroadcast by 1YA and 3YA on Wednesday, August 5. A test commenced at 10 p.m. on that p.m. Reception in Wellington was spoilt by static and Morse interference, but volume was all that could be desired.

#### Is it EAJ25?

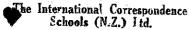
MR. E. HACKETT reports a station on about 50 metres from 11 p.m. on a recent Saturday night, till the early the early hours of Sunday morning. In between the musical items, which were of high standard, announcements were made by a lady in several languages, including English, to the effect that "This is the radio station EAR.—" The only station rear this wearleast this way. scatton EAR—The only station near this wavelength with a similar call is EAJ25, operated by the Barcelona Radio Club, which works on 50 metres. I have heard the same station as Mr. Hack-

# Thousands upon Thousands of Men have Risen to Better Jobs and Bigger Salaries as a Result of I.C.S. Instruction.

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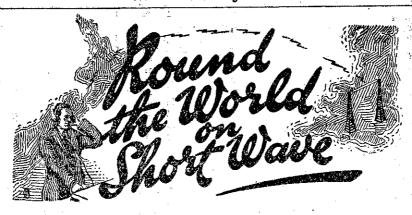
and the contract of the contra

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WELLINGTON



THIS page is conducted in the interests of shortwave enthusiasts. 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.

ett, but not clear enough to get a call, there being as a rule too much interference on this band.

# Log for Week Ending August 8

PMY, Java, 58.53 metres.—Saturday midnight R6, static very bad.

H.V.J. Vatican City. 50,26 metres.— Each morning from 6.30 a.m., R8, now at its best.

Moscow, 50 metres .- Good volume

each morning spoilt by a gurgling noise.

50 Metres (about).—Saturday from 11 p.m. at R5, spoilt by static, possibly EAJ25, or EAR station (Spain).

ZL2ZX, Wellington, 49.51 metres.— Tuesday, Wednesday and Thursday even-ings relaying 2ZW. Quality and volume

WSXAL, Cincinnati, 49.5 metres: special transmission for New Zealand from 10 p.m. on Wednesday, other evenings from 11 p.m. at R8, and Saturday afternoon.

W2XE, New York, 49.02 metres: Saturday, 4 p.m., R8, static very bad.
F31CD, Radio Saigon, 49 metres: Tuesday, Thursday and Saturday from just before 11 p.m. Good volume with native received.

W3XL, Boundbrook, 46.69 metres:
Saturday, R8 at 4 p.m.
REN, Moscow, 45.5 metres: Very good each morning till S a.m., with music and

PLW, Java, 36.92 metres: Tuesday and Saturday after 10.30 p.m., R9. Radio Maroc, Rabat, 32.26 metres: Monday, from 7.30 a.m., R9, quite good except for slight rapid fade. OXY, Denmark, 31.51 metres: R4 on

Saturday at 7.30 a.m.
WIXAF, Schenectady, 31.48 metres: A programme of band, orchestral, and concerted items were heard on Saturday af-ternoon from 3 p.m. till 3.30 p.m., from the after quarter-deck of the Argentine training ship Sacramento, lying at anchor in the Hudson River, New York, The concert, which was given by 46 Argentine

zeesen, Germany, 31.38 metres: At 7 a.m. on Wednesday an English translation of a speech delivered for reception in America on the financial position in Germany. This talk, it was announced, Germany. This talk, it was announced, was relayed in America by the N.B.C, network of stations. Volume was R8-9, as it is each morning at this time, it being

barely audible one hour earlier.

WIXAZ, Springfield, 31.35 metres:
Only heard on Saturday after 12 p.m.
R2-3.

PCJ, Holland, 31.28 metres: Thursday just audible at 6.30 a.m. to R8 by 7.30 a.m. Saturday morning about the same. The afternoon was quite good from 2 p.m. till 5.50 p.m., when they signed off. A now song, "Hello, Everybody," was put on for the first time.

VK2ME, Sydney, 31.28 metres.—The international programme on Sunday and

international programme on Sunday and Monday came in at splendid volume. EAQ, Madrid, 30.4 metres.—This station is to be heard each day from 12.45 p.m. to 1 p.m., at R8-9. Talk 'nly has always been heard till Saturday, when a record was put on, followed by "Hullos" and talk in Spanish. Just before closing at 1 p.m., the announcer said in English. "Good night, everybody." This was the only English heard.

FYA, Paris, 25.63 metres.—Saturday and Sunday, from 8.30 a.m. to R9, nearly all talk.

all talk.

G5SW, England, 25.53 metres.—
Reaches about R5 by 7.30 a.m., when
they close for 20 minutes. Still too weak
for reception at 11 p.m.

12RO, Rome, 25.4 metres.—Weak each
morning till after 7 a.m., when volume
increases rapidly to R8-9 by 7.30 a.m.

PCK, Kootwijk, Holland, 15.3 enetres.

—10.40 p.m. on Tuesday, very gushy at
R5.

On about 25.2 metres and 25 metres two stations are heard every morning, but have not been able to identify either; both are foreigners.

# N.Z. Short-wave Club Meeting

A MEETING and lecture was held in Messrs. Nimmo's Concert Hall, Wellington on Thursday, July 30, 1931, dress me the president, Mr. F. W. Sellens, being Shortwin the chair. The secretary was in his lington. usual position, but, owing to his injury, was assisted by Mr. Gordon Blong. Mr. F. Jakobsson moved a motion of appreciation of the secretary's faithful services in carrying on club business as usual despite physical injury and asked that the motion be recorded in the minutes.

A very interesting lecture on the penthode valve was given by Mr. Slade, by courtesy of Messrs. Philips Lamps Ltd. Mr. Slade delivered a masterly address despite the fact that he was under the difficulty of having to deliver the subject in a non-technical manner. With the aid of a blackboard and a skeleton valve, he introduced the subject step by step, and, in conclusion, described how it was used in a two-valve set merely by inserting the penthode and adding another wire to the B battery. A very hearty vote of thanks was accorded the lecturer.

# Short-wave Club Notes

T HAVE to apologise for delay in replying to correspondence, as, owing to an accident, I have to do everything left-

handed. I trust members and others will understand.

It is quite possible that next meeting will be an open members' night when each one can tell of something of interest. One member suggests bringing along a sample of a home-made "B" battery and a zinc sheet marked out; this is a good idea. One or two sets would also go well, and would be of assistance to constructors. Anyone interested in radio is invited to attend.

on looking up the minute book of the first general meeting I find that we have made a little over a member a day. One thing that occurs to me, a number of members are newcomers to radio, many of them have never even tackled broadcast; this speaks well for the infections enthusiasm of members.

With the advent of better reception we are kept busy these times. I have been night owl hunting, and find that 45 to 85 metres is a very busy place. There are a number of faint stations dotted around for DX kings to catch, and there are others which come in like a local. Despite the fact that Saigon is good speaker strength on two valves, there is a persistent howler who keeps at it until it

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closes down at 2.45 a.m.

A number of inquirers want to know the way to join the club. There are no restrictions, anyone interested in radio may join; the annual subscription is 5s. for anyone residing outside the City of Wellington.

I have to thank several members who sent me down photos. These have attracted attention here, and it gives us an idea of the member's outfit in case he writes down

about anything.

Mr. L. Saunders may be heard at the microphone of ZLIBC during the club broadcast from 7 to 8 p.m. Mondays. All shortwayers are asked to listen in to 1BC and ZL2AW Sundays from 10 p.m.

Short-wave Club, 274 Cuba Street, Wel-

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### Brotherly Love.

 $\Lambda$  MONG our classical examples of the devotion which sometimes exists between brothers and sisters, Charles and Mary Lamb, or William and Dorothy Wordsworth, may possibly be the most familiar. To these should certainly be added the names of T. B. Macaulay and his sisters Margaret and "My sisters are more to me than any sisters ever were to a brother," Lord Macaulay once wrote, and every page of his Memoirs, and every act of his life which had relation to domestic arrangements bears out break your own heart by trying to loves candlelight. the truth of the assertion. The love he bore them was passionately reciprocated, and the diaries and letters of these three are full of pleasing evidences that no sacrifice was too great on the part of the one for the other. "I think I was about twelve when I first became very fond of my brother," writes Margaret, "and from that time my affection has gone on increasing. I shall never forget my delight and enchantment when first I found that he liked talking to me."

#### To Blame or Not to Blame?

MORNING'S shopping last week made me wonder how the ordinary dressmakers are earning a living, much less making money. For the readymade frocks which many women buy from the peg and walk away with (which I know is bad construction, but haps several times, and, in the end, after postponements and delays, may not look as one fondly believed they would look. Perfectly charming frocks are to be had at less than one would pay for material and making, plus fatigue; but even while admiring them and feeling grateful for the convenience they suggest, one has a haif-guilty feeling about the private dress-makers. Yet in some cases they are to blame. They keep up their prices, irritate customers by breaking ap-pointments, and very often show a marked distaste to remodelling, which in these days is often a necessity. There are shining exceptions who deserve success in this life and monuments when they die, but there are many of the other kind, who mourn we buy ready-made clothes and spoil their business, yet offer no counter-attractions, so to speak, and are too short-sighted to realise the need to do

# Madame Walks in Broadcloth.

REDEERN was one of the first couturiers in Paris to foster broadcloth for evening modes. it is very fine and looks splendid this season in sky blue trimmed with black. One dress has the full skirt cut in deep scallops round the hem to correspond to the hemline of a hip-length cont lined with black velvet. Velvet also forms the high Medici collar and the bunch of black camellias that graces the point of a low-back decollete.

## To Those About to Write.

MY candid advice is—don't! Go and buy a sewing machine, or a knitting machine, or a washing machine, or even a mowing machine, and earn a steady living with it. Tap somebody else's typewriter until your fingers ache. Sell hairpins, hats or Hoovers from nine till six. Go on the Hoovers from nine till six. stage and dance until your muscles bulge, your heart palpitates and your morals show signs of strain. dishes in a restaurant, break records simmer again till the liquid is reduced



write!-A Woman Journalist.

#### The Gentle Art.

LORD MAYORS and other worthy gentlemen often get up in public and say that no girl should be allowed to marry unless she has a certificate to her ability to cook. There seems to be is occupied by a little camellia tree in a great conspiracy to emphasise the a bright green pot. magnitude of the responsibility of the housewife, to treat her as an object alternately of admiration and pity. Many housewives are ad-But why? mirable, and some, many, perhaps, are deserving of pity. But none because of the fact of being housewives. To cook a good meal is neither difficult nor dull. There is just the spice of uncertainty about the success of one's effort which makes any task interesting. The telephone bell may ring just as the milk for the custard is ready to boil rival to those which have to be thought is being cooked in the necessarily hot out, for material and style, fitted peroven, harden a little ding-most incalculable of all dishesmay be either stodgy or sloppy. But on the other hand, care and forethought prevent most calamities, and every slight error is a piece of wisdom gain-ed. There is variety in housekeeping; there is need for brains, and scope for considerable imagination; there is the pleasant sense of "being in charge," without any worry or responsibility beyoud one's capabilities.

#### Decorative Indeed.

PLOWERS down the centre of the

on land or sea or in the air-but don't old silver candlesticks if the hostess That popular hostes. Lady Cambridge, whose husband is the Queen's nephew, has original views on disper-table schemes. has She silver (andlesticks down the centre and flowers confined to the four corners of the table—the fashionable place for flowers at the moment. Each corner

#### Humour of Sorts.

WHAT is the first qualification necessary in the ideal husband? Scores of women have been giving their views on this subject in the Press, and the majority appear to attach more importance to a sense of humour than anything else. able to see the funny side of troubles and difficulties is indeed a very useful gift, and it is generally believed that women are less generously blessed with a sense of humour than men. Some rather crude comparisons lend support to this contention. A man, for stance, will not get angry over marks about his baldness or his fatness. If there is anything funny in such references he will laugh and enjoy them, but it would be dangerous to venture on such personalities with a woman. At the same time that is not to say that women have no sense of humour. In a general way they have it as highly developed as men.

## The Friend of Kings.

BESIDES the presents that the King received on his birthday was a surtable are no longer the thing, acprise gift from the Duke of Gloucester cording to many smart hostesses. This in the form of a charming little Scotimportant position is now occupied by tish terrier. Dougal of Waroona, anything decorative, from the modern who has a very aristocratic pedigree, glass tank, complete with gold fish to is fourteen months old, but was the

DICTREMATERESTANDA DE PROGRANCO DE DE MICOLOGIA DE DESCRIBOR DE PROGRAMA DE PR

# Our Cookery Corner

Cherry Scones.

Rub loz. of butter or margarine lightly into 4oz. of flour, and then add one tablespoonful of castor sugar, half a teaspoonful of cream of tartar, a quarter of a teaspoonful of bicarbonate of soda, and 11oz. of chopped glace Beat up and stir in sufficherries. cient egg to form a stiff dough. Roll out thinly, cut into small rounds, and bake in a sharp oven for about 10 min- pint of the juice from a tin of apritites.

#### Jellied Veal.

For this you will require about 21b of knuckle of veal. Cut up the meat, wash and put in a saucepan together with the bones and cover with cold water. Simmer gently from three to four hours when any meat that is in the bones should come away easily. Chop up any pieces that are necessary. Season to taste with pepper and salt, Break add about 1 teaspoonful of mace and

to the requirements for your mould. Pour in the strained juice of a lemon and stir, then pour into a wetted mould and leave to set. If liked, a slice or two of hard-boiled egg and tomato can be dropped in before the mould sets. Serve with salad.

## Apricot Snow Cream.

Soak loz of powdered gelatine in l cots. Place the drained apricots in a freshly rinsed glass dish. Beat the yolks and whites of two eggs separately, adding 2oz of sugar and a few chops of almond essence to the yolks. Gently warm the gelatine and fruit juice till the former is dissolved and beat into the yolk mixture. Then add two tablespoonfuls of shredded cocoanut and the stiffly whisked egg whites. Blend well together, and then pour over the apricots and leave in a cool place to set. Use one or two half apricots to cut up and decorate with.

winner of many prizes before he attained the age of one year, and spent, the week-end with the Duke of Gloucester at Tidworth. The Duke has already made him a member of the Dogs Bath Club in Beauchamp Place, and his portrait is being painted for the club-room.

## A Mirror Held to Nature.

IF you have any odd circular pieces of plate glass or mirror in the house, have a circular piece, about 5in. in diameter, cut out of the centre and place the remaining section over a flower bowl. The flowers, which should be supported by a glass block at the bottom of the bowl, rise up through the centre gap and mirror themselves in the glass rim round. The effect seen with parrot tulips and a big Lalique bowl is much lovelier than it sounds, and it can be even heightened by having the piece of glass mirrored on the inside and left clear on the out-

#### Effective Colour.

IN Paris, brightly-coloured shirts as well as white are worn with dark suits. Yellow crepe de chine with navy is smart, or the new red-pink with brown. Darkest olive-green shares popularity with black for street suits, and looks charming with a splash of colour for the shirt and scarf. Tilleul or banana-green is good with the dark suit, and mushroom with brown. The large coloured beads should take similar colouring. But with the white and paler tone in washing blouses and decorative cambric a necklet of white china beads shares with crystal a certain favour.

#### Decorative Indeed.

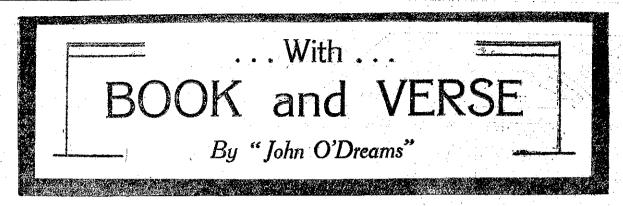
MILK jugs should have a special cleaning at least once a week during the summer. Place at the bottom of the jug five or six small pieces of soda, and pour on to them boiling Leave to stand until cold. water. Rinse with hot water until clear and give another rinsing with two or three grains of permanganate of potash dissolved in water. Rinse in hot water again until quite clear. The jugs will be perfectly sweet and disinfected if kept like this.

Vacuum flasks can be cleaned by crushing up a few eggshells and putting them into the flask with a little vine gar. Shake well and half fill with water. Allow it to stand for a short while, then shake again, empty the contents, and invert in a jug to decide Do not replace the cork in the after using, as this tends to make it musty.

Brown shoes may be darkened by rubbing them with a cut potato or with a banana skin. Remove stains with a weak acid, such as vinegar or lemon

juice mixed with water.

Chamois leather gloves are reappearing, and to wash them proceed as follows:-Cleanse by gently kneading in warm, soapy lather, and when this process is completed place the gloves in a towel and squeeze out the moisture, then blow into the fingers in order to fully distend them. The last clean soap should not be rinsed out; it is needed to soften the leather; and the gloves should be hung in the wind, and not the sun, to dry. Before becoming quite dry they should be drawn on the hands and coaxed into shape.



# **Jottings**

MANY modern novels describe in considerable and boring details "smart" parties. A legitimate field, no doubt, for present-day fiction, but, like everything else, extremely tiresome if there is a surfeit. Mr. Powell's "Afternoon Men" adds another to the list, but arresting, in spite of its milleu, because of its distinctly promising style. It is true we have the silliest of silly people, some of whom nearly fall in love, and some nearly commit suicide. A few endeavour to be artists, and one and all are fond of gin. Yet with these materials the author has managed to construct an attractive book, its satire being all the more poignant because so cunningly hidden. Mr. Powell's future literary career should be interesting.

AS all the world knows, Mrs. Pankhurst and her daughters won their position in history by their adoption of militant tactics in place of the constitutional and peaceful methods of the earlier agitators. The campaign they led will never be forgotten. It was remarkable for its ingenuity, courage, and perseverance, and for its discipline. In no campaign, outside the annals of warfare, have these qualities been so conspicuous. Not even fiction can pro-

vide a parallel. In her book "The Suffragette Movement" Sylvia Pankhurst has given a brilliant explanation of the part played by the militant suffragettes. She has not adequately explained the hostility of Asquith or the indifference of Mac-Donald. Miss Pankhurst's book has to be regarded principally as a source of information for use by future historians. Her evidence, like that of all ex parte witnesses, has to be weighed before it can be accepted. But she is a good witness. Without restraint she written down her impressions and ations of her colleagues and contemporaries. What she says about the pre-war politicians of all three parties, much of it damning character, throws new light on dark patches in the politics of the period. Most readers of the book, I imagine, will be left won-dering whether the victory of votes for women was worth the sacrifices of the struggle. The answer is an emphatic affirmative. Proof lies in the new legislation which has been enacted since the armistice. Never has there been so short a period in which so many changes have been made in the interests of women and children, as witness, for example, widows and orphans' pensions and the developments in maternity and child welfare. Therein can be found justification enough and to spare for the women's movement.

# Our Fortnightly Book Review

# FIRST ATHENIAN MEMORIES

By Compton MacKenzie

THOSE who know Mr. Compton Macin social absurdity will be amazed at the versatility shown in recollections of his war years, beginning with those vivid "Gallipoli Memories," and followed by the volume now under and political life in Athens in 1915.

Invalided from active service for the time being, Mr. Mackenzie took a post in the Diplomatic Service, and this extremely interesting and entertaining literary olla podrida is the result of his experience of the grandeur that was Greece, truly at that time a country of violent intrigue, dazzling light and Cimmerian shadow, hatred and despair and hectic pleasure. But, turning from the plots and counterplots that prevailed, many will read with delight his digression into memorles of his youth.

Under treatment in a Greek clinic, perforce exiled from world of action, he lives in the past: "The white room of the clinic was thronged for a moment with shapes and rich with colour. Leander pink, scarlet and lilies of the Magdalen cox, authentic blazers. vivid Rambler ties, black and white of Soccer team." And again: "The rhododendrons in Branksome woods . . the darkness under pollarded limetrees beside the lake at Lucerne . . . mauve violets among the melting snow of a square in Interlaken. . And Geneva, shimmering silver in the haze of summer. . . Chasing butterflies all day long across the red soil of the Lyonais, and reading in Tachnitz editions a novel a day . . . the dewy lips of Rhoda Broughton's delicious heroines, hard riding with Henry Kingsley, amazed adolescent from 'The Yellow Aster.' . . . and what seemed a revelation of life ... my own first story written in a jasmine arbour."

These recollections, however, are merely embroideries, the prime purpose of the book being to set out the state of things prevailing in Greece at that disastrous time. Surely never was there so much muddlement, confusion, cross-purpose, and deceit. Espionage and counter-espionage were rampant, the city being criss-crossed with a network of spies from Royal entourage to lowest slum.

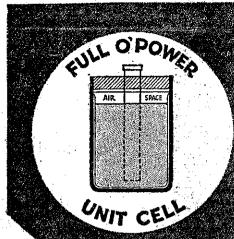
The book is crammed with exciting kenzie only as author of brilliant incident, and the whole tale spun with novals and delightfully amusing studies an engaging frankness, for Mr. Mackenzie throws discretion to the winds. and records impressions and opinions with amazing lack of caution; always, however, retaining a clear eye for beauty of mind or spirit. "She stopped review, which is an account of social in the glittering dust, and, raising her arm above her head, spoke with such passion against the proposal of the Entente to cede Cavalla to Bulgaria that I forgot she was a mortal girl not yet twenty, and could have fancied I was listening to Pallas Athene herself pleading before Zeus the cause of her beloved Greeks. She was tall. complexion was the burnt rose of an old vase. Her profile was fit for a goddess, and a less impressionable person than myself might have imagined that she was speaking with the inspiration of divinity. Perhaps while she was declaiming against the iniquitous hypocrisv of great nations I began to weave a romance about her; but if I did it could not have been as rich a romance as that which in reality wove round her, for this was the beautiful girl King Alexander married and who is now her Highness the Princess Aspasia of Greece."

> Mr. Mackenzie is an acute critic of innumerable potentialities and powers with whom he comes into intimate contact, and his summing up is entirely without fear or favour, and oftentimes vastly entertaining, despite devastating perils and tragedy that stalked the streets of the classic city of which so many have dreamed dreams. The author's practised eye and pen have enabled him to compile an absorbing story. His allusions to Venizelos, the "inspired Crefan," are of extreme interest, and he is very critical of French policy. Ambassadors, kings, and rulers of Kings, it is all one to Mr. Mackenzie; in they go into his net, and emerge embellished by comment induced by intuitive divining of the secret springs of action and wide knowledge of human affairs. His picturesque phraseology and long acquaintance with the service of diplomacy and tortuous windings of political intrigue, together with his great gift of narrative and fascinating flair for digression. combine to make him a prince of chroniclers.

ALTHOUGH "Prisoners Under the Sun" is a German novel, most of the characters are English, and behave as Englishmen may be expected to behave in what are sometimes accurately described as the great open spaces. In the Sudan, it seems, life can be exceedingly difficult, and men living away from their fellows may quite easily lose their reason. Herr Bauer tells his story quietly and sanely, and it reads like the truth. There are three white men in love with the same white woman; and there is a native woman as well. The theme is old, the setting new. An interesting book, not least on account of its detailed pictures of life in strange surroundings.

ON the "jacket" of Mr. Douglas Sladen's new novel there is a photograph of a very beautiful statue which may be seen in the British Museum. It is now supposed to have been the portrait of a slave by Praxiteles, and it forms a fifting prelude to Mr. Sladen's story of Arethusa, a high-born Grecian girl who is carried off by pirares from Syracuse and sold into slavery in Asia. She is ultimately captured by Alexander the Great, who comes near to making her his queen, and her various adventures in and out of the harem are picturesquely described. To capture the atmosphere of those ancient days can have been no easy task, but Mr. Sladen has made a close study of his period, and he brings strange, pleasure-loving civilisation very near to us. It is a dramatic and dignified story.

"TOBSTER QUADRILLE" by Theodora Benson and Betty Askwith, is nothing if not modern. In it we meet Nina and Tony, married lovers, who find each other as amusing and charming as in days of courtship, in spite of grown-up daughter Caro, who is a raving beauty and spoilt girl, intensely determined to have her own way in everything, including her marriage with a brilliant, uncouth Socialist. Him she adored, and for a time the ill-assorted mion was a happy one. Naturally enough, they soon tired, not of each other, but of the different worlds to which they belonged. No snob, but fascinating, young, gay, and of the world worldly, Caro did her best with her restless impossible husband, with his great ambitions and deplorable lapses into those faux pas which spell consternation in the polite world. Love was not enough, susceptibilities were ruffled, good taste outraged, and the mondaine Caro flees for consolation to a man of her own world, and all ends more or less, well. A hackneyed theme, but the novel is written with vim and grace, and a sure touch on the way of a man with a maid, and vice versa.





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