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AND
ELECTRIC HOME JOURNAL

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Price, 3d.

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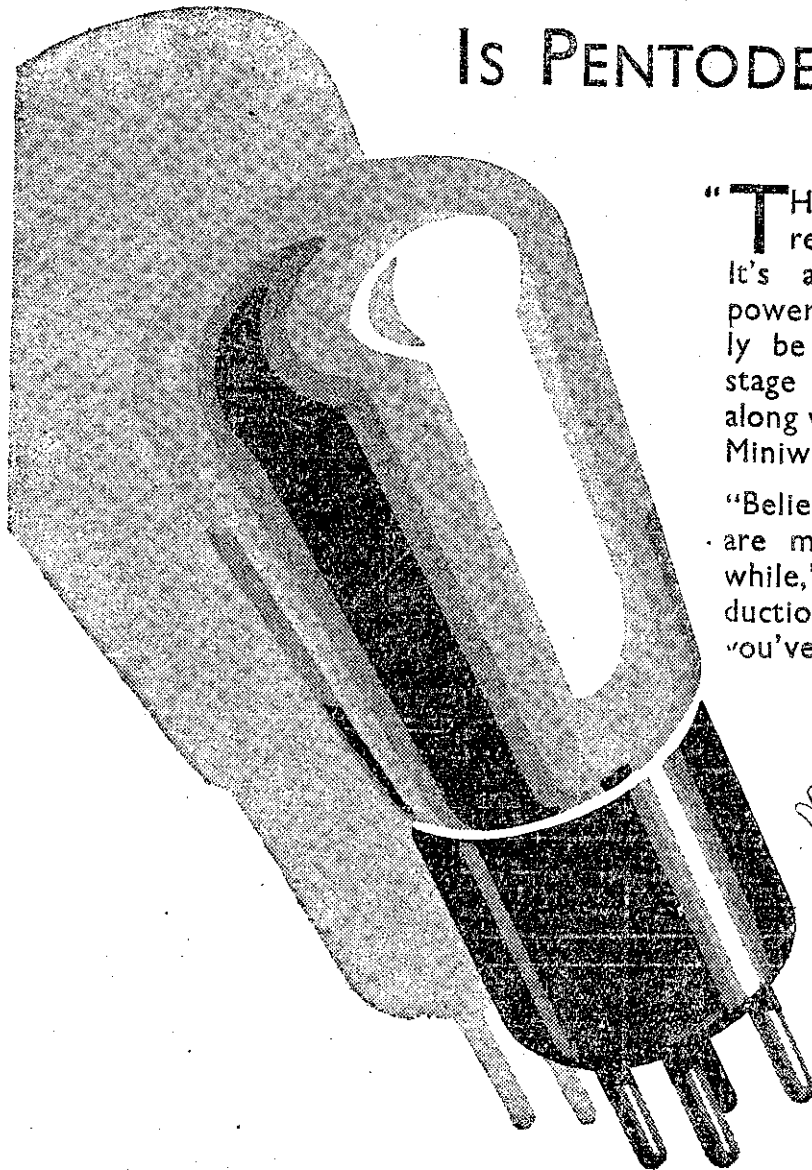
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WS4R

Advertisement of Philips Lamps (N.Z.) Ltd. (Radio Division) Hope Gibbons Building, Courtenay Place, Wellington
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Looking-in on AMERICAN TELEVISION

by

Raymond M. Bell

an

Enthusiastic

Television

Amateur

THE steady development of television during the last five years owes much to its pioneers on both sides of the Atlantic. In this comparatively short time, Baird in Great Britain, and Jenkins in the United States, have accomplished much. The former first demonstrated television on January 27, 1926, and on March 31, 1930, regular television broadcasts were commenced from the London station.

In the United States Jenkins, as early as 1925, had broadcast and received silhouette movies, but the first official demonstration of television in the United States did not occur until April 7, 1927, when the Bell Laboratories in New York City saw and heard a programme from their station W3XN, situated at Whippany, New Jersey. Following this, W2XI—WGY broadcast, early in 1928, studio scenes which were picked up successfully on a number of home television receivers in Schenectady, while in May of that year WGY began broadcasting television signals as a part of its daily programme. This was, however, later discontinued.

The pioneer American television station W3XK is located at the Jenkins' Laboratories in Washington, and has been working on a regular schedule since July 2, 1928. On that date it commenced to broadcast radio movies on 46.7 metres every Monday, Wednesday and Friday night from 8 to 9 p.m.

During the latter part of 1928, in addition to the two stations previously mentioned, others in Pittsburg, New York, Boston and Chicago began experimenting. Almost at the same time WGY broadcast the first tele-

vision drama from its studio, and since the pioneer broadcasts of that year steady progress has been made in American television. To-day there are at least seven such stations on regular schedule, all operating between 100 and 150 metres. They are assigned to four definite bands; and each station may transmit over a band 100 k.c. wide.

Silhouette and half-tone movies and studio scenes are regularly broadcast from the majority. Frequently these transmissions are synchronised with sound broadcast from near-by stations.

Among the leaders in the American television world are the Bell Laboratories of New York City under Dr. Ives, and the General Electric Laboratories at Schenectady under Dr. Alexander Son. The latter company on May 22, 1930, gave a successful public demonstration of television on a screen six feet square at one of the Schenectady theatres.

A TYPICAL evening's broadcast from the Jenkins' station, W3XK, consists of about a dozen short silhouette movies of various types, some of which are very amusing. To enable lookers-in to tune in their receivers properly the first fifteen minutes of each evening's transmission consists of a little girl bouncing a ball.

There are as yet few commercial televisors on the market. One company sells two models, one at about 17 dols. (£3/10/-) and another at about 82 dols. (£16/10/-). A special short-wave set with resistance coupled audio-amplification is sold for about 36 dollars (£7/5/-) to be used in connection with the televisor. Home experimenters, however, can obtain from the Jenkins' Laboratories, at a cost of about 1½ dollars, a kit on which good results may be obtained. It is estimated that there are at least 10,000 lookers-in in the United States at the present time.

The home-built equipment used by the writer comprises a short-wave detector with three stages of resistance coupled audio-amplification. The last valve, in the plate of circuit of which is incorporated a neon lamp, has 300 volts on the plate. A Jenkins' kit is used for the televisor.

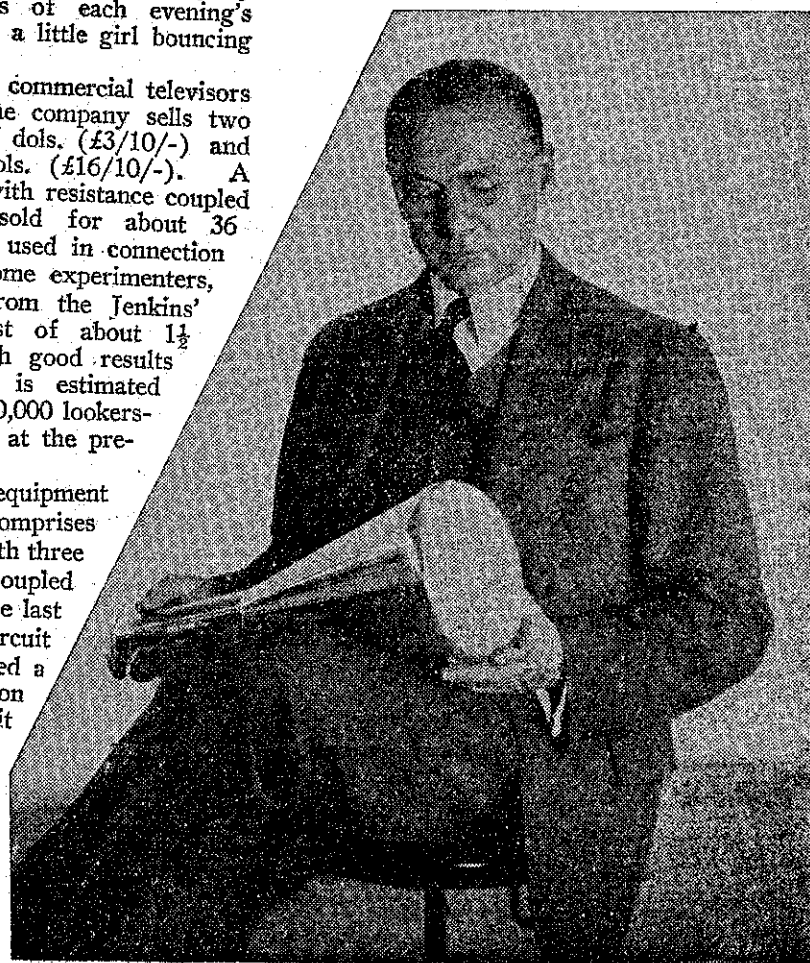
IN front of the neon lamp is a 12-inch scanning disc of 48 holes, which scan from left to right and from top to bottom.

This disc is connected by a friction drive to a motor running at a speed of 900 r.p.m. Synchronisation is controlled entirely by the operator, but after a little practice one is able to keep the pictures properly framed and synchronised.

One soon learns to tune. When a station is tuned in and one looks in little black figures are seen, often with surprising detail, on a pinkish background, about one-inch square. Static, together with various other types of interference are easily recognised by their occasional characteristic distortion of the image. The research laboratories have devised a reception system far ahead of this, but it is as yet too expensive and complicated for the home experimenter.

In a field so new as television there is much to be done. Some goals which have yet to be attained are: Larger pictures, automatic synchronisation, better detail, high amplification without distortion, and a television set of reasonable price that can be used conveniently in the home. But television is still in its early stages of development, and experimenters in Great Britain, the United States, and other parts of the world are not discouraged by the obstacles which must be overcome. They are progressing steadily, and are confident of making important advances in the years that lie ahead. Five years ago television was a dream; to-day it is a reality; in ten years it will be found in millions of homes.

The bottle-like object shown in the photo. on page 1 is a cathode ray tube which forms the receiver of the new type (*Contd. on p 2.*)



Children's Sessions

2YA.

MONDAY.—The session to-night will be conducted by Uncle Jeff, and he has arranged for a fairy train to take a journey to Fairyland. There will be fairy songs and music. The "Kipling Lady" will be present.

TUESDAY.—Jumbo and Toby are arriving by aeroplane to-night, with all the cousins, who are to entertain this evening. Miss Mavis Campbell has coached all these little artists.

WEDNESDAY.—Aunt Daisy's night.—Cousin is going to bring some girls from Wellington College this evening and they will sing choruses and solos, tell stories and jokes. Some boys and girls from the primary schools will be here, too, and help sing the choruses.

THURSDAY.—Mrs. Hadfield is calling at the studio to-night to take all, including Uncle George, Big Brother Jack, and Cousin Vermont to the Zoo. Listen carefully to all the different noises and sounds the animals make.

FRIDAY.—This is the night for the Studio Story Book Lady and Story Book Man. Uncle Jim will be here too. We are also to have Cousin Hope, who plays the violin, and Cousin Ethel, who recites.

SATURDAY.—The programme to-night is being given by the pupils of Mrs. Bernesconie. Spot is to come from the Bay to send greetings to you all and sing "Dickory, Dickory, Dock."

SUNDAY.—The Children's Evening Song Service will be conducted as usual by Uncle George, and the choir work will be done by the children from St. James's Presbyterian Church, under the leadership of Mr. Brooker.

Australian Programmes**Times Corrected for New Zealand**

Thursday, February 5.

STATION 2FC.—10 p.m.: Concert programme by Musical Association of N.S.W.

2BL.—10 p.m.: "A Fool's Revenge," a four-act play. 11.32 and 12.0 p.m.: Keith Collins, piano.

3LO.—10 p.m.: "Spanish Melody Scene." 10.47, 11.17, and 11.47 p.m.: Nora O'Malley, songs at piano.

3AR.—10.15 p.m.: Programme of special studio reproductions.

Friday, February 6.

STATION 2FC.—10.14 and 10.42 p.m.: Ida Tear, pianiste. 11.15 p.m.: Collingwood Band recital.

2BL.—10.0 p.m.: Palma Trio present Hawaiian melodies. 10.2 p.m.: Al Hammett, saxophone. 11.57 p.m.: "Mellow Fellows," in a vocal interlude.

3LO.—10.45 p.m.: "Origin of Famous Songs."

3AR.—10.15 p.m.: Community singing transmitted from Mechanics' Hall, Geelong.

Saturday, February 7.

STATION 2FC.—10.0 p.m.: Concert by Newcastle Steel Works Band.

2BL.—10.0 p.m.: A.B.C. Dance Band numbers, interspersed with variety items.

3LO.—10.0 p.m.: "The 1930 Review." 12.30 p.m. A.B.C. Dance Orchestra.

3AR.—10.0 p.m.: Relayed commentaries on dirt-track motor-cycling events, interspersed with musical items

Sunday, February 8.

STATION 3LO.—10.0 p.m.: Collingwood Citizens' Band, assisted by leading vocalists.

3AR.—9.0 p.m.: Service from Wesley Church. 10.30 p.m.: Relay from 2BL.

Monday, February 9.

STATION 3LO.—10.0 p.m.: "Piano Capers." 10.50 p.m.: Chamber music by the "Elise String Quartet." 12.35 p.m.: Studio Dance Band.

3AR.—10.15 p.m.: Programme of studio reproductions. 11.15 p.m.: Recital of "The World's Best Recordings."

Tuesday, February 10.

STATION 3LO.—10.0 p.m.: Malvern Tramways Band. 11.30 p.m.: "Nocturne."

3AR.—10.45 p.m.: Dancing and variety programme by A.B.C. Novelty Orchestra and assisting artists, including Syd Hollister, comedian, and Harry Bennett, xylophone.

Wednesday, February 11.

STATION 3LO.—10.0 p.m.: "King Henry VIII," produced by Frank Clewlow, for many years associated with the Alan Wilkie Company.

3AR.—10.37 and 11.35 p.m.: Steel guitar duo. 11.15 p.m.: Comedy interlude.

KNOW the time all over the world with a

DX Clock.

Printed on Heavy White Paper.
Posted in Cardboard Tube.

9d. Each. Posted.

Box 1032, Wellington.

Notes and News from the North

(By "Call Up.")

THE first talk in a long series to be given from 1YA this year on the subject of New Zealand manufactures will be heard on March 5. This series will be continued every Thursday from then on till the end of November. A great deal of interest in Dominion-made articles should be aroused by those talks, which will be delivered by men who thoroughly understand the particular manufacture they talk about, and the trouble and time given to arranging them should be well repaid by an increased demand for New Zealand-made products.

ON March 6, the Apache Dance Band a new combination, is to make its microphone debut from 1YA. This is undoubtedly one of the finest dance bands in Auckland, and their spirited playing should materially enliven the local radio programmes.

THE 1YA Minstrel Show, which was mentioned in these notes last week, is now definitely scheduled for presentation on March 12. From all accounts this is a show not to be missed.

ANOTHER half-hour recital night will be held at 1YA on March 3. One of the artists will be Miss Kate Campion, who is generally recognised as the finest operatic soprano in New Zealand, and who was formerly with the Carl Rosa Opera Company. Another will be Mr. Ralph Eskridge, a well-known tenor. The third artist has not yet been announced.

ON February 26 a novelty entertainment, entitled "Country Life," is to be presented from 1YA. This is to take the form of a surprise party at a farmhouse, and listeners can look forward to a jolly time there. Full sound effects of the farmyard animals, the rumbling and creaking of the farmyard cart, and other incidental noises will add to the realism of the entertainment. The farmer and his party will dance in the barn to concertina music. This novel show has been arranged by Mr. Alan McSkimming, who, by the way, is at present announcing during the afternoon at 1YA until Mr. Culford Bell returns from his holiday.

MR. LEN BARNES, 1YA station director, has been announcing during the evening in Mr. Bell's absence. On Tuesday evening he concluded the programme by announcing and playing a gramophone record entitled, "I'm Sick of All This." We wonder if he means it!

American Television

(Concluded from page 1.)

of television invented by Dr. Vladimir Zworykin, Westinghouse Electric and Manufacturing Company research engineer, who is holding it. The broadcast pictures appear on the round end of the tube, and from there are projected on a mirror in view of the spectators.

*Here at Last!***RADIO'S****CLEAREST VOICE****HAS ARRIVED***New! Different! Superior!***THE GREATEST RADIO IN ALL HISTORY**

See full particulars in next week's
"Radio Record."

DEALERS and DISTRIBUTORS

Write for all information to G.P.O. Box 1490,
Wellington.

Profits before Programmes

American Advertising Abuses

Result in Listeners' Revolt

by Bolton Woods

WE live and learn. Anyone who thinks that the question of exploiting the air for advertising in the Dominion is a remote issue, would be amazed at the solidarity of a certain section which is working to bring about conditions that would lay the ether open to the mercy of brazen commercialisation by advertising announcements.

The system is American in origin, and in that country it flourishes like the green bay tree. There, various broadcasting organisations sell programme hours to commercial firms for the purpose of advertising. The following is a fair example of the kind of thing that our American cousins more or less cheerfully submit to day in and day out, night after night, and year after year:

The studio announcer parks his vanity case and starts off something like this: "I am sure you will all enjoy the Underwear Orchestra and their exquisite rendition of Bachoven's immortal Nocturne in A Flat, which you are about to listen to through the courtesy of Backhouse and Legge, makers of shirts and shorts for men." Once more we are transported—albeit in imagination only—to the land of fair vaseline, heroine of Shortfellow's celebrated lyric poem on that and kindred topics. Once more—through the courtesy of Backhouse and Legge, makers of shirts and shorts for men—we enjoy the rich and melodious texture of Bachoven's immortal composition—a texture only less rich than that found in Backhouse and Legge's shirts and shorts for men. You will, I am sure, recognise the supreme artistry with which this artist utilises the harmonic principle of invertible counterpoint, which in this instance finds expression in a felicitous transposition of three minor melodies above and below the principal melody—as you will of course recognise.

"This is the Underwear Hour. Whenever you change your underwear, be it now or later, think of Backhouse and Legge, makers of shirts and shorts for men."

"A post-card addressed to Backhouse and Legge, makers of shirts and shorts for men, in care of the studio, will bring a richly illuminated souvenir self-measurement chart, suitable for framing. This is the Howler Advertising Company (Reginald Ladidah announcing). Please stand by for further station announcements." The most infuriating thing about a radio announcer of this type is the fact that you can't answer back—what remedy have you against a human voice? This doesn't happen anywhere else. If you disagree with



"Unless broadcast advertising is prevented we are headed straight for Government regulation with taxation, possible censorship, and all the evils and all the benefits of Government control."

DR. LEE DE FOREST, president of the Institute of Radio Engineers, inventor of the radio valve as we know it, is strongly opposed to radio advertising.

an editor you can stop reading and cancel your subscription to the paper. You can "tell off" a man at the other end of a telephone even if you can't land him one in the eye. The printed word that cannot be answered is bad enough—but the radio-protected human voice is the

worst of all. And we run the risk of the air becoming polluted by these advertising announcements if we are not very careful—"the adman will get us if we don't watch out." But even the worm will turn—if one may liken the hundred per cent. live-wire American to any individual of the phylum Vermes. We learn that the American listener is not only in revolt, but for some time past has been in revolt against what Radio Commissioner Ira E. Robinson calls an "overdose of ads." The action of the Argentine Government in suspending a broadcasting station for too much advertising prompted a statement from the Radio Commissioner. He reiterated also his prediction that a "revolution of listeners" will result from the "excesses of the broadcasters in their greed for commercial gain."

Advertising over the radio can be properly done without disgusting the public," the Commissioner asserted. "Assuredly it is not so now, and if the present overdose continues no returns from advertising by radio will be received. The method is simply killing the goose that lays the golden eggs."

The official report to the Commerce Department stated that a station in Buenos Aires had been closed for eight days because it was transmitting up to 250 words of advertising matter between successive numbers on its programme (250 words makes a slightly lengthier announcement than my innocent example quoted above). In his report the attache of the department said that "this supports the oft-repeated charge that Argentine programmes are overburdened with advertising matter. Many claim that sales of receiving sets would increase if there was more attention paid to the artistic feature of the programmes and less to advertising."

Judge Robinson cited as an example of excessive advertising in America the broadcasting of the recent election returns, where "more than one station interrupted and ruined its giving out of election returns by throwing in commercial advertising. A number of listeners present with me became disgusted and left the audience. That illustrates the sentiment that is developing countrywide against commercialisation of the radio."

(Concluded on page 29.)

The New Zealand Radio Record

—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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

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

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

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

WELLINGTON, FRIDAY, FEBRUARY 6, 1931.

"B" CLASS STATIONS.

VARIOUS developments of interest have been reported in the past week in connection with the position of B class stations and the Australian Performing Right Association. As indicated last week, many B Class stations felt themselves compelled to close down because of their inability to meet the requirements of the proprietors of the copyright. In one case, however, it is reported that a separate agreement has been reached between a local station and the Performing Right Association. This is in connection with the Manawatu Radio Club and its station 2ZF. This station is on a different basis from the ordinary B class station run by a proprietary organisation. It is controlled by the Manawatu Radio Club, the subscribers to which support their local station for the sake of its local value and service. The nature of the agreement reached is not indicated, but in the circumstances of the club it may be assumed to be of a reasonable character.

ARRANGEMENTS have also been completed in Dunedin between the committee of the Otago Radio Association and the Australian Performing Right Association for Station 4ZB to work under a license from the Association for the ensuing year. This will permit that station also to resume activities on the air. Prior to the foregoing agreement being effected, it was reported in the Press that the New Zealand Radio Listeners' League Executive had decided to ask the Government to undertake the payment from listeners' fees of a sum to be agreed upon by the Postal Department and the Performing Right Association in satisfaction of the Association's demands, until the expiry of the license for transmission at present held by the

Broadcasting Company of New Zealand. This resolution is ineffective from the start, because a definite contract is in existence between the Government and the Radio Broadcasting Company which does not permit of variation. If the Government likes to make any payment from its own funds on the lines asked by this executive, that would be within its rights; but the proposal to raid the funds of listeners for this purpose is at present out of court, and in any case would, we believe, be strongly opposed by the great majority of listeners. This action, however, raises an issue of which we have always seen the danger in connection with B class stations. Started initially as commercial enterprises for the benefit of their sponsors, it was patent to most that, after a period, the cost of maintaining those stations would become burdensome upon those responsible, and that relief would be sought at the expense of the revenue provided by listeners. Because of the danger thus presented, we have always opposed the undue development of B class stations, and have pointed out to listeners the possible danger. Division of the revenue provided by listeners for the maintenance of a first-class broadcasting service into two parts would have the immediate effect of doubling overhead, increasing capital outlay and maintenance, and creating two weak services instead of one strong one. We do not see any likelihood of any Government in its senses agreeing to this proposal. The Government may be able by some other negotiations to lighten the burden of copyright payments, but to raid listeners' funds for this purpose would not be in the interests of broadcasting in general.

ANOTHER danger presents itself to broadcasting in the certainty that some B class stations will use the position that has arisen in connection with copyright to urge that they be given the right to sell advertising time on the air. Fortunately the Postmaster-General, the Hon. J. B. Donald, is alive to the danger that would be presented by this course, and has declared himself absolutely opposed to a policy of allowing the air to be used for advertising purposes. The detailed danger to broadcasting, by any permission to allow the ether to be thus used for advertising is ably pointed out by a contributor in an article in another column. His objections are valid and will be definitely seconded by all concerned with the best interests of radio.

2YA to 2ZF

Spelling Bee at 1YA

Programme Relay

For School Children

ON Wednesday, February 4, the date of the first international programme from 2YA, a relay was carried out to Palmerston North, and the programme was broadcast by the Manawatu Radio Club's station, 2ZF. This was the first relay of the kind from station 2YA to a broadcasting station in another town, and it was made possible by the spirit of co-operation which exists between the radio societies and the Broadcasting Company.

A similar relay was carried out last year between 4YA and the Southland Radio Society's station in Invercargill on the occasion of the Byrd visit, and the society reciprocated in respect to a sporting event in Invercargill.

It will also be remembered that on the occasion of a recent boxing match in Palmerston North, 2ZF and 2YA co-operated in broadcasting a ringside description, so now listeners in Manawatu have had the pleasure of enjoying 2YA's special Wednesday programme through their own local station. It is probable that this relay will be the first of a regular series, provided the necessary relay line can be made available by the Post and Telegraph Department.

Special equipment has been installed at 2YA for the reproduction of the overseas recordings, so that it is not possible to lend the records to 2ZF, thus relaying is the only way by which they can be broadcast by the Palmerston North station.

SOME months ago 1YA conducted a "Spelling Bee" for adults. This innovation proved very popular, not only with the competitors, but also with listeners, so following on a suggestion from the 1YA Musical and Dramatic Committee, the station is conducting a "Spelling Bee" for primary school children only. It will be entertaining to hear these young people before the microphone, and with Mr. A. B. Chappell, M.A., as adjudicator, listeners can look forward to an evening's enjoyment.

During the course of the programme items will be given by a new instrumental quartet—"The Zealandia Novelty Instrumental Quartet"—whose members perform upon the piano, steel guitar, banjo, Spanish guitar, saxophone, and clarinet.

Items will also be given by Mr. J. Ainsley Daglish, a young tenor, who on his first appearance before the microphone at 1YA made a fine impression.

Noted Pianist from 2YA

VISITING New Zealand at present is Mr. Haagen Holenbergh, whose reputation as a pianist has spread far beyond Sydney, which knows him so well as an outstanding musician. Mr. Holenbergh has been engaged by 2YA for a recital on Monday, February 10.

THE PHILIPS Q.P. RADIO SET.

—Operates from the light socket, with or without an aerial.
Complete with Baby Grand Speaker, **£21/5/-** Cash

PHILIPS SCREEN-GRID RADIO PLAYER

Complete with Baby Grand Speaker, **£39/15/-**

EASY TERMS GIVEN

The "MODERNE" PICKUP is a high-grade article, equal to higher-priced pickups, and is only **£5**.
Shielded Transformers, 7/6 each.

G. G. MACQUARRIE, LTD.
120 WILLIS STREET.

Tennis Broadcasts

Anthony Wilding Shield

BY the courtesy of the Wellington Lawn Tennis Association, 2YA will broadcast descriptions of the play in the contest between Wellington and Canterbury for the Wilding Shield on February 13 and 14.

These broadcasts will be of special interest to Canterbury followers of the sport.

The Flowery Land

Talk on China

TAKING advantage of his visit to Auckland, 1YA will on Friday, February 6, broadcast a talk on China by Mr. Edward G. Little, of Kerikeri, Bay of Islands.

Mr. Little is an acknowledged authority on the subject on which he is to speak, for he has spent 44 years in China, having visited every part and being well versed in the language. He has closely followed all China's problems, and has been personally acquainted with all her leaders.

A Radio Picnic

All Arrangements in Train

PREPARATIONS in connection with the Monster Radio Picnic, which is being organised by the Broadcasting Company through the 3YA Children's Sessions Advisory Committee, are now well in hand. It will be one of the biggest things yet attempted for Christchurch children.

Riccarton racecourse will be an ideal place for adults and children on Saturday, February 14. There will be a great variety of entertainments, including such attractions as a Punch and Judy Show, pony rides, old coach rides, sports and games, a parade of pets, and novel competitions for pets. All amusements will be free.

2YA International Evenings

The Second Programme

NEXT Wednesday the second instalment of the series of overseas programmes will be broadcast by 2YA.

Listeners will then have the opportunity of enjoying another half-hour with the Famous Ormandy Orchestra, revel in delightful renditions by the International Singers, enjoy the Ambassadors of Melody Land, go abroad with the entertaining Lockharts, and chuckle over that amusing American character sketch of Hy Wide and Handsome, who will continue their diverting journey.

A second talk will be given by Dr. Guy E. Scholesfield, O.B.E.

What Do the Listening Public Want?

Music Teachers' Association and Higher Standards

Company Willing to Co-operate

"WE, as teachers of music, should do all we can to raise the terribly and abominably low standard of the radio work of New Zealand," was the pronouncement of Mr. John Bishop, of Wellington, at the annual meeting of the Music Teachers' Association, at Christchurch, last week. He suggested that they should protest to the Government and perhaps make some suggestions for programmes.



"Tosh" has been badly done" asserts MR. JOHN BISHOP in recommending that weight be used to bring about some improvement in programmes.

This opened a discussion, and the whole subject of radio programmes was considered. There were some of the delegates who protested against the standard that was maintained, while others were of the opinion that the company was making a strong effort to cater for all classes. It was suggested that more qualified artists, though fewer in number, should be employed. Against this it was argued that the public which generally wanted lighter music, seriously objected to a few good artists. Variety was much in demand, and if artists appeared too regularly there were complaints. One music teacher well known in Christchurch circles stated that she and her company had not been wanted because they did nothing but Grand Opera. This was not the fault of the company, but the ever pressing demands of the listeners for the lighter forms of music.

During the discussion it was mentioned that the R.B.C. paid over a large sum to the musical bodies of Christchurch, and in doing this were definitely aiding these associations. It

was not the company's fault that the standard of the broadcasts was not higher.

Mr. Bishop here pointed out that he had been appalled sometimes by what he had heard, because even the "tosh" had been badly done. A strong body such as their own should bring some weight to bear and have improvements effected.

All were not in complete agreement, however, and it was further pointed out that the company were doing a great deal to raise the standard of public taste, though they were having a difficult fight.

The discussion resulted in a resolution being passed that the Company be urged to consult the Association with regard to improving the programmes.

IN reply, Mr. A. R. Harris, general manager of the R.B.C., remarked that those who criticised the programmes quite evidently had only a grandstand view of the service. All the programmes were arranged to suit the greatest numbers, and though musicians might not find them to their liking, there were many who would strongly object were the programmes that would suit them broadcast.

It was an easy matter to condemn a service without giving concrete examples. Was the listening set employed by Mr. Bishop of the type that would reproduce all the music as it was broadcast? Did Mr. Bishop listen regularly?

The company endeavoured to make available per medium of the service as many public functions as possible, though in many of these instances the technical difficulties were great, and if the transmissions were faulty it was despite every precaution on the part of the company to ensure their success.

The case of studio performers was different, and adjustments that kept them in line with the latest broadcasting practice were constantly made.

"The greatest care also is exercised in the engaging of talent, and only those capable of a high standard are accepted for broadcast on the programmes organised by the company's staff," he added. "If some of the items broadcast by these artists do not appear up to standard, then it does not necessarily follow that it is the fault of the artists."

"Every care is taken to see that the transmissions are perfect when

leaving the station, but such transmissions cannot be coloured and traced to their destination."

Some of the apparatus on which the transmissions were received was considerably out of date and inefficient. With regard to the engagement of fewer and more highly paid artists, the company was partly in agreement, and utilized some of the most qualified talent available.

As a result of this, it was severely criticised for presenting the same singers, although it realised that in doing this the standard of performance was higher and the variety of programmes greater.

It was not practicable from the point of view of daily programmes to employ even the same good talent regularly, and the public resented the frequent broadcast of the same performers. Consideration had also to be given the provision of additional talent by co-operating with the young musicians, as only by an all-round co-operation could it be hoped to improve the position in respect to a greater variety and higher standard.

"We shall be only too pleased to co-operate with the association," added Mr. Harris. "In fact, we have for a number of years now been endeavouring to interest the music teachers in the broadcast service. It must be borne in mind, however, that the broadcast service is not entirely one of music, as there are other sections that must be given equal consideration."

"It is now some time since the Broadcasting Company inaugurated musical and dramatic committees at each of its four stations, such committees consisting of outside authorities on musical and dramatic art. These committees are invited to make suggestions, and a great deal of good work has been done."

On these committees we have invited representation from the Professional Musicians' Association, and, in fact, have representatives at Auckland, Christchurch, and Dunedin, Wellington being the only centre which has not availed itself of the company's offer of co-operation.

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The premium is moderate
the cover is WORLDWIDE

*Offices in all principal towns
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WELLINGTON

How Radio can aid the School-teacher



RADIO is undoubtedly destined to become an integral part of any progressive nation's educational system. It is inevitable that an agency of such exceptional breadth should be utilised in increasing the cultural levels of our youth as well as our adult population.

To what extent radio will supplement the work of individual instructors, what subjects will be most effectively adapted, how they will be presented and by whom, are at present matters of conjecture. The meteoric progress of radio broadcasting in the past, as an art and as an engineering accomplishment, is perhaps indicative of the rapid development of the future. If the next ten years produce as many modern miracles as have the past ten, any prediction made now would appear ridiculous in the near future.

However, experiments in radio education which have been conducted in America during the past three years provide a basis for consideration of our present problems. The Bureau of Education of the Department of the Interior, as well as educators from all over the country, are giving serious thought to means and methods for using broadcasting. Experts in radio and in education have met in conference in efforts to determine how one of the oldest of the arts may avail itself of the advantages of one of the newest.

One outstanding conclusion on which there is unanimous agreement is that broadcasting in its present form will never supplant or be competitive with the individual school teacher.

What Radio Can Do.

RADIO will come into the schoolroom only to supply something that the teacher cannot give, or cannot present as effectively as it can be done by radio. For instance, in the field of music there has been considerable progress in child education by radio. It is only recently that children in American schools have been able to hear excellent music presented and explained by expert musicians. During the past two years more than 50,000 schools have co-operated with the National Broadcasting Company in the music appreciation hour conducted by Dr. Walter Damrosch.

The teacher in the schoolroom cannot possibly have available a great orchestra. She does not have the musical experience of Dr. Damrosch. This hour, therefore, brings to the child something that supplements the music lesson in the school, stimulates interest in and appreciation of music, and yet is in no wise competitive with the activities of the individual instructor.

Radio in the schoolroom is, or should be, a stimulative factor. The key to learning is interest; if radio may provoke emotional stimulus, interest is assured and the acquisition of knowledge

"Broadcasting in its present form will never supplant the individual instructor," asserts John W. Elwood, vice-president of the National Broadcasting Company of America, "but it can bring inspiration, culture, and stimulation into the schoolroom."

is rapid, easy, and permanent in nature. The loudspeaker may transport the child outside the four walls into the world beyond and give him glimpses of the wide, fascinating experiences that go to make up life. It brings something incredibly colourful and marvellous to the schoolroom.

The careful, persistent, never-ending work in the schoolroom will continue to be the task of the schoolteacher, but radio can supply the highlights, which will make that work much less of drudgery and more of inspiration.

Children who have never seen the sea hear voices from the furthest bounds; children who know of snow only by hearsay listen with shining eyes to the explorer of the poles. And the teacher, who perhaps has never been beyond the boundaries of the

country he, or she, is at present living in, may illustrate a lesson in geography with first-hand information.

It is the end of intolerance, of provincialism, the end, indeed, of the kind of dangerous ignorance which only so universally powerful a knight as radio could conquer. There are no bounds to knowledge in the air and the teacher is the most valuable listener of all.

Subjects Adapted to Radio.

WE are frequently asked, "Are there not a limited number of subjects in which radio may supplement the work of the instructor?"

Under present conditions it is probably true that there are comparatively few courses which lend themselves to highly effective radio presentation. However, as we look back over the pro-

gress of the past ten years we who work in radio find ourselves doing to-day things which we were told five years ago could never be done. These things which "cannot be done" form our chief sources of inspiration and determination to go forward.

Instruction through the medium of broadcasting presents many unsolved problems. Of these problems are born tremendous responsibilities and magnificent opportunities. It has been the history of civilisation that when such opportunities arise, men and women are found who are equal to the tasks and able to assume the vast responsibilities. I would not be willing to say at this time that there is any subject taught in our schools in which radio could not be helpful. It can bring to the poorest schoolhouse the experience of the greatest experts, the most talented of speakers, the most able of instructors. It makes available to the parents in the home the same presentations as are made to the children in school, so the mothers and fathers may be constantly in touch with the work their children are doing.

Obstacles are Ahead.

OUR present educational structure and our present radio structure present many difficulties in the path of education by radio. Courses in our schools are neither uniform nor synchronised.

Educators in general are strongly opposed to moves toward national uniformity in the schools. They believe that the work of instruction should be considered as a local matter and that schools must be conducted to meet local conditions. In this circumstance it is difficult to make most effective presentations by radio, for radio, if it is to be most helpful, should be synchronised with school work.

Network broadcasting of educational material, therefore, cannot always be made to come into the schoolroom at the hour of the day or on the day in the school year when its stimulative effect would be greatest to each school.

Apparently the best present method of teaching by radio would contemplate separate broadcasts by local stations attuned to and timed with the local curricula, plus network broadcasts of more general interest, which could be readily fitted into a large number of schedules.

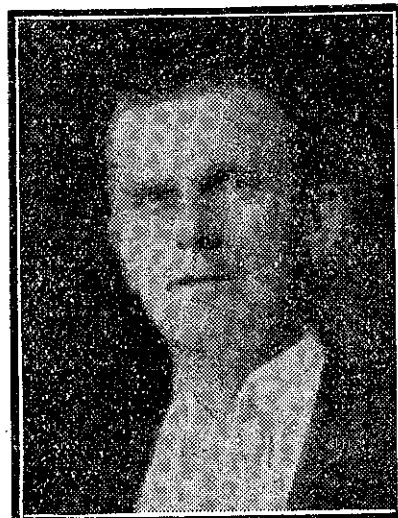
Radio broadcasters are eager to co-operate with educational authorities in any comprehensive work which can be done in the field of education. Already beginnings have been made, and plans under way denote considerable progress in the near future. As we move along new vistas are opened, new opportunities are devised. The horizon is forever changing. We stumble

COMMUNITY SINGING

by the

1YA Broadcasting Choir

Under the conductorship of



Mr. Len. Barnes

From 1YA

FEBRUARY 11

and recover and stumble again. Our course is arduous.

There are no signposts to guide our steps, but we shall go on and on, certain that radio can bring inspiration, culture, stimulation, into the school-room. We know that it can and will be made a tremendous asset in the cause of education. Just how this is to be accomplished the future alone will demonstrate. It will require the best minds in broadcasting and in education to reach the heights we seek.

Radio Telephony with England

Service Still Experimental

EARLY in December the Post and Telegraph Department, with everything mechanical in order at this end, was advised from Australia that telephone speech would probably be available between New Zealand and England on December 10; later the date was postponed until December 20; and later still that it was postponed indefinitely because of certain static interruptions which were inconsistent with permanent and reliable service.

That does not mean that vocal communication with England from this end is not possible. Speech has been made experimentally on more than one occasion with England by the officers in charge. On such occasions it was necessary for the tests for the officer speaking at this end to know the voice of the man he was speaking with in England, because it was essential in

judging the strength of the voice to know its natural quality, for the purpose of judging the efficacy of the service, for were the voice a weak or husky one, it would be no general guide to work upon. That point was not a difficult one to overcome. The Chief Telegraph Engineer (Mr. A. Gibbs) was able to establish communication with a man with whose speaking voice he was familiar; and though he was able to converse with him, it was not considered sufficiently satisfactory to ensure a telephone service that would meet the demands of an everyday service for the general public.

In the meantime the experiments are being continued, by way of Sydney, in the hope that the weakness in the connection may be overcome. That weakness apparently lies between Sydney and England. New Zealand could establish a telephone service direct to England, but that would mean rather heavy cost in new apparatus, which is not considered justified at present, particularly in view of the prevailing economic conditions.

Toll Calls.

PEOPLE in New Zealand are apt to complain at times about the cost of telephone calls. These rates in the Dominion, however, are cheaper than they are in any other part of the world, which in view of the comparatively small population, may be regarded as an achievement. Australian charges are closely akin to those in New Zealand, but as the distances grow greater the Australian charges jump a little ahead of those in New Zealand, while those for the United Kingdom, the United States of America, and South Africa are very much higher than they are on this side of the globe.

To take one instance, for a toll call 400 miles (three minutes) the charge in New Zealand is 5/-, the charge in Australia is 5/3, in the United Kingdom 6/6, in the United States 8/-, in South Africa 8/4.

Community Singing

Australian Broadcasts

THE Australian Broadcasting Company recently desired to ascertain through various country centres, as to

"THE MASCOTS"

Present Two Sketches,

(a) "The Fire Brigade"

(Alfred Lester)

(b) "The Baggage"

(Bertha Moore)

From 1YA — Feb. 14.

Useful Tips

IF for any reason it is necessary to remove the diaphragm from the telephone earpiece, it should be slid off sideways, and not pulled up from the magnets, as this is liable to bend it.

AN excellent means of reducing the damping of an aerial for short-wave work is to connect an ordinary neutralising condenser in series with it.

THE free gassing of an accumulator on charge is quite a good indication as to whether this is satisfactory, and if one cell gasses less than its fellows, it probably needs an individual charge.

casts from the Ashfield Town Hall were awarded the palm.

Community singing was recently introduced at the Sydney Town Hall, and thousands of people congregate there every Friday from noon till 2 p.m. Entrance to these concerts is free, but a collection is taken up for the A.B.C.'s hospital radio fund.

Mullard

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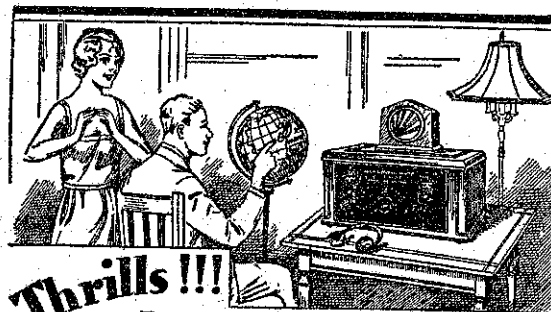
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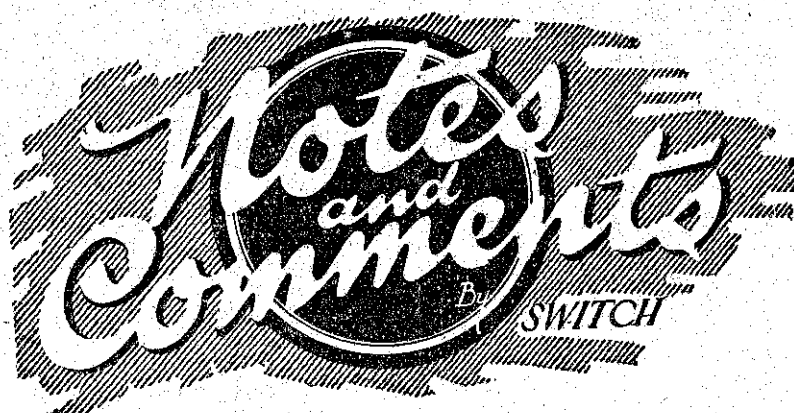
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A LETTER from "Radio Bug" (Rae-tihi) published in last week's "Record," mentions that the evening of January 21 was an exceptional night for results. "Switch" corroborates this. The distant stations were loud, and static was strangely absent. The Japanese stations were remarkably loud on that evening, JOHK, Sendai, being at times on a par with 2FC Sydney. These freak nights have been the subject of investigation by American observers, but no definite cause has yet been located.

SEVERAL times lately the writer has heard the mystery station that "Cromdale" (Otago) said he heard a week or so ago. Its wavelength is approximately 484 metres, and therefore clashes with 3AR Melbourne. A Japanese friend identified the speech as his native tongue when listening at "Switch's" home, but owing to interference from 3AR was unable to hear a coherent statement. A further attempt will be made to identify the station's call-sign. It would be possible, of course, for it to be a Chinese station rebroadcasting a Jap., but it is probably one of the latter.

"B.W." (Stratford) mentioned in last week's "Record" that he picked up a new Japanese station on 492 metres, which is on a wavelength about 8 metres longer than that of the mystery station previously referred to. It would be interesting to learn whether "B.W." is sure of the wavelength of the new Jap., and whether he finds that it clashes with 3AR. Merely going by the frequency marked on a tuning dial is not a guarantee of the exact wavelength of a station, as tuning dial calibration is sometimes irregular owing to the adjustment of the variable tuning condensers.



"SWITCH" notes that Earl J. Haynes (Aranui) received KTM (KPM), Philippine Islands, broadcasting Spanish items. KPM at certain periods of the year comes in well at Wellington. The writer has often heard ringside descriptions of boxing contests from one of the Manila stations. The American announcers at Manila pronounce the letter Z as "Zee," in true Yankee fashion. Some excellent music is also available at times from the Manila stations, but it is necessary to sit up late for this.

SOME trade radiotricians do not take into account the ignorance of beginners concerning radio matters, and therefore tender little or no advice. The writer was called in by a neighbour to ascertain what was amiss with her battery set. The trouble was immediately discovered to be due to a run-down "A" battery. The neighbour thought that because she had operated the set very seldom the battery would run for months without

recharging. A radiotrician had called and examined the set, but had not tested the "A" battery! He had said everything was "O.K."

FROM Mr. Earl J. Haynes, taxidermist, Christchurch, a letter comes to hand refuting the possibility of a large snake in Mitchell, Queensland, being attracted by music from a loud-speaker, as reported in these columns recently. Mr. Haynes stated that he has kept Indian rock snakes, adders and ring snakes in captivity and often experimented with them. He found that music, singing or whistling had no effect upon them. Mr. Haynes adds: "Indian snake charmers use musical instruments simply for 'colour' effects."

Reception Table for Australian Stations

FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2BL, Sydney	9½
2NC, Newcastle	9
4QG, Brisbane	7½
3LO, Melbourne	7
3DB, Melbourne	6½
2GB, Sydney	6
2UE, Sydney	5½
3UZ, Melbourne	5
7ZL, Hobart	3
3AR, Melbourne	3
5CL, Adelaide	2½
6WF, Perth	2
2KY, Sydney	1½

The above figures are the points assessed, with 10 as the maximum.

What is more to the point is the fact that snakes have no ear-pits or ear-drums."

CONCERNING the foregoing paragraph "Switch" can say that he had many experiences with snakes in the bush in Australia, and can personally testify to the fact that a snake was enticed from under a dwelling on a number of occasions by the playing of a violin, by the writer's brother. Endeavours were made to capture the reptile with a noose and forked stick, but it was too wary. Eventually it was killed. Regarding Mr. Haynes's own snakes, Australians who have lived in the bush know that snakes frequently sulk in captivity and show little life. Snake charmers ac-

custom their snakes to captivity by methods of their own. The fact that snakes have no ear-pits or ear-drums does not preclude their hearing. Snakes and some lizards rely for their sense of hearing on auditory nerves under the thin skin on each side of their heads.

MR. R. E. TAYLOR (Whangarei) writes concerning his experience with long and short aerials. The present one I use is a 100ft. stretch between poles 40ft. high at the far end and 35ft. high at the lead-in end. The lead-in wire from the top of the pole is the thick cable wire as used for connecting houses with the a.c. mains. I have used a 70ft. aerial with continuous lead-in of ordinary aerial wire, but find the present one gives far more volume even with the set 12ft. away from where the lead-in comes through the house. Thus my experience is for country listeners who do not need much selectivity the thicker the aerial wire the better the reception. 2ZJ, Gisborne, 2YB, Palmerston North, I get quite loud in the afternoon sessions. I have a 7-valve a.c. set.

WITH regard to the foregoing statement by Mr. Taylor, it is an indubitable advantage to use a long and thick aerial for long-distance reception. There is a limit to the length of the aerial, however, and it will be found that no aerial should be longer than 140ft., including the length of the lead-in. As Mr. Taylor states, in localities distant from a broadcast station a long aerial, with its broader tuning, is an advantage, but when near a broadcast station the shorter aerial, with its greater selectivity, is necessary to enable one to cut out the local station when desired.

AN Auckland listener writes that he has a high-grade 8-valve a.c. set (naming the make) which has "considerably more a.c. hum" than he has ever heard in a set, and he wants to know what to do about it. The trouble is possibly due to a defective valve or the breakdown of a fixed condenser. He should have each valve carefully tested with a proper valve-tester, and if the trouble is not among the valves the fixed condensers in the set should be tested. The set of the make mentioned has no internal resistance for tuning out the hum.

STATION 3AR, Melbourne, again appears to have gone off in volume, and it is not so clearly received as formerly in Wellington. A Melbourne enthusiast writes to the Melbourne "Listener In":—"I was a keen listener of some beautiful Beethoven music in 3AR's recorded session the other day. But the whole thing was ruined by a continual squeaky, whistling sound, which was a maddening accompaniment to otherwise perfect music. It had evidently crept into 3AR's new notorious carrier wave, but so far I have not seen or heard of anyone being dismissed for this piece of gross engineering inefficiency. If Mr. Brown's Government telephone engineers are incapable of putting the matter right, I suggest he engage some competent radio engineers who can prevent a recurrence of a thing which has spoilt a whole evening's entertainment more than once.—Yours, etc., 'Music Lover'."

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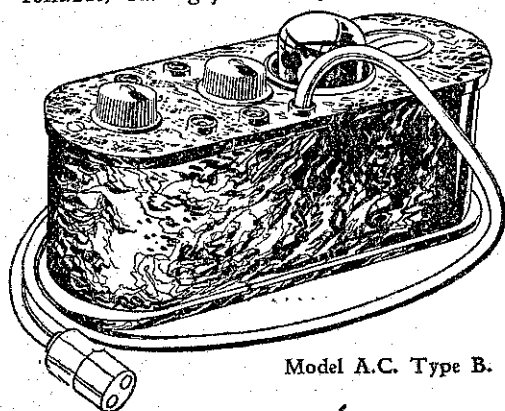
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American Programmes.

IT was with great interest that I read the criticism of the International Programmes as broadcast from 2YA. My opinion of the programme was that it was quite a change from the usual type, and that is what 2YA's programmes have been lacking. I noticed several letters criticising the American accent or drawl, especially one by "English Mother." In the first place, I suggest that every set is fitted with an "on off" switch which can be used to cut out undesirable programmes. Secondly, these international programmes take up only one hour of 2YA's time in a week, so surely it would not harm the listeners who dislike this type of entertainment to switch off or tune in elsewhere, as there are others to be considered. To me who tunes in these American stations and listens direct, it is quite a change to hear a static free entertainment. At present the proportion of American jazz from 2YA is very small, being four hours a week compared to 11 hours of classical, so what have the classics to grumble about.—A. D. Rogers (Wellington).

"Absolute Tosh."

IF Monday (January 19) evening's broadcast programme (up till 9 p.m.) is typical of what Wednesday's 2YA programme will be, then I can only suggest that 2YA remains silent on Wednesday as at present. The items were neither edifying nor humorous, and it was painful enough listening to the dreadful accent, but, worst of all, to my mind, was hearing Mr. Ball, in his cultured tones, talk of "some cowboy," "bronco-busting," and "hot-dog stand." Must one have this class of programme thrust on one willy-nilly? The dialogue was absolute tosh, and an insult to one's intelligence.—M.T. (Pahiatua).

[Your statements appear to be echoed by many New Zealand listeners. The programme in question, however, is not typical of those to be broadcast each Wednesday evening by 2YA, but rather of the usual run of entertainment dispensed by the majority of American stations. The programmes arranged for Wednesday evenings from 2YA, however, are recordings of entertainments provided by some of America's most powerful broadcast stations, and represent in effect the best that country has to offer.—Ed.]

Market Reports.

HOW long, oh Lord, how long must we endure our daily dose—I mean the market reports. That we must get it blared into our ears that sheep are 8d., that there were further buyers for New Zealand Breweries, and that the cheese market is unchanged, and

Our Mail Bag

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

so on and so forth every evening, is surely over the odds. I suggest, Mr. Editor, that if a station in the North Island and a station in the South gave half an hour's recorded items during the time now taken up with market reports and similar dry rubbish, or, worse still, silence, listeners would find it an extremely welcome change. The commercial crowd and the stock dealers could tune in to the other station in their island.

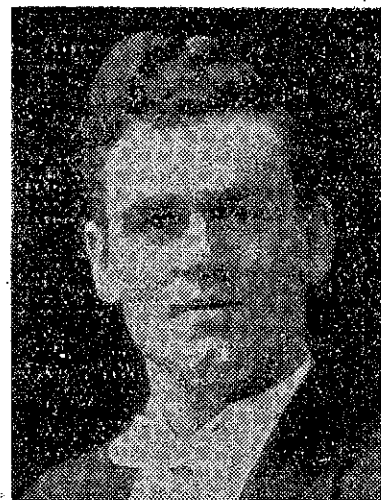
Nearly all of the farming community have, and perforce must have, powerful sets. News likely to be of local interest could with very little trouble be given in the half-hour of news that is still left. A good idea would be to work schedules in alternate order, thus: Monday, 2YA half-hour news, half-hour music; 1YA news. Tuesday, 2YA news; 1YA half-hour news, half-hour music. And so forth through the week. Similar arrangements could be made for the South Island, but it might be a good idea to have music in the first half of the session instead of the last, so that listeners under good conditions might have a whole hour's music. A little arithmetic will show that only 25 per cent. of the news time is sacrificed for a 100 per cent. return.—H. Wiggins (Waipukurau).

For the Defence.

THERE appeared in this week's "Record" several letters complaining about the recorded American programmes. I at least appreciate the R.B.C.'s effort in procuring these programmes for us. Up here we enjoyed the "sample" programme very much, although one elocutionary number was scarcely suitable, but if those complaining listeners had listened to Mr. Ball they would have heard him explain that that Monday's programme had not been specially selected as the Wednesday ones will.

"English Mother" with several youngsters to bring up should realise that the said youngsters should either be in bed at the hour the programmes are presented, or if up should be old enough not to allow the "terrible" accent to have any effect on themselves, even if it could.

None of these grouching listeners will lose anything, as they can shut off their sets on Wednesday nights, as they have up to the present, and not worry their "narrow" minds about 2YA. How-



ALFRED WALMSLEY,
a fine tenor, who will be heard from
4YA on February 8.
—S. P. Andrew, photo.

ever, here we look forward to these programmes with much anticipation, especially now that the Hawke's Bay "B" stations have closed.—"Georgina" (Waipukurau).

Insular Narrow-Mindedness.

I HAVE just read this week's issue of the "Radio Record," in which there are a few letters from readers regarding 2YA's trial international programme of Monday week last. I would like to place on record my appreciation and congratulations to the Radio Broadcasting Co., not only for the excellence of the programme, but for the foresight and initiative they have displayed in serving the listeners with such good fare.

It is undoubtedly a step toward helping the average New Zealander out of the rut of narrow-mindedness, and such items that show us American humour and American outlook only tend to

give us a broader and better international view. After reading one or two of the letters, I could not help but think that they betrayed an existence of small-mindedness which we, being naturally insular, must endeavour to fight against. I personally am looking forward to Wednesday nights.—Theo H. Gundersen (Wellington).

Of Topical Interest

(By "Switch.")

A MINOR Melbourne station which comes in well at Wellington at times is 2UW. This station will shortly have its power considerably increased, and should then be available to many hundreds of New Zealand listeners who at present cannot pick it up. 3DB, Melbourne, is now coming in splendidly. This station was burnt out last September 11, and recently new offices and studios were opened.

VICTORIA has now another "B" class station, 3WR, Wangaratta, operating on a wavelength of 238 metres. This station furnishes programmes for the north-east area of Victoria. A "B" class station will go on the air within two or three weeks at Canberra, the Federal capital. The station, which is to be operated by Mr. A. J. Ryan, will use the call-sign, 2OA. It will relay programmes from the various Australian capital cities, and will also include local items. New Zealand DX listeners will have a busy time, soon, identifying the Australian small fry.

THE crystal control system now installed at 3YA, Christchurch, completely precludes any possibility of the transmitter straying off the assigned wavelength. Some broadcast stations "swing" quite noticeably, the worst, in "Switch's" experience, being 4QG, Brisbane. It will be observed that 4QG frequently strays off its wavelength, but by turning the tuning dial a trifle, one can follow it in its vagaries.

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"INQUISITIVE" (Motueka): Address of KOA is National Broadcasting Co., Inc., Denver, Colorado; and of 1ZR is c/o Lewis Eady and Sons Ltd., Queen Street, Auckland. The latter has been on the air only a few weeks.

"AMURI" (Invercargill): See above.

Identification Wanted

WHAT station operates on 2BL's frequency? I hear the latter on 63 and the stranger on 63½ (not KWKH). On the 17th I logged WOWO on 254 metres (1180 kc.), asking for reports. He came in with splendid volume on the speaker and closed down at 8.10. N.Z.T.—A.E.W. (Waitati.)

WHAT Jap. operates on 334 metres (780 kc.)? I have heard this station three times in the last fortnight, but no call is given.—"Redbird" (Wellington.)

HONOLULU station operating on 1320 kc. (227 m.), I heard him on January 22, but though the announcer's voice was clear, I could not get the call. On the same night I logged 4BK, 1380 kc. (217 metres), at 10 p.m. They were singing their station song to the tune of "Happy Days are Here Again." I also heard 3GL, Geelong, 3WR, Wanganui, and 2AY, Albury, all at good speaker strength.—E. Trigg (Palmerston North.)

News and Views of the D.X. CLUB

AT approximately midnight on the 22nd instant I heard a foreigner at 81 on the lower dial (4YA on 79). The language used was neither English nor Oriental, and during the time I listened a dialogue seemed to be taking place. This was much after the form of a church service in that a male voice spoke and was answered by what sounded to be a number of male and female voices. This continued for some time, no call being given. Reception was at good strength without much fading. 3KZ, Melbourne, was coming in at splendid strength on the same night.—"Screen-grid" (Opunake.)

I HEARD a new Australian B class station recently, one deg. above 3GL, Geelong. All I heard was 4BK. What is the call of the Jap. heard one night recently about 2 a.m. operating half a deg. below 2FC? Also a station on approximately 385 metres, just below 4QG, Brisbane, heard about 2 a.m. recently. Singing and talking seemed to be a mixture of Italian and American, but announcements were made in English. Would this be a Mexican station?—E.C. (Christchurch.)

[4BK, Brisbane Broadcasting Co., Brisbane. Operates on 217 metres (1380 kc.), with a power of 200 watts.—Ed.]

STATION operating about 2 deg. below Christchurch, heard about 11.40 p.m. on 24th instant. Items were: "By-bye Blues" and "... Blackbirds." One of these was composed by Don Bradman. The announcer remarked that recordings could be bought at a certain place, and that Bradman was willing to autograph them. Mention was also made of Anniversary Day and a river trip. Birthday greetings were given out between items. Call sign was missed through static.—"Inquisitive" (Motueka.)

STATION heard on January 24 at 8.10 p.m. on 1195 kc. (250 metres). Items heard: "Around the Corner," "Swinging in a Hammock," and at 9.35 a.m., "Give Yourself a Pat on the Back." Call sounded like ZRLD.—"Yankee" (N.P.).

STATION on 850 kc. (340 m.), heard after 11 p.m. on January 26. Either Chinese or Japanese. A lecture in foreign language was in progress and occupied a long period. Reception was quite clear. On 214 m. (1400 kc.) what appeared to be a court case was in progress.—"Listener" (Marton).

AT 11.55 a.m. on January 22 an American station on 2ZC, Palmerston North's, frequency, was broadcasting an

excellent programme. No call sign was given. Announcer intimated "That gift certificates would be sent on request in connection with free gift 'Outboard Motor.' Results to be announced at 6.45 next morning." He later announced humorously "That a good way to die is laughing, and in the future men will know too much to laugh."—"Wireless Bug" (Raetihi).

(The other station you heard was 2MO operating on 200 metres (1500 kc.) on a power of 50 watts. Address: M. J. Oliver, Gunnedah.—Ed.)

ON the morning of January 21 I located a station of 508 metres (590 kc.), one degree above 2ZK, Wanganui. Reception was very good, but he failed to state who he was. The only call he gave was "Hello, hello," and would then give the name of the next record. The session concluded at 11.30 a.m.—R.B.M. (Harmoana).

Stations Identified

"JACONSECK" (Christchurch): The station on 28, 38.5, is probably KYW, San Francisco. WTAM, not "N," is the call of the Cleveland station.—"Ray Dio" (Shannon).

"WIRELESS BUG" (Raetihi): KNX, Hollywood, California. "Little Willie" (Timaru): KYA, San Francisco.—"Yankee" (New Plymouth).

"JACONSECK" (Christchurch): American 2 degrees above WTAM is probably KFKB, and the one 3 degrees below, KMOX.

"WIRELESS BUG" (Raetihi): The station heard broadcasting from the "Silver Slipper" Cafe is KFOX. I

FERRANTI

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

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

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notice that when giving his call he does not pronounce the "X" nearly as loud as the three preceding letters.—"Kia Ora" (Frankton Junction).

DX Topics

Japanese Stations.

AFTER several weeks off the air I found the Americans were exceedingly strong on the night of January 27. Local interference was bad, however. The following night, at 8.53 p.m., I logged KMPC, Beverley Hills, California, on 422.3 metres (710 k.c.), between 2YA and WLW. On the 29th an American was transmitting right on 2MV's frequency—about 245 metres (1225 k.c.). I cannot agree with JPO (P.N.) that there are no Japs above 50L. On the 29th I heard one on KMPC's frequency (1 1/2 deg. above 2YA). "Cockney" (Inglewood) mentions JOJK on 422 metres (710 k.c.) in last week's issue. I have heard another above WLW with a bubbly carrier. Then again there is a stranger near 3AR, undoubtedly a Jap. Incidentally, J.P.A., did you notice B.S. (Stratford's) letter this week? He remarks that the station on 492 metres (610 k.c.) is undoubtedly JOJK. Several issues ago I mentioned receiving a call JOAK, but thought I was mistaken. I wonder if the Japs themselves know which stations are which?—"Ray Dio" (Shannon).

1ZR's Excellent Transmission.

ON the 24th 1ZR, Lewis Eady and Sons, Auckland, broadcast a splendid programme which included many old favourite songs and dances, also items of interest and topical events. This station is undoubtedly one of the best "B" class. Its volume has to be considerably reduced, which is generally not the rule with other "B's". During last week a large number of Australian "A" class stations were heard at R8. Also 4BK at R7-8, which is quite exceptional for this time of the year.—"Radio Bug" (Shannon).

A New American.

THE 29th January was another wonderful night for reception, especially before 9 p.m. I received station WJDX, Jackson, Mississippi, on 1280 k.c. (234 m.) with wonderful volume in broad daylight. Could anyone give me his address? Is it 3GL just above 2HD? The latter comes in on 7 and 3GL on 8 (dial readings). Glad to see that with the New Year DXers are contributing more to the notes. D.N.A. (Timaru).

Recent Loggings.

I AM one of the 20 New Zealand listeners who have written to KWK for verification. In the last mail I have received 21 verifications from American stations, including: WBT, WMCA, WAAW, WNAX, WJSV, KFXF, and WDAF. S. Ellis (Okato).

"Kum To Hot Springs"

I RECENTLY had a letter of verification from KTHS, Hot Springs, Arkansas. The call letters stand for "Kum To Hot Springs" and certainly after having read the book which accompanied verification, one wishes one could take advantage of the invitation. The book is issued by the Hot Springs' Chamber of Commerce, and is full of interesting information and photos, while the gaily-coloured cover is most attractive. It depicts Indians and early pioneering Americans, "beholding the vision of Perfect Health rising from the Valley of Contentment amid the picturesque Ozarko, that happy region which is near Hot Springs." Fellow DXers who write to KTHS should ask for this booklet. It is quite worth it. K.D.B. (Taumarunui).

A Seldom-Heard American.

I received KPOF on December 8 at good strength. Heard two items plainly

but the others squashed by static. "Yankee," (New Plymouth).

The Japanese Controversy.

J.P.C. (Palmerston North): I do not agree with your statement that there are no Japs above 50L. I have eleven Japs on my log and JOJK comes in 3 degrees above 50L. The station on 610 k.c. (492 metres) is a Jap all right. I was listening to him on 29/1/31 and at 9.20 p.m. he gave his call which as "Cockney" (Inglewood) says, sounded very much like JOJK. So this must be a new Jap station on the air. M.B.S. (P.N.).

Another New American.

ON January 29, at 8.30 p.m., I logged a station on 236 metres (1270 k.c.) which I have not previously seen reported in these notes. The call was given as WJDX, Jackson, Missouri. Reference to the latest Call Book discloses this station to be operating on a power of 500w and owned by the Lamar Life Insurance Coy. Did any other listener hear this transmission, the volume of which was superior to that of KFOX? "Shorty" (Wellington).

Unusual Conditions.

ON the 24th, at about 7.55 p.m., I picked up KOA, Colorado, for the first time. Their time was 1 1/2 minutes past one a.m. They were just going to close down after their usual good night chorus, "Shine on, Harvest Moon," to reopen at 7 in the morning. This was unusual, for I was unable to pick up Auckland or Dunedin, yet KOA came in well.—"Inquisitive" (Motueka).

Japs on Relay.

I ALSO have heard the new station 3WR just below 2NC on the dial. The latter comes in very strongly at

about 9 p.m., N.Z. time, almost every evening. 1ZR, Auckland, was coming in with great volume recently testing at about 1 a.m. The same morning I tuned into four Japs, all broadcasting the same programme, which was in English. Gramophone records were a feature. Several Americans have been coming in well lately after 12 p.m., but static was too bad to get the call signs. I heard only two of them: KRLB and KWKH. Could you publish a list of Australian "B" class stations?—"E.C." (Christchurch).

[Yes. An up-to-date list will be published in about a month's time.—Ed.]

Frequencies of N.Z. "B's."

ON the 24th I heard station 1ZR, Auckland, operating on 260 metres (1150 k.c.). At 9.41 p.m. Miss Gleitze was relating some swimming experiences. The following are verified frequencies of some of the N.Z. "B" stations:—

2YB, New Plymouth, 243m. (1230 k.c.).
2ZO, Palmerston North, 285m. (1050 k.c.).
2ZF, Palmerston North, 235m. (1050 k.c.).
2ZK, Wanganui, 500m. (600 k.c.).
2ZL, Hastings, 225m. (1330 k.c.).
2ZJ, Gisborne, 260m. (1150 k.c.).
2ZH, Napier, 238m. (1260 k.c.).
—"Red Bird" (Wellington).

Australian "B's."

AFTER a rest of a week or two I started DX-ing again on the 27th. It was a great night for it, too, and I logged a few new stations. There was a station coming in on a frequency of

1280 k.c. (234 m.), the call of which I could not catch. The announcer spoke very fast, and the final call when closing down sounded like KDIL. Would this be KDYL? Perhaps some other DX'er heard him. They were putting over a programme by the "Boys of the Old Country Store," and asked listeners to write in for photographs. They were playing request items, and at times reception was very clear. I also logged KFVD, Culver City, on 1000 k.c. (300 m.). I see this station has a small power of 250 watts. I got him first before dark and could just hear him, but later, when darkness fell, reception was wonderful. He was putting across ballads, old and new. The programme was an organ one—and very good too.

This last week I received a batch of verifications from U.S.A. Among them was one from KGA, who stated they had 150 letters from New Zealand by that mail. I agree with the correspondent in last week's "Record" that in the next competition the B class Australian stations should be barred. Last evening I logged about 14 of them. They are far too easy to get. Best luck to the winner of the last competition, and I hope all DX-ers have good logs for the next one. Good wishes to all.—D.N.A. (Timaru).

Synchronised Transmissions.

I HAVE recently received a verification from WTIC, Hartford, Conn., and he reminded me they would be doing some synchronisation work with WBAF in about three or four months time (March or April). This they hoped I would be able to intercept. They also asked me if I could suggest any theory why they have not been heard in Australia. After wishing me the best holiday greetings from their staff the manager finished with the following postscript: "Cheerio



Telling the world he's hungry. This is "Kilowatt," the pet of an American radio station, whose "meow" when breakfast was overdue, was heard recently in Australia.

also from me too; was in the A.E.F. (U.S. Forces) with boys from N.Z. on both flanks."

I recently logged WOWO, Fort Wayne, Indiana, on a special DX programme. Reception was unusually clear. J.P.C. (P.N.): I have logged 11 Japs, and get two above 750 k.c. (400 m.), JOJK on 710 k.c. (422 m.) and another on 610 k.c. (492 m.), which I have not identified as yet. I also have logged the Jap. on 3YA's frequency mentioned by B.W. (Stratford). I have been getting KFKB as early as 10.15 p.m., New Zealand time. I believe they broadcast only in the daytime, commencing somewhere round about 4.30 a.m. Has anyone noticed a station heterodyning 7ZL lately?—"Kia Ora" (Frankton Junction).

News from Java.

I RECEIVED a letter from Bandoeng, Java, following a report on their station PLW.—J.C. (N.P.).

"On behalf of our telephone service with Europe we operate at present:—

PMB on 14.56 metres

PLE on 15.93 metres

PMC on 16.52 metres

PLM on 24.46 metres

PLW on 36.92 metres.

"Each transmitter is crystal controlled with about 80 k.w. power in the last stage. With Holland we are normally operating between 12.00-16.00 G.M.T. Once a week, on Tuesday, we are broadcasting on PLE between 13.40-15.40 G.M.T. Address: Bureau Internationale Telefonie, Bandoeng, Java."

JOCK's Schedule.

ON January 25 I logged KGU Honolulu, 940 k.c. (319 metres). This station was coming in with great volume, tone and modulation being excellent. When I tuned in they were playing "I'm Dancing with Tears in My Eyes," so evidently this song is just as popular with the Honolulu-ites as it is over here. I tuned in to KGMB Honolulu later in the evening and they were putting over the same song. January 25 was a great night for DX-ing. I logged five new American stations, KXA, KPRC, WBAP, KOIN and KELW, between 7.15 and 9 p.m. I notice that "W.H.R." (Dunedin) is puzzled over the Jap station transmitting on 810 k.c. (370 metres). This station is undoubtedly JOCK, who broadcast on this frequency.

I received a card from them recently in verification of a letter I wrote them

last September. Their power is 10 kilowatts input and their address, Nagoya. Broadcasting hours are as follow:—Week days, 6 a.m. to 12 noon; 12.5 p.m. to 5.45 p.m.; 6 p.m. to 7 p.m.; 7.25 p.m. to 9.40.

I received a letter of verification from WGY. Their address is 1 River Road, Schenectady, N.Y. This station is owned and operated by the General Electric Company, who run a chain of three broadcasting stations—WGY, KOA, and KGO. They also maintain W2XAD and W2XAF, short-wavers. 1ZJ Auckland has been booming in lately, their volume being equal to 1YA. I find there is a foreign station always right in the background of 1ZJ, but it does not affect their programme. What station would this be?—"Cockney" (Inglewood).

A Competition Point.

MY latest verification is from 3GL Geelong. The writer stated that mine was the second report from Palmerston North. The other would probably be the one sent in by R.J.R. (Palmerston North).

While listening to JOHK on January 28, I heard what appeared to be a lesson in English in progress. Every word was spoken clearly and distinctly, and the meaning of each word was given. I have also heard the station mentioned by Barle J. Haynes (Christchurch), and although I did not get his call, he is undoubtedly a "Jap." 2AY and 2HD have been received splendidly here lately without fading or distortion. The latter station has improved wonderfully.

I do not think any good purpose would be served by eliminating the Aussie B's from the DX competition. On the contrary, I think such a course would considerably reduce the number of contestants, and would thereby tend to lessen interest in the "cup." As the editor remarks, some of these stations are not easy to log. Any DX-er with four or less valves would probably consider the logging of some of these "B's" quite a feat. S. Ellis (Okato) seems to be lying low lately. He must be waiting on another batch of U.S.A. verifications. By the way Mr. Ellis, did you notice the earth system featured on page 13 R.R. of 23-1-31?—"Amazon" (P.N.).

Good American Reception.

CONDITIONS for reception of American stations were good on January 21. I bagged the following: KTAT, Texas.

KTBI, Los Angeles, and KGFJ, Los Angeles. I would be interested to hear from any DK-er who has heard this latter station lately as to what frequency they heard them on. I logged them on 1160 kilos (259 metres). KFVD, Culver City, had me puzzled at first as speech was in a foreign language but thanks to Mr. Blucher's (N. Auckland) notes in R.R. I surmised that it was KFVD. This was confirmed later when I heard the call and location given in English.

KTBI, KGFJ and KFVD were logged in the early hours of the morning of the 22nd—KTAT at 7.57 p.m. on the 21st. I was very lucky to get the last mentioned station as I was trying to get KFOX—which is usually my best American. I



NELLIE LINGARD.

a very pleasing contralto, popular with 1YA listeners.

—Steffano Webb Photo.

tuned in KFOX as I thought and decided to stay on them as signal strength was about R9. To my astonishment call given was KTAT. Immediately afterwards 2YB came on. At first both stations put up a great fight—first one and then the other gaining the ascendancy—but in the end 2YB prevailed. I think I will get verification as notes taken were all announcer's remarks. Has any other DX-er heard the Chinese stations lately? I have been trying for them but with no success. "Jaka" (Wellington).

A Doubting Thomas.

IT seems a pity to correct "Radio Bug" (Raetihi) in your issue of January 30. He is so enthusiastic about reception lately, and rightly so. However, a little calculation on the part of "Radio Bug" would show him that WLW commences at about 6.30 a.m. there, which is between eleven and twelve midnight here. One can hardly imagine WLW commencing its morning session with dancing lessons, in the depth of winter. "Physical Jerks" is the idea, as you are no doubt aware, and it sounds like a circus. It seems a pity our local station here has discontinued broadcasting its morning physical exercises session. Carry on, "Radio Bug."—H.M.S. (Dunedin).

N.Z. Test Programme from N.R.H.

REGARDING the South African station located at Nairobi. This station has been operating on the 40-metre band now for some time, but it was not until December 31 that I was able to identify same. "ZLIX," writing in last week's issue of the "Radio Record," states that the call sign of the Nairobi station is VQYLO. At different times I have heard the call given as 7LO, Nairobi, which was his old call when working on 31 metres. It is quite probable the above new call is given, but so far I have not

heard it. I have heard his transmissions as early as 4.45 a.m. He is a little stronger than later—at times he is quite loud enough to hear announcements of musical items. He also gives the number of the recording after each item played. At 6.30 a.m. a time signal is put over, followed by a news session.

On January 18 NRH, Costa Rica, continued to broadcast for another hour after his usual time of closing down at 4 p.m. From 4.30 p.m. till 5 p.m. was a good R7, 100 per cent. readable, and very good modulation. Not long before he closed he put over a bugle call. It was wonderful for a 7-watt station. Always now before closing a clock chimes the hour. It is quite probable in the early days of March NRH will broadcast a special one hour's programme by way of an experiment, as arranged by Senor Marin and myself. It will take place between 5 p.m. and 6 p.m. our time. When I know the exact date I will make it known. VE9CL, Winnipeg, 48.5 metres, was heard on January 21 at 6.30 p.m., transmitting Wurlitzer organ music from the Garrick Theatre, Winnipeg, closing at 7 p.m. Reports were asked for. Here is one for the late birds to identify. Station on 74 metres, heard after midnight, all announcements made in foreign language. Reaches volume of R7.

Station HSIPJ, Siam, was heard after midnight recently on 37 metres, modulation perfect, strength R8, but too much native music for my liking. The amateur 80-metre band is now alive with New Zealand phone stations. The best of the bunch are 2BE, Hastings; 2AX, Palmerston; 2EF, Gisborne; 2BO, Wellington.—A. P. Morrison (Wellington).

Radio-Equipped Yacht

Sailing for New Zealand

ON January 17, after being completely overhauled and refitted, the yacht Oimara left Sydney on the first stage of her trip to New Zealand.

A portable transmitter has been installed on board, and at 9 a.m. and 8 p.m. each day the progress of the voyage will be broadcast on a wavelength of 42.6 metres. These tests should reveal some very interesting information upon the performance at sea of short-wave low-powered signals.

Short-wave listeners are advised to search for a pure d.c. crystal-controlled carrier possessing a bell-like ring. The signals should be easily distinguished, for the motion of the yacht will cause a regular variation, though this may be slight, in their intensity.

Broadcasting Opera

RECENTLY Gounod's opera, "Faust," was broadcast from the Chicago Opera House. Fifteen microphones were utilised for this pick-up, seven being placed along the footlights, two in the stage flies, three in the orchestra, and the balance distributed over the auditorium, in order to secure good effects. By special land-lines the transmission was taken to New York and broadcast over a nation-wide network of stations.

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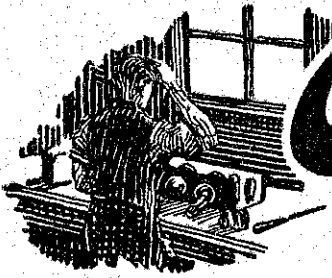
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Questions and Answers



WIRELD (Wellington): I can pick up Wellington only faintly on the Differential Two, very much fainter than I did with the one-valver.

A.: If you had it going well on the one-valver you may be quite certain that it is a wrong connection, a defective transformer, or valve. Have your transformer tested and check your wiring from the diagram of the "Night Hawk" published last week.

2. The differential condenser does not affect this set.

A.: Did it not affect the one-valver? If the trouble was there in the smaller set it should be eradicated before a two-valver is contemplated. In our experimental model we experienced the same difficulty and traced it down to a wrong connection in the coil. Check over your coil very carefully, and, if it is still at fault, take it along to a dealer who builds these receivers and ask him to try it out in one. The set as we describe works splendidly, and if you have followed the directions carefully and have efficient components it is impossible to encounter difficulty.

3. I am using HL610 as detector and PM6 as audio. Is this combination satisfactory?—Yes.

CURIO (Dunedin): I have had my set for 18 months, but lately the local station has been coming in all round the dial.

A.: It seems as though your valves want renewing.

2. Do you think a wavetraps can be operated with the set?

A.: It should not be necessary with two stages of r.f.

3. Could you give me a diagram for an efficient wavetraps? I have not had success with any yet.

A.: You have been very unlucky. Wavetraps published in the "R.R." have worked splendidly, and the most recent one contributed by a country listener is particularly efficient.

PLIO (Devonport): My set has a considerable a.c. hum. Kindly supply some probable causes and cures. It is an 8-valve a.c.

A.: Experience has shown us that it is pure folly for us to attempt to direct anyone into the intricacies of an a.c. set, consequently we advise you to take your set to a dealer and ask him to put it in first-class order.

PETER (Auckland): I can receive N.Z. and Australian stations on the long-wave, but can only get a few N.Z. short-wave amateurs. The set is a three-valve all wave.

A.: If you used a special detector you might do better. Why not try the 3-valve differential circuit that we shall be bringing out shortly?

NUCHUM (Nelson): Is my set in order when the speaker leads spark when coming into contact with the metal part of the cabinet? The two last valves lit up brightly when this happened.

A.: It is quite in order for the speaker to spark when brought into contact with the frame. We cannot understand your valves lighting brightly without burning out. It seems as though B— is connected to A+ and A— connected to the frame. If A— is to the frame, see that A— and B— are connected together.

2. Could you name a good combination of Radiotron valves for my set?

A.: The best combination would be five 221A's and the 171A. The 221's are rather hard to obtain, and you may have to use 201A's.

E.B.C. (Auckland): What is the best length of aerial for a short-wave receiver?

A.: Thirty to forty feet. As high and short as possible.

2. What is the advantage of the aerial Cop?

A.: The aerial Cop is a splendidly designed lightning arrester. It can be installed outside, is absolutely impervious to the weather, and if affected by lightning the fuse can be replaced.

3. If I encase the condensers to keep out moisture will the stability of tuning be affected?—No, the idea is quite good.

4. How can eliminator hum be overcome?

A.: In the 1931 "Guide" we shall have quite an amount to say about this problem. It is possible generally to overcome hum on short-wave by using an extra choke coupled by a large capacity condenser in the detector lead. An efficient transformer immediately following the detector is essential.

P.W.B. (Wanganui): What would be the best Mullard four-volt valve combination for my B.D. Three?

A.: PM3, 4DX, and PM4.

2. Why is it that I can receive some of the Australian stations better than IYA?

A.: This is due probably to your location.

3. Would it harm a new 45-volt block to put it in series with one whose voltage is down to 39?—No.

H.A.P. (Taihape): My Daniells charger is not functioning properly. The battery has gone down since it was connected, the zincs have eaten away, and crystals of bluestone are forming on both sides of the porous pot.

A.: The reason for the zinc to eat away and the crystals to be formed on the porous pot is that the solution is too strong. Add a little more water to the sulphuric acid solution and scrape the crystals off the porous pot. Keep the charger continuously on the battery and make sure that the lead coming from the copper is connected with the positive terminal of the battery.

A.E.A. (Auckland): We are affected by passing motor-buses whose ignition system causes severe interference.

A.: Complain to the manager of the bus company and ask if it is not possible for the ignition system to be bypassed with condensers. This is not expensive and would be indeed effective. Failing this communicate with the District Radio Inspector. It might be as well to check up with other listeners along the bus route and see if they experience the same trouble. Two complaints will always be more effective than one. If necessary we could supply a diagram showing how condensers should be connected across the ignition system.

2. Does a tiled roof have the same capacity effect as an iron one?

A.: Not so long as it is dry, but immediately it becomes wet it provides a fairly good path to earth.

3. Is my present installation a good one?

A.: Not particularly. The aerial should be higher and the lead-in brought directly to the set, instead of having to climb round the inside walls. The fact that it is only 7ft. from the ground at one end is really quite inefficient. A better aerial would be on the chimney and down the side of the house to the set.

K.V.D. (Rotorua): What are the correct valves to use in my American six-valve set?

A.: Five Radiotrons 221's or 201A's and one power valve of the 171A type which is not necessarily Radiotron. See from the carton that accompanies the valve that it is biased correctly.

2. Where could I procure an instruction book for the set?

A.: Write F. and A. Odlin, Wellington.

3. I have a five-valve commercial set. How can I add a stage of screen-grid r.f.?

A.: With a commercial set it is not worth while to try to incorporate one of these valves.

4. Would 221's be better than 201A's?

A.: The 221's would be better, but they are probably difficult to obtain.

5. What power valve should I use?

A.: Any make of power valve and one of the 171A type.

4. Can I make the amperite for a detector valve and a rheostat for the audio stages?

A.: As you are using a six-volt valve as detector you will not need an amperite. If, however, you change over to a five-volt valve you will have to use an amperite in the detector stage and

Which is the BEST Radio?

Your eye tells you which cabinet is the most pleasing to your taste. In a side-by-side comparison, your ear tells you which is finest-toned—but which one, really, will BEST get the programme you want, when you want it? The only way you can tell this is by TEST in actual practice.

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CORRESPONDENTS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Questions arriving without it are likely to go astray or be delayed.

Name of set

Number of Valves

Name

Address

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.....

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

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

Solving trouble, as different from advice, is difficult by correspondence and while letters are given every consideration, answers are not necessarily correct—they are only our opinion based on the matter supplied, which may be quite inadequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

could use your rheostat for the audio stages. It would be preferable, however, to use the rheostat for the r.f. stages.

"WHISTLE" (Wellington). Why does my set burst into oscillation when tuned to 3YA? Am I oscillating or is it someone else?

A.: It sounds very much as though you have a persistent howler on 3YA. Take off the aerial. If the howl is not there you can rest assured that it is an outside set. If it is, reduce the detector voltage. There is no reason why it should oscillate on 3YA and on no other station.

2. I am using a five megs. grid-leak. A.: Try reducing it to two megs., as this value should give you better overall results.

INTERESTED (Eastbourne): I can get excellent results from New Zealand and Australian stations, but am unable to get American. Do you think it is the locality or my aerial, which is below the roof of the house?

A.: Probably both. Your locality is notoriously bad, and your aerial is very poor if it is below the level of your house. It will possibly be shielded by the roof.

H.L.M. (Whangarei): Which is the most satisfactory for all-round work, the detector, screen grid r.f., and one stage of audio, or detector and two stages of audio? Both circuits are the differential three.

A.: For quality use the latter with a good power valve. For distance getting, the former.

2. I have at present a straight-out four-valve circuit of 1927 vintage. Would the Differential Three with a screen grid r.f. be better?

A.: That is rather hard to say, probably yes, or at least as good, but if you have a four-valve set on hand why not make the four-valve differential receiver?

3. Which is the optimum condenser to use in connection with the .0001 mfd. fixed condenser to reduce the combination for short-wave work?

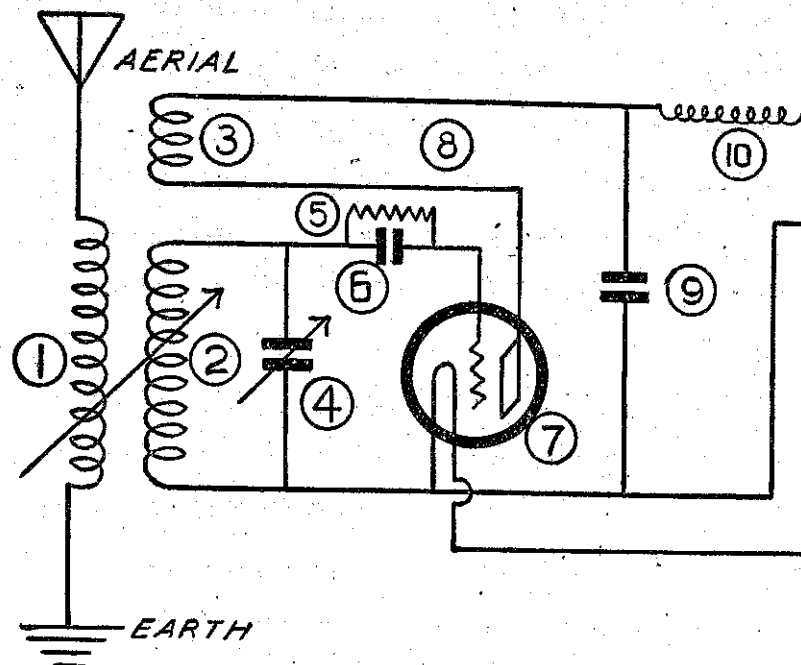
A.: .00035 would be better, as a lower resultant capacity can be obtained.

F.G. (Wanganui): I want to use a telephone wire which runs from one hill to another to hang my aerial on. It is 90 feet straight above me. I have permission to do so, but would the connection interfere with either the telephone or the wireless set?

A.: It is a little bit risky, for you might interfere with the telephone, and also you might pick up some of the conversation on your wireless. However, you could try it. Use as many insulators as you can between the telephone and your wireless aerial.

C.H.W. (Invercargill): Lately I noticed that the set worked better without the r.f. valve. I cannot get the "C" battery to work properly, although I have tried different values of bias and reversing the connection.

A.: It seems that your valves should be tested. Although the valve lights up it is no criterion that it works correctly.



A Typical Three-Coil Tuner. No. 1, aerial coil; 2, grid coil; 3 regenerator coil; 5, grid leak; 6 grid condenser.

Test the secondary of your last transformer and check over the grid return of that valve.

"CONDENSER" (Hamilton): What does it mean by saying a "three coil tuner"?

A.: A tuning device using three coils. The first connected to the aerial and the earth, the second to the grid of the valve and A+, the third to the plate of the valve and the choke or transformer or phones.

2. In my sketch there seems to be no B— connection.

A.: A— and B— are connected.

Note: Your exact requirements were not very clearly stated in your letter. If you intend to build this set let us counsel you to attempt something more modern, say one of the 'Differential' series. These old sets are quite out of date.

KOIL (Timaru): What number of turns must I put on a 2in. coil to be used with a .0005 condenser for a Differential Two?—64.

2. In the second instalment of the Dif. One are the specifications for a .0005 or .00035 condenser?—0.00035.

3. I intend building a four-valve version of the Dif. series. How far would a tuning condenser be from the left-hand side to balance the condenser on the r.f. stage?

A.: The reaction condenser should balance the r.f. condenser. Both these will be 4in. from the sides. If you desire to balance one tuning condenser against the other you must design a layout to suit yourself. It's easy.

D.X. (Dunedin): I have come into possession of a Super-sonic short-wave adapter. Is it any good?

A.: Super-sonic adapters are usually quite satisfactory, especially where the carrier wave is fairly strong. Where, however, it is weak it is not easily picked up.

2. What alterations, if any, would have to be carried out in the wiring to use English screen-grid valves?

A.: You could use English valves quite well by watching mainly the filament voltage and remembering that the plate is at the top of the valve.

NOTE: A full description of a superhet. adapter that has been tried by us will appear in the 1931 "Guide."

C.C.T. (Wellington): Is not an aerial erected in the same direction as 2YA's transmitting aerial the best for all-round reception?

A.: For the average "L" or "T" aerial direction has no effect. The only practical aerial that has directional effect is the Beverage.

2. What are the chief symptoms of the 280 type rectifying valve losing its emission?

A.: A general loss of power due to the voltage petering out.

3. A loud hum accompanied by a gurgly reception is experienced when my a.c. chassis is not earthed.

A.: This is quite in order, because when the earth is removed the set is on the verge of oscillation. The set is then noisy, but it is more sensitive than normally.

4. Is it not practicable to take out "B" voltage leads from my set to work the sup-heterodyne short-wave unit? Could specification be supplied for a power pack using the 201A as rectifier?

A.: You will need a separate power pack and could use the 201A as rectifier. The 226 would, however, be a better valve. These points are being fully dealt with in the 1931 "Guide," which is well under way.

GRID (Tamatua).—Would a car generator be quite satisfactory for charging a six-volt radio battery?—Yes.

2. Does the amateur reading at either slow or fast charge indicate the voltage is six?

A.: The voltage is really slightly more but as the car battery is practically the same as a radio battery, you need not worry about the voltage being wrong. Do not, however, attempt to charge a radio battery at a rate greater than 2 amps.

3. Why are American and English circuits unsuitable for New Zealand conditions, and why is it that there are so many American sets on the New Zealand market?

A.: American circuits are not really unsuitable for New Zealand conditions except where the aerial is directly coupled with the grid. As English circuits usually incorporate this feature, and as, too, they usually have a loading coil for the longer wavelengths, they are unsuitable. American s.c. sets are usually designed to operate from 110 volts, and as we are on 230 v. a step down transformer must be used.

TRICKLE CHARGER (Khandallah).—

Could you explain the band pass system and the B.P.F. unit in the "Record"?

A.: A B.P.F. unit was described when the Akarana Four was described about six months ago.

2. In the "Guide" you give the 375 A. tifying valve as 2.4 volts. Is this not incorrect?

A.: Yes. It was such on the specifications that originally reached us, and consequently it was impossible for us to detect the error. We are, nevertheless, sorry it occurred. It should be 4.

D.S.D. (Wanganui): I have encountered trouble with the "L.W. Three." When trying the amplifier with a pick-up there is a loud popping sound in the phones which can be made fast or slower by adjusting the hum bucking potentiometer. The 100,000 and 5475 ohm resistances become fairly hot.

A.: It appears that your trouble is in the bias chain. Try different grid-leaks. The 100,000 ohms resistance should not heat. Try removing it. Some of the new circuits connect the half meg. grid-leak directly to the B plus terminal of the output transformer and try altering the value of the bias grid-leak. However, this should not be necessary as the set should, if made from our description, work perfectly. We experienced a little trouble, but experimenting and diligent search cleared these obstacles away. Have the screen-grid valve tested and if possible try another one in its socket, as they vary a great deal. We advise you to get the amplifier working perfectly before using a radio stage. No trouble should be experienced once the amplifier is in good order.

"ION" (Christchurch): I completed the L.W. Three and on the whole it gives good results. I have not been able to balance out all the hum.

A.: See our replies to the above correspondent. Your trouble probably lies in a defective grid-leak resistance.

2. The selectivity and sensitivity seem poor. I have to use a wave trap to get

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2YA, and when 3YA is tuned in to its peak the set is unstable.

A.: It may be necessary to use a wave trap on Wellington if you are not very close to 3YA. One stage of r.f. is not particularly selective, nor, for that matter, sensitive. The fact that your set is unstable when tuned to 3YA suggests that there are still too many turns on the radio frequency transformers. Reduce the turns to about 70.

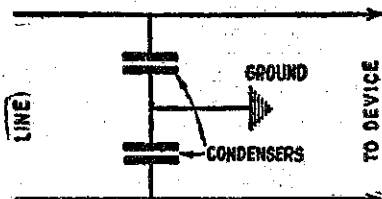
3. Would you advise two stages to remedy these defects?

A.: Two stages would certainly give you greater sensitivity and selectivity, but it might be as well to get your amplifier working perfectly before attempting the extra stage.

Note.—The other points mentioned in your letter are quite in order. The correspondent points out that he had a break-down between the 280 filament winding and the secondary. There is a very high voltage between these two windings and it is wise to put two layers of Empire cloth between them.

"AMBITIOUS" (Gisborne): What gauge wire and how many turns could I use on (a) the field coils (b) the voice coil of a dynamic speaker?

A.: The voice coil will depend upon the impedance of your last valve or valves. Had you told us what they are we might have helped you. The specifications for the field coil are:—37,000 turns of 38 gauge enamelled wire. 3lbs will be needed.



ed and they will occupy 92 layers. The current pass will be 32 amps.

2. Why does my set distort on everything except gramophone record broadcast?

A.: We can think of no adequate reason why this should be. You may be getting microphone blast, but that is most unlikely.

3. Where can I obtain details for making a small generator, of say 500 volts?

A.: Write to Johns Ltd., Auckland, who seem to have a great deal to do with this type of apparatus.

4. My motor sometimes causes disturbance to listeners. How can I remedy this?

A.: That subject was fairly fully dealt with in an article which appeared some months ago. We reproduce a diagram which should help you.

R. T. (Shannon): How many turns will I need upon the primary of a r.f. transformer which has an inside diameter of 1½?

A.: Wind about 26 turns on a 1in. former and take out the centre tap. Place this inside the low potential end of the grid coil. The tickler on the same sized former should be about 20 or 25 turns placed under the grid end; 30 gauge d.s.c. would be quite in order and for the r.f. valve a 221 would be preferable to a 201A.

"TUBE" (Invercargill): Which aerial would give me the best results for direction, one due east and west, or one north and south?

A.: For short aerials direction effect

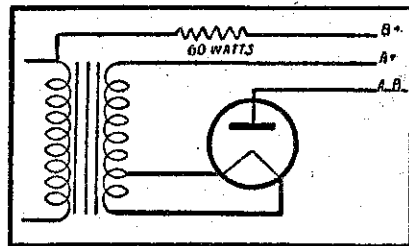
can be ignored. If there is any gain it would be on the one going east and west.

2. If I use a "T" aerial is it absolutely necessary that the lead-in wire should be taken from the middle of the aerial?—Yes.

3. Are glass insulators the best for the aerial?—Yes.

"TUNGAR" (Wanganui): What are the number of turns on the valve base coils for the PCJ Four?

A.: Last week we gave a fairly comprehensive table. You should be able to get what you require from this.



2. In the gravity type Daniell's cell how are the copper sulphate and distilled water kept from mixing?—They are not.

3. Using a transformer without any centre tap what would be the connections to a tungar bulb to charge my "B" battery?

A.: See the accompanying circuit.

4. Does the gravity type Daniell cell work as well as the porous pot, and would it give ½ an amp?

A.: The porous pot is the better and would deliver ½ amp.

5. How many amps. would my set take using the enumerated valves?

A.: You have not stated the "B" voltage nor the bias, but we should estimate it at about 12–15 mamps., using a maximum of 135 volts.

Could I use a .00025 instead of a .0001 grid condenser in the P.C.J. Four without making a great deal of difference?

A.: Yes, you would need to make the alterations in the coils as were given last week.

2. Would the P.C.J. Four work satisfactorily on shortwave and broadcast?—Yes.

"MOI Where" (Feilding): My valves are becoming weak and I want to replace them. Would PM5 be better than my existing detector?

A.: If you want to use Mullard, PM6D would be the best.

2. Would 221's be better than the valve I use now?

A.: In all probability, yes.

3. There is a remote chance of my getting near a power line. Would an eliminator supplying 180 volts and 30 mills. supply the above-mentioned valves and a 603 with enough current?—Yes.

4. What does impedance, amplification factor, slope, and undistorted output mean in everyday language?

A.: Impedance is the resistance of the valve. Generally speaking the lower it is the easier the valve will work in your circuit. The aim of valve-makers is to reduce impedance. Amplification factor implies the number of times the valve will multiply the signal. The higher this is the better. Generally, however, the higher the amplification factor the higher the impedance, so that for valves in different parts of the set one has to be sacrificed. In the r.f. portion it is impedance, in the a.f. part it is amplification factor. Slope is the real measure of the efficiency of the valve. The steeper the slope measured in amps per volt the bet-

Don'ts for the S.W. Listener

THE following advice to shortwave listeners is taken from the December issue of the International Shortwave Club's magazine, forwarded us by "ZLIX" (Palmerston North):—

Don't expect to find stations on all parts of the dials. Shortwave stations are widely separated, except in a very few places.

Don't expect stations to tune broadly. Most distant stations tune very sharply.

Don't expect to hear the world the first day you tune. It requires some knowledge of tuning to get excellent results.

Don't be disappointed after your first efforts. There are many distant stations to be heard when you learn to tune.

Don't expect to hear a station simply because it is on the air. Many things govern shortwave reception.

Don't get discouraged. If reception is poor one day, it may be fine the next.

Don't skim over the dials. Tune slowly.

Don't ignore any weak signals. Often a weak programme can be brought out plainly by a careful tuning.

Don't tune for stations when they are not on the air. Use a station list.

Don't tune haphazardly. Learn where stations should be found on the dials of your particular receiver.

Don't expect wonderful results with a poor receiver. A good receiver is necessary for good results.

Don't tune above 33 metres for distant stations in daylight.

Don't tune below 25 metres for distant stations after dark.

Don't expect to hear many distant stations above 50 metres.

Don't expect the best reception at night. Short waves offer twenty-four hours of entertainment each day.

Don't say, "I heard your station" when writing for verification. Tell what you hear and how you hear it.

Radio in Japan

Free Servicing Scheme

BROADCASTING in Japan is run by a corporation constituted on non-profit lines under the strict supervision of the Government. An excellent service scheme, comprising over 1500 service stations operating under the control of the B.C.J. engineers, is maintained to help listeners in every possible way.

Those who are experiencing trouble with their sets may take them along for expert diagnosis, and small repairs are made free of charge.

An analysis of about half a million cases concerning defective receiving equipment was made recently, with interesting results. Fifty-five per cent. were battery-operated receivers, thirty-four per cent. all-electric, and only eleven per cent. were crystal sets.

These figures certainly indicate that Japanese listeners are quite as up-to-date as those in this country.

ter the valve. Undistorted output is the amount of current that can be supplied without distorting.

Some Excellent Receivers

OUR constructional article next week should appeal to all constructors. We have been asked many times for the 1931 Browning Drake and have consequently built a model incorporating all the new ideas of design. This will be published next week under the name of "The Outspan Five." There are two stages of screen grid, differential condenser controlled reaction, and two audio stages. The present set used three dials because it is not an easy matter to perfectly match three coils when regeneration is used. We are at present experimenting with the coils in order to get them perfectly matched, and when this is done we shall describe the set for single dial control.

Instructions will be given for changing over the old Browning Drakes to this type of receiver, for it is quite possible to use the three-coil regenerator former of the B.D.

Our next constructional feature will be the three-valve differential receiver. This is the next in the series being described by "Cathode." As before, it will be followed by our own description of a complete three-valve, "The Kestrel Three."

This receiver will be followed by a complete four-valve differential receiver.

Sporting Relays

SPORTING events have taken a prominent place in the 1YA programme lately. Descriptions of the play in the Plunket Shield cricket match with Wellington were relayed from Eden Park; the Leckie-Johns boxing contest was relayed from the Town Hall on Monday evening; the Takapuna races were relayed on Thursday and Saturday, and also the tennis championships from the Stanley Street courts. Altogether the local sports announcers have been kept busy and sporting listeners have had ample fare to interest them.



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Combining Crystal and Valve

"Cathode" describes some Ingenious Circuits



READERS will remember that the last article in this series closed with a somewhat scanty introduction to the "Sharman" circuit. One feature of this circuit which renders it valuable in some circumstances is that it does not follow strictly the square law which operates in the case of the crystal rectifier more normally connected.

That is to say, when input is halved, the signal strength is not reduced to one quarter as with the normal crystal

be seen that there is no obstacle to radio-frequency currents between the output of the crystal rectifier and the grid of the first audio amplifying valve. Thus, any radio frequency currents present in the output of the crystal rectifier will necessarily be applied to the grid of the following valve.

Now this is a very important point. It can be taken for granted that radio-frequency currents will be quite strong in the output of the crystal, as no rectifier is perfect and there is only a minute by-pass available for such cur-

and see what you think about it yourself.

Winding the Coil.

THE exact arrangement of the reaction circuit is largely a matter of individual preference. Anyone who possesses one of the old three-coil tuners with variable coupling between the tuning and reaction coils will be able to try out this circuit very readily, using the coupling between coils as a reaction control. Alternatively, the reaction coil could be wound on a revolving former housed within the tuning coil after the fashion of the old type of Browning-Drake regenerator.

The circuit shown in fig. 1 is actually a modified Schnell circuit employing condenser control for the reaction, which has the advantage of being very smooth and easy to handle. A special coil assembly is used and this may conveniently be wound on a former having an outside diameter of three inches, with a length of about five inches. The tuning coil, comprising 50 turns of 24 d.c.c., will occupy about two inches in the centre of the former, while the reaction and aerial coils may each be of about 30 turns of the same or finer wire wound one on each side of the tuning winding and spaced from it about one-eighth of an inch. The tuning winding mentioned (50 turns) is intended for use with a .0005 mfd. tuning condenser, but a .0003 or .00035 condenser may be used if the number of turns is increased to 60. The reaction condenser should be of .00025 mfd. or any larger size.

played in making the necessary connections.

Choosing a Crystal.

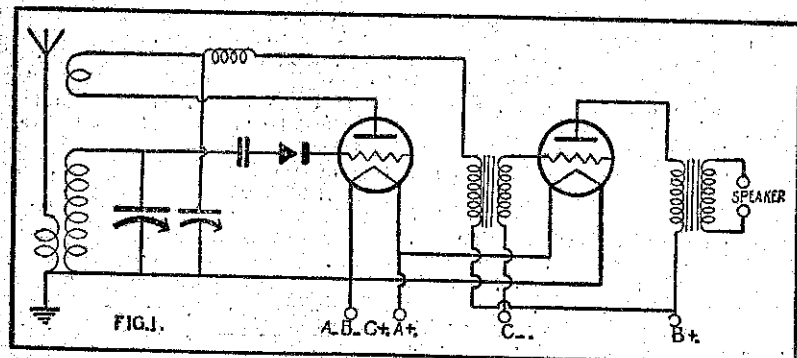
THE remainder of the circuit scarcely needs any explanation. An output transformer is shown in the diagram as, in its modest way, this little receiver is essentially a "quality" receiver and the output transformer, by keeping the plate current out of the speaker windings, assists in maintaining an absence of distortion. However, this component can quite well be omitted if its inclusion is inconvenient.

The crystal detector can be of any recognised type, although the permanent and semi-permanent detectors are a considerable advantage in any valve-crystal combination. The carborundum detector is a very happy choice in this particular circuit, in which it is free from its chief disadvantage, namely, the necessity of providing a 0.7 volt biasing potential to realise proper sensitivity. It is difficult to see exactly why the biasing potential should be unnecessary in this circuit, but there is no doubt about this being the case.

The "Trinadyne"

THE next circuit to which reference must be made is known as the "Trinadyne," in which some readers will recognise a doughty performer of other days.

It is a fact often overlooked that, given the aid of modern and efficient components, these long-known circuits



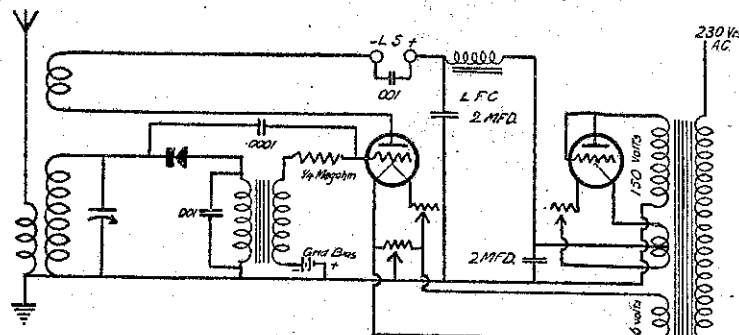
detector, but falls more in accord with the input. Thus the circuit is particularly useful when signals are on the weak side. It is fairly well-known that, with very weak signals, it is not much use adding audio amplification after a crystal detector. With the Sharman system of connection, however, audio amplification is very effective, even with weak signals, so that it is actually possible to increase the range of the receiver by adding audio amplification.

An Ingenious Circuit.

THIS is only half the story, however. The simple Sharman circuit previously published has been redrawn in Fig. 1 in a rather more elaborate form, and if reference is made to this it will

rents. So the first valve will obviously amplify the radio-frequency currents as well as those at audio frequencies. The amplified r.f. currents will be in phase with those in the tuning coil and it readily occurs to one that it would be a good idea to feed back these amplified currents by means of a coil variably coupled to the tuning coil so as to boost up the incoming signals.

Thus we have a kind of reaction circuit. Reaction is very valuable in any receiver as a means of reducing the effect of damping. And as damping is very pronounced in any circuit employing a crystal rectifier, reaction is correspondingly more valuable in eliminating its effect. Just try this Sharman circuit on long-distance work



An a.c. version of the Trinadyne, which readers will recognise as the "crystal and valve with three-valve performance," first published two years ago.

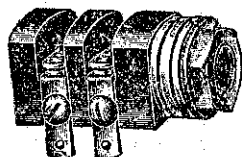
The small condenser preceding the crystal detector is of great importance in this circuit. What is required is a very small fixed condenser. Unfortunately, the smallest fixed condenser obtainable commercially is of .0001 mfd. and, although this is usable, a smaller condenser is desirable. One way out of the difficulty is to use a midget variable condenser such as is used for neutralising. Another solution is to make a minute fixed condenser, this being readily done by overlapping two lengths of insulated wire an inch or so and binding or twisting them tightly together. The remainder of the lengths of wire can, of course, be usefully em-

are capable of giving quite surprising results. When the Trinadyne first saw the light of day, the valve having a suitable impedance (6000 ohms or thereabouts) were hampered by amplification factors of about 3 or 4. The difference which a modern valve of similar impedance but having an amplification factor of 15 or 16 will make can readily be imagined.

Theoretical Discussion.

IN the "Trinadyne" the application of r.f. currents to the grid of the valve, which occurs almost automatically in the Sharman circuit, is deliberately brought about by by-passing the

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crystal detector and the succeeding audio transformer with a .0001 mfd. fixed condenser. The circuit is shown in outline in Fig. 2. It will be seen that a reaction effect almost precisely similar to that obtaining in the Sharman circuit is obtained.

There is a considerable difference, however, in the part of the circuit prior to the valve. Instead of the audio output of the crystal being applied direct to the grid of the valve, it is fed through an audio transformer by means of which a considerable step-up in signal strength is obtained. The by-passed r.f. currents are prevented from taking an easy path to earth via the transformer (and incidentally interfering with this component's proper operation) by the interposition of an r.f. choke between the grid of the valve and the secondary of the transformer. Naturally, this choke does not present any obstacle to the passage of audio currents from transformer secondary to grid.

The two current paths are easily followed. The small part of the r.f. current which is by-passed via the .0001 mfd. fixed condenser is applied to the grid of the valve, amplified, and fed back to the tuning coil by means of a reaction coil coupled thereto. The other and major part of the r.f. current is rectified by the crystal, the audio output being applied to the primary of the audio transformer. The output from the secondary of this is applied to the grid of the valve, amplified, and rendered audible by a speaker or telephones in the plate circuit of the valve.

Most of the notes made in connection with the Sharman circuit apply here also, so that it is unnecessary to go over them again. It may be noted, however, that because of the low impedance of the crystal detector, the use of a high-ratio transformer will not result in impaired tone. A ratio as high as 7 or 8 to 1 may be employed if such a transformer is available.

Comparisons.

READERS will no doubt wish to know how the "Trinadyne" compares with the Sharman. Perhaps the best advice is to try them both. However, it will be some guide to say that where signal strength is reasonably good, the "Trinadyne" will give

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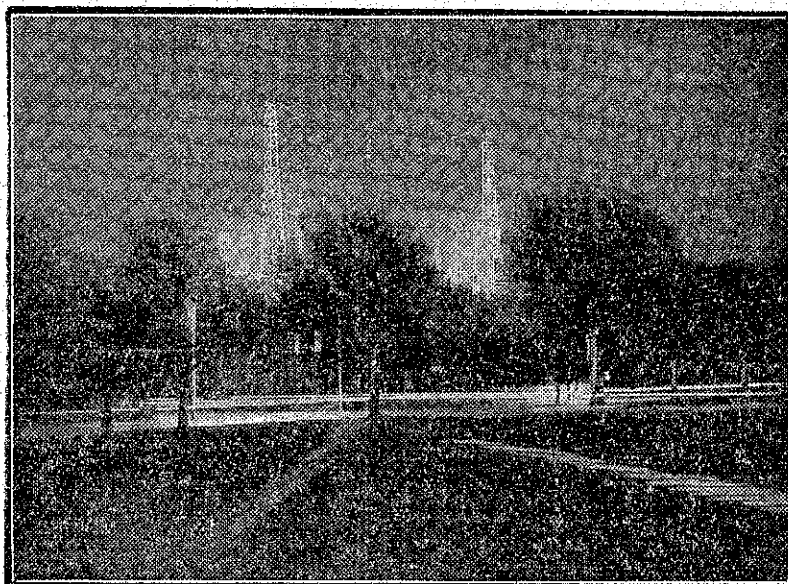
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(Country Accessories Supply)

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SCIENCE and experimentation have relieved modern prospecting for buried treasure of its former vicissitudes. Nowadays, magnetism, electricity and radio are being harnessed to locate valuable deposits of subterranean ores and oil. The detailed geological knowledge of promising regions now available replaces the tedious pioneering treks of daring prospectors

pecting hark back to the World War when technical detectors of submarines were perfected. The propeller sounds of submarines in motion were located by means of special hydrophones invented for that purpose, while magnetic sleuths discovered the whereabouts of the steel ships at rest, by the reflection of sound waves.



An unusual view of 3YA's towering masts, taken at night.

who roamed and roved over unexplored country and delved with pick and pan into rock-ribbed terrain.

The modern geophysical methods of prospecting are based on definite physical principles and are the products of rational research. They are not related in any way to the fictitious divining rod or "doodle bug" systems of hocus-pocus oil deposit discoveries. "The divining rod is either a fraud," says no less an authority than "Uncle Sam," or is founded on some "physiological principles concerning which we know little or nothing—like the sense of direction in migrating birds and fishes."

Ore bodies, including all the precious metals as well as salt domes and oil "caches," are now being located by magnetic gravitational, electrical and seismic survey methods, while radio is being tested for its applicability to similar purposes.

The dawn days of geophysical pro-

an appreciably greater output—on the local station good speaker strength may be obtained with one valve with this circuit—but that on very weak signals the Sharman is likely to be more responsive.

We have now gone far enough to enable readers to try out both of these extremely interesting circuits. In the first part of our next article in this series further information will be given regarding the "Trinadyne."

Underlying Principles.

A CLOSE analogy exists between hunting submarines under water and locating ores buried far underground. Detection of either depends on the difference between the properties of the body and its surrounding medium.

In ores the difference is sometimes magnetic, as in cases where iron ore occurs, or it may be electrochemical, as in the case where a sulphide ore is present. Various electromagnetic effects result from certain combinations of ores in the earth. Hence some of the new electrified detectors are direct or continuous current, and others use alternating current with a wide range of frequencies.

Important differences in density facilitate gravitational detection by the use of a special pendulum or torsion balance. Where the materials differ in elasticity as well as in density, the velocity of sound or shock waves varies and can be determined by seismic systems—a quake recorder is used to pick up any reflected or refracted waves caused by an explosion. The best prospecting methods to apply depend upon the geological structure of the region and the type of ore sought.

Recently, experts of the U.S. Bureau of Mines have been testing the efficiency of electrical systems of ore detection on Caribou Mountain in Colorado, a locality which has yielded more than 50,000,000 dollars (£10,000,000) in subterranean wealth

recovered as commercial gold, silver, copper, lead and tungsten. The geology of that region has been explored thoroughly, while it is ideally adapted to magnetic methods of geophysical prospecting.

Hence there was a background of conclusive data for direct comparison with the results of the recent electrical surveys. This was the first time that such comparisons have been attempted, and the results demonstrated conclusively the reliability of the new methods of electrical prospecting.

THE simple and portable apparatus used in the latest Government experiments harnessed ordinary radio "B" batteries of 45 volts each as sources of direct current, while a U.S. Army signalling set, employed in communicating through the ground in wartime, provided alternating current when required. A frequency of 1300 cycles per second was found most satisfactory.

The electrified current was introduced into the ground by two electrodes, each comprising several stakes linked together with stranded copper wire and two parallel copper wires pegged to the ground every hundred feet. Ordinary angle iron stakes obtained from the army were more durable than the zinc-coated iron pipes with copper wires attached that were first used. The parallel bare copper wires were 600 feet long and were laid out along meridians 50 feet apart. Special reels designed for the purpose were used in the placing of this wire, while high resistance headphones were employed in keeping tab on the passage of the electric current through the soil.

The tests of radio reception through the ground which were successful up to distances of 550 feet were made with a home-made superheterodyne 9-valve radio set. The radio receiving set was placed in a shaft of the Caribou mine, 550 feet below the surface, and there picked up music broadcast from a neighbouring city. These experiments tend to confirm the theory that radio waves pass through rock without much attenuation. Radio signals will penetrate sea water—a good conductor—to a depth of from 50 to 60 feet, which indicates that they would penetrate approximately ten times as far through a poor conductor like dry rock.—G. H. Dacy, in "Science and Invention."

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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

Auckland Notes

AT 6.55 p.m. the evening service from St. Andrew's Presbyterian Church will be relayed. The preacher will be the Rev. Ivo Bertram, and the organist, Dr. Neil McDougall. After the service a relay of the Municipal Band concert in Albert Park will be carried out. The band will be under the conductorship of Mr. George Buckley.

From Wellington

DIVINE service will be relayed from the Terrace Congregational Church, the preacher being the Rev. H. W. Newell, and the organist and choir-master, Mr. H. Brusey. At 8.20 p.m. the band of the Wellington Division of the Royal Naval Volunteer Reserve (by permission of the Commanding Officer) will give a concert from the studio.

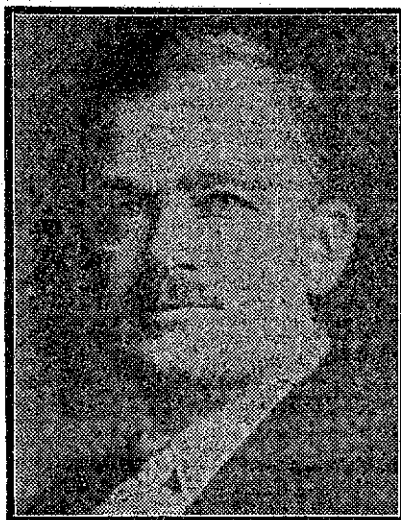
From 3YA

THE service to be held in the Christchurch Anglican Cathedral will be relayed. His Grace Archbishop Averill will be the preacher, Dr. J. C. Bradshaw being the organist and choir-master. The broadcast of an open-air concert to be given by the Municipal Band will follow.

Dunedin Notes

THE Ven. Archdeacon Fitchett will conduct the service at St. John's Anglican Church on Sunday evening, when a broadcast will be carried out.

In the after-church concert programme, to be given by the St. Kilda Band under Mr. James Dixon, Mr. A. Walmsley will present four new sacred songs: "The Magic of Thy Presence" (by Roger Quilter), "The Grey House" (by Messager), "Sunday" (by Carews) and "Thou Art Risen, My Beloved" (by Coleridge-Taylor). Mr. Walmsley has recently



L. PROBERT, who will broadcast xylophone items from 3YA on February 14.

—S. P. Andrew Photo.

been appointed the temporary conductor of the Dunedin Orchestral Society, a further tribute to his popularity and ability.

A new artist makes her appearance on this evening's programme, Miss Estrella Burnard. She is the possessor of a soprano voice of exceptionally fine range and clarity. Miss Burnard's items will be "The Holy Child" (by Luther), "Dedication" (by Sparrow) and "Sleep and the Roses" (by Norman Tate). The St. Kilda Band's items will include the "Tchaikowsky" selection, comprising extracts from the works of this popular composer. This band is at the height of its contesting form at present.

MONDAY

Wellington Features

TWO songs by Strickland, "At Eve I heard a Flute" and "My Love is a Fisherman," with Stanford's "Soft Answer" and Quilter's "Over the Mountains" will be sung by Miss Gwladys Edwards at 2YA. Three contralto songs will be contributed by Miss Evelyn Robinson. Mr. Denis Sheard, tenor, late of the Humphrey Bishop Company, will sing "Serenade" (Schubert), "The Garden of Your Heart," "Nita Gitana" and "Love, here is My Heart."

The programme to be provided by the 2YA Orchestra, under Signor A. P. Truda, will be of a high standard. It will comprise the "Egmont" overture (Beethoven), a selection from "Romeo and Juliet," Mozart's Symphony "Jupiter," the "Rhapsody Russe" and the Waldteufel Valse "Soiree d'Ete."

During the evening there will be a ten minutes' relay of an organ recital to be given in the St. Gerard's Redemptorist Church by the talented organist, Mr. Henry Mount.

From Christchurch

ANOTHER of the very popular open-air band concerts featured this summer will be broadcast. It will be provided by the Woolston Band and 3YA artists.

4YA Items

A NEW vocalist in the person of Miss G. M. Parry will appear on 4YA's programme. She will present three well-known ballads—"Out of the Deep" (Martin), "Open the Gates" (Knapp), and Sanderson's "Beyond the Dawn." Miss Parry has a rich contralto voice. The instrumental part of the programme will be in the hands of Mr. Arthur Gordon's popular orchestra, while Mrs. C. Drake will play selections from Beethoven and John Ireland.

Don't Miss These

Organ Recital

2YA, Monday.

"Lord of the Isles"

4YA, Tuesday.

Community Singing

1YA, Wednesday.

International Night

2YA, Wednesday.

"The Golden Threshold"

4YA, Wednesday.

"The Mascots"

3YA, Saturday.

TUESDAY

From Auckland

AT 8.15 p.m., Mrs. Les. Crane will give a further talk on "Beauty of Mind and Body in Relation to Diet."

Some well-known singers and instrumentalists will appear before the microphone in the evening concert programme. Mr. Reg. Morgan, who has previously delighted listeners with his artistic singing, will present a group of ballads, including two fisherfolk songs by Arundale. That popular duo, Misses Edna and Phyllis Tye, will be heard in vocal and piano numbers, while Miss Nellie Lingard (contralto) will sing a group of songs including "The Songs My Mother Sang," and "Little Boy Blue."

From 2YA

MISS PHYLLIS LEIGHTON (soprano) and Miss Nora Greene (contralto) will be the ladies heard this evening. Miss Greene will sing "The Hills of Donegal," "My Ships" and "My Ain Folk." Mr. Sam Duncan and Mr. S. Evelyn Rodger will contribute solos and duets, the duets being "Bird Songs at Eventide" and "Little Old Garden." Mrs. H. G. Reeves, a clever exponent of the banjo,



FLORENCE SUMNER, a charming 4YA soprano singing on February 9. Photo, Artistic.

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will play several popular numbers on that instrument.

A light musical programme will be provided by the Salon Orchestra, under Mr. M. T. Dixon, the numbers including: "Hungarian Lustspiel," "Chopiniana," "Dairymaid" selection, and the latest dance novelties.

Dunedin Features

The "piece de resistance" of to-night's programme, which will be presented by the Dunedin Tramways Band under the direction of Mr. Chas. T. Morgan, is a Scottish rhapsody entitled "Lord of the Isles" by that famous English band music composer, W. Rimmer. This selection is in rhapsodical form, and its atmosphere is characteristically that of the Highlands.

Another composition arranged by Rimmer will figure on this programme in a band selection entitled "Sea Songs." This nautical selection is exceptionally fine, and contains all the most popular ballads of the sea. The band will also present a new march entitled "Old Chums," by Webb. Among the vocalists on this programme is Mr. Alex. Snell, who makes his second appearance in front of the microphone. His baritone voice has proved exceptionally suitable for broadcasting purposes.

WEDNESDAY

From 1YA

COMMUNITY singing by the 1YA Broadcasting Choir, under the conductorship of Mr. Len. Barnes, will be broadcast this evening. Community singing has always proved very popular, and on this occasion the choir will contribute approximately two hours of happy song. There will be two soloists—Misses Gwenda Weir (soprano) and Gladys Brooke (contralto).

The choir will be assisted by Mr. Reg Morgan and his orchestra, and many of the old songs and some of the latest hits will be included in the programme.

2YA Notes

THE second of the Overseas Programmes for the weekly International Night at 2YA will be broadcast this evening.

Christchurch Features

A VERY bright vocal programme will be broadcast. Most of the numbers will be of a light nature, the programme concluding with the quartet singing Scott Gatty's "Good-night."

From Dunedin

THE afternoon talk by the Home Science Extension Department of Otago University will be on "Vegetable Preserving."

At 7.15 p.m. there will be a dialogue by Messrs R. B. Tennett and Mr. L. W. McCaskill on the subject: "Farmer Brown considers selling his farm." The dialogue will also be broadcast by 3YA.

The beautiful Indian song cycle, "The Golden Threshold," from the words by the Indian poet—Sarojini Naidu—set to music by Liza Lehmann, will be sung at 4YA by Miss Mae Matheson, Miss Margaret Green, Mr. H. A. Johnston, and Mr. Stuart Falconer.

In the miscellaneous portion of the programme the following solos will be sung: "Lascia Chiapanger" (by Handel), "Stay My Beloved," "Oh, That It Were So," "The Garden of Allah" and the "Drinking Song" from "The Student Prince."

THURSDAY

Vegetable Main Dishes

THE home science talk from 1YA, 2YA and 3YA will be on "Vegetable Main Dishes."

Auckland Features

THE new Clarion Quartet will appear on this evening's programme in several duets, quartets and solos. This combination, consisting of Miss Lillian Woods; Miss Beryl Smith, Mr. Lambert Harvey and Mr. Duncan Black, has proved immensely popular with listeners. Mr. Cyril Towsey, pianist, will play "Country Dances" (by Beethoven). Two short gramophone lecture-recitals entitled "Spanish Music and Musicians" will be given by Mr. Karl Atkinson.



W. HAY,
a popular 3YA flautist.
—Steffano Webb, photo.

That excellent elocutionist, Mr. J. M. Clark, will give a humorous number, "Soaked in Seaweed" (from "Nonsense Novels" by Stephen Leacock, the Canadian humorist).

Wellington Notes

MISS I. F. Meadows will be the speaker for the Home Science talk this afternoon.

The Wellington City Salvation Army Band, under Bandmaster Scotney, will provide a programme in the evening. Of a delightful nature will be the concerted numbers to be sung by the Lyric Quartet, their items including old English glees: "As Moments Roll," "Spin, Spin," and a selection of popular community songs. Sketches will be acted by Miss Gracie Kerr and Mr. James Cook.

3YA Features

THIS afternoon's talk to farmers will be given by Mr. A. Leslie, M.R.C.V.S., on the subject of: "Some common ailments of farm horses, and their treatment."

The classical-operatic programme, which will be followed by a session of dance music, will include many well-

known airs. Opening with the popular "Fingal's Cave," other items will be Saint Saens' "Ascanio Suite No. 1," Holst's "Intermezzo" and "Jig," and German's "Henry VIII Dances." The Studio String Quartet will play Cherubini's "Scherzo."

FRIDAY

From 1YA

IN the evening a Spelling Bee, with supplementary musical items, will be broadcast.

Wellington Notes

A LIGHT programme has been arranged.

From Christchurch

In connection with the visit of Lord Baden Powell, Dr. P. C. Fenwick, Dominion Chief Commissioner of the Boy Scout Association, will speak from 3YA at 7.30 p.m. The programme will consist of items of a very diversified nature.

From 4YA

ON this evening's variety programme, Mr. Geo. Christie, the solo cornetist of the St. Kilda Municipal Band, will present two numbers, one of which will be Theodore Hoch's "Cornet-tante." This item is one of the earliest cornet solos, and is a brilliant piece of work.

The Studio Trio will render numbers from Verdi, Gounod, Thomas, Tchaikowsky, Arensky, Schubert, Mendelssohn, Cyril Scott—a fine representative group of standard composers.

SATURDAY

Auckland Features

ON this evening's programme, humour in novelty form will be given by "Ernest and Wendy," when they will present another of their entertainments entitled "Merry Moments at the Piano."

"Eric and Jack" will give a group of popular numbers, including "The Girl Friend of a Boy Friend of Mine" and "Lazy Louisiana Moon." The Monte Carlo Orchestra, under the direction of Mr. F. K. Cunningham, will be making another appearance before the microphone. They have included in their items a selection from the "Belle of New York," the ever-popular musical comedy.

Wellington Attractions

A VARIED assortment of items will be heard this evening. Mr. Jack Leckie will make his debut before the 2YA microphone as a humorist. Mr. L. W. Probert will play "La Pluie" as a xylophone solo, and Mr. W. J. Haines, saxophonist, will play "Non e ver." The orchestral numbers will be well-varied.

From Christchurch

CABARET songs at the piano with banjolets by the "Rose and Thistle Duo," novelty piano items by Mr. Sydney Hoskins, bass solos by Mr. R. S. H. Buchanan, violin solos by Miss Irene Morris, sketches by "The Mascots," and cornet solos by Mr. Fred Fox, will comprise this evening's varied programme.



MISS ADDIE CAMPBELL.

Known as the "Bendigo Nightingale" when she first sang before Australian audiences, Miss Campbell is now resident in Christchurch, and has been delighting 3YA listeners with her singing. She is a most artistic radio performer, and, having studied microphone technique, she uses her beautiful well-trained soprano voice to the best advantage.

From 4YA

A relay of this programme will be carried out by 4YA.

For Relaying Events

THE British Broadcasting Company maintains a specially-equipped motor-van for the purpose of relaying commentaries on events of general interest taking place anywhere in the country. The van may draw up at any post office telephone line point, and in a matter of a few minutes can be connected through to the control-room of the London broadcasting station, and thence to any B.B.C. transmitter in Great Britain.



OLIVE HINDLE,
A fine 3YA baritone.
—Steffano Webb, photo.

Full Programmes for Next

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

Sunday, February 8

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, FEBRUARY 8.

- 8.0 : Selected gramophone recordings.
 8.30 : Literary selection, and further gramophone recordings.
 6.0 : Children's Song Service, conducted by Uncle Bert.
 6.55 : Relay of Divine Service from St. Andrew's Church. Preacher, Rev. Ivo Bertram. Organist, Dr. Neil McDougall.
 8.30 : Relay from Albert Park of concert by the Auckland Municipal Band, under the conductorship of Mr. George Buckley.
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, FEBRUARY 8.

- 8.0 : Selected gramophone recordings.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from the Island Bay Baptist Church.
 7.0 : Relay of Evening Service from the Terrace Congregational Church. Preacher, Rev. H. W. Newell. Organist and Choirmaster, Mr. H. Brusey.
 8.20 : (approx.) Studio concert by the Band of the Wellington Division of the Royal Naval Volunteer Reserve (by permission of the Commanding Officer) and 2YA artists.
 Hymn—Band (Conductor, Petty Officer H. Baker), "Holly" (Etherington); March—"Kneller Hall" (Greenwood).
 Tenor—Mr. James Fordie, "Serenata" (Toselli).
 Selection—Band, "H.M.S. Pinafore" (Sullivan).
 Soprano—Miss Myra Sawyer, (a) "Sing, Joyous Bird" (Phillips); (b) "The Tryst" (Sibelius).
 Waltz—Band, "Moonlight" (Pecorini).
 Weather report and station notices.
 Piano—Miss Molly Withers, "Polonaise" (MacDowell).
 Selection—Band, "Pirates of Penzance" (Sullivan).
 Vocal duet—Miss Myra Sawyer and Mr. Wm. Boardman, "The Garden of Your Heart" (Dorel).
 Tenor—Mr. James Fordie, "How Lovely are Thy Dwellings" (Liddle).
 March—Band, "Powerful" (Carter).
 Baritone—Mr. Wm. Boardman, (a) "Don Juan's Serenade" (Tschai-kowsky); (b) "A Hundred Fathoms Deep" (Linter).
 Anthem—Band, "Adoration" (Linter).
 March—Band, "Great Little Army" (Alford).
 10.0 : (approx.) God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, FEBRUARY 8.

- 8.0 : Gramophone recital.
 5.30 : Children's Song Service by children of the Salvation Army.
 6.15 : Chimes from Studio.
 6.30 : Musical recordings.
 7.0 : Relay from Christchurch Anglican Cathedral. Preacher: His Grace Archbishop Averill. Organist and choirmaster, Dr. J. O. Bradshaw.
 8.15 (Approx.)—Relay from a city band rotunda of a programme by Christchurch Municipal Band (Conductor, J. Noble), assisted by 3YA Artists.
 March—Band, "Dunedin" (Alford); Waltz, "Reflections" (Bordogni).
 8.28 : Baritone—Mr. Leslie Fleming, (a) "Under the Hammer" (Arundale) (from "Suite of Old Furniture"); (b) "The Sea Road" (Wood).
 8.34 : Violin—Mr. Roy Murphy, (a) "Cavatina" (Raff); (b) "Salut D'Amour."
 8.40 : Soprano—Miss Addie Campbell, (a) "Ave Maria" (with violin obligato by Mr. Roy Murphy) (Mascagni); (b) "A Heart That's Free."
 8.46 : Fantasia—Band, "A Darkey's Dreamland" (Bidgood).
 8.52 : Baritone—Mr. Leslie Fleming, "When Shadows Gather" (Marshall).
 8.56 : Duo cornet polka—"Jupiter and Mars" (Bulch).
 9.1 : Weather forecast and station notices.
 Violin—Mr. Roy Murphy, "Humoresque" (Dvorak).
 Two-step—Band, "A Coon's Day Out" (Baynes).
 Xylophone solo—Mr. T. Atkinson (with band accompaniment), "Chu Chin Chinese" (Green).
 Soprano—Miss Addie Campbell, (a) "Here's to Love and Laughter" (from "The Sunshine Girl") (Rubens); (b) "Jest Her Way."
 Indian intermezzo—Band, (a) "Silver Bell" (Wenrich); (b) "Unity."
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, FEBRUARY 8.

- 8.0 : Selected recordings.
 5.30 : Children's session, conducted by Big Brother Bill.
 6.15 : Selected recordings.
 6.30 : Relay of Evening Church Service from St. John's Anglican Church. Preacher: Ven. Archdeacon Fitchett, M.A.

7.45 : (Approx.)—Selected recordings.

- 8.15 : Studio programme by St. Kilda Band, under conductorship of Mr. Jas. Dixon, assisted by 4YA Artists. March—Band, "Ravenswood" (Rimmer); Valse, "Tesoro Mio" (Becucci).
 8.29 : Tenor—Mr. Alfred Walmsley, (a) "The Magic of Thy Presence" (Quilter); (b) "The Grey House" (Messenger).
 8.34 : Choral—Don Cossacks Choir, (a) "Save O Lord Thy People" (Tschesnokoff); (b) "Safeguard O Lord" (Tschesnokoff).
 8.42 : Mezzo-soprano—Miss Estelle Burnard, "The Holy Child" (Luther).
 8.46 : Selections—Band, "Tschai-kowsky" (arr. Rimmer).
 9.1 : Weather report and station notices.
 9.3 : Selection—Berlin Philharmonic Orchestra, "Carnaval Romain."
 9.11 : Tenor—Mr. Alfred Walmsley, (a) "Thou Art Risen My Beloved" (Coleridge-Taylor); (b) "Sunday" (Carew).
 9.17 : Cornet—Mr. G. Christie, "Abide With Me" (Liddle).
 9.25 : Organ—G. T. Pattman, (a) "Prelude in C Sharp Minor" (Rachmanin-off); (b) "Humoresque" (Dvorak).
 9.33 : Mezzo-soprano—Miss Estelle Burnard, (a) "Dedication" (Sparrow); (b) "Sleep and the Roses" (Tate).
 9.39 : Selection—Band, "Harmonious Scenes" (Rimmer).
 9.49 : Choir—Three Valley's Festival Choir, (a) "Jesu, Gylfai F'enaid I" (Evans); (b) "Joanna" (Rhys).
 9.55 : March—Band, "Dunedin" (Alford).
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, FEBRUARY 8.

- 6.0 : Children's service.
 8.15 : Studio concert.

Monday, February 9

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, FEBRUARY 9.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, FEBRUARY 9.

- 8.0 : Chimes. Selected gramophone recordings.
 8.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session, conducted by Uncle Jeff.
 6.0 : Dinner music session.
 Berlin State Opera Orchestra, "Mignon" (Thomas).
 Grand Symphony Orchestra, "Tales of Hoffman—Barcarolle."
 6.15 : Edith Lorand Orchestra, "Faust" Fantasia (Gounod); "Wedding of the Winds" (Hall).
 6.30 : Berlin State Opera Orchestra, "Italiana in Algeria" (Rossini).
 Cello—Orabio de Castro, "Nocturne in E Flat" (Chopin).
 6.45 : Grand Symphony Orchestra, "Fra Diavolo" (Auber); "Tales of Hoffman—Entr'acte and Minuet" (Offenbach).
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Egmont" (Beethoven).
 8.9 : Contralto—Miss Evelyn Robinson, (a) "Thanks be to God" (Dickson); (b) "Keep on Hopin'" (Heron-Maxwell).
 8.15 : Elocution—Mr. W. J. Mountjoy, jun., "What a Rogue and Peasant Slave Am I" from "Hamlet" (Shakespeare).
 8.20 : Selection—2YA Orchestra, "Romeo and Juliet" (Gounod).
 8.28 : Tenor—Mr. Denis Sheard, (a) "Serenade" (Schubert); (b) "The Garden of Your Heart" (Dorel).
 8.35 : Selection—Band of H.M. Coldstream Guards, "La Fille de Madame Angot" (Lecocq).
 8.43 : Soprano—Miss Gwladys Edwardes, (a) "At Eve I Heard a Flute" (Strickland); (b) "My Love is a Fisherman" (Strickland).
 8.49 : Organ—Mr. Henry Mount, relay from St. Gerard's Redemptorist Church, (a) "Allegro Moderato" (Merkel); (b) "Lieder Ohne Worte" (Mendelssohn); (c) "The Palms" (Faure); (d) "Grand Offertoire in C" (Batiste).
 9.0 : Weather report and station notices.
 9.2 : Symphony—2YA Orchestra, "Jupiter" (Mozart).
 9.10 : Contralto—Miss Evelyn Robinson, "Easter Flowers" (Sanderson).
 9.14 : Cello—Edmund Kurtz, (a) "Mazurka" (Werkmeister); (b) "Minuet in D Major" (Werkmeister).
 9.20 : Elocution—Mr. W. J. Mountjoy, jun., (a) "A Bachelor's Dilemma" (Rutherford); (b) "Chance It" (Burnaby).
 9.27 : Selection—2YA Orchestra, "Rhapsody Russe" (Nussbaum).
 9.35 : Tenor—Mr. Denis Sheard, (a) "Nita Gitana" (Newton); (b) "Love, Here is My Heart" (Silesu).
 9.41 : Accordion duo—Gellin and Bergstrom, (a) "Norwegian Hunting March"; (b) "Holmenkollen March" (Johansen).

Week-all Stations-to Feb. 15

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

- 9.47: Soprano—Miss Gwladys Edwardes, (a) "A Soft Day" (Stanford); (b) "Over the Mountains" (Quilter).
 9.53: Valse—2YA Orchestrina, "Soiree d'Ete" (Waldteufel).
 10.1: Dance programme.
 Foxtrots—Alfredo and His Band, "Now I'm in Love" (Shapiro); "Singin' in the Bathtub" (Magidson); "Am I Blue?"
 Waltz—Harry Hudson's Melody Men, "Sleepy Valley" (Hanley).
 10.12: Foxtrots—Alfredo and His Band, "My Love Parade" (Grey); "Smiling Irish Eyes" (Ruby).
 Tango—Marcu and His Orchestra, "Do You Still Love Me?"
 10.24: Vocal—G. H. Elliott, "Plain Chocolate" (Lutzen).
 One-step—Harry Hudson's Melody Men, "Tell Me, Mother" (Yvain).
 Foxtrots—Harry Hudson's Melody Men, "Happy Days are Here Again" (Yellen); "O, Ya, Ya!"
 Waltz—Harry Hudson's Melody Men, "Marie" (Berlin).
 10.36: Foxtrots—The Plaza Band, "Cute Little Flat."
 Harry Hudson's Melody Men, "Lucky Me, Lovable You."
 Vocal—G. H. Elliott, "Sentimental Luke" (Lutzen).
 10.45: Tango—Motoi and His Orchestra, "In the Twilight."
 Foxtrots—Harry Hudson's Melody Men, "Mickey Mouse" (Carlton); "Building a Nest for Mary" (Rose); "Cuckoo in the Clock" (Collins).
 Waltz—Alfredo and His Band, "Let Me Have My Dreams" (Clarke).
 11.0: God save the King.

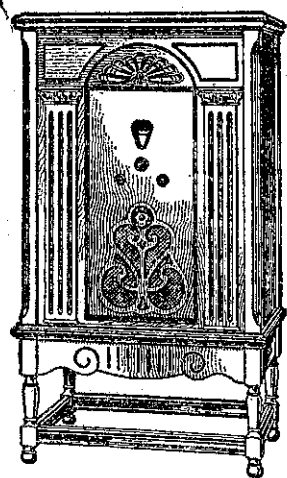
3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, FEBRUARY 9.

- 3.0: Gramophone recital.
 4.25: Sports results.

- 5.0: Children's session, conducted by Cousin Margot and The Mystery Man.
 6.0: Dinner music session.
 J. H. Squire Celeste Octet, "Operatica" (arr. Squire).
 Band—The Bombardiers, "Hungarian Dance No. 5" (Brahms).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Adagietto."
 6.15: Regal Orchestra, "Pagliacci" Selection (Leoncavallo).
 J. H. Squire Celeste Octet, "Song of the Waterfall" (Squire).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte de Carillon" (Bizet).
 6.30: London Theatre Orchestra, "A Country Girl" Selection (Monckton).
 Band—The Bombardiers, "Hungarian Dance No. 6" (Brahms).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Intermezzo."
 6.45: Regal Cinema Orchestra, "Show of Shows" Selection.
 J. H. Squire Celeste Octet, "Scene of the Jasmine" (Squire).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite—Entr'acte. La Cuisine de Castelet" (Bizet).
 7.0: News session.
 8.0: Chimes. Open-Air Programme from a City Rotunda by the Woolston Band, and assisted by 3YA Artists. March—Band, "Organic."
 8.5: Baritone—Mr. Clive Hindle, (a) "The Sword of Ferrara" (Ballard); (b) "Down Among the Dead Men" (Traditional).
 8.10: Overture—Band, "Mirella" (Gounod).
 8.18: Phantasy—Band, "In a Chinese Temple Garden" (Ketelby).
 8.23: Humour—Mr. George Titchener, "How I Mean to Propose" (Handley).
 8.28: Cornet—Bandsman R. Ohlson and Band, "Nightingale" (Moss).
 8.34: Tenor—Mr. David McGill, (a) "Sleep and the Roses" (Tate); (b) "Macushla" (McMurrrough).
 8.40: Selection—Band, "Love's Old Sweet Song" (Molloy).
 8.45: Baritone—Mr. Clive Hindle, (a) "I Did Not Know" (Trotter); (b) "The Last Song" (Rogers).
 8.50: Suite—Band, "Mignon" (Beethoven); Dance Intermezzo—"Wedgwood Blue" (Ketelby).
 9.0: Weather report and station notices.
 9.2: Fantasia—Band, "Sailor's Memories" (Hawkins).
 9.12: Humour—Mr. George Titchener, "I Think I'll Be Going Home Now."
 9.17: Waltz—Band, "My Desert Rose" (Terise).
 9.21: Tenor—Mr. David McGill, (a) "A Dream" (Bartlett); (b) "Dancing with Tears in My Eyes" (Burke).
 9.26: March—Band, "London Pride" (Moorhouse).
 9.30: From the studio.
 Selection—Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs" (Noack).
 9.34: Soprano—Jeannette MacDonald, (a) "Dream Lover" (Grey); (b) "March of the Grenadiers" (Grey).
 9.40: Cello—Beatrice Harrison, "Melody" (Dawes).
 9.44: Chorus—Columbia Light Opera Company, "Lionel Monckton Memories."
 9.52: Baritone—Peter Dawson, "Boots" (McCall).
 9.55: Selection—Columbia Symphony Orchestra, "March of the Bojaren."
 10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, FEBRUARY 9.

- 3.0: Selected recordings.
 5.0: Children's hour, conducted by Big Brother Bill.
 6.0: Dinner music session.
 Milan Symphony Orchestra, "Mignon" Overture (Thomas).
 H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).
 Jean Lensen and His Orchestra, "Millions d'Arlequin" (Drigo).
 6.15: Symphony Orchestra, "Hungarian March" (Berlioz).
 Violin—Toscha Seidel, "Hebrew Melody" (Achorn—arrgd. Zimbalist).
 Jean Lensen and His Orchestra, "Si Mes Vers Avaient des Ailes."
 Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."
 6.30: H. G. Amers and the Eastbourne Municipal Orchestra, "Silhouettes" (Arensky): (a) Introduction, (b) La Coquette.
 Bernardo Gallico and His Orchestra, "The Clock is Playing" (Blaauw).
 H. G. Amers and the Eastbourne Municipal Band, "Dancing Doll" (Poldini); "Silhouettes"—The Dreamer (Arensky).
 6.45: Zurich Tonhalle Orchestra, "Il Seraglio" Overture (Mozart).
 Violin—Toscha Seidel, "Ave Maria" (Schubert).
 Symphony Orchestra, "Coppella Ballet—Entr'acte and Valse."
 7.0: News session.
 8.0: Selection—Band of H.M. Grenadier Guards, "Martial Moments."
 8.9: Contralto—Miss G. M. Parry, (a) "Out of the Deep" (Martin); (b) "Open the Gates" (Knapp).
 8.15: Popular melodies—Arthur Gordon's Orchestra, "Anchors Aweigh" (Zimmerman); (b) "Harmonica Harry" (Baxter).
 8.23: Comedienne—Wish Wynne, (a) "A Cockney Girl at the Cinema" (Wynne); (b) "There's Always Something" (Rutherford).



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- 8.29: Bass—Mr. Jack Clark, (a) "Vulcan's Song" (Gounod); (b) "The Lute Player" (Allitsen).
 8.36: Foxtrot—Arthur Gordon's Orchestra, "When the Little Red Roses Get the Blues for You" (Dubin); Valse, "I'll Close My Eyes."
 8.44: Soprano—Miss F. Sumner, "Singing in the Rain" (Phillips).
 8.47: Piano—Mrs. C. Drake, (a) "Turkish March" (Beethoven); (b) "Ragamuffin" (Ireland).
 8.53: Scotch humour—Mr. James A. Paterson, "She was the Belle of the Ball."
 8.57: Popular melody—Arthur Gordon's Orchestra, "You Brought a New Kind of Love to Me" (Fain).
 9.1: Weather report and station notices.
 9.3: Selection—The Balalaika Orchestra, "Gorskaja."
 9.9: Contralto—Miss G. M. Parry, "Beyond the Dawn" (Sanderson).
 9.13: Valse—Arthur Gordon's Orchestra, "What Have I Done?" (Jurman).
 9.17: Comedians—The Happiness Boys, "Who Cares, Anyhow" (Cleve).
 9.20: Bass—Mr. Jack Clark, "The Pipes of Pan" (Elgar).
 9.23: Banjo—Mr. H. Stokes, "X-Ntrick" (Bauer).
 9.27: Scotch humour—Mr. James A. Paterson, (a) "Ma Highland Rose" (McFarlane); (b) "I'm Very Glad I'm Marrit tak the Wife."
 9.34: Popular melodies—Arthur Gordon's Orchestra, (a) "Swinging in a Hammock" (O'Flynn); (b) "Dominion of Canada" (Hill).
 9.42: Novelty—Mouth Organ Band, (a) "The Night" (Abt); (b) "Brownies' Parade" (Noack).
 9.48: Soprano—Miss F. Sumner, (a) "A Song of Holiday" (Slater); (b) "The Lass of Killean" (Stickles).
 9.54: Waltzes—Arthur Gordon's Orchestra, (a) "Yesterday" (de Sylva); (b) "Dancing with Tears in My Eyes" (Burke).
 10.0: Selection—Regal Military Band, "Friends Forever" (Lacalle).
 10.3: God save the King.

1XB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, FEBRUARY 9.

- 6.30: Children's session.
 7.30: News, markets, and information.
 8.0: Studio concert.

Tuesday, February 10

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, FEBRUARY 10.

- 8.15: Talk—Mrs. Les. Crane, "Beauty of Mind and Body in Relation to Diet."
 8.30: Further selected recordings.
 9.0: Children's session, conducted by Uncle Dave.
 6.0: Dinner music session.
 Band of H.M. Grenadier Guards, "Sir Harry Lauder Medley."
 J. H. Squire Celeste Octet, "Second Movement From Symphonie Pathétique" (Tchaikowsky—arr. Robertson).
 Modern Dance Players, "Amoretten Tanze" (Gungl).
 6.15: Court Symphony Orchestra, "The Windmill Man."
 Organ—Stanley Macdonald, "The Rosary" (Nevin).
 Symphony Orchestra, "When the Lemons Bloom" (Strauss).
 8.30: Plaza Theatre Orchestra, "The Three Bears" (Coates).
 Symphony Orchestra, "Doctrinen" (Strauss).
 Continental Novelty Orchestra, "Las Lagarteranas" (Guerrero).
 6.45: B.B.C. Wireless Military Band, "Le Reve Passe."
 J. H. Squire's Celeste Octet, "Scene De Ballet."
 Organ—Stanley Macdonald, "La Rosita" (Dupont).
 Continental Novelty Orchestra, "Los Claveles De Sevilla."
 7.0: News and market reports.
 8.0: Chimes. Selection—The Orchestral Octet, under the direction of Mr. Harold Baxter, "Irish Melodies" (Myddleton). Waltz—"Gluckliche Herzen" (Faust).
 8.15: Contralto—Miss Nellie Lingard, (a) "The Songs My Mother Sang" (Grimshaw); (b) "At Twilight" (Nevin); (c) "Little Boy Blue."
 8.21: Vocal and piano—Misses Edna and Phyllis Tye, pianoforte solo: "Intermezzo" (Brahms); mezzo-soprano solo: "Mister Bear."
 8.29: Violin—Erica Morini, (a) "Minuet" (Mozart); (b) "Gavotte" (Lully).
 8.35: Suite—The Orchestral Octet, "Romantique" (Ketelbey); (a) Romance; (b) Scherzo; (c) Valse Dramatique.
 8.45: Baritone—Mr. Reg. Morgan, (a) "Fisherfolk Cycle" (Arundale); 1. The Bar ParLOUR; 2. Old Mother Sea; (b) "A Brown Bird Singing" (Haydn Wood); (c) "Poor Man's Garden" (Kennedy-Russell).
 8.55: Intermezzo—The Orchestral Octet, (a) "Venice" (Grey); (b) "Spring Flowers" (Wood).
 9.1: Evening weather forecast and announcements.
 9.3: Vocal and piano—Misses Edna and Phyllis Tye, mezzo-soprano solo: "Bless the House" (Brahe); pianoforte solo: "Hexentanz" (McDowell); mezzo-soprano solo: "Spreading the News" (Olive).
 9.13: Suite—The Orchestral Octet, "L'Arlesienne" (Bizet); (a) Pastorale; (b) Intermezzo; (c) Menuet; (d) Farandole.
 9.29: Programme of dance music.
 Foxtrots—Jesse Stafford and His Orchestra, "I'm Sailing on a Sunbeam" (Dreyer); "Ragamuffin Romeo" (De Costa); "A Bench in the Park" (Yellen).
 9.39: Waltzes—The Thematics Orchestra, "Giovanna" (Kountz).
 Regent Club Orchestra, "The Moonlight Reminds Me of You" (Kahn).
 Vocal—Marion Harris, "Wasn't It Nice?" (Young).
 9.48: Foxtrots—Colonial Club Orchestra, "It's You I Love" (Davis).

- Jack Denny and His Mount Royal Hotel Orchestra, "Whip-poorwill" (de Voll).
 Waltz—Castlewood Marimba Band, "A Night of Love in Hawaii."
 9.57: Foxtrots—Meyer Davis' Hotel Astor Orchestra, "Blue is the Night." Colonial Club Orchestra, "Why" (Davis).
 Jesse Stafford and His Orchestra, "I'm Following You."
 Waltzes—Regent Club Orchestra, "Dancing with Tears in My Eyes." Castlewood Marimba Band, "My Heart Belongs to the Girl Who Belongs to Somebody Else" (Sherman).
 10.12: Foxtrots—Hal Kemp and His Orchestra, "Give Yourself a Pat on the Back" (Butler).
 Tom Gerun and His Orchestra, "Absence Makes the Heart Grow Fonder" (Lewis).
 Bob Haring and His Orchestra, "I Still Remember."
 Tom Clines and His Music, "Wasn't It Nice?" (Young).
 Colonial Club Orchestra, "Stein Song" (Colcord).
 Waltz—Castlewood Marimba Band, "Down the River of Golden Dreams" (Klenner).
 10.30: Foxtrots—Meyer Davis' Hotel Astor Orchestra, "Nobody Cares If I'm Blue" (Clarke-Akst).
 Hal Kemp and His Orchestra, "If I Had a Girl Like You."
 Meyer Davis' Hotel Astor Orchestra, "Ro-Ro-Rollin' Along."
 10.39: Vocal duet—Al and Pete, "That's Why I'm Jealous of You." (Röse).
 10.42: Foxtrots—Tom Clines and His Music, "You Darlin'" (Woods).
 Jack Denny and His Mount Royal Hotel Orchestra, "Dream Avenue" (Tobias).
 Tom Clines and His Music, "You For Me" (Jason), "Be Careful With Those Eyes" (Woods).
 10.54: Waltzes—Castlewood Marimba Band, "My Reveries" (White).
 Regent Club Orchestra, "Because There's a Change in You."
 11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, FEBRUARY 10.

- 3.0: Chimes. Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by Uncle Toby and Jumbo.
 6.0: Dinner music session.
 Paul Godwin Orchestra, "Aubade" Serenade (Schweitzer); "The Divorced Lady" Medley (Fall).
 Paul Godwin Orchestra, "Lotus" Waltz (Ohlsen); "Alsation Country Dance No. 1" (Merkel).
 Great Symphony Orchestra, "The Master Miner" (Zeller).
 Mandolin and Lute Band, "Per Aspera Od Astra" (Urbach).
 Paul Godwin Orchestra, "Smitten" (Ziehrer-Hruby); "Alsation Country Dance No. 2" (Merkel).
 Berlin State Opera Orchestra, "Knight Passman Ballet" (Strauss).
 Paul Godwin Orchestra, "Bells of Vineta" Waltz (Lindsay).
 Mandolin and Lute Band, "Turkish March" (Mozart).
 Paul Godwin Orchestra, "Flower Song" (Lange); "Rejoicings—March."
 7.0: News session, market reports and sports results.
 7.40: Lecture by a Representative of the Agricultural Department, "For the Man on the Land."
 8.0: Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon), (a) "Hungarian Lustspiel" (Kela Bela); (b) "Chopiniana."
 8.16: Tenor—Mr. Sam Duncan, (a) "Pale Moon" (Logan); (b) "For You Alone" (Geehl).
 Duet—Messrs. Sam Duncan and S. Evelyn Rodger, "Bird Songs at Eventide" (Coates).
 Baritone—Mr. S. Evelyn Rodger, "Little House of Dreams" (Glass).
 8.32: Banjo—Mrs. H. G. Reeves, (a) "Footlight Favourites" (Grimshaw); (b) "Tickling the Banjo" (Morris); (c) "Alabama Serenade."
 8.44: Contralto—Miss Nora Greene, (a) "The Hills of Donegal" (Sanderson); (b) "My Ships" (Barratt); (c) "My Ain Folk" (Lemon).
 8.56: Siffleur—Josef Graf, "Dream Tango" (Malderon).
 8.59: Weather report and station notices.
 9.1: Suite—Salon Orchestra, "Desert Suite" (Homer Grunn).
 Selection—Salon Orchestra, "Dairymaid" Selection (Rubens-Tours).
 9.17: Soprano—Miss Phyllis Leighton, (a) "Love was Meant to Make Us Glad" (German); (b) "Garden in the Rain" (Gibbons); (c) "When Summer is Gone" (Wilhite).
 9.27: Selection—Cavalry Band, (a) "Cavalry March" (Wilhelm); (b) "Quadrille Medley" (Strauss).
 Selection—Stern's Mouth Organ Band, (a) "Vienna Citizen" (Ziehrer); (b) "Gladiators' Entrance" (Fucik).
 9.40: Duet—Messrs. Sam Duncan and S. Evelyn Rodger, "Little Old Garden."
 Baritone—Mr. S. Evelyn Rodger, "Captain Mac" (Sanderson).
 9.46: Salon Orchestra, "Latest Dance Novelties."
 10.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, FEBRUARY 10.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, FEBRUARY 10.

- 3.0: Selected recordings.
 5.0: Children's session, conducted by "Big Brother Bill."
 6.0: Dinner music session:
 Great Symphony Orchestra, "Vienna Operetta Revue" (Robrecht).
 Jacques Jacobs Ensemble, "Wiener Blut" (Strauss).

- 6.15: Band of H.M. Grenadier Guards, "La Benediction des Poignards."
 Jacques Jacobs Ensemble, "Espana Waltz" (Waldteufel).
 Plaza Theatre Orchestra, "My Lady Dainty" (Hesse).
 Jacques Jacobs Ensemble, "Sobre Las Olas" (Rosas).
- 6.30: Symphony Orchestra, "Countess Mariza" Medley (Kalman).
 Jacques Jacobs Ensemble, "L'Estudiantina" (Waldteufel).
- 6.45: B.B.C. Wireless Symphony Orchestra, "Il Trovatore" Selection (Verdi)
 Band of H.M. Grenadier Guards, "Lo! Here the Gentle Lark" (Bishop)
 Plaza Theatre Orchestra, "The Busy Bee" (Bendix).
- 7.0: News session.
- 8.0: Chimes. Studio programme by Dunedin Tramways Band under the direction of Mr. Chas. T. Morgan, assisted by 4YA artists.
 March—The Band, "Old Chums" (Webb); intermezzo, "Village Bells."
 8.11: Baritone—Mr. A. Snell, (a) "The Bandolero" (Stuart), (b) "In An Old-Fashioned Town" (Harris), (c) "The Battle of Stirling."
 8.21: Accordion duo—Gellin and Bergstrom, (a) "Firefly" (Leslie), (b) "Snow Waltz" (Nicholls).
 Selection—New Mayfair Orchestra, "Follow Through" Medley.
- 8.36: Soprano—Mrs. D. Carty, (a) "Where Hath Scotland Found Her Fame" (Park), (b) "Old Folks At Home" (Foster), (c) "We're a' Scottish Here" (Bain).
- 8.46: Selection—The Band, "Sea Songs" (arr. Rimmer); waltz, "Over the Waves" (Rosas).
- 9.1: Weather report and station notices.
- 9.3: Tenor—Mr. E. W. Robbins, (a) "Feast of Lanterns" (Bantock), (b) "Sympathy" (Marshall), (c) "The Carnival" (Molloy).
- 9.13: Selection—New Symphony Orchestra, (a) "Tintagel" (Bax), (b) "Mediterranean" (Bax).
- 9.28: Humorous recitals—Miss E. Newbold, (a) "Why the Rooster Wouldn't Die" (Anon.), (b) "Mrs. Arris Goes to a Dance" (Poultney).
- 9.38: Scotch rhapsody—The Band, "Lord of the Isles" (Rimmer); foxtrot, "Happy Hearts" (O'Leary).
- 9.49: Contralto—Mrs. Doris Aitcheson, (a) "Sincerity" (Clark), (b) "Obstination" (Fontenailles), (c) "The Lass with the Delicate Air."
- 9.59: Characteristic—The Band, "Dance of the Wooden Doll" (Hessler); march, "The Toolers" (Frances).
- 10.6: God save the King.

Wednesday, February 11

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, FEBRUARY 11.

- 3.0: Selected recordings.
 3.30: Literary selection and further selected recordings.

- 5.0: Children's session, conducted by Uncle Reg.
 6.0: Dinner music session.
 Bohemian Orchestra, "Love and Life in Vienna" (Komzak).
 Organ—G. T. Pattman, "Alice Where Art Thou" (tratl.).
 Bruno Walter and Berlin Philharmonic Orchestra, "Roses of the South" (Strauss).
- 6.15: Band of H.M. Grenadier Guards, "Ivanhoe" selection (Sullivan).
 Edith Lorand's Orchestra, "Venetian Barcarolle" (Leoncavallo).
 Bohemian Orchestra, "Destiny Waltz" (Baynes).
- 6.30: Edith Lorand's Orchestra, "La Serenade" (Metra).
 Plaza Theatre Orchestra, "A La Gavotte" (Finck).
 Dajos Bela Orchestra, "Schatz Waltz" (The Gypsy Baron) (Strauss).
 J. H. Squire's Celeste Octet, "La Serenata" (Braga).
- 6.45: Dajos Bela Orchestra, "Moonlight on the Alster" (Fetras).
 Plaza Theatre Orchestra, "Minuet" (Finck).
 Organ—G. T. Pattman, "Cinderella Waltz" (Pattman).
 J. H. Squire's Celeste Octet, "Serenade" (Titl).
- 7.0: News and market reports.
- 8.0: Chimes. A special programme of Community Singing by the 1YA Broadcasting Choir, under the Conductorship of Mr. Len. Barnes. The choir will be assisted by Reg. Morgan and His Orchestra. Overture—Herman Finck and His Orchestra, "Old and New Pot Pourri of Popular Melodies" (arr. Finck).
- 8.9: Community Singing.
 Contralto—Miss Gladys Brooke, (a) "Love's Old Sweet Song" (Molloy), (b) "Life Is a Song" (Meale).
- 8.53: Selection—Band of H.M. Grenadier Guards, "Merrie England."
- 9.1: Evening weather forecast and announcements.
- 9.3: Mouth organ—Pauley-Witch ensemble, "That's Just Their Way Now."
- 9.19: Community Singing.
 Soprano—Miss Gwendra Weir, (a) "I Hid My Love" (D'Hardelot), (b) "The Dream-Maker Man" (Nevin).
- 9.51: Saxophone duo—Feith and Kleimath, "Souvenir."
- Marches—Cavalry Band, (a) "Alexander" (Leonhardt), (b) "Revue March" (Faust).
- 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, FEBRUARY 11.

- 3.0: Chimes. Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
- 5.0: Children's session, conducted by "Aunt Daisy."
- 6.0: Dinner music session:
 Paul Godwin's Orchestra, "The Jolly Robbers" Overture (Suppe); "Stephanie" Gavotte (Czibulka); "Feldblumen" (Westling).
- 6.15: Paul Godwin's Orchestra, "Suite Ballet" (Popy): (1) Entree Mazurka, (2) Pizzicati, (3) Valse Lente, (4) Largo, (5) Final Galop; "Avant de Mourir" (Boulanger).
- 6.30: Paul Godwin's Orchestra, "Coppelia Ballet Fantasy" (Delibes); State Opera Orchestra, Berlin, "Othello Ballet" (Verdi).
- 6.45: State Opera Orchestra, Berlin, "La Dame Blanche" (Boieldieu); "Turkish March" (Mozart).
 Paul Godwin Quintet, (a) "Popular Song," (b) "Tale" (Komzak).
- 7.0: News session, market reports and sports results.
- 8.0: Chimes. Specially-recorded overseas programme:
 Dr. Eugene Ormandy and His Salon Orchestra.
 The International Singers.
 The Ambassadors of Melody Land.
 Abroad with the Lockharts.
 International Talk—Dr. G. H. Scholefield.
 Hy-Wide and Handsome.
 God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—WEDNESDAY, FEB. 11.

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, conducted by Uncle John.
- 6.0: Dinner music session.
 Albert Sandler and His Orchestra, "Someday, Somewhere" (Rapee).
 Polydor Orchestra, "Berlin as it Laughs and Weeps" Overture.
 Saxophone—Rudy Wiedoeft, "Sax-O-Phun" (Wiedoeft).
 Len Fillis Novelty Trio, "The Heart of the Sunset" (Nicholls).
- 6.15: Percy Pitt and Augmented Symphony Orchestra, "Poet and Peasant" Overture (Suppe).
 Harp—Sidonie Goossens, "Song of the Volga Boatmen" (arr. Solzedo).
 H. G. Amers and the Eastbourne Municipal Band, "The B'hoys of Tipperary" (Amers).
- 6.30: Albert Sandler and His Orchestra, "Sonny Boy" (de Sylva).
 H. G. Amers and the Eastbourne Municipal Orchestra, "Second Serenata".
 Saxophone—Rudy Wiedoeft, "La Cinquantaine" (Marie).
 Debroy Somers' Band, "Russian Fantasy" (arr. Lange and Somers).
- 6.45: H. G. Amers and the Eastbourne Municipal Band, "All on a Christmas Morning—Idyll" (Amers).
 B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore" Selection.
 H. G. Amers and the Eastbourne Municipal Orchestra, "Tarantelle for Flute and Clarinet" (Saint-Saens).
- 7.0: News session.
- 7.15: Relay from 4YA, Dunedin, of dialogue between Messrs. R. B. Tennent and L. W. McCaskill—"Farmer Brown Considers Selling His Farm."
- 7.30: Addington Stock Market Reports.

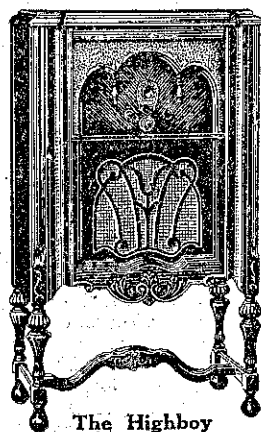
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WAKEFIELD STREET,

WELLINGTON.

- 8.0 : Chimes. Selection—Band of H.M. Coldstream Guards, "Leslie Stuart's Songs" (arr. Hume).
 8.8 : Tenor—Mr. H. J. Francis, (a) "A Dream" (Davis); (b) "Ma Little Banjo" (Dichmont).
 Soprano and baritone—Salon Duo, "Trot Here and There" (Messenger).
 Contralto—Miss Dulcie Mitchell, "Reaping" (Clarke).
 8.17: Instrumental—Studio Instrumental Octet (Conductor, Mr. Harold Beck), "Raymond Overture" (Thomas).
 8.24: Baritone—Mr. J. Graham Young, "The Ringers" (Lohr).
 Soprano—Miss Corrie Aslin, "Roses of Picardy" (Haydn-Wood).
 Trio—Salon Trio, "Don't Look At Me, I Pray" (Martini).
 Tenor—Mr. H. J. Francis, "All That I Ask" (Coleman).
 8.35: Mouth organ—Hideo Sato, (a) "Prelude," (b) "Habanera" (from "Carmen") (Bizet).
 8.39: Humour—Mr. Jack Darragh, (a) "Isaacstein's Visit to New York" (MS.); (b) "Cohen Buys a Wireless Set" (MS.).
 8.49: Selection—Studio Instrumental Octet, (a) "Triumphal March" (Verdi); (b) "Nocturne" (Chopin).
 8.58: Weather report and station notices.
 9.0 : Ballet—Studio Instrumental Octet, "Le Cid Ballet" (Massenet); (a) Castillane, (b) Andalouse, (c) Aragonaise, (d) Aubade, (e) Catalane.
 9.12: Contralto—Miss Dulcie Mitchell, (a) "Roumanian Night Song" (Lohr); (b) "My Prayer" (Squire).
 Baritone—Mr. J. Graham Young, "At Santa Barbara" (Russell).
 9.19: Flute and clarinet—Messrs. A. E. Hutton and M. E. Withers, (a) "Lo, Here the Gentle Lark" (Bishop); (b) "Serenade" (Titli).
 9.29: Instrumental—Studio Octet, (a) "Around the Corner" (Kassel); (b) "Woodland Sketches" (MacDowell).
 9.41: Contralto and tenor—Salon Duo, "Life's Dream Is O'er" (Ascher).
 Soprano—Miss Corrie Aslin, (a) "I've Been Roaming" (Horn); (b) "Golden Dancing Days" (Clarke).
 Quartet—Salon Quartet, "Good-night" (Scott-Gatty).
 9.54: Selections—Paul Godwin's Dance Orchestra, (a) "Danse Oriental" (Lubomirsky); (b) "The Desert Caravan" (Joshida).
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, FEBRUARY 11.

- 3.0 : Selected recordings.
 3.15: Talk—"Vegetable Preserving," arranged by the Home Science Extension Service of Otago University.
 5.0 : Children's hour, conducted by "Big Brother Bill"
 6.0 : Dinner music session:
 Paul Godwin's Orchestra, "Through Weber's Enchanted Woods" (Urbach); "Mignon" Entr'acte Gavotte (Thomas); "Firefly's Idyl."
 6.15: Paul Godwin and His Orchestra, "Third Waltz Medley" (Robrecht).
 Members of the State Opera Orchestra, Berlin, "Don Pasquale."
 6.30: Paul Godwin's Orchestra, "Suite Algerienne" (Saint-Saens).
 Symphony Orchestra, "Homage March" (Grieg).
 Vienna Schrammel Quartet, "Firefly's Appointment" (Ludwig Siede).
 6.45: Polydor Brass Band Orchestra, "Il Trovatore" (Verdi).
 Great Symphony Orchestra, "Paying a Visit to Millocker" (Morena).
 7.0 : News session.
 7.15: Dialogue by R. B. Tennent and L. W. McCaskill under the auspices of 4YA Primary Productions Committee, "Farmer Brown Considers Selling His Farm."
 8.0 : Chimes. National Symphony Orchestra, "Irish Rhapsody" (Herbert).
 8.9 : Presentation of song cycle "The Golden Threshold" (Lehmann). Soprano, Miss Mae Matheson; contralto, Miss Margaret Green; tenor, Mr. H. A. Johnston; baritone, Mr. Stuart Falconer. "Harvest Hymn" (Chorus); "Song of a Dream"; "Henna"; "Palanguin-bearers"; "The Serpents are Asleep"; "The Snake-Charmer"; "The Royal Tombs of Golconda"; "Love Song"; "Like a Serpent"; "Nightfall in Hyderabad"; "Cradle Song"; "To a Buddha Seated on a Lotus"; "Indian Dancers"; "New Leaves Grown Green"; "Alabaster"; "At the Threshold."
 8.49: Instrumental—4YA Trio, "Second and Third Movements from 'Trio in D'" (Mendelssohn).
 9.0 : Weather report.
 9.2 : Baritone—Mr. Stuart Falconer, (a) "The Garden of Allah" (Marshall), (b) "Drinking Song" ("Student Prince"—Romberg).
 9.8 : Instrumental—4YA Trio, (a) "Minuet in G" (Beethoven), (b) "Conversation Galante" (Walthew), (c) "Norwegian Dance" (Grieg).
 9.16: Contralto—Miss Margaret Green, "Lascia Chiapianger" (Handel).
 9.19: Instrumental—4YA Trio, (a) "Minuet in A" (Boccherini), (b) "Berceuse" (Gounod).
 9.24: Tenor—Mr. H. A. Johnston, (a) "Stay, My Beloved" (Bach), (b) "O, That It Were So" (Bridge).
 9.30: Dance music session:
 Foxtrots—Ben Selvin and His Orchestra, "Around the Corner."
 Gil Dech and His Syncopators, "You Can't Be Unhappy If You Sing" (Barry).
 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).
 Foxtrots—Van Phillips and His Band, "Just Like in a Story-Book."
 Gil Dech and His Syncopators, "Bridge of Our Dreams Come True" (Monk).
 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" (Ahler).
 10.6 : Waltz—Frank Ferera's Hawaiian Trio, "Lazy Louisiana Moon."
 Foxtrots—Paul Specht and His Orchestra, "Into My Heart" (Turk).
 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 Farmyard" (Weston).
 Paul Whiteman and His Orchestra, "Livin' in the Sunlight."
 10.30: Waltz—Stellar Dance Band, "I Feel You Near Me" (McCarthy).
 Foxtrots—The Columbia Photo Players, "It Must Be You" (Turk).
 Ben Selvin and His Orchestra, "With My Guitar and You."
 Paul Whiteman and His Orchestra, "You Brought a New Kind of Love to Me" (Fain).
 Stellar Dance Band, "A Pair of Blue Eyes" (Kernell).
 10.45: Vocal duet—Sweet and Low Duettists, "Just An Old Refrain" (Wynn).
 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).
 Debroy Somers' Band, "Figaro" (Mitchell).
 Gil Dech and His Syncopators, "A Lone Girl Flyer."
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, FEB. 11.

- 6.30: Children's session.
 7.30: News, markets, and information.
 8.0 : Studio concert.

Thursday, February 12

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, FEBRUARY 12.

- 3.0 : Selected recordings.
 3.15: Talk—"Vegetable Main Dishes." Arranged by the Home Science Extension Department of Otago University.
 3.30: Further selected recordings.
 5.0 : Children's session, conducted by Peter Pan.
 6.0 : Dinner music session.
 Grand Symphony Orchestra, "Raymond" Overture (Thomas).
 Edith Lorand Orchestra, "Wine, Women and Song" (Joh. Strauss).
 Orchestra Mascotte with Edith Lorand, "Siren Magic" (Waldteufel).
 6.15: Orchestra of the Opera Comique, Paris, "Scenes Pittoresques": (a) March, (b) Fete Boheme (Massenet).
 Dr. Ormandy's Instrumental Trio, "Barcarolle" (Offenbach).
 Edith Lorand Orchestra, "Tales from the Vienna Woods" (Strauss).
 The Royal Music Makers, "Ah! Sweet Mystery of Life" (Herbert).
 Orchestra Mascotte with Edith Lorand, "I'd Like to Kiss the Ladies."
 6.45: Edith Lorand Orchestra, "Toreador and Andalouse" (Rubinstein); "Roses of the South" (Joh. Strauss).
 Dr. Ormandy's Instrumental Trio, "From the Land of the Sky-Blue Water" (Cadman).
 The Royal Music Makers, "Kiss Me Again" (Herbert).
 7.0 : News and market reports.
 8.0 : Chimes. March—The Orchestral Octet, under direction of Mr. Harold Baxter, "Pro Patria" (Lotter). Intermezzo—(a) "Idylle" (Elgar); (b) "Caprice" (Deppen).
 8.10: Vocal duet—Miss Lillian Wood and Mr. Duncan Black, "Love's Own Kiss" ("High Jinks") (Friml).
 Contralto—Miss Beryl Smith, "Caro Mio Ben" (Giordani).
 Tenor—Mr. Lambert Harvey, "Duna" (McGill).
 8.19: Piano—Mr. Cyril Towsey, "Country Dances" (Beethoven).
 8.25: Vocal quartet—The New Clarion Quartet, (a) "Scotch Switch" (arr. D. Black); (b) "Epitaphs" (Weston and Lee); (c) "In the Gloaming" (Parks).
 8.34: Suite—The Orchestral Octet, "Le Roman de Pierretet Pierrette" (Bergmann); (a) Serenade, (b) Duo Amoureux, (c) "Bal de Noces, (d) Cortage Nuptial.
 8.46: Gramophone lecture-recital—Mr. Karl Atkinson, "Spanish Music and Musicians, Part 1."
 9.1 : Evening weather forecast and announcements.
 9.3 : Elocution—Mr. J. M. Clark, "Soaked in Seaweed," from "Nonsense Novels" (Stephen Leacock).
 9.18: Piccolo—Mr. Julian Dunn, "L'oiseau de Bois" (Boildieu).
 Waltz—The Orchestral Octet, "Amoretten-tanze" (Gungl).
 9.25: Soprano—Miss Lillian Wood, "The Valley of Laughter" (Sanderson).
 Vocal duet—Miss Beryl Smith and Mr. Lambert Harvey, "O Lovely Night" (Ronald).
 Bass—Mr. Duncan Black, "Admiral Death" (Duncan Black).
 9.36: Humoreske—The Orchestral Octet, "Musical Switch" (Alford).
 Air de Ballet—"Valse Bluette" (Drigo).
 9.44: Gramophone lecture-recital—Mr. Karl Atkinson, "Spanish Music and Musicians, Part 2."
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, FEBRUARY 12.

- 3.0 : Chimes. Selected gramophone recordings.
 3.15: Lecturette—Miss I. F. Meadows, "Vegetable Main Dishes," arranged by the Home Science Extension Department of Otago University.
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by Uncle George and Big Brother Jack.
 6.0 : Dinner music session.
 Paul Godwin's Orchestra, "Musical Panorama Medley" (Lincke).
 "Birthday Serenade" (Lincke).
 6.15: Paul Godwin's Orchestra, "The Spider" Intermezzo (Klose), "Ton-erna" (Sjoberg), "Wedding Serenade" (Klose), "Butterfly—Intermezzo" (Schlenker).
 Violin with orchestra—Paul Godwin's Orchestra, "Serenade" (Tosti).
 6.30: Paul Godwin's Orchestra, "Geisha" Medley (Jones).
 Vienna Schrammel Quartet, "Firefly's Appointment" (Siede).
 6.45: Paul Godwin's Orchestra, "Medley Memorial of Strauss Waltzes." Vienna Schrammel Quartet—"Serenade" (Heykens).
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. A Studio Concert by the Wellington City Salvation Army Band (Bandmaster Scotney) and 2YA artists. March—The Band, "Earls Court Citadel" (Audione). Selection—The Band, "Joy of the Redeemed" (Ball).
 8.14: Tenor—Mr. Chas. Williams, (a) "Roumanian Mountains"; (b) "Roumanian Night Song" (from "Songs of Roumania") (Lohr).
 Old English Glee—Lyric Quartet, "As Moments Roll" (Webbe).
 Bass—Mr. W. Binet Brown, "Warwickshire Woolling" (James).
 8.27: Meditation—The Band, "Rousseau" (Hawkes).
 Welsh Hymns—The Band, (a) "Ebenezer" (trdl); (b) "Aberstwyth."
 8.40: Sketch—Miss Gracie Kerr and Mr. James Cooke, "The Wooing Scene" from "The Taming of the Shrew" (Shakespeare).
 8.47: Guitar—Segis Invaun, (a) "Wela Ka-Hao" (Luvaun), (b) "Yaaka-Hula-Hicki-Dula" (Bernard).
 Trumpet—Karl Naumann, (a) "The Devil's Tongue" (Schmidt), (b) "Good-night, Dear Child" (Abt).
 8.59: Weather report and station notices.
 9.1 : Air varie—The Band, "The Old Wells" (Ball).
 9.10: Baritone—Mr. Will Goudie, (a) "To My First Love" (Lohr), (b) "The Four Leaf Clover" (Brounell).
 Quartet—The Lyric, "Spin, Spin" (Jungst).
 9.20: Selection—The Band, "Contemplation" (Scotney).
 9.29: Sketch—Miss Gracie Kerr and Mr. James Cooke, "The Kipper."
 9.37: Selection—Paul Godwin's Orchestra, "Torchlight Procession of the King of Frogs" (Kronberger-Marriot).
 Violin—Vasa Prihoda, (a) "Waltz" (Dvorak-Prihoda), (b) "Ay-Ay-Ay" (Perez-Frere).
 Selection—Paul Godwin's Orchestra, "Cinderella's Bridal Procession."
 9.49: Tenor—Mr. W. Roy Hill, "Irish Folk Tunes" (a) "The World of the Eyes" (arr. Brewer), (b) "A Queer Story" (arr. Brewer).
 Old-time round—Lyric Quartet, (a) "Bells of Osney"; (b) "Merrily, Merrily"; (c) "Mingled Melodies" (from Community songs).
 9.59: March—The Band, "The Challenge" (Saywell).
 10.4 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, FEB. 12.

- 3.0 : Gramophone recital.
 3.15: Lecturette—"Vegetable Main Dishes." Arranged by the Home Science Extension Department, Otago University.
 4.25: Sports results.
 5.0 : Children's Hour, conducted by Ladybird and Uncle Frank.
 6.0 : Dinner music session.
 Dajos Bela Orchestra, "Pique Dame" Fantasia (Tschalkowsky).
 Grand Symphony Orchestra, "Polonaise No. 1 in A" (Chopin).
 Dajos Bela Orchestra, "Dynamiden Waltz" (Josef Strauss).
 6.15: Grand Symphony Orchestra, "Hungarian Dances" (Brahms).
 Edith Lorand Orchestra, "Myosotis Waltz" (Waldteufel).
 Parlophone Dance Orchestra, "The Skaters" (Waldteufel).
 6.30: Orchestra of the Opera Comique, Paris, "Ballet Egyptian" (Luigini).
 Cello—Gregor Piatigorsky, "The Swan" (Saint Saens).
 6.45: Edith Lorand Orchestra, "The Merry Widow" Selection (Lehar).
 Grand Symphony Orchestra, "Scherzo" from "Midsummer Night's Dream" (Mendelssohn).
 7.0 : News session.
 7.30: Talk—Mr. A. Leslie, M.R.C.V.S. Lincoln College, "Some Common Ailments of Farm Horses and Their Treatment."
 8.0 : Chimes. Overture—Band of H.M. Grenadier Guards, "Poet and Peasant" (Suppe).
 8.8 : Quartet—Grand Opera Quartet, "For the New Year" (Mendelssohn).
 8.11: Selection—Studio Octet (Conductor, Mr. Harold Beck), "Ascanio Suite No. 1" (Saint Saens).
 8.18: Tenor and bass—Grand Opera Duo, "Soldiers and Comrades."
 8.23: Overture—Studio Octet, "Fingal's Cave" (Mendelssohn).
 8.36: The Studio String Quartet, "Scherzo" (Cherubini).
 8.44: Contralto—Miss Alice Vinsen, "When the Tide Comes In" (Barnby).
 8.48: Flute—Mr. W. Hay, "Adagio" (1st Flute Concerto) (Mozart).
 8.55: Soprano—Madame Gower Burns, Aria: "Valse Song" from "Romeo and Juliet" (Gounod).
 Bass—Mr. J. Filer, Aria: "Love That's True Will Live For Ever."
 9.3 : Weather report and station notices.
 9.5 : Tenor—Mr. Ernest Rogers, "In Her Simplicity" (Thomas).
 9.9 : Instrumental—Studio Octet, (a) "Intermezzo" (Holst), (b) "Jig."
 9.18: Duet—Soprano and Contralto—Grand Opera Duo, "I Heard a Voice in the Tranquil Night" (Glover).

- 9.21: Flute—Mr. W. Hay, "Alla Mazurka" (Anderson).
 9.25: Quartet—Grand Opera Quartet, "Summer and Winter."
 9.27: Instrumental—Studio Octet, "Henry VIII Dances" (German).
 9.30: Dance music.
 Foxtrots—Anglo-Persians, "Dancing Butterfly" (Pascal).
 Abe Lyman and His Californian Orchestra, "Worryin' Over You" (Tobias).
 Al Goodman and His Flying High Orchestra, "Thank Your Father" (de Sylva).
 Waltz—Regent Club Orchestra, "I Love You So" (Kahn).
 9.42: Foxtrots—Tom Clines and His Music, "Until Love Comes Along."
 Lloyd Huntley and His Isle o' Blues Orchestra, "Promises."
 Ben Bernie and His Orchestra, "Telling It To The Daisies."
 Lloyd Huntley and His Isle o' Blues Orchestra, "On a Blue and Moonless Night" (O'Flynn).
 9.54: Vocal trio—Earl Burtneff's Biltmore Trio, "If I'm Dreaming."
 Foxtrots—Ben Bernie and His Orchestra, "Keepin' Myself For You."
 Colonial Club Orchestra, "Caribbean Love Song" (Berton).
 Ben Bernie and His Orchestra, "You Brought a New Kind of Love to Me" (Fain).
 Tom Clines and His Music, "Any Time's The Time to Fall in Love" (Janis).
 10.9 : Waltz—Ben Bernie and His Hotel Roosevelt Orchestra, "Coquette."
 Foxtrots—Dan Russo and His Oriole Orchestra, "Sweetheart."
 Roger Wolfe Kahn and His Orchestra, "Exactly Like You."
 Ben Bernie and His Orchestra, "Reminiscing" (Leslie).
 10.21: Vocal—Vaughn de Leath, "Sometimes I'm Happy" (Youmans).
 Foxtrots—Abe Lyman and His Californian Orchestra, "You Will Come Back to Me" (Fields).
 Ben Bernie and His Orchestra, "Livin' in the Sunlight, Lovin' in the Moonlight" (Sherman).
 Colonial Club Orchestra, "Watching My Dreams Go By."
 10.33: Waltz—Regent Club Orchestra, "Lazy Louisiana Moon" (Donaldson).
 Foxtrots—Colonial Club Orchestra, "Wherever You Are" (Kalmar); "Sweepin' the Clouds Away" (Coslow).
 10.42: Vocal trio—Earl Burtneff's Biltmore Trio, "A Year From To-day."
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunny Side of the Street" (Fields).
 The Jungle Band, "Sweet Mama" (Ellington).
 Waltz—Earl Burtneff and His Los Angeles Biltmore Hotel Orchestra, "Love Boat" (Brown).
 Foxtrots—Anglo-Persians, "The Toy Town Admiral" (Godfrey).
 Colonial Club Orchestra, "All Alone Monday" (Kalmar).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, FEBRUARY 12.

- 12.0 : Results of Dunedin Jockey Club Cup meeting at Wingatui.
 5.0 : God save the King.

Friday, February 13**1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, FEBRUARY 13.**

- 3.0 : Selected recordings.
 3.30: Literary selection and further selected recordings.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner music session.
 Royal Opera Orchestra, "Faust—Ballet Music, 1st-4th Movts."
 San Francisco Symphony Orchestra, "Rosamunde—Entr'acte."
 6.15: National Symphony Orchestra, "Stradella—Overture" (Flotow).
 Organ—Reginald Foort, "The Riff Song" (Romberg).
 Philadelphia Symphony Orchestra, "Samson and Delilah," "Bacchanale."
 6.30: Royal Opera Orchestra, "Faust—Ballet Music, 5th-7th Movts."
 Organ—Reginald Foort, "The Desert Song" (Romberg).
 Philadelphia Symphony Orchestra, "Damnation of Faust" (Berlioz).
 6.45: National Military Band, "Ballet Egyptian" (Luigini).
 National Symphony Orchestra, "Norma—Overture" (Bellini).
 7.0 : News and market reports.
 8.0 : Chimes. The Spelling Bee, arranged for Primary School Children of Auckland. Adjudicator, Mr. A. B. Chappell, M.A. During the course of the programme items will be given by the Zealandia Novelty Instrumental Quartet and Mr. J. Ainsley Daglish (tenor).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, FEBRUARY 13.

- 3.0 : Chimes. Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by Uncle Jim and the Story Book Lady.
 6.0 : Dinner music session.
 Metropolitan Symphony Orchestra, "Lilac Time Selection."
 Russian Imperial Trio, "Because" (d'Hardelot).
 Bidgood's Dance Band, "Popular Musical Comedy Waltz Medley."
 6.15: Salon Orchestra, "Italian Nights" (Roberts).
 Symphony Orchestra, "Morris Dance" (Henry VIII) (German).
 Orchestra with organ, "Demande It Response" (Coleridge-Taylor).
 Symphony Orchestra, "Shepherd's Dance" (Henry VIII) (German).
 Orchestra with organ—"Portia" Intermezzo from "Merchant of Venice" (Rosse).
 6.30: Harry Jacobs and His Palais Orchestra, "The Earl and The Girl."

- Salon Orchestra, "The Enchanted Lake" (Tschalkowsky).
 Russian Imperial Trio, "Liebesleid" (Kreisler).
 Stoll Theatre Orchestra, "The Grasshoppers' Dance" (Bucalossi).
6.45: Band of H.M. Life Guards, "Ruy Blas Overture" (Mendelssohn).
 Stoll Theatre Orchestra, "The Phantom Brigade" (Myddleton).
 Bidgood's Dance Band, "Popular Classical Waltz Medley" (argt.).
7.0: News session, market reports and sports results.
8.0: Chimes. Note: This programme is subject to interruption to permit of a relay of a Sound Film Feature from the Majestic Theatre.
 Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "The Bohemian Girl" (Balfe).
 Tenor and Quartet—Mr. Will Hancock and Etude Quartet, "When You and I Were Young, Maggie" (Butterfield).
 Duet—Miss Gretta Stark and Mrs. Ray Kemp, "Farewell to Summer."
 Baritone—Mr. Ray Kemp, "Arab Song" (Bemberg).
 Selection—2YA Orchestra, "The Spring Maid" (Reinhardt).
 Humour—Mr. Will McKeon, (a) "Anecdotes—Original and Otherwise" (M.S.), (b) "Peace and Riot" (Robbins).
 Novelty—2YA Orchestra, (a) "Darkey's Dream" (Lansing), (b) "Medley" (Bloom).
 Soprano—Miss Gretta Stark, "Songs My Mother Sang" (Grimshaw).
 Duet—Messrs. Will Hancock and Ray Kemp, "Flow Gently Deva."
 Contralto—Mrs. Ray Kemp, "Just A'wearyin' For You."
 Banjo—Mr. Stan Williamson, (a) "Beat As You Go" (Grimshaw), (b) "Indiana Skies" (Marr and Manors).
 Weather report and station notices.
 Novelty—2YA Orchestra, (a) "Highland Laddie" (Seredy), (b) "Cooon's Patrol" (Lotter).
 Tenor—Mr. Will Hancock, "I Never Knew" (Ball).
 Quartet—The Etude, "On the Sunny Side of the Street" (McHugh).
 Banjo—Mr. Stan Williamson, (a) "Kansas City March" (Black), (b) "When It's Springtime in the Rockies" (Sauer).
 Humour—Mr. Will McKeon, (a) "More Anecdotes" (MSS.), (b) "Pity the Architect" (Garland).
 Valse—2YA Orchestra, "O'Mari" (Capua).
 Selection—Orchestra, "Peg O' My Heart" (Fischer).
9.30: Dance programme.
 Foxtrots—Paul Tremaine and His Orchestra, "Hand Me Down My Walkin' Cane" (arr. Tremaine).
 Paul Whiteman and His Orchestra, "Happy Feet."
 Ray Starita and His Ambassadors Band, "Ev'ry Little Moment" (Newman).
 Paul Whiteman and His Orchestra, "A Bench in the Park."
9.42: Waltzes—Russian Novelty Orchestra, "Greetings of Spring."
 Novelty Dance Orchestra, "Sobbing Waltz."
9.48: Vocal—James Melton, "Neapolitan Nights."
9.51: Foxtrots—Ben Selvin and His Orchestra, "The Woman in the Shoe."
 Paul Whiteman and His Orchestra, "Should I?" (Brown).
 The Rhythmic Troubadours, "On Her Doorstep Last night."
10.0: Waltzes—Paul Whiteman and His Orchestra, "A Bundle of Old Love Letters" (Brown).
 Moana Orchestra, "Imi Au Ia Oe" (King).
 Foxtrots—The Rhythmic Troubadours, "Fairy on the Clock."
 Ben Selvin and His Orchestra, "Only Love is Real."
10.12: Vocal—Ernest Hastings, "Perverved Placards" (Bateman).
10.15: Foxtrots—Paul Specht and His Orchestra, "The Harbour of My Heart."
 Gil Dech and His Syncopators, "Let's Be Common."
 Paul Specht and His Orchestra, "Keepin' Myself For You."
 Ray Starita and His Ambassadors Band, "Spread a Little Happiness" (Grey).
10.27: Waltzes—Russian Novelty Orchestra, "The Love of a Gypsy."
 Novelty Dance Orchestra, "First Love Waltz."
10.33: Foxtrots—Ben Selvin and His Orchestra, "Song of the Islands."
 Moana Orchestra, "For You A Lei" (Noble).
 Gil Dech and His Syncopators, "Nobody's Using It Now."
10.42: Vocal—James Melton, "Dear Little Mother of Mine."
10.45: Foxtrots—Guy Lombardo and His Royal Canadians, "With You."
 Will Osborne and His Orchestra, "I Knew We Two Were One" (Denniker).
 Guy Lombardo and His Royal Canadians, "There's Danger in Your Eyes, Cherie" (Richman).
 Waltzes—Moana Orchestra, "My Hawaiian Souvenir" (King).
 Vic Meyer and His Band, "If I'm Dreaming" (Burke).
11.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, FEBRUARY 13.

- 3.0:** Gramophone recital.
4.25: Sports results.
5.0: Children's hour, conducted by Chuckle.
6.0: Dinner music session.
 Charles Ancliffe and His Orchestra, "Ancliffe Waltzes" (Ancliffe).
 J. H. Squire Celeste Octet, "Twilight on the Waters" (Squire).
 Gil Dech Ensemble, "Italian Nights" (Roberts).
6.15: Regal Cinema Orchestra, "Sally" Selection (Burke).
 Organ—Quentin Maclean, "Lily of Laguna" (Stuart).
 J. H. Squire Celeste Octet, "The Piccanninies' Picnic" (Squire).
6.30: Debroy Somers' Band, "Mister Cinders" Selection (Ellis and Myers).
 J. H. Squire Celeste Octet, "The Piccanninies' Picnic" (Squire).
 Organ—Quentin Maclean, "Little Dolly Daydream" (Stuart).
6.45: Albert W. Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures" (Ketelbey).

- J. H. Squire Celeste Octet, "Minuet in D" (Mozart—arr. Willoughby).
 Albert W. Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey).
 Gil Dech Ensemble, "Valse Parisienne" (Roberts—arr. Barry).
7.0: News session.
7.30: Talk—Dr. P. C. Fenwick (Chief Commissioner of Boy Scouts), "The Visit of Lord Baden Powell (Chief Scout) to New Zealand."
8.0: Chimes. Selection—Band of H.M. Grenadier Guards, "Ivanhoe."
8.8: Baritone—Mr. F. W. Simpson, (a) "Five-and-Twenty Sailors" (Col. Taylor), (b) "St. Nicholas Day in the Morning" (Martin).
8.14: Piano—Miss Aileen Warren, "Arlequin" (Chaminade).
8.17: Soprano—Mrs. F. C. Vaughan, (a) "The Lass with the Delicate Air" (Arne); (b) "Philosophy" (Emmell).
8.22: Instrumental—Christchurch Broadcasting Trio, (a) "Serenade" (Dri-go); (b) "Ye Banks and Braes" (Traditional); (c) "Waltz."
8.32: Tenor—Mr. Sydney Williamson, "Ah! Moon of My Delight" (Lehmann).
8.36: Steel guitars and ukulele quartet—Elaine Moody's Hawaiian Quartet, (a) "Crying for the Carolines" (Warren); (b) "When the Organ Played at Twilight" (Connolly); (c) "Have a Little Faith in Me."
8.45: Comedy—Will Fyffe, "She was the Belle of the Ball" (Fyffe).
8.48: Cornet—Mr. Norman G. Goffin, "Wendouree" (Percy Code).
8.53: Vocal quartet—Ritz Quartet, "Medley of Old Ballads."
8.59: Weather forecast and station notices.
9.1: Mandolin—Circolo Mandolinistico, "Stephanie Gavotte" (Czibulka).
9.8: Baritone—Mr. F. W. Simpson, "Sons of the Sea" (Col. Taylor).
9.11: Piano—Miss Aileen Warren, "Wedding Day" (Grieg).
9.16: Soprano—Mrs. F. C. Vaughan, (a) "The Cuckoo" (Lehmann); (b) "The Lilac Tree" (Garlan).
9.21: Steel guitars and ukulele—Miss Elaine Moody's Hawaiian Quartet, (a) "Southern Skies" (McLeod); (b) "I'll be Always Dreaming of Mary" (Beresford); (c) "A Little Kiss Each Morning" (Woods).
9.30: Tenor—Mr. Sidney Williamson, (a) "Mignonette" (Fischer); (b) "A Kiss and a Smile" (Fischer).
9.36: Instrumental—Broadcasting Trio, (a) "Pierrette" (Chaminade); (b) "Song of the North" (Svendson); (c) "Serenata" (Moszkowski).
9.46: Comedy—Ernest Hastings, "Perverved Placards" (Bateman-Hastings).
9.49: Cornet—Mr. Norman G. Goffin, (a) "Melody in F" (Rubinstein); (b) "Stars in a Velvety Sky" (Clarke).
9.57: March—National Military Band, "El Capitan" (Sousa).
10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, FEBRUARY 13.

- 3.0:** Selected recordings.
5.0: Children's hour, conducted by "Aunt Sheila."
6.0: Dinner music session:
 Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes).
 New Light Symphony Orchestra, "Scene de Ballet Marionettes."
 Royal Opera Orchestra, "The Sleeping Beauty" Panorama.
6.15: National Symphony Orchestra, "Irish Rhapsody" (Herbert).
 Trio—Fritz and Hugo Kreisler, Michael Rauchschausen, "Sanctissima."
6.30: National Symphony Orchestra, "Orpheus in Hades" Overture.
 Royal Opera Orchestra, "Shepherd Fennel's Dance."
6.45: National Military Band, "Lohengrin" Prelude (Wagner).
 New Light Symphony Orchestra, "Persiflage" (Francis).
 Trio—Fritz and Hugo Kreisler, Michael Rauchschausen, "Arlesienne Intermezzo" (Bizet, arr. Kreisler).
 La Scala Orchestra, "The Secret of Susanna" Overture.
7.0: News session.
8.0: Selection—Regal Cinema Orchestra, "King of Jazz"; 'cello, Gabriel Marie, "La Cinquantaine."
8.13: Bass—Mr. R. B. Macdonald, "O Western Wind" (Brahe).
 Duet—Miss Ella Hayden and Mr. R. B. Macdonald, "Garden of Your Heart" (Dorel).
 Soprano—Miss Ella Hayden, "The Joy-Bird" (Barnes).
8.23: Instrumental—4YA Trio, (a) "Gavotte and Polonaise from 'Mignon'" (Thomas), (b) "Rigoletto" Potpourri (Verdi), (c) "Ave Maria" (Gounod), (d) "Waltz" (Tschalkowsky).
8.30: Contralto—Mrs. A. H. Ritchie, "I Love You Truly" (Bond).
 Tenor—Mr. George Crawford, (a) "I Pitch My Lonely Caravan" (Coates), (b) "The Mountains of Mourne" (Collison).
8.40: Cornet—Mr. G. Christie, "Till the Sands of the Desert Grow Cold."
 Selection—Instrumental Trio, "First Movement from Trio" (Arensky).
8.51: Recitals—Miss Maiona E. Juriss, (a) "Eve of Waterloo" (Byron), (b) "My Day Out" (Herbert).
9.0: Weather report and station notices.
9.2: Selection—Paul Godwin's Orchestra, (a) "A Concert in the Forest" (Eilenberg), (b) "The Nightingale and the Frog" (Eilenberg).
 'Cello—W. H. Squire, "Sicilienne" (Faure).
 Waltz—Jacques Jacobs' Ensemble, "Wiener Blut" (Strauss).
9.17: Soprano—Miss Ella Hayden, "Farewell, Thou Outward-Bound Ship."
 Duet—Miss Ella Hayden and Mr. R. B. Macdonald, "Farewell to Summer" (Johnson).
 Bass—Mr. R. B. Macdonald, "At Grendon Fair" (Marie).
9.28: Selection—Instrumental Trio, (a) "Scherzo from Trio in E Flat" (Schubert), (b) "Song Without Words" (Mendelssohn), (c) "Waltz in C" (Scott).
9.40: Contralto—Mrs. A. H. Ritchie, (a) "Until" (Sanderson), (b) "Tired Hands" (Sanderson).
 Tenor—Mr. George Crawford, "To a Miniature" (Brahe).
9.50: Cornet—Mr. G. Christie, "Concertante" (Hoch).

Friday, February 6, 1931.

March—H.M. Grenadier Guards, "Twist and Twirl" (Kottann).
 10.0 : God save the King.

Saturday, February 14

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, FEBRUARY 14.

- 3.0 : Selected recordings.
 3.30 : Literary selection and further selected recordings.
 5.0 : Children's session, conducted by "Cinderella."
 6.0 : Dinner music session.
 New Mayfair Orchestra, "Lilac Time" (Schubert—arr. Clutsam).
 San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski);
 (b) "Aubade" (Auber).
 6.15 : Creatore's Band, "Semiramide" Overture (Rosini).
 New Light Symphony Orchestra, "Spanish Serenade" (Bizet); "Narcissus" (Nevin).
 6.30 : San Francisco Symphony Orchestra, "Liebeslied" (Kreisler); "Valse de Concert" (Glazounov).
 New Light Symphony Orchestra, "Spring Song" (Mendelssohn).
 6.45 : National Symphony Orchestra, "William Tell" Overture (Rossini).
 New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowski).
 7.0 : News and market reports.
 8.0 : Chimes. Overture—The Monte Carlo Orchestra, under the direction of Mr. F. K. Cunningham, "Le Lac des Fees" (Auber). Foxtrot—"Our Don Bradman" (O'Hagan).
 8.13 : Contralto—Miss Doris Moore, (a) "Dawn" (Curran); (b) "The Sweetest Flower that Blows" (Hawley).
 8.19 : Xylophone—Franz Kruger, "The Spanish Beggar Girl" Waltz (Orth).
 8.25 : Novelty—Ernest and Wendy, "Merry Moments at the Piano."
 8.35 : Accordion—Medard Ferrero, (a) "Hungarian Dance No. 5" (Brahms); (b) "Mayfair in the Country" (Vacher).
 8.41 : Selection—The Monte Carlo Orchestra, "Waldteufel Memories" (Finck).
 Morceau—"Love Song" (Nevin).
 8.58 : Evening weather forecast and announcements.
 9.0 : Vocal and piano—Eric and Jack, (a) "Roses of Yesterday" (Berlin); (b) "I'm Just a Vagabond Lover" (Vallee); (c) "Girl Friend of a Boy Friend of Mine" (Donaldson); (d) "Lazy Louisiana Moon."
 9.14 : Foxtrot—Monte Carlo Orchestra, "Where the Golden Daffodils Grow."
 9.18 : Contralto—Miss Doris Moore, (a) "Thoughts" (Fisher); (b) "Meadow-sweet" (Brahe).
 9.23 : Selection—The Monte Carlo Orchestra, "The Belle of New York."
 9.36 : Novelty—Ernest and Wendy, "Merry Moments at the Piano."
 9.46 : Fantasia—The Monte Carlo Orchestra, "Romeo and Juliet" (Gounod).
 Intermezzo—Liebestraum" (Von Blon). March—"Colonel Bogey."
 10.0 : Programme of dance music.
 Foxtrots—Arcadians Dance Orchestra, "Dreamy Honolulu" (Gumble).
 New Mayfair Dance Orchestra, "The Doll's House" (Butler).
 Arcadians Dance Orchestra, "San Sebastian" (Levy).
 10.9 : Waltz—Alfredo's Band, "I Love You, I Hate You."
 Foxtrots—George Olsen and His Music, "The Song of the Dawn."
 The Blue Jays, "Sing, You Sinners" (Coslow).
 10.18 : Vocal novelty—Walter Miller, "The Clatter of the Clogs" (Flynn).
 10.21 : Foxtrots—Harry Hudson's Melody Men, "The Woman in the Shoe."
 Alfredo's Band, "Watching My Dreams Go By" (Dubin).
 Harry Hudson's Melody Men, "The Harlequinade."
 10.30 : Waltzes—New Mayfair Dance Orchestra, "Eleanor" (Hanley).
 George Olsen and His Music, "It Happened in Monterey."
 Foxtrots—The Blue Jays, "Why?" (Coslow).
 Alfredo and His Band, "Puttin' on the Ritz" (Berlin).
 10.42 : Vocal novelty—Walter Miller, "Harmonica Harry" (Baxter).
 Tango—Radio Melody Boys, "Here in My Heart" (Fields).
 10.48 : Foxtrots—Leo Reisman and His Orchestra, "Happy Feet" (Yellen).
 Radio Melody Boys, "Exactly Like You" (Fields).
 Leo Reisman and His Orchestra, "I Like to Do Things for You" (Yellen).
 Tom Gerun and His Orchestra, "Dream Lover" (Grey).
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, FEBRUARY 14.

- 3.0 : Chimes. Selected gramophone recordings.
 3.30 and 4.30 : Sporting results to hand.
 5.0 : Children's session, conducted by "Aunt Molly."
 6.0 : Dinner music session:
 Grand Symphony Orchestra, "Suite Orientale," (a) March, (b) On the Shore of the Ganges (Francis Popy).
 Edith Lorand Orchestra, "Toreador and Andalousse" (Rubinstein).
 Grand Symphony Orchestra, "Naila" (Delibes).
 6.15 : Dajos Bela Orchestra, "Woodland Peace" (Favilla).
 Berlin State Opera House Orchestra, "The Barber of Seville" Overture.
 Edith Lorand Orchestra, "Minuet" (Boccherini).
 6.30 : Grand Symphony Orchestra, "Suite Orientale," Part 4, The Patrol; "Lustspiel" Overture (Kela Bela).
 Dajos Bela Orchestra, "The Court Ball" (Josef Lanner).
 Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitome).
 6.45 : Grand Symphony Orchestra, "Suite Orientale," Part 3, The Dancers;
 Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht);
 Grand Symphony Orchestra, "Chinese Street Serenade."

- 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon).
 (a) "Street Singer" (Fraser Simson), (b) "Laguna Lullaby."
 8.15 : Tenor—Mr. Noho Toki, (a) "Sympathy" (Marshall), (b) "When Song is Sweet" (Sans Souci).
 8.21 : Accordion duo—Gellin and Bergstrom, (a) "Sweden Waltz" (Westling), (b) "Midsuntide Waltz" (Vendel).
 8.27 : Popular songs with ukulele accompaniment—Mrs. R. M. Cummins, (a) "Here Comes the Sun" (Freed), (b) "Hawaiian Love Song."
 8.32 : Xylophone—Mr. L. W. Probert, "La Pluie" (Green).
 8.36 : Humour—Mr. Jack Leckie, "Keep On Carrying On" (Weston and Lee).
 8.42 : Chorus—Columbia Light Opera Company, "Lionel Monckton Memories."
 8.50 : Selection—Band of H.M. Coldstream Guards, "Faust" (Gounod).
 8.58 : Dance—Salon Orchestra, "The Grasshoppers' Dance" (Bucalossi).
 9.2 : Weather report and station notices.
 9.4 : Tenor—Mr. Noho Toki, (a) "Marama Maid of the Moonlight" (Don), (b) "Wait" (deHarlelot).
 9.10 : Piano duet—Sisters Rialto, (a) "Charleston" (Mascheroni), (b) "Hovrag" (Hubal).
 9.16 : Popular songs with ukulele accompaniment—Mrs. R. M. Cummins, (a) "Bye Bye Blues" (Gray), (b) "When You Come to the End of the Day" (Kahn).
 9.22 : Selection—Salon Orchestra, "Marriage Market" (Jacobs).
 9.30 : Humour—Mr. Jack Leckie, "Apple Dumplings" (Collinan).
 9.36 : Lute and mandolin—Prof. Calace and Maria Calace, (a) "Tarantella, Op. 18" (Calace), (b) "Reverence Gavotte" (Calace).
 9.42 : Novelty—Orchestra and Chorus, "A Miniature Concert."
 9.50 : Saxophone—Mr. W. J. Haimes, "Non e ver" (Mattei).
 9.54 : Salon Orchestra—Latest Dance Novelties.
 10.0 : Dance programme:
 Foxtrots—Broadway Players, "I'm Following You" (Dreyer).
 Carl Fenton and His Orchestra, "Bless Her Little Heart."
 Broadway Players, "Redhead" (Embry).
 Carl Fenton and His Orchestra, "That Wonderful Something is Love" (Goodwin).
 10.12 : Waltz—Broadway Players, "All Day Long" (Cross).
 Foxtrots—Cova Cavaliers, "Mona" (Conrad).
 Carl Fenton and His Orchestra, "A Little Kiss Each Morning" (Woods).
 10.21 : Vocal—F. Luther, C. Robinson, "Sweet Virginia" (C. Robinson).
 10.24 : Foxtrots—Cova Cavaliers, "How Long Must I Wait for You?"
 New Yorkers, "Oriental Moonlight" (Seamen).
 Carl Fenton and His Orchestra, "Hello, Little Sweetheart!"
 Fletcher's Eli Prom Trotters, "That's Where You're Wrong."
 10.36 : Waltz—Broadway Players, "Shepherd's Serenade" (Grey).
 Foxtrots—Zenith Knights, "Congratulations" (Pinkard).
 Fletcher's Eli Prom Trotters, "I Like to Do Things for You."
 10.45 : Vocal—F. Luther, C. Robinson, "Down on the Old Plantation."
 10.48 : Foxtrots—Jack Montrose Orchestra, "I'm So Tired of It All."
 Broadway Players, "Should I Be Sorry?" (Kapp), "With You" (Berlin).
 New Yorkers, "Under a Texas Moon" (Perkins).
 11.0 : Sporting summary.
 11.10 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, FEBRUARY 14.

- 3.0 : Gramophone recital.
 4.25 : Sports results.
 5.0 : Children's hour, "Aunt Pat" and "Uncle Charlie."
 6.0 : Dinner music session:
 New Mayfair Orchestra, "Follow Through" Selection (De Sylva).
 Cello—Pablo Casals, "Spanish Dance" (Granados, arr. Casals).
 Novelty Orchestra, "Ginger Snaps" (Bourdon).
 6.15 : Victoria Orchestra, "La Serenata" (Metra).
 Kirilloff's Balalaika Orchestra, "Medley of Old-Time Songs."
 Organ—Jesse Crawford, "How am I to Know?" (Parker-King).
 6.30 : Vienna Philharmonic Orchestra, "Die Fledermaus"—Du und Du.
 Organ—Jesse Crawford, "I'll Close My Eyes to the Rest of the World."
 Novelty Orchestra, "Midnight Bells" (Heuberger).
 6.45 : Novelty Orchestra, "Passion Rose" (Lehar).
 Victoria Orchestra, "Espanita" (Rosey).
 Cello—Pablo Casals, "Vito" (Spanish Dance) (Popper).
 Novelty Orchestra, "Danse Bagatelle" (Bourdon).
 7.0 : News session.
 7.30 : Sports results.
 8.0 : Chimes. Selection—Charles Ancliffe and His Orchestra, "Ancliffe Waltzes" (Ancliffe).
 8.9 : Popular songs at piano with banjolele—Rose and Thistle Duo, (a) "Ro-ro-rolling Along" (Mencher), (b) "Bye Bye Blues" (Bennett).
 8.15 : Bass—Mr. R. S. H. Buchanan, (a) "Gipsy Love Song" (Victor Herbert), (b) "Hinton, Dinton, and Mere" (Holiday).
 8.20 : Novelty piano items—Mr. Sydney Hoskins, "Extemporisations and an Improvisation on Popular Air" (own arrangement).
 8.25 : Sketch—The Mascots, "The Fire Brigade" (Alfred Lester).
 8.33 : Cornet—Mr. Fred Fox, "Annie Laurie" (air varie) (arr. Trussell).
 8.38 : Chorus—Columbia Light Opera Company, "Oh Kay" Vocal Gems.
 8.46 : Violin—Miss Irene Morris, "Cantilene" (Bohm).
 Instrumental—Christchurch Broadcasting Trio, (a) "Miniature Trio" (Gurlitt), (b) "Modern French Dance" (Lind).
 8.59 : Weather report and station announcements.

Sunday, February 15

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, FEBRUARY 15.

- 3.0 : Afternoon session—Selected recordings, including literary selection.
 6.0 : Children's song service, conducted by Uncle Bert.
 6.55 : Relay of divine service from the Methodist Central Mission. Preacher, Rev. T. Olds.
 8.30 : Relay from Albert Park of a concert by the Auckland Municipal Band, under the conductorship of Mr. George Buckley.
 10.0 : God save the King.

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

- 3.0 : Selected gramophone recordings.
 6.0 : Children's song service, conducted by Uncle George, assisted by the Children's Choir from St. James's Presbyterian Church.
 7.0 : Relay of evening service from St. John's Presbyterian Church. Preacher, Rev. J. R. Blanchard. Organist and Choirmaster, Mr. C. W. Kerry.
 8.15 : (approx.) Studio concert.
 Overture—Salon Orchestra (Conductor, Mr. M. T. Dixon), "Ballet Suite" (Rameau-Mottl).
 Mezzo-soprano—Miss Mavis Castle, (a) "There Never Was a Queen Like Balkis," (b) "Of All the Tribes of Tegumai" (from the "Just So Stories") (German), (c) "Go Down to Kew in Lilac Time."
 Cello—Hans Bottermand, "Adagio from Concerto in D Major."
 Baritone—Mr. Eric Harrison, (a) "The Nightingale and the Rose" (Hawley); (b) "Love's Sorrow" (Shelley).
 Instrumental—Salon Orchestra, "Mazurka" (Saint-Saens).
 Duet—Misses Mavis and Mona Castle, "The Wind" (Cooke).
 Weather report and station notices.
 Selection—Salon Orchestra, "Madame Butterfly" (Puccini).
 Baritone—Mr. Ernest Short, (a) "I Am a Roamer" (Mendelssohn); (b) "The Two Grenadiers" (Schubert).
 Xylophone—Franz Kruger, with orchestral accompaniment, "Long, Long Ago" (Diterich).
 Baritone—Mr. Eric Harrison, (a) "Serenade" (Niedlinger); (b) "The Pine Tree" (Salter).
 Violin with orchestra—Mr. W. Haydock and Salon Orchestra, "Serenade" (Randegger).
 Contralto—Miss Mona Castle, (a) "To People Who Have Gardens" (Kennedy Fraser); (b) "Mary Stuart's Song to Her Lute" (Elgar).
 Selection—Band of H.M. Grenadier Guards, "New Sullivan Selection."
 Baritone—Mr. Ernest Short, "The Ringers" (Lohr).
 Instrumental—Salon Orchestra, "Rigaudon" (Raff).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, FEBRUARY 15.

- 3.0 : Gramophone recital.
 5.30 : Children's song service by children from Presbyterian Sunday Schools.
 6.15 : Chimes from studio.
 6.30 : Musical recordings from studio.
 7.0 : Relay of evening service from St. Paul's Presbyterian Church. Preacher, Rev. A. G. McDowall; organist, Mr. Norman Williams; choir conductor, Mr. H. Blakeley.
 8.15 (approx.) : Relay from a city rotunda by the Christchurch Municipal Band (Conductor J. Noble) and assisting 3YA artists. March, Band, "Our Prince" (Peckersgill).
 8.21 : Bass—Mr. W. J. Richards, "The Skipper" (Jude).
 8.25 : Cornet duo—Bandsmen L. Bruce and E. Barber, "Jollification." Fantasia—Band, "D'ye Ken John Peel" (Greenwood).
 8.39 : Tenor—Mr. Douglas Suckling, (a) "Pleading" (Elgar), (b) "Duna."
 8.44 : Two-step—Band, "Very Jolly" (Wilson).
 8.50 : Concert waltz—Band, "Birds of Paradise" (Rimmer).
 Foxtrot—"Saucy Sue" (Smythe).
 9.4 : Weather forecast and station notices.
 9.6 : Bass—Mr. W. J. Richards, (a) "The Veteran's Song" (Adams), (b) "A Cartload of Hay" (Adams).
 9.11 : Foxtrot—Band, "Just You, Just Me" (Greer).
 9.16 : Tenor—Mr. Douglas Suckling, (a) "Love is Mine" (Gartner), (b) "Star of the South" (Lohr).
 9.22 : Waltz—Band, "Parting Whispers" (Greenwood).
 March—"En Avant" (Mott).
 9.34 : From the studio:
 Selection—Symphony Orchestra, "Morgenblätter" (Strauss).
 9.38 : Baritone—Fraser Gange, "Border Ballad" (Cowen).
 9.41 : Organ—Marcel Dupre, "Prelude in G Major" (Bach).
 9.45 : Choral—Marise Beaujeu, M. Borden, and Chorus, "Faust"—"Scene l'Eglise" (Gounod).
 9.53 : Violin—Fritz Kreisler, "Gipsy Caprice" (Kreisler).
 9.56 : Selection—Philadelphia Symphony Orchestra, "Finale to 'Gotterdammerung'" (Wagner).
 10.0 : God save the King.

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

- 3.0 : Selected recordings.
 5.30 : Children's song service, conducted by Big Brother Bill.

- 9.1 : Selection—Plaza Theatre Orchestra, "The Belle of New York."
 9.9 : Popular songs at piano with banjolele—Rose and Thistle Duo, (a) "If I Had a Girl Like You" (McDermott), (b) "To-morrow is Another Day" (Green).
 9.15 : Bass—Mr. R. S. H. Buchanan, (a) "Harlequin" (Sanderson), (b) "A Pastoral" (Maley).
 9.20 : Instrumental—Broadcasting Trio, (a) "Berceuse" (Illynski), (b) "Reverie du Soir" (Saint-Saens), (c) "Poupée Valsante" (Poldini).
 9.31 : Sketch—The Mascots, "The Baggage" (Bertha Moore).
 9.42 : Novelty piano items—Mr. Sydney Hoskins, "Extemporisations and Improvisation on a Popular Air" (own arrangement).
 9.47 : Violin—Miss Irene Morris, "Waltz" (Brahms).
 9.50 : Vocal duet—Ford and Glenn, "Tin Pan Parade" (Gillespie).
 9.53 : Cornet—Mr. Fred Fox, "Polka de Concert" (Biggood).
 9.57 : Selection—Eddie Thomas's Collegians, "Beautiful Ohio" (Earl).
 10.1 : Dance music:
 Foxtrots—Victor Arden, Phil Ohman, and Their Orchestra, "How am I to Know?" (Parker).
 Arcadians Dance Orchestra, "Pepita" (Mascheroni).
 Bernie Cummins and His New Yorker Hotel Orchestra, "Livin' in the Sunlight—Lovin' in the Moonlight."
 The Rhythmic Eight, "Figaro" (Mitchell).
 10.12 : Waltz—Jean Goldkette and His Orchestra, "Can You Blame Me?"
 Foxtrots—Henry Busse and His Orchestra, "I Came to You" (Conrad).
 Gus Arnheim and His Orchestra, "I'm Feathering a Nest."
 10.21 : Vocal—Olga Albani, "It's You I Love" (Davis).
 10.24 : Foxtrots—New Mayfair Dance Orchestra, "There's Room in My Heart" (Gibbons), "Cuban Nights" (Salvato), "I'll Be Getting Along."
 Waltz—Bob Haring and His Orchestra, "By and Bye, Sweetheart."
 10.36 : Foxtrots—Nat Shilkret and His Orchestra, "Congratulations."
 New Mayfair Dance Orchestra, "Cuckoo in the Clock."
 George Olsen and His Music, "The Moon is Low" (Freed).
 10.45 : Vocal—Grace Hayes, "On the Sunny Side of the Street" (Fields).
 10.48 : Foxtrots—The High-Hatters, "You Brought a New Kind of Love to Me"
 Nat Shilkret and His Orchestra, "Into My Heart" (Turk).
 Herman Klenin and His Orchestra, "I'm Doing What I'm Doing for Love" (Yellen).
 Nat Shilkret and His Orchestra, "Dark Night" (Grey).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, FEBRUARY 14.

- 12.0 : Results of Dunedin Jockey Club Cup Meeting at Wingatui.
 5.0 : Children's hour, conducted by Aunt Anita and Uncle Sambo.
 6.0 : Dinner music session.
 Boston Symphony Orchestra, "Frühlingsstimmen" (Johann Strauss).
 Organ—Jesse Crawford, "Serenade" (Romberg).
 National Military Band, "Ben Hur" (Byng).
 6.15 : Vienna Philharmonic Orchestra, "Dorfschwalben" (Strauss).
 International Novelty Quartet, "Teddy Bears' Picnic" (Bratton).
 Jack Hylton and His Orchestra, "Steppin' Out" (Vauchant).
 6.30 : New Mayfair Orchestra, "Wake Up and Dream" (Porter).
 Organ—Jesse Crawford, "Indian Love Call" (Friml).
 International Novelty Orchestra, (a) "To Die Dreaming"; (b) "Four Little Farms."
 6.45 : Jack Hylton and His Orchestra, "Old-time Songs."
 International Novelty Quartet, "The Skaters" (Waldteufel).
 Jack Hylton and His Orchestra, "Lonesome Little Doll."
 7.0 : News session.
 8.0 : Relay of vaudeville programme from 3YA, Christchurch.
 10.0 : Dance session.
 Foxtrots—Leo Reisman and His Orchestra, "Puttin' on the Ritz."
 Jack Hylton and His Orchestra, "Punch and Judy Show."
 Gus Arnheim and His Orchestra, "Dancing to Save Your Soul" (Golbert).
 Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
 10.12 : Waltz—Ted Florito and His Orchestra, "Molly" (Goulding).
 Foxtrots—The Rhythmic Eight, "Fairly on the Clock" (Myers).
 Jack Hylton and His Orchestra, "The Kerb Step" (Young).
 10.21 : Vocal duet—Esther Coleman and Foster Richardson, "The Voyagers."
 10.24 : Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "I Love You So Much" (Kalmar).
 Coon Sanders Orchestra, "Moanin' for You" (Goulding).
 Victor Arden, Phil Ohman and Their Orchestra, "Dancing the Devil Away" (Harbach).
 10.33 : Waltz—Arcadians Dance Orchestra, "Melody Divine" (Ruby).
 Foxtrots—Bernie Cummins and His Hotel New Yorker Orchestra, "Minnie the Mermaid" (de Sylva).
 Arcadians Dance Orchestra, "Evening Shadows" (Polla).
 Ted Weems and His Orchestra, "Mysterious Mose" (Doyle).
 10.45 : Vocal duet—Esther Coleman and Foster Richardson, "Mountain Lovers" (Squire).
 10.48 : Foxtrots—The Rhythmic Eight, "Sweethearts' Holiday" (Kahal).
 Nat Shilkret and His Orchestra, "Singing a Vagabond Song."
 Jack Hylton and His Orchestra, "On Her Doorstep Last Night" (Hargreaves).
 Gus Arnheim and His Orchestra, "All I Want Is Just One."
 11.0 : God save the King.

6.15: Instrumental recordings.
 6.30: Relay of evening service from Moray Place Congregational Church.
 Preacher, Rev. Albert Mead, M.A. Choir Conductor, Mr. Alfred Walmsley.
 7.45: Selected recordings.
 8.15: Relay from 3YA, Christchurch, of Open-Air Band Concert by the Christchurch Municipal Band.
 10.0: God save the King.

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

6.0: Children's service.
 8.15: Studio concert.

Profits Before Programmes

(Continued from page 3.)

The members of the National Association of Broadcasters sat in convention in Cleveland, Ohio, U.S.A., toward the end of last year, and departed with a warning in their ears about excessive advertising in programmes. Hardly had the conference opened when General Saltzman, chairman of the Radio Commission, spoke on the subject: "Too Much Advertising." "If I know the demands of the public," he said, "I should say they are for less advertising and for more education and better quality programmes."

Some of the 600 odd stations on the air are thinking much more of the profits than the service they are obligated to render, and resort to "excessive advertising," General Saltzman said. He admonished his audience to remember that the ether belongs to the public and that the programmes on these facilities, "loaned" to the broadcasters, "must be satisfactory to the public."

Advertising was the central attraction during the business sessions.

The two big chains reported more business than ever before. They realised 18,798,359 dollars for the first nine months in 1930, which in itself is a record, and there were then three months to go. (These figures will make newspaper owners think.)

By a solid vote the association adopted a resolution definitely opposing the allocation of facilities to any special interests, singling out the educators (who sought a percentage of time for teaching the nation) for special mention.

Where you have the American broadcasting attitude in a nutshell. Profits, first, second and last—the public weal nowhere.

Commenting on the above two statements by responsible national radio officials, the "New York Sun" says:—"One of our Federal Radio Commissioners has predicted a 'listeners' revolt at the present overburdened ether with advertising credits. Such a revolt has been in progress for some time, gaining in numbers steadily, yet as steadfastly ignored by broadcasters. While the commission is not in any sense a board of censorship and does not seek to regulate radio commercialisation, still the fact that official cog-

nisance has been taken of the matter is a bit encouraging. Certainly, in the interest of public service, the commission might take steps to discourage the present advertising excesses. The listening public can help a bit, perhaps, by directing indignant protest to the broadcaster, instead of the sponsor, for a time. For example, WOR is not serving its audience by sanctioning any such credits as are found on its series depicting certain screen plays sponsored by a nut concern. And WOR, to our way of thinking, should be held accountable for the abuses of its hospitality as practised by over-zealous commercial accounts. 'The Squealer,' as offered in drama form this week, was poorly staged and acted, but its worst offence was its advertising. The listeners' revolt was predicted by Commissioner Robinson at Washington, while news dispatches quote General Saltzman as voicing similar criticism of present-day advertising credits."

Happily in New Zealand the control of the main stations is in the hands of a concern which exists first and foremost as a broadcasting service, and not as an advertising agency. Listeners would be well advised jealously to guard the sanctity of the ether from desecration by the banalities of advertising. After all, the air belongs to the people, and broadcasting is a social agency. Any attempts made by any interests whatsoever, to get in the thin end of the advertising wedge by sponsored programmes and similar specious schemes should be resisted by all from the Postmaster-General downward. It is clearly a case of "two's company, three's none." The intervention, however subtle and disguised, of a third person between the broadcasting organisation and its listeners could not fail in some degree to damage that sense of intimacy which is so peculiar and striking a feature of our broadcasting service. There is not the slightest fear of any such rude intrusion with the Radio Broadcasting Company's stations, but if this principle is violated in any other direction we will rue the day we ever let the monster of radio advertising raise its head in New Zealand. Let us keep the air as free from the taint of commercialism as we should keep our loveliest landscapes free from advertising boardings. Who owns the air, anyhow? Shall advertisers, sooner or later, dictate what shall be and what shall not be broadcast? When he was Secretary for Commerce, President Hoover said: "We may well be proud of this wonderful development, but in our self-congratulation let us not forget that the value of this great system does not lie primarily in its extent or even in its efficiency. It is not the ability to transmit but the character of what is transmitted that really counts. An obligation rests upon us to see that it is devoted to real service and to develop the material that is transmitted into that which is really worth while."

The Wireless Age A Vision of the Future

WHAT is the future of wireless, apart from such obvious things as television and greatly improved wireless communication generally?

That the human race will some day send all their merchandise across the world by wireless waves is distinctly possible; the articles will be converted into electrical particles—transmitted as wireless waves at their constant speed of 186,000 miles per second, and then reconverted back to their original form at the receiving end.

The embryo stage of this is seen in the case of electro-plating, where the particles of silver travel through the liquid to the article which is being electro-plated.

It is even possible that in some future time man himself may travel as a wireless wave in the same way—converting himself into electrical particles at the transmitting end and being reconverted back again at the receiving station.

As Marconi foreshadows, all future communications of the world are bound to be by wireless. All Nature's methods of communication are by the wireless or other rays, as we can see in the case of the heat and light rays from the sun; there are no electric lighting or power lines connecting the earth to the sun. We get our light and power by wireless.

All our great electrical power stations of the future will be like little suns—radiating their light and power by wireless, and gone for ever will be the present-day electric light and power lines and wires. Nor will there be any overhead or underground telephone or telegraph wires, for every house will have its own wireless telephone for use in the same manner as the ordinary wire telephone of the Post Office to-day.

Waging War with Robots.

CERTAIN types of wireless waves will enable us to control the weather, rid the air of fog and smoke; other rays will fertilise the ground and make crops grow twice as quickly as at present—already this has been done in the infant science of electro-culture, as it is called.

While humanity may still continue to wage war for many centuries to come,

it is likely that owing to the facilities provided by wireless control, no human being will actually take part in them; in fact an international law may make it illegal for human beings to fight in the flesh, and all wars will have to be fought via the medium of wireless controlled battleships, tanks and aeroplanes.

These manless battles will be directed from control rooms in the capitals of the countries engaged. Crewless battleships will be manoeuvred by wireless control and television from Whitehall. Big guns will have disappeared from the decks of the vessels, and in their place wireless death rays will spit forth, melting hostile craft and boiling the sea with their intensity. Chess-playing by wireless is the beginning of this.

All our transport will some day be wireless controlled. Huge liners infinitely larger than any present day ocean greyhound may cross the Atlantic without a captain or chief engineer—and only a skeleton crew—both the course of the vessel and its engines being controlled by wireless from ports like London or New York. The Indian Air Mail pilot, instead of accompanying the machine, will sit in the control tower of the super-Croydon of to-morrow and control the course and destinies of the plane more safely and securely than if he were actually holding the joystick with his hands.

Startling and Wonderful.

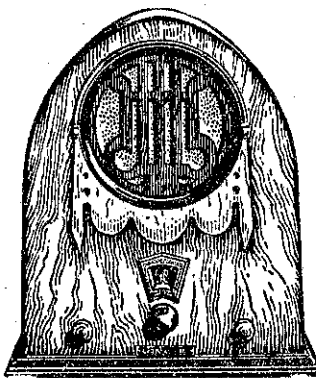
IN the realm of medicine and surgery, wireless possibilities are just as great. X-rays, radium rays and ultraviolet light are merely wireless rays of the same family which gives us concerts.

Just as some wireless rays will kill, others will bring life and health; certain wireless rays may revive the drowned or those who, by accident, might die of shock in the usual way.

And beyond all these possibilities lie other far more startling and wonderful, for we are only at the dawn of the wireless age—the full light of day has yet to break forth in all its glory.—G. H. Daly, in "Popular Wireless."

LYRATONE RADIO SETS

Four Screen-Grid, Six Valves, A.C., by Gillilan, Los Angeles.



TO DEALERS—

The reception of this set has been such that stocks were exhausted the first week. We have to advise, however, that further shipments are due February 24 and March 15, when all orders in hand will receive prompt attention. In any case this set has proved itself

WELL WORTH WAITING FOR.

The various dealers who have already bought have ALL sent repeat orders, due to its extraordinary selectivity; as many as 17 stations being logged at full speaker strength. Orders should be booked now against March delivery. Watch for the Lyratone Combination Phonograph Model. LYRATONE retails at \$21/15/-.

Enquire from

CRAWFORD & FINLAYSON LTD.

Box 675, Wellington.

Importers.

Wellington Agent: F. J. W. FEAR & CO.

KNOW the time all over the world with a

DX Clock.

Printed on Heavy White Paper.

Posted in Cardboard Tube.

9d. Each.

Notes and News

PCJ Experiments with Directional Aerials.

A LETTER just received from PCJ states that they are experimenting with a new B and C antenna. The B is directed to the East, C is directed to South America, and A is the old antenna radiating in all directions.

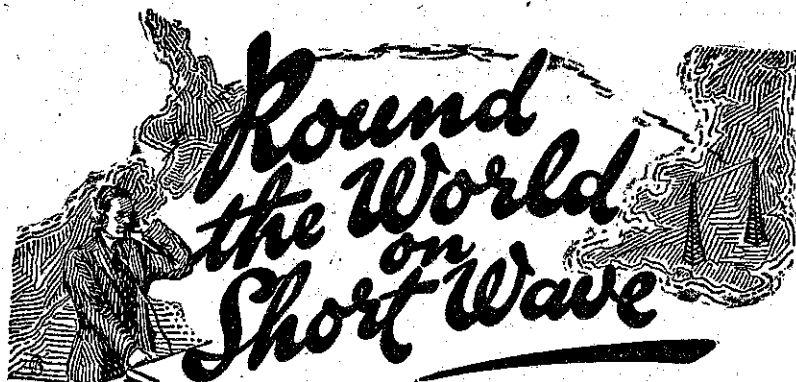
News from the United States.

AN interesting and newsy letter has just been received from Mr. Joseph B. Sessions, Connecticut, U.S.A. The following extracts will interest N.Z. listeners:—

12RO, Rome. "One of our strongest foreign stations at the present time is 12RO, Rome, on 25.4 metres, they come through very well in the afternoons and early evening here."

Chi Hoa, Indo-China (Saigon). This station is heard in the early morning, but is spoilt by local interference.

NRH, Costa Rica. "I am very pleased that our mutual friend, Cespedes, of NRH fame, has recently received a great many letters from New Zealand and Australia. I have received a letter from him to-day (Dec. 29, 1930), in which he advises that he has just about completed the construction of an entirely new 75 watt transmitter and expects to be on the air within



a week. I shall be anxious to learn from you how you receive him when he gets this new outfit in operation."

KIO, on 25.6 metres. "I am also anxious to know if you hear KIO, Kauhuku, Island of Oahu, Hawaii. They operate irregularly on about 25.6 metres with 1 k.w. of power, and are generally talking to California or Manila."

W9XAA have just started testing on 25.34 metres.

Result of Competition Programme from W9XAA.

MOST readers will remember that on October 4, 1930, a special international programme was broadcast from W9XAA, Chicago, on 49.34 metres, for which many prizes were offered for the

VS1AB, Singapore.

A TRANSMITTER at Singapore, operating under the call-sign of VS1AB, on 41.7 metres, carries out regular broadcasts of gramophone music on Mondays, Thursdays and Saturdays from 2.30 a.m. till 4 a.m., N.Z. summer time.

Sir Hubert Wilkins from W2XAF, Schenectady.

MR. W. BRIDEN-JONES (Palmerston North) reports hearing a special transmission from W2XAF on the 25th inst., when, after the American cartoonist, Mr. Robert Ripley, spoke for a few minutes, soon after midnight our time Sir Hubert Wilkins spoke to Australia. After sending greetings to all his friends, he spoke in complimentary terms of the American people. Later, he outlined his movements prior to setting out for the North Pole. He expects to leave New York early in May for London, later going to Norway for the crew. He expects to be the only Englishman in the expedition. The journey will start from Norway for the 3000 miles trip under ice in the submarine specially equipped for the adventure. The craft is fitted with seven tubular drills (two are 120 feet long). They will be able to stay under the water for six days, and, when necessary, drill through the ice, which they do not expect to be thicker than 20 feet, for fresh air. On arrival at the Arctic circle it is intended to establish stations to study weather conditions.

Sir Hubert concluded his speech at 12.58 a.m., wishing his friends in Australia good luck for 1931.

Mr. Briden-Jones says that 2XAF was RS, reception being very good. The main Australian stations rebroadcast the speech.

The Shortwave Club

KEEN interest has been shown in the Shortwave Club which has just been inaugurated in Wellington.

The Add-A-Phone, The Wonderful ADD-A-PHONE

His Majesty The King's speech—Prime Minister's speech—All great and stirring events are given to the world by Short-Wave.

The ADD-A-PHONE picks them up and puts them through your set.

—Or works independently—
WONDER — DELIGHT — SIMPLICITY

The N.Z. Short-Wave Listeners' Club recognise the world's great trend to short-wave.

Add an Add-A-Phone to your outfit and join the club and listen in to the world.

MACK'S RADIO SERVICE

76-77 Kent Terrace, Wellington.
'Phone 23-448.



MR. IVAN O'MEARA,

the famous Gisborne amateur who annexed first prize for report of an international programme broadcast from W9XAA.

best reports sent in from any part of the world.

The International Short-Wave Club report that letters were received from every continent, but that only one award was given to a listener in U.S.A. as signals skipped over almost all sections of that country.

The first prize, a complete ten-valve receiver, donated by the H. M. Kipp Co., Toronto, for the best report from a long-distance was awarded to Mr. Ivan O'Meara, Gisborne, New Zealand.

Other prize-winning New Zealanders are as follow: Mr. Dudley T. Huston, Timaru, a Sessions Chime Clock; Mr. R. T. Stanton, Christchurch, a pair of head phones; Mr. W. I. Inglis, Wellington, a pair of head phones; Mr. C. B. Dredge, Palmerston, valves; Mr. H. F. Adcock, Masterton, valves. Congratulations to all the above.

Indian Short-Wave Stations.

THE Bombay and Calcutta broadcasting stations are carrying out experimental relays on 49.1 metres and 25.27 metres respectively.

N.Z.'S OWN RADIO BOOKSHOP,

The TE ARO BOOK DEPOT, Wellington. (Read this advt. weekly, as new stocks arrive every overseas mail, which prevents us issuing a stationary catalogue.)

We have the largest stocks of radio literature south of the line. We cater for engineers, wireless colleges, amateurs, broadcasters and beginners. Your money returned if books sent are unsuitable and sent back promptly in good condition.

LOOK AT THIS LIST:—

- "Radio Manual," by Sterling and Kruse, 2s/6.
- "Practical Testing Systems," by Rider, 6/8.
- "Worked Examples of Electrical Technology," by Peasgood and Boyland, 18/6.
- "Radio Physics Course," by Ghirardi, 14/6.
- "Radio News Handbook, 1930," 2/6.
- "Radio News 1001 Radio Questions and Answers, 1930," 2/6.
- "Radio News 101 Hook-ups," 1/6.
- "How to Electrify Your Set," by Osgood (U.S.A.), 1/6.
- "The All-Electric Receiver" by "Listener-In" Publishing Co., 3/6.
- "Radio: A Study in First Principles," by Burns, 11/6.
- "Mathematics of Radio," by Rider, 10/6.
- "Radio Operating Questions and Answers," by Nilson and Hornung, 14/6.
- "Radio Amateur Handbook" (Handy's) latest edition, 5/8.
- "Radio Amateur Call Book" quarterly, December, 1930, 5/8.
- "Theory of Radio Communication," by Filgate, 12/6.
- "Principles of Radio Communication," by Morecroft, 41/6.
- "Elements of Radio Communication," by Morecroft, 19/6.
- "Direction Finding," by Keen, 27/6.
- "Radio Data Charts," by Beatty, 7/8.
- "Seeing by Wireless" (Television), by Ralph Stranger, 1/6.
- "Collins's Wireless Diary, 1931," 4/6.
- "Thermionic Vacuum Tubes," by Van der Bijl, 26/6.
- "Radio Receiving Tubes," by Moyer and Wostrel, 14/6.
- "How Radio Receivers Work," by Roberts, 8/6.
- "Radio Design," 1/- per copy.
- "Radio Engineering" (a monthly issue), 21/- per annum.
- "Wireless, the Modern Magic Carpet," by Ralph Stranger, 4/6 (favourably reviewed by Editor "Radio Record").
- "Radio Citizen's Call Book," quarterly, latest, November, 1930.

Write us Now.

TE ARO BOOK DEPOT,

64 Courtenay Place, Wellington.

At our invitation many suggestions were sent to the acting-chairman, Mr. Sellens, and the acting-secretary, Mr. McDonagh, and these will be considered at a general meeting. This will be held at 7.30 p.m. on Monday, 9th, in the small Conference Room of the Dominion Farmers' Institute Building, Featherston Street, Wellington. All short-wave enthusiasts are invited and should come armed with suggestions concerning the policy and activities of the club.

Short-wave News

MR. R. T. STANTON (Christchurch) has recently received a letter from Java which states that they have four transmitters for working telephony with Sydney, Bangkok, Europe and Saigon, as follow:—

PMB, 14.56 metres.
PLE, 15.93 metres.
PMC, 16.53 metres.
PLM, 24.46 metres.

PLE broadcasts a programme of music every Wednesday from 1.40 a.m. to 3.40 a.m. N.Z. time.

ARE YOUR HANDS TIED?

Are you bound down because you have never learned to do any one thing well? To thousands of men like you—hands tied, but eager to break free—I.C.S. training has brought success. No matter where you live, the I.C.S. will come to you. No matter what your handicaps, or how small your means, we have a plan to meet your circumstances. Without cost or obligation let us prove that we can help you to get a better job and a bigger salary. Write or call.

Hundreds of Courses to choose from.

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

1822 WAKEFIELD ST., WELLINGTON.

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.

"MIRACO" five-valve single dial set complete with "B" battery eliminator, "A" storage battery and charger, for £20; a snip. Apply "Miraco," C/o Box 34, Waimate.

SOCIETY lady's secret! Reduced 20lb. in 6 weeks without discomfort by taking Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiata.

WE repair Battery and Electric Radios, Speakers, Eliminators. Estimates given. Latest appliances. Valves tested free. R. H. Co., 553, Colombo Street, Christchurch.

RUBBER garments, dieting and exercising not necessary to reduce weight if you take Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiata.

£26 Triple Screen-Grid Metrodyne Chassis and Dynamic, less valves. Powerful, easily tuned, Phono. Connection. R. H. Co., 553 Colombo Street, Christchurch.

DON'T starve to reduce weight! Take Youth-O-Form Capsules. Absolutely harmless. 6/6 posted. A. C. Timms, Chemist, Pahiata.

EVERY Radio enthusiast should have JOHNS, LTD.'s wonderful Radio Catalogue. Everything for Radio. Post free. Johns, Ltd., Chancery Street, Auckland.

AERIAL Wire, 100ft., 3/-; Tinned, 3/6; Heavier, 4/9, 5/6, 6/-, 7/-. Lead-ins, 25ft., 2/- R. H. Co., 553 Colombo Street, Christchurch.

DESPITE the unkindly season, which has caused heart-burnings among devoted gardeners the Dominion over, the first national flower show staged last week in the Wellington Town Hall was a brilliant success in its assembly of glorious bloom. Than the gladioli there shown in individual and mass variety I have never seen finer. Some of the blooms were six and seven inches across and I know not how many were to be counted on the more impressive stems. The champion bloom was a sheer wonder and a credit to its growers—more especially as their location is one of Wellington's windiest suburbs. Profusely indeed must the fertiliser and liquid manure been applied to this gross-feeding bulb. But how richly did it repay its liberal diet! Opulent peas, dahlias and carnations, too, the show was rich in merit, while the selected begonias culled from many hothouses exhausted the vocabulary of all devotees. The show commanded popular attendance by sheer merit and should be the forerunner of a well-established national exhibit for future years.

IN travelling through New Zealand's countryside I am often struck by the absence of kitchen gardens at the farmhouses. Flower gardens, too, are more often than not conspicuous by their absence. That is regrettable, but surely the lack of a kitchen garden must be felt most severely. Have our farmers been too well off in the past to bother? If so, perhaps the present depression will go far to effect a cure! English homes—and farmhouses, too—are in marked contrast. There the garden is indispensable—in fact, a home is not a home without one. His Majesty sets the example. He grows all his own vegetables! Every day up from Windsor to Buckingham Palace come the vans of vegetables and flowers required for use and display. And what the King can do in the way of commonsense economy, surely we can! So, into the garden, my friend!

IT is no easy matter for those of us who are not fortunate possessors of an electric refrigerator to keep butter cool and firm during the hot summer days. But there is no need to endure oily butter, for the hardware merchants and leading grocers in Auckland are displaying a butter cooler which requires no electricity, and, better still, no ice. It is made of pure white plaster of paris composition, shaped like a deep dish with a deep lid, with a few large perforations and fitted with a plate-glass detachable base. All that is necessary to keep butter, cream and jellies cold and hard is to soak the cooler in cold water for about 10 minutes every twenty-four hours. The composition absorbs a large quantity of moisture and stays cool. It is easily kept clean by scrubbing with boiling water and soap, afterward rinsing in blue water. A larger kind for cooling meat, poultry, etc., has a glass door, and a glass shelf—in fact, is modelled like a small meat



By "ALISON"

safe. This, of course, can also be used for butter, and has a hollow top and sides which should be kept filled with water. It is rather more expensive than the small cooler, but as it can be put to so many more uses it is really an economy in the long run.

ANOTHER domestic, or rather toilet, novelty that attracted me was a toothbrush-holder made in the form of a wee house in a variety of brightly-coloured sponge. The house had a red roof, buff-coloured walls, green window fittings, and a green garden around it with brown paths. In the centre of the roof was a hole for the

the silent film, it must be admitted that, in comparison, the Norwegian actress does not stir the emotions with such invincible pathos. Miss Garbo's voice, with its foreign accent and unusual inflections, is perhaps not beguiling; and it may be that her role in Eugene O'Neill's sordid and powerful play of "Anna Christie" was better suited to her genre. For the rest, it was impossible to ignore, in the most dramatic moments, the Loud Laugh of a certain section of the audience; proving itself particularly objectionable in the final scene of renunciation and farewell, causing one to ponder on the

Thought for the Week

Why we want equality of the sexes is because we want man to be free. Man can only be freed by woman, and woman cannot free men until she herself is free.

—Viscountess Astor.

insertion of the handles of the toothbrushes, which really looked rather like a queer-looking chimney rising above the steep red roof.

"ROMANCE," that play of many memories, has recently been produced in the Capital City on the sound film. Melodramatic as it may be, and of a past age as it is, yet the hapless love story of Rita Cavallini is perennially attractive, and pulls, as ever, at the strings of our hearts. In the drama, as in life, the unexpected, the impossible, the least desirable event comes to pass, and Lorelei spreads her nets in a quarter where most unhappiness must eventuate. The lovely, temperamental artist, with bizarre and secret past, falls headlong into the morass of love, her quarry the zealous young cleric so admirably played by Mr. Gavin Henderson, whose singing of "Annie Laurie" to the sophisticated ebullient Rita was of great appeal. Cornelius van Tyl, polished denizen of society, generous, quixotic and lovable, was portrayed with convincing chivalry and artistic restraint by that sound and accomplished actor, Lewis Stone, who moves and looks like a gentleman, which is more than can be conceded to a great proportion of pictured protagonists to whom we have grown accustomed. A fascinating play, with its reminiscence of Camille and other brilliant fireflies of the drama; in which Greta Garbo was vivid, beautiful and seductive, everything in fact but poignant. Remembering Kathleen McDonnell's great performance in the stage play, and lovely Doris Keane on

mentality of those who greet an appeal to the emotions with loud and lamentable giggles.—The Minstrel.

ONCE more the long dress is claiming its victims. We of the older generation remember the trailing clouds of dust raised by the sweeping robes of the past. Occasionally there were falls and stumbles due to those same lengthy robes. Again history repeats itself. Miss Ellen Wilkinson, M.P., advanced thinker as she is, sways to the dictates of fashion—and measures her length on the floor as a result. Tripping over her unaccustomed robes at the dinner given by Lady Astor, she sprained her ankle severely and was incapacitated from her Parliamentary duties for some time.

IN a recent English journal Lady Rhonda blithely discourses on woman and Mr. H. G. Wells. Sir Roger Dover, a wise old Wellsian mouthpiece, thus sums up the sex: "Surely it's better to exist than just transmit existence. And that's a woman's business, though we've fooled and petted most of 'em into forgetting it. Hunger they understand, and comfort and personal vanity and desire, furs and chocolates and husbands.

and the extreme importance conferred upon them by having babies at infrequent intervals. But philosophy or beauty for its own sake, or dreams! Lord! No! The Mahometans knew they haven't souls and they say it. We know it and keep it up that they have!" An interesting point of view and, coupled with the fact that the chief fault of Mr. Wells's heroines, in the eyes of their creator, is the fact that they are over thirty, is quite reminiscent of Schopenhauer, who held that, once the child-bearing years were over, a woman might as well be dead. So that the age of chivalry is still dying or dead.—Deirdre.

THE headmaster of Eton presumably understands a great deal about the psychology of the youthful male of the species. Is he qualified, however, to make profound comment on ancient and modern maiden? In a recent speech to a girls' school he is credited with the statement that woman, though practical, is inartistic, that there have been no great women poets (shades of Elizabeth Browning, Christina Rossetti, Edith Sitwell and the rest!), no artists (what about Rosa Bonheur and Dame Laura Knight?), or musicians (did he ever listen to Carreno at the piano?); and also the sapient suggestion is recorded that, though women are braver than men, they are also more cruel! Remembering the sublime courage of the British soldier in the Great War, it would be difficult for the most smug of womankind to agree with Dr. Alington's tribute; and as to cruelty, their malice is usually expressed in words, not deeds.—Ariadne.

DESCRPTION of an eighteenth century heroine: "Her whole form delicate and feminine to the utmost degree; complexion fair, enlivened with the bloom of youth, and diversified with blushes more beautiful than those of the morning; features regular; mouth and teeth very lovely; hair light brown, eyes blue, full of softness, and strongly expressive of the exquisite sensibility of her soul. Her countenance, beautiful abode of the Loves and the Smiles, has a mixture of sweetness and spirit, which gives life to her charms." Rather a chocolate-box beauty, one surmises, to the seasoned taste of modern Romeo.

THE subject of divorce is threshed out in some recently-published essays, initial appearance of which was in the form of a series appearing in the "Daily Express." The authors are of widely differing nationalities, but all of note in the literary world; and they agree in regarding divorce as one of the best methods extant of settling multifarious evils arising through frequent inability of humanity to adjust itself, with any degree of happiness, to the holy and difficult estate of matrimony. Bertrand Russell, Dreiser and Fanny Hurst represent American viewpoint; Wells, Deeping and Rebecca West our own country; while the German Feuchtwanger and the French Maurois are also included. This book embodies singularly interest-

INDIGESTION
Heartburn, Acidity & all Stomach disorders.
SPEEDILY RELIEVED BY
PEPTOS
THE GREAT PAW-PAW REMEDY
37 ALL ALK. CHEMISTS

FAMA For Bathrooms, Lavatories, Sink-tops, etc.
FAMA STONEWOOD FLOORING CO., Wellington.

ing and amicable statements of the pros and cons of the subject, Miss West, with characteristic penetration of judgment remarking: "People should have a sane and kindly outlook on sex: it should not be associated with squallor and cruelty." The pity is that this sanity, kindness and common sense did not earlier dawn on the world.

WHAT modern youth loses in reverence it gains in poise and aplomb. Recently, accompanied by a youthful member of the intelligentsia, whose years number half and whose experience of men and manners is the equal of my own, I went to see a local picture show. My companion's ingeniously frank criticisms were penetrating and interesting, for his brain is of the brightest. A scientific exposition of the evolution of certain feathered fowl from earliest stage till emergence of the fluffies alive and kicking, enthralled my companion, who followed with rapt attention the meticulous revelation of nature's processes. On its conclusion, when nothing at all was left to the imagination, he turned to me in delight. "Wasn't it topping?" said he. "I wish they'd put it on again! If I'd seen that picture a year ago it would have saved me months of study." He continued to dilate on this supremely interesting spectacle until I remarked, in what was intended for a bantering tone: "I really believe, in your passion for exact knowledge, you'd have liked the film to have gone further and revealed the evolution of the human embryo from start to finish!" Without a trace of self-consciousness or mauvaise honte he turned young frank eyes to mine. "Wouldn't that have been great?" he said simply, enthusiasm of pursuit of knowledge for its own sake in his tones, and prepared to discuss the matter in extenso. Being but a timid spinster, however, and a Victorian one at that, at this juncture I switched the conversation to a discussion of Lord Tennyson's poems and the culture of rambler roses.—Milo.

A NEW slimming treatment has been discovered by young society in Mayfair. Lessons are being taken at a popular studio, in the patter dancing, made famous by the Jackson Lads, a Lancashire speciality, on the music-halls of a bygone day. Buck dancing, which is another name for these intricate steps, has become the joy of the devotees of slimmness. Although it appears contrary to the idea of quick movement, a slow Schottische is one of the favourite dances. In actual fact it is not at all slow, but has much toe and heel work, calculated to bring the

The Wisdom of the Roads

*The Moon God decreed that the roads should speak
One night when the moon shone bright;
And stars came a-tumbling like foam to the earth,
Their tales for the Moon God to write.
Such stories they told—some happy, some sad,
Some tragic and some sheer delight.*

*They told of fair maidens that tripped gaily by;
Of tears that were lost in their dust;
Of feet that were weary, of days that were long,
Of quarrels, both just and unjust.
And secrets they'd learnt in the dead of the night,
And kisses—soft pledges of trust.*

*The highway was sad as he told many tales
Of gay youth that sped to its doom;
But placid the byroad—it knew only cows,
And lovers and haytime and broom.
The road that winds naughtily deep in the trees
Learnt secrets and sin in its gloom.*

*The joys and the hopes and the crushing despair,
The cares of the rich and the poor;
Gay frivolous youth and the wisdom of age,
The glamour of Pleasure's allure.
Of these spoke the roads, through that long moonlit night,
While the stars wrote on—tireless and sure.*

"OH MACK."

dancer into the desired state of high temperature, which brings about the reduction craved for.

Useful Hints

LEMON juice makes a useful addition to the store cupboard. Buy when lemons are plentiful and choose only ripe fruit. Squeeze the lemons into a basin and strain through fine muslin or a sieve. Have ready a quantity of half-ounce and one-ounce bottles. Fill the bottles to within a quarter of an inch of the top. To each bottle add half a teaspoonful of sweet oil. Cork tightly and stand in a cool place. When the juice is required choose a bottle containing the amount likely to be used within two or three days. Wrap a piece of clean cotton wool round a knitting-needle, and dip into the bottle. The oil will then be extracted, and the juice will be as fresh as when first bottled.

ORNAMENTS of copper and brass will keep bright and untarnished for a long time if they are lightly rubbed with furniture polish after they are cleaned; the film of polish should be so slight as to be undiscernible.

YOU can turn an old umbrella to good account by taking off the cover and painting the metal part with bright-coloured enamel or paint. Opened out and being hung by the handle in a warm place it will make an excellent dryer and airer for small articles like handkerchiefs, stockings, gloves, lace collars, and baby clothes. When not in use it can be shut up and put right out of the way, taking up little room.

not in use. An ingenious notion is the placing of the telephone in a double-doored cupboard between the bedroom and the living-room, so that the instrument can be used from either room. A drawer for the telephone directory can be pulled out in either room as the book is required.

Beyond the bedroom is the largest room in the flat, a living-room measuring 15ft. 10in. by 12ft. 4in. Here, again, the furniture is built in, leaving a pleasingly open floor space. There is an electric fire set in a fire space of black glass and flanked by book shelves. In the angle of the room is a couch, and at this end a door opens on to a black-tiled veranda with flower-boxes and separated from the neighbouring verandah by an opaque glass screen.

This veranda is one of the most valuable things in the flat. Only a woman who has had to live in confined quarters in a town knows how greatly the possession of a balcony adds to the amenities of a dwelling and how essential a part it is of the ideal flat.

A tiny balcony gives a feeling of freedom and soothes the restless longing to be out and away from which the woman in "rooms" usually suffers. Its good effect on health and spirits can scarce be over-estimated.

The American plan of arranging a fitted dining recess between kitchen and living room has been followed by Miss Mosely in this flat for a single woman. A fixed seat has been built round one corner, and before it is the dining table. The opposite wall of the recess is fitted as a sideboard.

The beautifully planned kitchen opens off this dining recess. Like the veranda, it has a black tiled floor. Under the window is the sink, with a generous draining board at the left-hand side.

The space over the refrigerator is occupied by the food safe, ventilated by outside air. Next comes the china cupboard, then the dresser, and the broom cupboard.

The electric cooker occupies the centre of the opposite wall and gets light from the window over the sink. A flap table is fixed at one side of the cooker, and forms a handy place for setting down dishes.

Almost the only furniture the owner of such a flat would need to buy would be chairs, so completely does the fitted furniture satisfy her requirements. How easy the flat is to run, any woman can see. The pleasure of working in it is enough to tempt the most undomesticated to look around for a cooking apron!

Yet, with all its simplicity, its space, and, as dwellings go, its low cost, it is a flat in which any legitimate desires for ease and refinement of life can be satisfied as few women living alone in large towns can satisfy them now. It is greatly to be hoped that dwellings of this sort will soon be available here.

A Model Flat Ingenious Design

AN exhibit which aroused great interest at a recent London exhibition was a flat planned by Miss Edna Mosely, A.R.I.B.A., for the occupation of a "bachelor girl," and intended to illustrate the domestic uses of electricity. The plan of the flat is in itself of great interest (says "The Lady"). The vestibule is arranged so that from the entrance there is no vista through doors left open by accident. Two built-in cupboards give ample room for the tidy and convenient storage of coats. Throughout the flat the furniture is of the built-in kind, so that the occupant has little to buy and has quarters more roomy than they could be with the usual type of furnishing. On the left, a door leads to the bathroom and separate lavatory. The bathroom has a heated linen cupboard with slatted shelves, a square-sided bath, a lavatory basin, and a glass shelf for toilet articles. It can also be entered from the kitchen, this giving a way from kitchen to entrance door without passing through the living-room.

On the right, a door from the vestibule leads into the bedroom—small, but so well fitted that it feels as convenient as a cabin in a luxurious yacht. The bed is built in along one side and can be transformed into a divan by day. At its head is a modern table with a glass top, and in the corner, at its foot, is a dressing-table fitting, well lighted from the window giving on to the veranda.

The opposite side of the wall is completely fitted with wardrobes, shelves, and drawers planned to hold a woman's belongings and to close up tidily when

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By "John O'Dreams"

MRS. VIRGINIA WOOLF, in a recent series of articles, told the world how impossible it is for a woman to achieve memorable literary work and do justice to her imaginative faculty, unless she has a settled income, and, if not a house, at least a room of her own, which can be locked at will, and the insistent, clamouring world left on the other side. Many of us would be disposed to think she is right, including the male as well as female of the species, remembering how cars and cares bear heavily on artistic temperament, which is easily thrown off its pivot and quickly disturbed and distressed by ugliness and stridency of the world we live in. Yet one remembers that Charlotte Brontë wrote great novels within the shadow of the sad, restricted and unhappy atmosphere in which her sister Emily achieved the immortal "Wuthering Heights"; while Mrs. Gaskell, amid the everyday cares of a country vicarage, proved herself admirable wife and mother, open-hearted hostess and unfailing friend, and yet found time to lay us under a debt of gratitude by writing the lovely literary cameo "Cranford," and other keenly observed, though less well known, studies of life in those days. The writer remembers Frank Morton, one of New Zealand's ablest journalists, dashing off brilliant and scholarly criticisms of the drama

PRIZE POEM COMPETITION

THE prize of half a guinea in the current competition is awarded to "Oh Mack" for her poem entitled "The Wisdom of the Roads," and we feel sure its loving observation and human sympathy, coupled with lilting expression thereof, will find many admirers. The general level of work sent in during the past fortnight has been of a high average of quality, and we select for special commendation "Rain After Drought," by "Ginger," which runs the prize-winner very close but is not quite so strong in imaginative insight. (The winning poem appears on the opposite page.)

"Ocean and Air Mails": An attractive effort anent lack of unison of Nature's moods with those of poor humanity.

U.C. sends an outstanding poem in which echoes something of the music of the spheres. Unfortunately our contributor has neglected to comply with the condition, which sets a limit of 25 lines to any poem accepted for publication in this column.

"Thur's" small ode to friendship is skilfully composed with a true touch of sentiment.

"Cantor" contributes melodious requiem of Nature for one who in life cultivated his garden:

*In the Chapel, dimly lit,
One lay in state who planted it,
Who saw in bird and flower and tree
The favour of Divinity.*

D.A.S.: Your versification of ancient Maori legend catches something of the spirit of romance, but the workmanship is not above reproach.

"Mother": We admire your versatility, but perhaps the "Baby" poem would have better luck with an exclusively feminine publication.

H.R.S.: Your pagan poem, with its insistence that beauty is truth, truth beauty, is attractive; as also the two brief verses voicing respective lure of swallow and cuckoo, clematis and rata. But neither is up to prize-winning form.

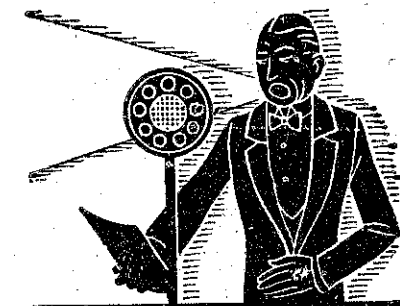
"Oxford": Your "Dreaming spires" are very mundane in architecture.

amid babel of reporters' room and general din of a newspaper office at midnight. Gissing starved in a garret. Balzac strove long and painfully before achieving fame. Thomas Burke evolved his poignant dramas of the underworld amid sordid and poverty-stricken surroundings of his youth. Mrs. Woolf, profound student of the ways of men, and wife of a poet, insists upon solitude and economic security for creative achievement; but the fact remains that many works of genius have been brought to birth under the lash of circumstance.

his tempestuous heart found that peace which was denied him in life. Now at this late date come some intimate details of those last few years. According to the "Sunday Times," in the spring of 1897 there arrived at the Hotel d'Alsace, in the Rue des Beaux Arts, a tall, stout Englishman, who gave his name as Sebastian Melmoth, took a bedroom and sitting-room, and lived there for 3½ years. His real name was Oscar Wilde. "When he wanted anything," said the proprietor, M. Dupolrier (now retired), "he always asked for me. 'Go and get me some brandy in the Avenue de l'Opera,' he would say. It was magnificent brandy, very expensive at that time, and in the early days of his sojourn Mr. Melmoth consumed four or five bottles of it a week.

MORE than three decades ago, in Paris, a brilliant English novelist, poet and playwright, passed to where beyond these voices, it may be,

"Every day I served his breakfast," proceeded his former landlord and friend, "and about two o'clock a mutton cutlet and two hard-boiled eggs. He never varied his menu. In the afternoon he read or wrote, in the evening he went out, and did not return before two or three in the morning. He was very patient during his last illness, when injections of morphia were necessary to give him relief. Two nurses were in attendance, and before he died he was converted to the Roman Catholic faith. Some days before the end his sight went, and he asked the nurses to read poetry to him. He died one morning at about nine o'clock, after heaving two or three sighs. On his coffin were but two wreaths of the flowers he loved, one from a friend, the other from the proprietor and staff of the hotel." One wonders what poets were chosen to solace the last hours on earth of that unhappy genius.



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POSSIBLY with the idea of excluding the often annoying sound of neighbouring loudspeakers, Mr. Percy Maxim, the son of the famous gun inventor, has perfected a device which, installed at an open window, keeps out all external noises without interfering with the ventilation.

LACK of uniformity in the voltages of public electric power supplies appears to be causing much inconvenience to owners of all-electric radio receivers in America. According to an exchange, no fewer than twenty different voltages are in use in various parts of that country.

LAST year the total length of the British Broadcasting Company's transmissions amounted to 64,467 hours, and out of the total the aggregate length of breakdowns amounted only to 19 hours 20 minutes—a percentage of 0.03 of the total transmitting time. A splendid record.

ENGLISH broadcast transmissions are often relayed by a network of American stations, because the times for conducting such relays are suited for good reception and to the evening programme hours of the



States. An attempt was recently made by American programme directors to persuade G. Bernard Shaw to broadcast. Characteristically, Shaw replied, "Of course I will—for four billion dollars." But the directors were unwilling to go beyond twenty thousand. They tried again during the Disarmament Conference; but Shaw retorted that when he addressed an American audience he wanted to be quite outspoken!

AN Austrian station attempted a novel broadcast recently in describing from a mountaineer's point of view the ascent of a nearby Alpine peak over ten thousand feet high. In order that listeners might follow the progress of the climbers, who were on skis, a few minutes' description of the scene

and of incidents of the climb was given at regular intervals throughout the day. For this purpose a portable short-wave transmitter was carried, and the progress reports relayed by the broadcast station in the valley below.

EVER since the Italian stations initiated relays of operatic performances from opera houses a steady increase in the attendance at these performances has been observed. The broadcasting station at Turin offers an excellent illustration of this. Recently, for the first time, a number of operas were relayed from a nearby theatre, and it was found that the latter was attended by an audience increasing in numbers and appreciation at every performance.

count of their value to the public. Under the heading of "Pleasure" wireless was awarded pride of place by a wide margin, followed by motor-ing, cinema, electric lighting, gramophone and photography. Under "Utility" wireless took third place, being preceded by electric lighting and water supply.

ENGLISH newspapers of late have contained much concerning the thriving state of the radio industry. One firm reported that business during the first week of last October showed a 20 per cent. increase over the corresponding week of the preceding year, the second week 50 per cent., and the third 130 per cent. Despite the financial depression, the New Zealand radio trade, in general, has maintained, and in many cases substantially increased, the annual turnover.

AN "international publicity station" broadcasting advertisements in all European languages is the aim attributed to a German company which is endeavouring to secure control of a broadcasting station situated at Luxembourg. This is to close down shortly to allow of the installation of new transmitting equipment designed to deliver the tremendous power of 100 kilowatts.

POPULAR discontent in Holland over the Government censorship of radio programmes has not been diminished by the decision of the Second Chamber to reject a measure for the withdrawal of the existing system. Recently a seven-mile procession of Dutch listeners marched through the streets of The Hague in protest against the alleged unnecessary suppression of politics at the microphone.

RECENT technical improvement in radio equipment are not making matters any easier for the officials of the Radio Branch of the Canadian Federal Government. In fact, there is a possibility that the greater selectivity which receiving sets now possess may bring about international complications. So long as the selectivity of receiving sets was not too refined, the Government heard few complaints concerning clashes of stations on the same wavelength. Now, however, with the improvements in sets, such complaints are becoming numerous, and the Federal Government is being looked to to straighten out the situation. Station CFRB, of Toronto, and station XED, of Mexico, for instance, are on the same wavelength, and are now beginning to conflict. Listeners are objecting to having the foreign programmes interfere with the Canadian one. The Radio Branch is looking into the matter, and it is possible that reference will have to be made to Mexico in order to straighten out the difficulty.

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- KING RADIO RECEIVERS** F. J. W. Fear & Co.,
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138-140 Queen St., Auckland.
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- RADIOLA RECEIVERS and Farmers' Trading Co., Ltd.,**
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COUNTRY TOWNS

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THE question of introducing the sponsored programme into the Indian broadcasting services was discussed recently by the officials of the Central Broadcasting Advisory Committee, recently formed in India. Their decision to adopt such a type of programme was taken with the object of creating a wider field from which a greater variety of programme matter could be selected, and with a view to placing at the disposal of firms an effective method of obtaining publicity. The problem of arranging interesting programmes is obviously a difficult one in a land where artists are scarce, and it was thought that the wider scope created by the introduction of the sponsored programme would, if the business community availed itself of the opportunity, prove to be mutually beneficial.

THE new "B" class broadcasting station 2MV, Moss Vale, which was built by Amalgamated Wireless and opened on December 17 last, is being heard by a surprisingly large circle of listeners. Mr. W. Young, manager of the station, has received letters acknowledging reception from listeners in New Zealand, Victoria, and Queensland, as well as from many parts of New South Wales.

THE lament of the pessimist that people are becoming weary of broadcasting is strongly negative by the verdict of readers of a French publication. They were recently invited to classify, in order of merit, and under the separate headings of "Pleasure" and "Utility," the seven modern inventions most deserving to be singled out and encouraged on ac-