

PUBLISHED WEEKLY

THE RADIO RECORD



Vol. V., No. 11.

WELLINGTON, FRIDAY, SEPTEMBER 25, 1931.

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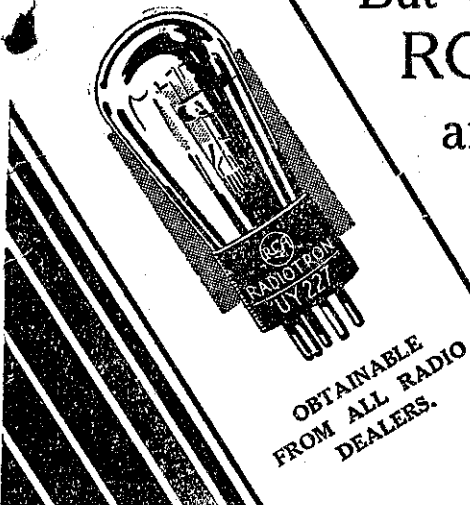
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WELLINGTON.



GERMANY and Britain are running very close in the race for the four-millionth receiving license. Although the population of the former country is considerably larger than that of Britain, the license figures remain remarkably close. On July 1 Germany had 3,719,594 registered listeners, while the British total on the same date was 3,756,331. No wonder the B.B.C. can pay their way.



JUST as "Radio Paris" was about to give a running commentary on a motor race recently, the Post Office authorities, without warning, took possession of the telephone line which had been hired for the occasion, with the result that the commentator poured his lurid story into a "dead" microphone. No reporter was present when he learned the truth.

at his store, and the proprietor amuses the youngsters with a wireless entertainment during the parents' absence.

SHIP letter telegrams at a reduced rate are now accepted aboard ships at sea for transmission by wireless to English post office coast stations and thence by post to the addressees. The service is at present available only in the ship-to-shore direction, and reply telegrams to ships can be sent only as ordinary radiograms. The charge for a ship letter telegram is 3d a word, with a minimum charge of 6/3 for 25 words.

THE Glasgow Municipal Transport Committee recently adopted a scheme which, it is thought, will eliminate all tramway interference with broadcast reception. The scheme involves the scrapping of nearly 1000 trolley wheels at present used for picking up current, and replacing them with Fischer Bow collectors—a type which has passed rigorous tests in Budapest, Vienna, Leipzig, and other Continental

cities, and was the subject of a favourable report by the British Post Office two or three years ago. An English contemporary states that Glasgow's example will shortly be followed by many other municipalities.

"THE Duke of York has completed a two screen-grid receiver, with which he listens to European stations which, when they hear him tuning in, preface their announcements with 'Your Highness, ladies and gentlemen.'" —Australian paper. Comment would be superfluous.

AS a first step toward the establishment of America's international relay broadcasting service, the Federal Radio Commission has just authorised the formation of the Short Wave Broadcasting Corporation with four channels with which to commence operations. The corporation's first object is to furnish programmes to the Latin-Ameri-

can countries during 1931, but arrangements are already in hand for supplying a service to Japan, China, and the Far East, as well as certain countries in Europe. The nucleus of the system will be a new 15 k.w. station located on the eastern seaboard. The wavelengths to be used will be 49.67, 25.42, 19.67, and 13.97 metres.

STUDENTS of the Budapest Technical School recently constructed a short-wave transmitter and receiver for the purpose of broadcasting a running commentary on the Budapest University boat race. The transmitter, which was carried in a boat following the rival crews, operated on 41.5 metres with a power of 10 watts, and the description was picked up on a receiver connected to a public address system.

THE N.B.C. of America recently announced that in the near future it will make a serious of awards amounting to several thousands of dollars for the best orchestral work written by an American composer. In a preliminary announcement of the competition, made by Mr. H. L. Aylesworth, the president of the N.B.C., he stated that the relationship between music and radio must be close and continuing for their mutual advantage. "Music, the only true international language, needs no translation. It has been a leading factor in the tremendous growth of broadcasting," he said, "and as good businessmen, the officials of the N.B.C. have decided that this debt should be acknowledged in some tangible manner."

IT is reported in the London "Times" that Marquis Marconi is devoting much time to the perfecting of some standard commercial short-wave receiving apparatus. He is also said to be preparing tests of the practical value of waves a few centimetres in length, with a view to their application to some special ship-to-ship and shore-to-shore wireless safety device, principally to establish the accurate position of vessels in a fog.

A NOVEL and enterprising business idea is carried out by a South African radio dealer. Mothers desirous of going shopping can leave their children

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The IMPOSTOR

By MARY SCOTT
(“Helen Gordon”)

This play, “The Impostor,” by Mary Scott, was awarded premier place of those commended by the judge, Mr. Victor Lloyd. Readers will be interested to know that Mary Scott is identical with “Helen Gordon,” the winner of the prize-winning play, that being a pen name adopted by Mary Scott. The literary talent of Mary Scott was called into its latest development by “The New Zealand Dairy Exporter” in its Home Journal pages. After her graduate days Mrs. Scott entered upon married life in the backblocks, giving up all idea of journalistic or literary work, in which she had dabbled while at college. She was, however, inspired by a chance copy of the “Exporter” to realise that in the backblocks life around her—logs and bush and mud—lay an unexploited field, with not a little romance. This was some four years ago, and from that initial inspiration she has embarked upon a wide field of effort. Contributions from her pen under the nom de plume of “Anon” have appeared in the “New Zealand Herald” and “Weekly News,” and in the “Auckland Star” and other papers as M.E.S. Her work has also appeared, in particular, in “Tui’s Annual” and the “Artists’ Annual” under various noms de plume. Her initial inspiration was to portray the heroic life of New Zealand backblocks women. On that theme she has written a novel, which is now under consideration in London. This play, “The Impostor,” totally distinct in character from her winning work, “The Signal,” is a further demonstration of her versatility.

LIST OF CHARACTERS:

MARION NORWOOD MRS. MORTON
BERYL MORTON MRS. ASHMEAD
NORA BENNETT SALLY, the Maid.

SCENE:

The drawing-room of a suburban house. Evidently the people who live here have wealth and position, but also pleasant, homely tastes. There is a table-telephone in one corner, and a large door or French window on to the verandah; also another window and a door leading into the hall of the house.

TIME: A summer afternoon at the present day.

(Mrs. Morton and Mrs. Ashmead are seated in dignified conversation as the curtain rises; they are women in late middle life, both fashionable, both well-preserved. Here the resemblance ends; Mrs. Ashmead is a gentle, kindly soul; Mrs. Morton is what the younger generation irreverently describes as “a holy terror.”)

Mrs. Morton (acidly): Most amazing! A motor accident, you say?

Mrs. Ashmead: Yes, right at the very gate of Sunnymeade. Her steering-gear failed.

Mrs. M. (grimly): In other words, she was speeding.

Mrs. A. (feebly): Oh, no; I’m sure it was some horrid little bolt or screw. . . . You know the things.

Mrs. M. (still more grimly): I know girls. . . . So Wilfrid was smitten at once?

Mrs. A. (defensively): Marion is so charming. . . . Of course, I could not let her go back to be nursed at a boarding-house—for, though she wasn’t much hurt, she was dazed and suffering from shock.

Mrs. M.: So appealing! And you nursed her back to health, and now she is to marry your only son! Well, Elizabeth, you seem to have been busy during my trip to Australia!

Mrs. A. (rather guiltily): I have missed you very much, dear Caroline.

Mrs. M.: It would seem so. But who is she, Elizabeth? Norwood? I don’t seem to know the name.

Mrs. A. (vaguely): Oh, her people live somewhere in the south. An orphan, you know. She has been living with an old uncle—a wealthy autocrat, I fancy. However, they quarrelled and she came north for a trip.

Mrs. M. Alone? Really, these modern girls!

Mrs. A. (hastily): No, Caroline, no. Marion had a chaperone, but she had been called home unexpectedly on the very day of the accident.

Mrs. M.: Most fortunate—for all concerned. And is this all you really know of the girl who is going to marry Wilfrid in a fortnight? Are you content with that, Elizabeth?

Mrs. A. (quite firmly): I am content with Marion.

Mrs. M.: Oh, I don’t deny that she has a certain charm—but modern, very modern! And then Wilfrid is so wealthy! Why, she will be mistress of the largest station in the province—positively an estate!

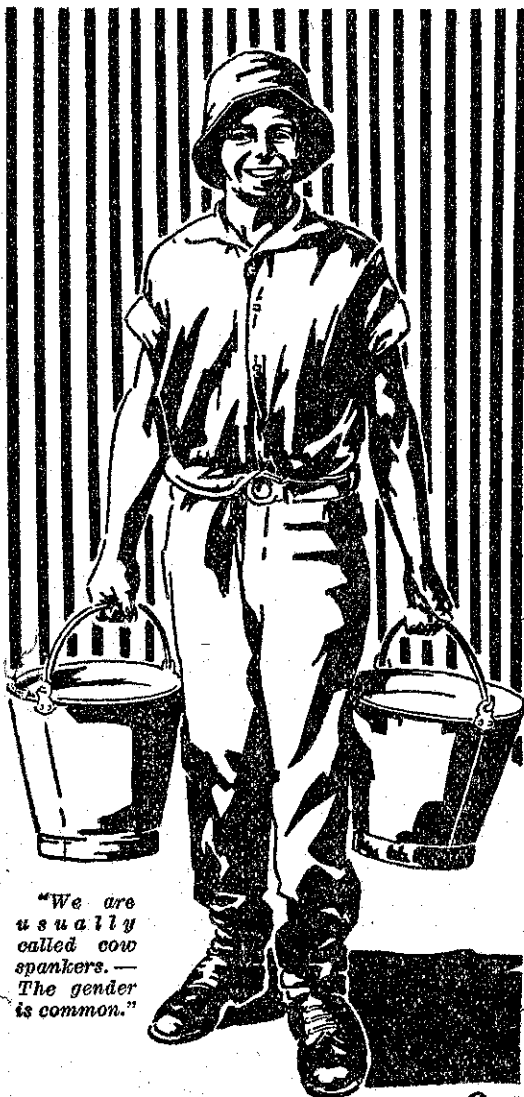
Mrs. A. (hastily): Here come Marion and Beryl. How pretty Beryl is! I suppose her engagement will be the next.

Mrs. M. (with a hauteur that suggests that Marion has spoiled a cherished plan): No doubt. She is much admired. (The girls enter. Marion is young and pretty, but her face is clouded and her manner distraite today. Beryl is so utterly unlike her mother that we can only suppose her to possess a most charming father.) We have been admiring your beautiful wedding-presents, Miss Norwood.

Marion (with obvious constraint): Wilfrid’s really; not mine. They’re all his friends.

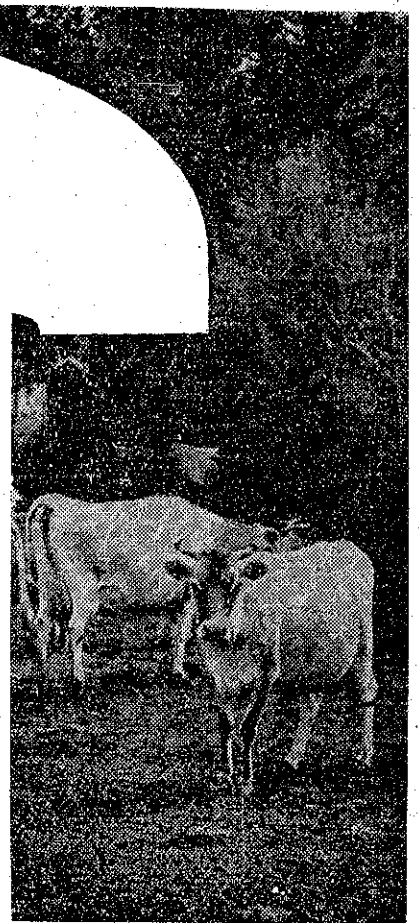
Mrs. A. (kindly): Never mind, dear; when you go south for your honeymoon it will be all your friends.

Marion (with an enigmatic smile): Perhaps so. Beryl, the (Continued on page 2.)



“We are usually called cow spankers.—The gender is common.”

CAVE



Vanes are clamouring to finish that set. Do you mind?

Beryl: All right, I'll go. But I'm in rotten form.

Mrs. M. (shuddering): What a vocabulary! . . . You don't Play, Miss Norwood?

Marion (vaguely): No; I sprained my wrist in that motor smash.

Mrs. A.: Shall we sit under the trees and watch the game, Caroline? Will you come, Marion?

Marion: No, thank you. There's a glare, and my head's aching.

Mrs. A. (fluttering round her): Poor child! You look tired. A little aspirin? No? Then lie on the sofa quietly, and close your eyes. Remember, Wilfrid is due at five o'clock. (They go out.)

Marion (sadly): No need to worry about Wilfrid's coming. He must have had my letter by now. (As she talks she walks restlessly up and down, now picking up an ornament, again looking at a book.) What an afternoon! Why on earth did the girls want to turn out for tennis, to-day of all days? And what an old horror that Mrs. Morton is! How did Beryl ever manage to produce such a mother—at least, that's a bit mixed, but I can't help it. My head feels mixed to-day. . . . If only I could have slipped quietly out, as I had planned! Anyway, I've got to catch my train, if Mrs. Morton, or the devil himself, is calling! (The telephone rings sharply.) Bother that telephone! I suppose I must answer it. (Takes down receiver.) Mrs. Ashmead's house.

What? You? But Wilfrid, haven't you had my letter? Ah, yes, I thought you must have by now. Then what do you want me for? What? A joke? Of course it wasn't a joke. . . I'm exactly what I said—an imposter. I haven't any money or any rich relatives. It's all been lies, lies! But it's over. I cashed my last pound to-day. . . . What am I going to do? I'm going home, of course. . . . Going to what? To marry you? Nonsense, don't try to be funny. . . . Goodness, Wilfrid, don't roar my head off. . . . Not funny, then—chivalrous. Oh, of course you're only doing what a gentleman feels he must do. . . . Oh! Wilfrid, how can you? (Aside.) Gracious, I'd no idea he could swear like that—the darling! (Sternly into receiver.) Don't be so cross, Wilfrid! No, it's no use; I'm not going to take advantage of your generosity and have you ashamed of me in six months. Why, I'm not even what Mrs. Morton would call a lady. . . . What's that? Damn Mrs. Morton. . . . Oh, rather. . . . At least, I mean I'm surprised at you, Wilfrid Ashmead. . . . Talking like this is only making it worse. . . . I tell you, I'm going home, home to the backblocks and the cows. . . . What do I do with them? Why, milk them, of course. . . . And—some day—I'll marry a farmer. . . . What? You a farmer? Oh, don't be silly. . . . I mean a real farmer—the sort that milks cows and wears a grey shirt and dungarees. . . . No, that's the only kind I would ever marry. . . . Now do you see? . . . Good-bye (She bangs on the receiver and buries her face in her hands as the others enter. Nora is a modern girl and charming.)

Mrs. A.: So glad your headache seems better, dear. Were you practising that recitation the Dean asked for?

Marion (quietly): Yes; "The Impostor's Farewell." Did it sound convincing?

Nora: Top-hole. Real sob stuff.

Beryl: You are a ripping actor, Marion.

Marion (bitterly): Almost to the life. Here comes Sally with the tea. (Sally enters with a tray and arranges the tea table. Mrs. A. Pours out. Marion helping as daughter of the house. All drink tea as they talk.) Have Joan and Val gone?

Beryl: Yes, they had to fly. They've got an aunt and uncle coming from the country to-night.

Mrs. A. (to Mrs. M.): I understand that the mother's people are not—not quite—you understand me?

Mrs. A. (kindly): Oh, hardly that, Caroline. These relations live in the Wayback, as the novelists call it. Such a romantic life, I always think!

Mrs. M.: Romantic fiddlesticks, my dear! Don't talk to me about the Wayback! I know all about it. My husband once took me to visit an old servant, a former gardener, who had bought a dairy farm in the backblocks. I cannot think what induced me to go. I shall certainly never forget it.

Beryl (lightly): Poor Mother! They got stuck in the mud and had to stay all night!

Marion (aside): Poor dairy-farmer! (To Mrs. M.): What was it like, Mrs. Morton?

Mrs. M. (with conviction): Terrible! Mud—I could never have believed it possible that such roads existed. As I remarked to Percival, the people who choose to live in such places must be half-wits.

Marion (quietly): Not necessarily.

Many good brains have come from the Wayback.

Nora (laughing): Of course they have. Why, the backblocks farmer is the backbone of the country. At least I'm sure I read that somewhere.

Mrs. M. (crushingly): If so, they should remain invisible, as backbones, despite a recent fashion in evening dresses, were intended to do. . . . Most repulsive people!

Marion: Why exactly repulsive, Mrs. Morton?

Mrs. M.: My dear Miss Norwood, they milked cows. Isn't that enough? They lived in a five-roomed cottage built of corrugated iron; isn't that enough? The men wore curious garments, known, I believe, as dungarees, and the women wore gum-boots and aprons. Surely that is enough?

Marion: And was that all that was wrong with them?

Mrs. M.: You speak, Miss Norwood, with the charming ignorance of the well-to-do and sheltered. Why, it was incredible! There was mud everywhere; and, where there was no mud, there was bush; and, where there was neither mud nor bush, there were cows. An appalling prospect!

Beryl: Well, I think they're rather ripping, the pioneers.

Marion: You're right, Beryl, they are ripping.

Mrs. M.: This ridiculous slang! They were in no sense ripping. They lived hard, narrow, low lives, and they were hard and narrow and low.

Marion: Their lives are hard, certainly, and perhaps narrow; but there is nothing low about either their lives or themselves.

Mrs. A. (placidly): Dear child, what can you possibly know about it? You talk just like those amusing Socialists that go to the Park on Sundays.

Marion (unheeding): It takes courage to live in the backblocks—and vision.

Mrs. M. Possibly. It is the modern custom to endow all the most unpleasant people with "vision"—whatever that may mean. Personally, I have no wish to know them—or their visions.

Marion: And yet, is it such a poor thing—this vision of theirs? You humour and applaud the artist who creates. The pioneer creates, too—it is no small achievement to make a farm from a forest, to wring out an honourable living from the soil. . . . Often the pioneer dies before his dream is fulfilled, but his children carry it on. (All are watching her in surprise at the quiet earnestness of her tone.)

Mrs. M. (acidly): From what one hears of the creatures, the sons usually despise their fathers and their farms, and the daughters rush to the towns and try to forget that they ever saw a cow.

Marion (hit by this): I'm afraid some of them do, Mrs. Morton, and it is very mean of them. But I don't think they do it because they are ashamed of their people. They do it because they are hungry for life, hungry for pleasure.

Nora: And small blame to them!

Marion: Surely it's natural enough to want some fun while you're young?—But to be ashamed of your people—why, that would be horrible! (With sudden resolve.) I'm so glad you talked as you did, Mrs. Morton; if you hadn't, I should have gone without a word, and you'd all have thought it was because I was ashamed, too.

(Continued on page 29.)



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RUSSIA TO-DAY

By

G. LAWN, M.A.,

Lecturer in Economics,
Canterbury College.

Speaking from 3YA on September 17, Mr. Lawn sought to dispel some of the popular fallacies concerning Soviet Russia, and in the course of his remarks described that great State as it really is. He delivered a thought-provoking lecture which we publish herewith in full.

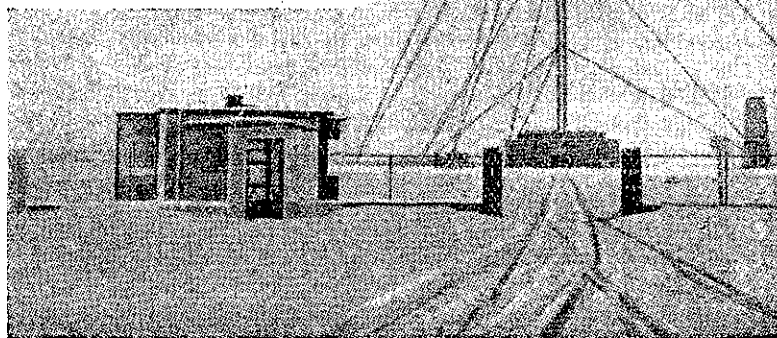
WRITING of Russia in September, 1925, Mr. J. M. Keynes, the noted English economist, said: "It is extraordinarily difficult to be fair-minded about Russia. . . . A fog of prejudice separates us from what is going on in the other world where the Union of Socialist Soviet Republics rules and experiments and evolves a kind of order." Another writer, a former member of the Rhineland Commission, concludes an account of his visit to Russia two years later with these words: "The picture of Soviet Russia in the minds of ninety-nine out of a hundred people is out of date. Since 1919 most of us have read the news of Russia with a bloody picture of the revolution in our minds, and, skimming the details, have interpreted what we read in terms of those dramatic words which issued from that revolution—Bolshevism, Communism, Proletariat, Red Army, and so on. Most of our knowledge of Russia simply isn't so to-day. It is a country with immense possibilities and a wonderful future."

Anyone who has noted from time to time the information about Russia that has appeared in our own daily newspapers and in our reputable magazines, must have been struck by the amazing contradictions in successive reports and the way in which prophecy after prophecy has been disproved by actual events. Most exaggerated statements have been made from time to time about the certain failure of the revolution, the dreadful conditions of widespread oppression and slavery, and the impossibility of successful reconstruction of the country. We have gradually come to regard any statements about Russia with an attitude of suspicion, and the more alarming the prophecy, the more we are inclined to disregard it.

Gradually there is emerging from the fog of prejudice and ignorance a body of well-attested evidence of trained investigators who describe various aspects of life in Russia in an objective and impartial way. Some excellent books are coming to hand, and valuable articles are appearing from time to time in various scientific magazines. I have just been glancing over the titles of a few of the books and articles that have come under my personal notice lately and append a list.

Reading the accounts of these impartial investigations one cannot help being struck by the remarkable progress that is being made not only in the economic reconstruction of Russia but also in the remoulding of social, political and religious institutions. John Dewey, one of the most able writers on education, describes these changes as "the most profound and extensive revolution humanity has ever known." There is no doubt that the changes taking place in Russia are going to play an important part in human progress. There are many people who still think of Soviet Russia as a sinister, evil, disruptive force, and fear the effects of its successful development.

Snow a foot deep lies under the aerials of Warsaw's wonder station—a giant with a power thirty-two times that of 2YA. The systematic development of radio is part of the Five Year Plan.



Personally, I believe that out of the widespread turmoil and disorder and economic depression that now prevails, there will emerge a new world civilisation richer than any in the past. I have a profound faith in the ability of the human race to raise itself to higher and higher levels of moral, cultural and material welfare. We have to think in terms of change and endeavour to direct inevitable changes along paths of orderly reconstruction by intelligent co-operation. Thinking along these lines, one finds an inexhaustible field of interest in the study of Russian conditions.

BUT apart altogether from what we might call the purely academic attitude of mind that finds interest in the study itself, it is of practical importance that we should try to formulate clear ideas about Russia based on reliable information. As citizens of a democratic country, we help to shape the foreign policy of our Government through our direct and indirect influence on our legislators. Diplomatic and trade relations with Russia must enter into that policy, and wise statesmanship is largely dependent on an intelligent and well-informed people.

To interpret Russia, it is well to contrast the present conditions with those of pre-revolution days and consider the stages through which the people have passed since then. The Union of Socialist Soviet Republics (U.S.S.R.) covers an area of approximately one-sixth of the land surface of the globe. It contains 182 nationalities, speaking 149 different languages. It has a population of 160 millions, increasing faster than that of all the rest of Europe combined. In the days of the Tsars the great mass of the people were illiterate peasants, subjected to cruel oppression and miserable conditions.

In contrast to the misery, squalor and ignorance of the masses were the (Continued on page 30.)

The New Zealand Radio Record

—AND—

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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

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

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

WELLINGTON, FRIDAY, SEPTEMBER 25, 1931.

THE POLITICAL SITUATION AND BROADCASTING.

ONCE more the future of broadcasting becomes involved in political developments. In the reorganisation of Cabinet, necessitated by the Coalition, changes of personnel will have a direct bearing upon the attitude of Cabinet to the Broadcasting Bill brought down by the late Government. The prime factor in influencing the Coalition was the financial condition of the country, this having become definitely worse than had so far been revealed. Under those circumstances it can be taken as certain that economy will be the first consideration, and that no action is likely to be taken which, directly or indirectly, will tend to increase the liability or responsibility of the State. It seems to us, therefore, at least likely that the proposal for the organisation of a new company, in which listeners will have the opportunity of securing share-holding and a direct voice in the election of four directors on a geographical basis, will come to the fore. That proposal, as we remarked on its presentation, embodies some very attractive features. It limits the dividend-earning power, while retaining the incentive to good management and economical administration. It gives the listeners a direct voice in management, and an opportunity for the expression of their views. It relieves the State of any responsibility or commitment, while laying down a definite series of contractual obligations involving steady performance by the company. From the listeners' point of view, the whole necessity of the moment is the development of the service itself, and the necessary extension of stations and programmes. These objectives can be attained most satisfactorily, and without any confusion of change-over, by a process of evolution from the present company's organisation. Listeners will have a greater say in representation than under the Board scheme, where the fundamental weakness of political appointment and influence jeopardises what should be merely a business organisation. In the political change that has developed, listeners are therefore closely concerned.

AN item of cabled news which appeared last week will also appeal to radio listeners. In the House of Commons the Chancellor, Mr. Philip Snowden, announced that the position of the British Broad-

casting Corporation had been reviewed in the light of the financial emergency, and the Corporation had agreed to an arrangement by which, out of the total revenue from wireless licenses next year of £2,250,000, the public funds would receive £1,000,000. In discussing the Broadcasting Bill recently submitted to Parliament we stressed the possibility that under one of its clauses it would be open for the State at any time to raid the listeners' funds to an extent greater than is now the case. This is what is now to be done in Britain under pressure of political necessity. Their license fee is 10/- per annum. Under the sliding scale that hitherto has obtained, the British Broadcasting Corporation has actually received of that sum in recent years only from 64 per cent. to 67 per cent. Under the rearrangement outlined by Mr. Snowden, the percentage is to be reduced apparently to well below that figure—to something about 55 per cent. This makes the license fee another means of taxation. While the B.B.C., by virtue of its tremendous revenue secured from a large population, may be able to afford this payment to the State, New Zealand is in a very different position. The interests of the services require the concentration of the fullest possible amount of money into the service, rather than allowing the State in any shape or form to make any raids upon the money available. With a definite contract in force between the State and any company, listeners would be safeguarded from any Government yielding to the temptation of appropriating radio moneys. The British incident, too, shows that the claim that the B.B.C. is not a State department is extremely thin. In emergency the Government acts as if it were one to all intents and purposes and in New Zealand the same experience would doubtless follow. Forewarned is forearmed.

Jottings

HAROLD PRESCOTT, tenor, well known in musical circles throughout New Zealand, has acquired a singing teacher's practice on the West Coast. He will be a loss to 3YA listeners.

Community slugs are now being held in Christchurch on Tuesdays and Thursdays from 12.30 to 1.30 p.m. All four centres now indulge in this exhilarating pastime, and broadcasts are carried out by the YA stations.

The first of the W.E.A. weekly talks, under the new system of co-operation between the association and the Broadcasting Company, will be broadcast from 3YA on Monday, October 5, from 7.30 to 7.55 p.m. In future the book review talks at this station will take place on Thursdays instead of Mondays.

VK2ME

Appeal to Listeners

A SYDNEY station that has a large circle of New Zealand listeners is VK2ME. The correspondence received by that station from New Zealand is voluminous, and greatly appreciated by the management. Letters of correspondents are of definite value to such stations as a check upon their transmissions. We are advised that, if listeners who are interested enough to write to either VK2ME or VK3ME at any time, would give particulars regarding the quality, the signal strength, and the fluctuations, if any, of reception, at the same time giving an indication of the type of receiver, and especially the number of valves employed, the information would be of considerable value.

International Short-Wave Network

CONVINCED that a tremendous market exists in America and abroad for short-wave radio sets, two American radio companies, one in Boston and the other in New York, have entered into a co-operative arrangement to develop an international relay broadcasting network, using the four relay short-waves now assigned to aviation radio. American programmes will be sent abroad on a regular basis, and American listeners will be urged to acquire receivers that will not only tune domestic short-wave stations but also the short-wave broadcasters of foreign countries.

It is explained that under the rules of the Federal Radio Commission programmes relayed by short-wave must be non-commercial in character. The returns to those who seek to develop the short-wave transmitting and receiving field will come entirely from their market for receiving equipment. Just as regular broadcasting was first developed without advertising to stimulate the sale of radio sets, it is believed that once the public is aware of the excellence of the short-wave programmes relay broadcasting can be developed in the same way.

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WHY?

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

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A Visitor's Impressions

(By "Call Up.")

MR. SYD. SLY, perhaps the Dominion's best-known player of brass instruments, has some interesting impressions to relate of his recent sojourn in the United States. Mr. Sly, who teaches in Auckland, spent two years in the States, being most of this time in Los Angeles, where, although conditions were far from good, he secured work with most of the leading bands.

"There is no dearth of music in Los Angeles," says Mr. Sly. "There are at least ten big radio stations giving a twenty-four-hour a day service, and there are innumerable bands and orchestras. The radio stations are operated by the big newspapers and by commercial concerns, and such people as Almee MacPherson, the evangelist. At any hour of the day one can pick up any type of programme, from jazz to sermons.

"There are bands at all the first-class hotels, in the parks during the summer months, at the beach cities, and at places of entertainment, so that the Los Angeles citizen has music almost wherever he goes. There are also about two hundred players working for the talkies, but even so there is a great deal of unemployment among musicians.

"A feature of the city's music is the fact that every secondary school for both sexes has its bands. One primary school had a band of forty-five players. The university of Southern California has a very fine band of about a hundred and fifty players. The band at Long Beach, a very popular resort, is now conducted by Herbert Clark, who enjoys a world-wide reputation as solo cornetist.

"Although there are so many unemployed musicians, the ones who are fortunate enough to be in positions receive excellent rates of pay. Remuneration is strictly regulated by the American Federation of Musicians, a very powerful body which conducts musical matters with an iron hand. For radio contracts there is a weekly minimum of thirty-five dollars a player for half-an-hour or less a day, but many players receive more than this. Two hundred dollars a week is quite an ordinary thing for talkie work. Even for broadcasting all rehearsals are paid for.

"While I was in Los Angeles, Paul Whiteman and his band visited the city, proving as popular as ever. Incidentally I had the pleasure of meeting him personally, and also Ben Bernie and Al. Kauffman, notable figures in the dance band world."

Mr. Sly, who went to America with the express purpose of getting the latest ideas and tuition in regard to brass playing, considers that in America the playing of most brass instruments has undoubtedly reached a higher standard than it has here, but says there is no reason why, with proper tuition, New Zealand players should not ultimately reach an equally high standard. Mr. Sly is a trombone and trumpet specialist, although he can play any brass instrument. He is to play the trombone in the new IYA Orchestra.

The Love Songs of BURNS

a 4YA

Broad-

cast



AT 4YA next Tuesday evening, Mr. W. B. McEwan, Librarian at Dunedin Public Library, will give a lecture on "The Love Songs of Burns." Mr. McEwan is a great student of the writings of Scotland's national poet.

What Thomas Moore did for Irish folk-music, Robert Burns had done for Scotland some time previously. He wrote verses of a folk-like character for many of the traditional Scottish airs. With both poets, this was a labour of love, a task which engaged their deepest feelings, and, in the case of Burns, as well as that of Moore, it is by the first lines of their poems that many of the traditional Scottish and Irish airs are now known. Here the similarity ceases, for while Burns frequently took the old words and the idea they contained, recasting both in a truly poetic and much more beautiful form, Moore usually wrote an entirely

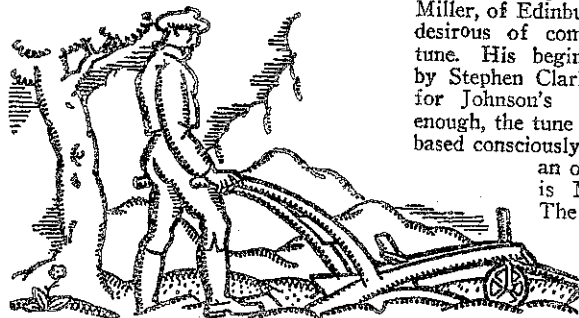
original poem in what he conceived to be the spirit of the melody which he had in mind.

The touching melody of "John Anderson," long preserved by oral tradition, was written down in the year 1578 in Queen Elizabeth's "Virginal Book," which is still preserved. John Anderson was a real personage, and, according to tradition, the town piper of Kelso and a good deal of a joker. The old verses about him are all of a humorous character. But Burns in composing his verses for this melody has idealised and poetized the traditional character of John Anderson, and in so doing has produced a poem which is beautifully fitted to the simple and dignified character of the old melody.

The melody of "Ye Banks and Braes o' Bonnie Doon" is said to have been partly 'faked' on the black keys of the piano by a Mr. James Miller, of Edinburgh, who was greatly desirous of composing a Scottish tune. His beginning was completed by Stephen Clark, arranger of music for Johnson's Museum. Curiously enough, the tune appears to have been based consciously or unconsciously, on an old English air, "Lost is My Quiet Forever."

The words are by Burns.

All these items will be included in this outstanding programme.



Famous Musicians Broadcast

"A SIGN of the times is the large number of famous musicians who are abandoning the concert platform for the broadcasting studio," said Mrs. J. Paykel, formerly Miss Eva Stern, of New York, who arrived in Auckland recently after her marriage in Honolulu to Mr. J. Paykel, of Auckland.

Since her first visit to Auckland last winter, Mrs. Paykel has given a number of pianoforte recitals in New York, and she became one of the most popular musical artists engaged by the National Broadcasting Company of America.

"Damrosch is one of the celebrities who has left the concert platform for broadcasting, and he is now conducting an orchestra for one of the radio companies," said Mrs. Paykel. "Toscha Seidel, the violinist, is another famous musician who can now only be heard over the air. Heifetz, who held out for years against broadcasting, played for the radio last winter. Mischa Elman is also playing for the radio, and the New York Philharmonic Orchestra and all the Metropolitan Opera stars are

broadcasting. These musicians first maintained that people would not go to hear them if they could be heard equally well over the wireless, but I think it stands to reason that the radio introduces them to a much wider public, which, having heard them over the air, will go to see them on the platform."

A.B.C. Radio Service Heavy Maintenance Costs

AUSTRALIAN listeners apparently receive poor value for their money. According to the Melbourne "Herald":

"Australia has a smaller proportion of wireless license revenue devoted to radio programme expenditure than any other country in the world. The British Broadcasting Company spends 78 per cent. of its £1,100,000 a year revenue on programmes alone, compared with the 50 per cent. given to the Australian Broadcasting Company. This comparison, however, is further aggravated by the fact that the A.B.C., from the 50 per cent. of the license fee money it receives, takes 10 per cent. for its profit, pays all the overhead expenses of its nation-wide organisation, all salaries and directors' fees, a big contribution to the Postal Department for lines and mechanics for outside relays, and an enormous sum—about £25,000 a year—for copyright. Therefore, of the £160,000 which the A.B.C. receives from the 332,000 license fees in Australia, there is very little for payment of artists and entertainers at Australia's nine A class stations. Last year the sum was only 25 per cent. of the total license revenue.

"When only 6/- of every 24/- is paid out in programmes, there seems room for reduction somewhere. From the listeners' point of view, the two contributions which could best be reduced are the 9/- taken by the Postal Department and the payments for copyright. The remaining 3/- is paid to Amalgamated Wireless for royalties, and is being used to build up a radio industry which in the future will be of immense value to the station. The Postal Department's contribution, however, is not all being used for the purpose for which it was set aside. The bulk of it is going into consolidated revenue. Approximately 1/- a license is absorbed by the Radio Department's administration expenses, and another 2/- a license to operate the stations. That leaves 6/- a license for construction of relay stations. Only four have been built with the £150,000 collected from this source in the past two years.

"In the country's present condition, and in view of the number of B class stations which have been licensed in country towns and are serving the purpose for which relay stations were intended, this contribution easily could be suspended, permitting a reduction in fees to 18/- a year."

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WELLINGTON

Day and Night Service



"Dirt-Cheap" Receivers

American Market Flooded

THE latest issue of "Radio," the American radio trade magazine, contains some interesting information on the subject of reduced dealers' profits and cheaper radios. It is admitted that while the "dirt-cheap" set is having a serious influence on the radio market and that dealers' profits are reduced to a minimum, it is not agreed that the cheap receiver is doomed, at least, "not while the public dictates its desires to those of its ranks who have set themselves the task of satisfying those desires. The cheap radio is here. And it may become cheaper."

A number of comparisons is then drawn between the radio industry and other what might be termed "domestic" industries. To quote one: "Most people ride around in automobiles that cost six or seven hundred dollars, on terms. . . . Another large class of people spread themselves a bit and pay fifteen hundred or two thousand dollars for the added comfort and class of a larger car. The chosen few buy automobiles with silver hardware ranging in price up to eight thousand dollars. The manufacturers of certain quality cars continue to thrive through the years in spite of price competition that is as tough as any run up against by the manufacturers of expensive radio receivers. . . ."

"People buy according to what they can afford. Due to this depression—surely you have heard it mentioned—we are completely incapacitated when it comes to fixing the blame for the buying trend toward low-priced sets. We say it has been the dirt-cheap receiver that brought it on. Maybe so. Maybe, also, the dirt-cheap receiver was a depression measure and has been responsible for sales that would not otherwise have been made."

"When times return to normal people will buy according to their whims and fancies instead of getting by as cheaply as humanly possible. Those who have learned to appreciate the entertainment and musical values of various radio receivers will stretch themselves to the point of buying the set that will give them reproduction

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

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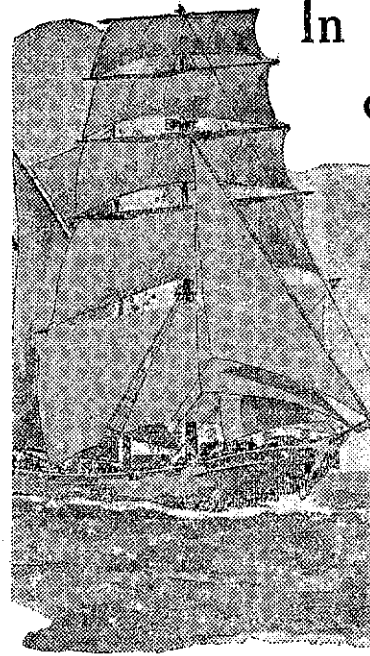
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In the Days of the Tall Ships

On Wednesday evening, September 30, 1YA listeners will be taken aboard one of the old white-winged clippers, and at eight bells sharp will make a voyage down the Thames, past London, and on the open sea.

Under the growling command of that old skipper who fears neither man nor beast nor devil (whom "Lee Fore Brace" has so ably introduced to 1YA listeners) a merry crew will haul the ship out of the London Dock to the lifting hilt of a rollicking sea-shanty. As the ship goes down the river an interesting description will be given by "Lee Fore Brace" of the old familiar headlands to be seen along Thames-

side 30 or 40 years ago—in the days when tall ships covered the Thames with a forest of masts. Once past the dread Goodwin Sands the tug will cast off, and top'sls, t'gan'sls and royals will be mast-headed to the stentorian chorus of the old shanties—"Blow the Man Down," "Rio Grande," "Stormalong," "Lowlands Away," "Sally Brown," and many others. And we shall have some interesting shipmates. Innocent Paddy will be there, and that delightful rascal, Yorkie, will be aboard, as cheeky as ever. Under the command of "Lee Fore Brace" and Bos'n Barnes it should be a delightful and interesting evening, so don't forget to tune in to 1YA at eight bells on September 30.

that will satisfy their craving for things a little better than those that satisfy the herd.

"Those who have furnished themselves with dirt-cheap sets are now developing that taste and discrimination that will make them junk their present music boxes and buy good ones when the optimistic times are here again. Radio contends that the dirt-cheap set has its place. We admit that right now, during the depression, it is taking the places set aside for more expensive receivers. But we feel absolutely certain that once the buying public gets over its big scare, the dirt-cheap job will be locked into the border lines marked off for it, and every radio dealer will have a shelf full of them for those who can't afford a better one. He will feature, however, the fair priced, attractive looking, fine sounding radio receiver he could safely sell his mother-in-law."

Children's Sessions

FROM 2YA.

Monday: One of our radio cousins has written a little play which will be performed before the microphone to-night. Uncle Jeff will also take part, as well as the author, Eileen Fern, and her little pals. Kipling Lady will read some more from "The Jungle Book."

Tuesday: Jumbo again to-night. There is to be a little play called "Hop, Skip and Jump's Adventure with the Saucepan Man." There will be songs, musical instruments, stories, and birthdays.

Wednesday: Aunt Daisy's Session to-night, with her band of Cheerful Chirpers to sing choruses and songs. Aunt Daisy will tell the Radio Family another story about the Wellington Zoo.

Thursday: Uncle George and Big Brother Jack with a party of girls and boys from Mrs. Isobel Halligan's studio. They are presenting a little play with incidental music and nursery rhymes.

Friday: Uncle Jim to-night and the 2YA Children's Chorus will be with him. They have been practising hard some new choruses. Uncle Jim is going to take a trip to Scotland, to the part of that country where Robert Burns was born.

Saturday: Aunt Molly and Uncle Jasper will be the guests of St. Mark's Serenaders. We are to have Nigger Minstrel Songs and a pot pourri of old-time songs.

Unusual Storm Effect

Valves of Set Burst

IT is not often an electric storm is sufficiently intense to burst all the valves in a set, but this was the experience of a Reefton listener recently. Although the aerial was protected with a standard lightning guard the severity of the discharge was not abated. Strangely enough, only the valves were affected.

Following is a letter from the listener in question describing the queer effects of this storm:—

This town was some ten days ago subjected to a severe electrical storm. It may be of some little interest to readers to describe its effects on radio sets. The writer's set in particular seems to have come in for the heaviest part of it.

The aerial is of 7/22 copper 512ft. long, supported by two iron-pipe masts, one of which is on a hill, is 36ft. high and 175ft. above the mean town level; the other mast alongside the house is 50ft. high, stands on a glass bottle, and the stays wires are insulated. From the aerial to the lightning arrester is a No. 8 copper wire, and the same size is used to connect to the ground 3ft. away. Under the ground it is soldered to a heavy iron bar driven deep into the subsoil. The aerial continues to the grid of the first valve and to earth through a 2 m.f. condenser, this latter being used on account of the d.c. eliminator.

On the evening in question the set was being worked from 6 to 6.30, and the music was at times cut out altogether. During this interval frying-pan static of a pronounced type would come in and go out suddenly. The music, when it came, was very clear. The set was not working when the lightning discharge took place, which happened in heavy rain.

The writer was sitting near the set when the valves burst with a sound like a heavy revolver shot. Glass flew to all quarters of the room, and an unpleasant odour arose from the set. Next evening I tested the set and found that the 2 m.f. condenser in the earth lead had not broken down, the arrester was also in working order, as were the transformers, eliminator, accumulator, filters, condensers, and crystal detector. The elements of the first valve were smashed, and they were in a heap at the bottom: the second valve was smashed to pieces, and the elements melted into a lump; the third valve was also smashed and parts of it burned up. I replaced the valves, switched on the set, and it worked as if nothing had happened.

Other listeners report no damage. As regards the house, no windows were cracked, nor any of the fuses of the electric light blown out. One lamp only had the filament broken. My aerial was not damaged.

Houses around me had all their windows cracked and in some cases thrown on the floor and smashed. Wire swings and netting fences were melted, electric light poles were broken off and the mains fused; while in the power-house, even though the contact-breakers came out, the armature was in flames and some of the copper bars on it had pieces burnt out of them and the insulation destroyed.—A. E. Elliston.

Don't be surprised if you hear Spot joining in the choruses.

Comparisons!

COMPARISONS, it is held, are odious, but 2ZW during its children's session on September 9 endeavoured to make one at the expense of 2YA. One of the principals in the pantomime being staged, in speaking of a wireless set, said: "We used to listen to 2YA, but now there is a new station, 2ZW." This was followed by the set being turned on and 2ZW was heard coming on the air. Quite good stuff had the reference to 2YA been omitted. It was a childish act, and of course suited the occasion.—DX1W (Wellington).

Government Control.

THE Government appear to be led by a few traders and the so-called and very insignificant body, the Listeners' League. Could a vote be taken in the following manner?

A coupon be issued with the "Radio Record," and a small charge of, say, 6d., be made by your company to cover the expense of examining the coupons returned by listeners. The voter to have the opportunity of voting for:

(a) Continuance as at present but the proposed chain of relay stations to be erected.

(b) Control as on the lines of the B.B.C., as advocated by the Government.

To avoid any person sending in two votes, it should be required that the name and address, also the license number, be recorded on the coupon. They could then be sorted into numerical order, and any double voting easily traced. I am sure those who are at all seriously interested would not mind paying 6d. or even more to express their opinions. We do not enjoy good reception of the YA stations here in Palmerston North, but then one has to look beyond that and realise that it is not the fault of the R.B.C., who are undoubtedly giving a good service. I hope something can be done to ensure the continuity of the present system and done quickly.—"Taipo" (Palmerston North).

Varsity Debate.

WHEN I turned on the radio to-night my disgust knew no limits to find that there was a debate from 2YA. Now it is all very well to say if you do not like it turn somewhere else, as the static and general conditions to-night are so bad as to prevent one from doing so. Wellington listeners, too, would be in the same box, as it is the 2ZW silent night. It may be all right for the debaters to be afforded a chance to parade their views to an unseen audience who are not able to hit back and tell them how foolish they are, but for the poor old radio enthusiast it is no fun to be deprived of his little evening's entertainment. I must say I would sooner listen to one whole evening of clever advertising than such "by the way does not matter" stuff. If this is all that is learnt at college, well, let us shut them up and save the expense of maintaining them. I cannot imagine what the Broadcasting Company is thinking of to allow themselves to be pressed into putting this kind of thing on the air, especially at the present time when a certain section is seeking excuses to urge that the Government take over.—Broadcasting Company Wellwisher (Wanganui).

A Private Company.

I FEEL certain that we should be better served under a private com-

pany and think with Mr. Bloxham that were we under Government or board control, which to me is one and the same thing, that we should get too many talks. I am quite certain we get quite enough of them now. Your suggested plan of bringing in the listeners as shareholders is the best measure of control. One exception that I take is that the present company wanted the controlling interest in the way of appointing the chairman. I believe it would be best for the board to appoint its own chairman or for the shareholders to do so. Your suggestion was too one-sided.—George S. Philpotts (Carterton).

Acknowledgement of Reports.

IT has for some time been the practice of 2L2AX, Palmerston North, to reply to reports and queries from listen-

ers on Sunday afternoon after the N.Z.A.R.T. official broadcast. Last Sunday (18th) he informed us that he had received a letter (which he read) from the P. and T. Department warning him that periodical calls to listeners constituted broadcasting, which was not allowed on the amateur bands.

This deprives listeners of a valued service. He pays his license fee in order to enjoy the matter put over the air, and I fail to see why those who are keen enough to take the trouble to report should be denied the acknowledgement of their reports because the P. and T. Department makes a show of authority. As it is the duty of the P. and T. to protect the interests of listeners, they should encourage, and not hinder, any feature calculated to be of interest to listeners.



I think it would be an improvement if the R.B.C. included more music of the popular instrumental type, steel guitar, banjo, mandolin, etc., in its programmes. This sort of music is much appreciated, and I notice with pleasure that we are getting a little more of it.

Now for a surprise packet! I have actually caught 2YA's announcer making a mistake. On Wednesday (9/9/31), at 7 p.m., he announced, "Please stand by for the 8 p.m. chimes and the commencement of our international programme." Hi! Hi! Mr. Drummond. —"Third Grid" (Grey-mouth).

1YA International Programme.

IT is just about time some of these records found the scrap-heap. The last record played by this station on Tuesday, 8th, was a disgrace. One record was so badly worn that it repeated itself seven times in one playing. —Straight Flight (Mokai).

Future of Broadcasting.

MAY I add a few comments on the future policy of broadcasting in New Zealand from the point of view of the way-back listener? To fritter away a very large sum of money on a lot of tin-pot low-powered stations will benefit no one but crystal set owners in the immediate vicinity of the relay stations. All listeners in and around the four centres, also all the rest of New Zealand (except close to the relay stations), and all owners of valve sets near the relay stations will get practically no benefit from the scheme.

It would be of far greater use to increase the power of the four YA



This is how Albert Russell and Owen Pritchard, Wellington community songleaders, are conceived by a local schoolboy. These sings are becoming increasingly popular with both listeners and Wellington residents.

stations to sufficient strength to reach all over New Zealand.

The proposed relay stations would not give us any greater choice of programmes and would possibly create interference with other New Zealand or Australian stations.

Might I suggest a postal ballot of your listeners as to whether the majority prefer relay stations or increased power in the existing stations?—L.H.R. (Karioi).

Women Transmitters.

I WISH to correct and amplify a paragraph in the latest issue of the "Radio Record" on women transmitters. Being interested in the subject myself, I recently went through the Amateur Call Book to see how many "ham" stations were owned and operated by women. In addition to the large number in the U.S.A. and the two in England there are six (not two) in New Zealand, four in Australia, one in France, one in the Argentine, four in Poland, two in Canada, and two in Brazil.

The following are the New Zealand stations: ZL2FR, Wellington; ZL3AG, Greymouth; ZL3BT, Christchurch; ZL3DW, Rangiora; ZL4RL, Oamaru; ZL4CL, Dunedin. Also Miss Bell has been one of the operators at ZL4AA for years.

I am writing this because I think that amateur radio is the finest hobby in the world, just as suitable for women as for men, and because I would like to see more girls go in for it.—C. W. Parton (ZL3CP).

Adaptation for a D.C. Eliminator.

SOME time back I inquired re a suitable choke for a D.C. "B" eliminator. I did not go to the trouble of con-

structing a choke, but in its stead placed a bank of 5-230 volts lamps of low wattage in the live side of the supply, in series with the eliminator, this being the negative in my locality. In this bank of lamps I use 2-10 watt and 2-15 watt metal filament type and 1-52 c.p. carbon lamp. Each lamp is in series with the other and each lamp can be cut in or out of circuit to allow for voltage fluctuation. This idea does not affect the operation of the eliminator.—"DX25MC."



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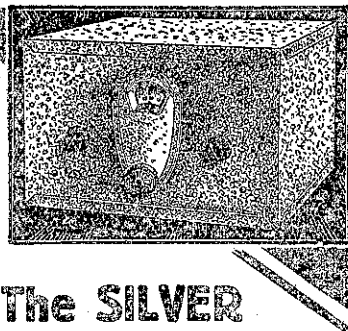
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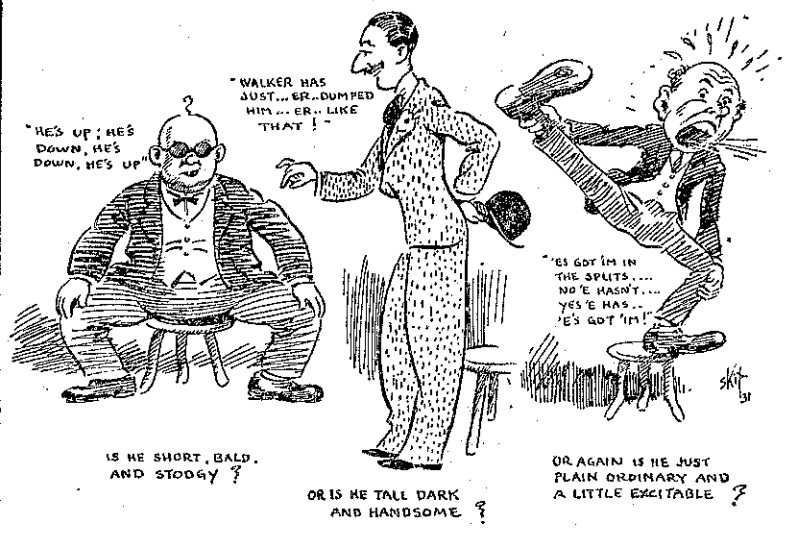
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WHAT DOES THE WRESTLING ANNOUNCER LOOK LIKE?



A Wellington cartoonist's impression of Mr. Gordon Hutter, sports announcer at IYA.

Phones To An A.C. Set

WITH regard to the three methods of fixing headphones to an electric set, as shown in the "Radio Record" recently, "Loco" writes:—

"My set is a six-valve A.C. I desired to relay head-phones to another part of the house. I tried a little experimenting. I tried the third method described, and could get only a loud humming whistle on speaker and phones. I then put two .001 mfd. condensers in series with the 1 mfd. condensers and found I could hear fairly well, but only over a large amount of them.

"Not knowing anything about the set—i.e., as to whether it is 'push-pull,' 'pull-push,' 'push-in,' 'push-out,' etc., I tried the first method as well, but this time I got a loud continuous clicking sound in phones and speaker.

"Now I come to my 'discovery.' Without detailing how I found it, I will proceed to describe it to you.

"A cable containing three insulated wires, red, black and yellow, goes from my set to the transformer and speaker.

"I took a wire from where the yellow covered wire joins at back of transformer and took it to a 1 mfd. condenser, connected one wire of phone to other terminal of condenser and connected other wire from phone to earth (using a different earth connection from that used by set), and found that phones worked splendidly, practically free from objectionable hum; only when speaker was turned up to usual volume the volume was too much on phones on the ears, but I connected a .001 mfd. condenser (C2) in series with the 1 mfd. condenser and found that the volume was better controlled, and the static 'splashes' when listening to a distant station were not so much like a blow on the eardrum with a hammer.

"I have fitted an A.C. snap switch in series with one of the wires from transformer to voice coil, and I can now shut off speaker and sit in another room and listen to clear and 'hum-free' concerts on the phones."

Radio Development in Canada

Federal Control Given

THE dispute between the Federal and Provincial Governments of Canada as to which shall control radio has been advanced a step toward finality, but has not yet been finally determined. Early in July the Supreme Court of Canada issued its judgment to the effect that control belonged to the Federal Government rather than to the Provincial Governments. Against this decision, however, the Province of Quebec is appealing to the Privy Council on its own behalf and that of certain other provinces which disputed the jurisdiction claimed by the Dominion, and pending this final legal adjudication the Federal Government has deferred announcement of its radio policy.

In its decision the Supreme Court held that the Dominion had full jurisdiction over radio on the ground of "convenience amounting to necessity." The Dominion should, it was stated, be allowed a very wide control over transmission and the power to enter into agreements with other nations governing the allotment of wavelengths and the location of stations. The provinces, said the majority of the court, were not in a position to exercise control.

In 1929 a Royal Commission was set up by the then Government to report upon the control of radio. In this report the commission recommended the taking over of all broadcasting equipment by the Federal Government, and the establishment of a chain of high-powered stations operated on a system similar to that of the British Broadcasting Corporation. All direct advertising was to be eliminated, and revenue obtained from a license fee of 3 dollars on receiving sets and a limited amount of indirect advertising by way of sponsored programmes. Strong opposition to this scheme immediately sprang up from the Province of Quebec and one or two other quarters.

As the matter now stands the control of radio rests for the moment in the Department of Marine, which has in force licenses for 64 broadcasting stations at 50 dollars each and something like half a million licenses for receiving sets at 1 dollar each. Two broadcasting plants belong to the Province of Manitoba, three to the Canadian National Railways, and the remainder are privately owned and operated.

Since the Royal Commission was appointed, there have been various changes of Government in Canada, and the attitude of the present Government toward the proposal is not known, and will not be revealed until the Privy Council has given its decision on the vital point of jurisdiction.

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The Outspan Five

Another Success

(To the Editor.)

I AM very well satisfied with the Outspan Five, which I have recently completed. The results are better than I expected.

The first evening I tried it out I logged 14 N.Z., 13 Australian and 6 Americans. 2YA comes in with tremendous volume, and I have difficulty in reducing it sufficiently. At present I have to do so by dimming the filaments of the S.G. valves. In daylight 2YA is at full volume, with the reaction condenser turned out, while I have had 2FC about R4-5 at various hours of the day—8.45 a.m., 12 noon, and 3.30.

I have made the following alterations to your specifications:—

1. English valve bases, instead of U.X., as I have valves with these on hand and have always used this type of base.

2. I found a rheostat for the detector valve absolutely necessary, as the valve I use (PM4DX) will not work with the full voltage, and does best with the 30 ohm rheostat about one-third on, that is, two-thirds of the resistance in circuit.

3. I found that the 75, 80, 75 turns specified were not enough for the .00035 condensers I used, 2YA being the limit of range, so I added 13 turns to each, and now 3AR is the limit.

4. The reaction was poppy, so I removed a few turns from the coil. It is still not smooth, and a few more turns will have to come off. The condenser is a .0002, with 30 turns on the coil.

5. I put the terminals on the end instead of at the back to suit the position I have the set. The aerial and earth are on the left and the battery connections on the right.—J. Burt, Kohukohu.

[We are pleased to learn of your success with the "Outspan"—it is undoubtedly proving a fine set. The poppy reaction can be overcome by a correct balance between the number of reaction turns and detector voltage.—Tec. Ed.]

Simplify DX-ing.

DX CLOCK 9d
DX VERIFICATION FORMS—
1/6 for 2 doz.; 8d. doz. over 6 doz.
Box 1032, Wellington.

SORE THROAT?

Pulmonas
INVALUABLE PASTILLES
for



QUICK RELIEF

Mullard
THE MASTER VALVE

Embodies all improvements
known to Valve Manufacturers.

Advisory Committees Meet

MR. A. B. CHAPPELL, representing the Dickens Fellowship, presided at the meeting of the 1YA Musical and Dramatic Committee held on Friday, September 4. There were present Messrs. V. Trask (Athenian Club), E. D. Robbins (University Students' Association), J. F. Montague (Auckland Comedy Players), F. M. Price ((Aeolian Orchestra), W. Colman (Royal Auckland Choir), H. C. Trim.



DENIS SHEARD.

West Australian tenor. Late tenor of the famous English Humphrey Bishop Co. First noticed and tutored by Paul Althouse during the latter's Australasian tour. A treat is assured true music lovers on September 28. Mr. Sheard will be singing "Che Gelida Manina" from "La Boheme," "Lo, 'Tis the Day," and other vocal gems—sung at OWE, FCL, 4QG, 3LO, 2FC, and leading Australian theatres.

L. C. Barnes, Misses G. Bertram (New Zealand League of Penwomen), Joyce Parker (Auckland Piano Students' Association).

Apologies for absence were received from Messrs. Blair, Plummer, Ellerm, Jensen, Tucker, Lambert, and Graham.

The committee recommended the holding of another spelling bee and geographical competition.

The station manager outlined programme arrangements, these including: September 17, Orphans' Club Orchestra; 23rd, New Zealand League of Penwomen; 24th, Bohemian Orchestra; 30th, "Sea" programme; October 1, Aeolian Orchestra; 7th, "The Arcadians," relayed from Hamilton. On September 21 the Faraday centenary celebrations in London would be re-broadcast. The station manager also reported that a number of new artists had been engaged.

2YA Music and Dramatic.

AT a meeting of the 2YA Musical and Dramatic Committee held on Monday, September 7, there were present Messrs. Anson, Retallick, Bennett, Carr, Jameson, Robb, Dawson, Dr.

Sutherland, Captain Galloway, Messrs. Pritchard, J. Ball and Mrs. Basham. In the absence of Mr. Palliser, Mr. Bennett was voted to the chair.

Dr. Sutherland, representing the W.E.A., reported that as a result of consideration given by the annual conference of the association to the question of a further extension of broadcasting on the education side a committee had been set up to formulate proposals to the Broadcasting Company, covering a series of lecturettes and financial consideration. The company had given the proposals its favourable consideration.

The programme organisers reported on programme arrangements.

During the discussion on programmes some criticism was levelled at the standard of some of the items included in the Sunday evening band concerts which are relayed by 2YA.

Reports were made on the recent deputation to the Hon. J. B. Donald with reference to broadcasting control and on the success of the weekly community singing.

2YA Church Service Committee.

THE Church Service Committee met on Tuesday, September 8, the Rev. C. V. Rooke presiding. Present: Revs. T. R. Richards (Methodist), R. J. Howie (Presbyterian), J. Boulton-Smith (Baptist Church), Pastor W. G. Carpenter (Church of Christ), Mrs. D. Basham, Mr. J. Ball.

An application from the Salvation Army for inclusion on the rota was received and will be considered when the rota for next year is under review.

The suggestion of a listener that a harvest festival service should be broadcast during a children's session was received.

The question of broadcasting control, so far as the position of the churches under the proposed board is concerned, was discussed, and it was decided that the Rev. Rooke and Pastor Carpenter should see Mr. R. A. Wright, M.P., with the view to arranging for a deputation to interview the Hon. J. B. Donald.

2YA Children's Sessions.

PASTOR CARPENTER ("Uncle George") presided over a meeting of the Children's Sessions Advisory Committee held on Tuesday, September 8, there being also present Messrs. G. W. Morgan (Radio Children), J. Crewes (Big Brother Jack), J. Ball, Mesdames Green (Federation of University Women), D. Basham, D. Evans, Dr. Elizabeth Bryson (League of Mothers).

An apology for absence was received from Mr. Greenberg. Reports of official visitors to the sessions were received, and the programme organisers presented their reports. Dr. Bryson and Mr. Greenberg were appointed official visitors for the month.

4YA Musical and Dramatic.

AT a meeting of the 4YA Musical and Dramatic Committee held on Friday, September 4, Mr. H. P. Desmoullins (Dunedin Choral Society) presiding, there were also present Messrs. Max Sherek (Society of Professional Musicians), Lloyd Ross (Workers' Educational Association), A. Cook (Dunedin Burns Club), H. O. McFarlane (Dunedin Orchestral Society), P.

S. Anderson (Dunedin Returned Soldiers' Association Choir), H. Renfree (Anderson's Bay Glee Club), J. Crossley Clitheroe (Training College Choir), J. G. Butler (Royal Dunedin Male Choir), A. F. O'Donoghue.

An apology for absence was received from Mr. Himburg.

The Shakespeare Club advised that Mr. D. E. Dall had been appointed their representative in place of Mr. Osborne, resigned.

The station manager submitted his report on programmes in hand. These were discussed and approved by the committee. Some criticism was levelled at the unrehearsed nature of several items during a recent concert. Some suggestions as to additional artists who might be engaged were made.

The resolution prepared by the sub-committee and forwarded to the Postmaster-General with reference to the control of broadcasting was read and confirmed.

The 3YA and 4YA Musical and Dramatic Advisory Committees have considered the question of control of broadcasting and passed resolutions.

The 4YA resolution reads: "That this committee, composed of delegates and representatives of all the main musical and elocutionary societies in Dunedin, operating at 4YA, Dunedin, as an honorary advisory committee to the Radio Broadcasting Company of New Zealand Limited, after two years' experience in endeavouring to assist the station in the improvement of its broadcasting programmes, is of opinion that a radical change or reconstruction of the company along different lines is not warranted at the present time. The committee feels, after many years' experience of successful concert management, that they can speak with confidence of the quality and variety of the programmes submitted to listeners. The committee also feels that the pioneering work accomplished by the Broadcasting Company, with the experience thereby gained and the willingness of the company at all times to adopt any suggestions put forward by our committee for the improvement of programmes and the extension of the field of broadcasting within the limits of existing regulations, have now placed the company in a position in which it is not unreasonable to expect that the YA stations will achieve even better results in the future than in the past. We believe that in a service such as broadcasting, in which it must practically be impossible to cater for all tastes, the YA stations at the present time are giving the majority satisfaction, as is evidenced by the lack of serious complaints from any appreciable number of listeners."

A further resolution by the 3YA Committee recorded appreciation of the efficient service built up by the company, which had proved elastic and had catered for the tastes of all sections of the community.

The 3YA Musical and Dramatic Committee resolved: "That this committee, which is representative of the majority of musical and dramatic societies in Christchurch, is of the opinion that it is not desirable that the present control of broadcasting should be changed."

AN English listener has just incorporated a penny-in-the-slot fitting to his radio receiver, thus ensuring that when new batteries are required he has the necessary cash available. Instead of using an off-on switch, it is necessary to drop a penny in the slot to set the receiver in operation.

News and Views of the D.X. Club

Answers to Correspondents

DX9A (Mangere).—You are obviously picking up a relay of 2FC. KFT is located at Los Angeles, not Mexico.

DX23A (Cambridge).—DX stickers have been ordered, and delivery is expected within a week.

"Audio" (Blenheim).—See conditions governing both DX Cups, in the July issue of the "Radio Log." When stations are referred to as "just below" other stations, the wavelength is, or should be, meant. However, the fact that the tuning dial of many commercial sets are marked in kilocycles, confusion results, for "just below" in kilocycles is "just above" in metres. It would be a good idea if correspondents did not use this method of locating stations.—Yes, there are quite a number of members of the DX Club in Blenheim. The times given for the Australian stations in the second issue of the "Log" are corrected for N.Z. time. Your 300-foot aerial will rather broaden tuning, but as long as you mention that fact in your report, it will be O.K.

J.G.R. (Blenheim).—We have decided that "daylight reception" is to be interpreted as being between the hours of 6 a.m. and 6 p.m. all the year round.

"British Every Time" (Kaikoura).—Your log, for the type of set you are using, is easily the best we have seen. Congratulations.

letters will appear in this month's "Radio Log."

G.F. (Ohura). The "Radio Timetable" was printed on both sides for the sole object of giving purchasers full value for their money. DX clocks are sold unmounted for the same purpose. Incidentally, our office boy did not take at all kindly to your suggestion that he should

ing KGA 20, stranger 24, KGER 27. He was asking for reports from all DX clubs. Items heard were:—Band item, "Stars and Stripes for Ever"; dance number, "The Girl." The "New York News" was mentioned several times. All that was heard of the call was "W—H." Strength R8. He signed off at 6.11 p.m.—DX46A (Cambridge).

Station heard at 12.50 a.m. on September 13 on 1245 k.c. approx. (241m.), broadcasting a dance programme. Announcer was distinctly American. Also, at 1.30 a.m., a Japanese or Chinese station, on 850 k.c., broadcasting the usual weird music. I often hear an American on 1280 k.c. approx. (234m.). On the 13th it was relaying music till 7.30 p.m. from the Hotel —, Los Angeles. Announcer mentioned "mountain time" when closing.—"Kennedy" (Wellington).

On September 14, at 12.35 a.m., station operating on 2AY, Albany's frequency, heterodyned slightly by 3RU, Balwyn, on a shade higher frequency, and a Morse station directly behind. Some of the items were "The King's Horses," "Eleven More Months," and "The Stein Song." Strength was quite good, but QRN spoilt the call every time, and, to make matters worse, a lady with a weak voice sometimes announced. I heard as much as "Experimental Station VK," and some of the balance resembled "J.K." He closed down at 1.30 a.m. Does anyone know the frequencies of 3GK and 3HA? It may have been one of these. If I am not very much mistaken I have heard 1ZQ operating a couple of times lately. I don't think there is any mistaking that announcer's voice.—B.W. ((Stratford)).

Two Americans heard on September 10 one on 1140 k.c. (263m.) broadcasting organ music. The only item recognised was "Songs My Mother Taught Me." The other was on 1360 k.c. (220m.), and was broadcasting a boxing match. Both were very weak, and consistent fading, combined with static, prevented any announcement being heard.—DX15MC (Woodend). [Please give times heard.—Ed.]

Station heard from 10.30 to 12 p.m. on September 7 on 440m. (680 k.c.), relaying 2FC at R9, equal to 2BL in strength. Another station on 1080 k.c. (278m.) heard from 11.25 to 11.30 p.m. on August 30. He announced "Station — relaying the National station. Miss Gladys Moncrieff will now sing —." He signed off at 11.30 p.m. N.Z.S.T. with no further call. Strength R7. Also an American heard testing on August 30 between 7.30 and 8 p.m. on 770 k.c. (390 m.). Items heard included "The Volga Boat Song," at 7.40 p.m. on August 30.—DX42W (Lower Hutt).

Foreign station heard 1½ deg. above 3AR. Announcer spoke in a foreign language resembling Japanese, and every now and again he would say "1931" in broken English. Has any DX'er picked up KHQ, Washington, on the same frequency as the above station?—DX9A (Mangere).

Cuba station heard between 2MO and 3KZ on September 13 at 10.30 p.m. I heard a call in broken English which sounded like "This is CM or H, Havana." He then played a foxtrof, during which he gradually faded out. Although I wait-

Are YOU a Member of the DX Club?

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

M.G. (Chch).—With a good aerial and earth you should succeed in picking up the main Australians without difficulty.

"Digger" (Hamilton).—You have done excellently to compile the log you have in three months. Keep going.

J.G. (Tapakanui) and others.—Your

mount them, and he threatened immediate retirement should we ask him to do so.

"Monotrad" (Christchurch). We are pleased you brought up the question of unpublished letters containing replies to queries appearing in the "Identification Wanted" column. Often a number of correspondents write in identifying the same stations. Of course we cannot duplicate these, and only one letter appears. Unfortunately space reasons preclude any acknowledgment of the other letters, but they are none the less appreciated. We trust you can see our difficulty in this matter.

Addresses & Addresses Wanted

A.H. (Tirau).—2WL, Wollongong Broadcasting Co., Wollongong, N.S.W.

Identification Wanted

Station just above 3LO and just under 2BL, heard broadcasting a church service at 3.30 a.m. on September 7. Closed down at 4.10 a.m. Also a station between 2ZP and 2BL. Speech was foreign. At 2.5 a.m. orchestral number with tenor solo was heard. At 2.15 a.m. a talk was heard, followed by a violin solo with piano accompaniment at 2.25 a.m. This was followed by a further talk, and at 2.35 a.m. a further violin solo with pianoforte accompaniment. After an orchestral selection at 2.40 a.m. I heard an announcement in English, "We are now going to —."—A.E.J. (Levin).

Station heard at 6.30 p.m. on September 12 on 248m. approx. (1210 k.c.) with call: "—I, British Columbia." A concert was in progress, and clapping could be heard. A lady called the "Venetian Nightingale," sang two numbers, and then another station came on the air and blotted the transmission out. Announcer had a slight American accent. What Americans operate on 206m. (1450 k.c.) and 203m. (1460 k.c.), and are hard to separate?—H.F.A. (Masterton).

Station on about 1420 k.c. (211m) heard at 5.45 p.m. on Sept. 6. Dial read-

AMERICAN REPLICAS

FOR American-type receivers there is a series of Philips Valves which can be used to give improved reception.

Don't use valves with one pin in the grave. If they are more than twelve months old a new lot will make all the difference between good and inferior radio.

W86R.

PHILIPS VALVES

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

ed for 20 minutes I could not locate him again.—DX1HB (Waipukurau).

Station heard at 10.50 p.m. on Sept. 14 on Auckland's frequency. Announcement was followed by a girl playing some stringed instrument. He then gave call-sign, which I could not get for static, followed by a song with band accompaniment, "Nobody's Darling." Transmission then faded right out.—"Oscar" (Christchurch).

[Japanese call-signs can usually be picked up from 12.15 a.m. onward, when these stations close down.—Ed.]

On September 7 a station was heard from 1 a.m. on approx. 825 k.c. (363 m.), two degrees above 3LO. Music sounded like piano with voices chanting. Also a station heard from 1.15 a.m. on approx. 840 k.c. (357 m.), three degrees below HSPI, Bangkok. A man spoke for some time and was followed by what sounded like native music from flutes or pipes.—DX2SW (Wellington).

Station on approx. 244 m. (1230 k.c.), between 12M, 248 m. (1210 k.c.), and 3NC, 241 m. (1240 k.c.), heard from 8-8 a.m. in the early morning. An orchestra was playing most of the time, with occasional speech in a foreign language. During the whole time I did not hear the station call. At 5.58 a.m. there began what I mistook for a clock striking, but it was a cuckoo call (60 calls took exactly a minute), and then the announcer started talking again. I have also heard other stations in the early morning on 516 m. (580 k.c.) and approx. 540 m. (555 k.c.).—"Digger" (Hamilton).

Stations Identified

"Hydro" (H.B.): KTAB, San Francisco, on 560 k.c. (535 m.). "Hopeful" (Christchurch): KGW, Portland, Oregon, on 620 k.c. (484 m.). "Big Ben" (Auckland): Racing results from 6WF, Perth, 690 k.c. (434 m.), and boxing from KZRM, Manila, on 618.5 k.c. (484 metres).—DX1HB (Waipukurau).

DX9A (Mangere): KZRM, Manila, on 618.5 k.c. (484 m.).

DX Topics

A Good Night for Reception.

SEPTEMBER 13 was a very good night for American stations. Nine were logged at R7, and several others at strengths below this. KSL was broadcasting a Spanish programme, including Spanish songs and dances.—H.F.A. (Masterton.)

Television in America.

I HAVE just received a verification from KOA, Denver, Colorado. They sent a large brochure with views and information about KOA, and also a copy of "What's on the Air," a monthly publication giving all the chain station programmes throughout America. A late complete list of all American stations, including those operating in Canada, Cuba, Mexico, and Haiti, is also included. The station manager remarked that he was always glad to hear from New Zealand, and that in the last mail he received 17 reports from N.Z. DX'ers. There are now 19 television stations in America actually on regular schedule. KOA also advises that the Federal Radio Commission are at present considering allotting them 50 k.w. power.—DX23A (Cambridge.)

DX Notes.

RECENT loggings include KEX, Portland on 254m. (1180k.c.), KHJ, Los Angeles, on 333m. (900k.c.); KVOO, Tulsa, Oklahoma, on 263m. (1140 k.c.); and KGO on 379m. (790k.c.). I picked up WOAI, San Antonio, Texas, on the 14th, at about 4.55 p.m., just as he was signing off. I have not heard him since. At present my aerial consists of 63 feet

of stranded wire slung between two poles, each 33 feet high, but I am contemplating erecting an aerial 300 feet long, slung between a tree at a height of 120 feet, and a pole 33 feet high. Do you think this will broaden tuning to any great extent?—DX54A (Cambridge.)

[Such an aerial will certainly broaden tuning, but as you are fortunately fairly distant from any powerful station, this will probably have no detrimental effect.

American Stations

FOLLOWING is a list of American stations, showing relative strengths of reception, as received from 5.45 p.m. to 7.45 p.m. on September 13. "Logan Park" (Dunedin).—

KMOX, St. Louis	9
KTM, Los Angeles	9
WTAM, Cleveland	8
WENR, Chicago	8
WCCO, Minneapolis	8
KFOX, Long Beach, Calif.	7
WBBM, Chicago	7
WLS, Chicago	7
KNX, Hollywood	7
KOA, Denver	6
KFI, Los Angeles	6
KGO, Oakland	6
KRLD, Dallas, Texas	5
WFAA, Dallas, Texas	5
WLW, Cincinnati	5
KFWB, Hollywood	5

If it did, a wavetramp would be quite a simple solution to the problem.—Ed.]

Has 2XN Closed Down?

I HAVE not seen 2XN, Lismore, mentioned recently, nor have I heard him. Is he off the air now?—"Meppo" (Granity).

The Moon's Influence on Reception.

RE the moon's influence on reception mentioned by DX1T: I have always looked forward to a full moon because it is then that reception, for me at least, is at its best. However, the last full moon, on the 28th, did not improve matters for that night bad weather conditions prevailed. WBOQ and WABC, New York City, have been testing lately, and at 7.15 p.m., when 2BL closes down for half-an-hour, they come through at R7.—P.K.B. (Oamaru).

The Echo Equipped with Radio.

DX-ERS will be interested to know the scow Echo, which trades between Wellington and Blenheim, is now fitted with a transmitter. Call is ZMJD, output 40 watts, wavelength 198 m. (1510 k.c.). Daylight range, 100 miles. This vessel is owned by Messrs. Eckford and Company.—DX24HB (Waipawa).

A New Relay Station.

ARE DX-ers afraid to wear their badges? So far I have seen only one other besides my own in Dunedin. For the information of other members my badge attracts much attention, from both those interested in radio and those who are not. Several who are interested have stated their intention of joining the club, so DX-ers, get busy. Wear your badges and let the world know that the DX Club is not merely a name. "The Voice of Radio Service," station 4ZL, Dunedin, is back again on the air, on 1220 kc. (246 m.). He has been testing several nights after the local B stations have signed off, coming on even as late as 1 a.m. According to a local paper there is a new relay station under process of erection in South Australia with the call 5CB, Crystal Brook. It will be on the air probably by the end of the month. The only information I have about this station is that its masts are 200 feet high, while the station is situated 650 feet

above sea-level. Does anyone know its frequency?—G. B. Boy (Dunedin).

[An article incorporating the clipping you enclose, appears elsewhere.—Ed.]

Frequencies of Mexican Stations.

OPINION seems to be divided as to the frequencies of the Mexican stations. There are 32 stations operating in Mexico, and 14 of these are in Mexico City. The following are some of the more powerful ones:—

Location.	Power.	Kc.	Metres.
XEB, Mexico City	1 kw.	900	333
XEG, Mexico City	2 kw.	1030	291
XEW, Mexico City	5 kw.	780	384
XED, Reynosa	10 kw.	960	312
XEN	1 kw.	710	422
XFI	1 kw.	820	366
XEQ, Juarez	1 kw.	750	400

The 910 kc. (330 m.) channel is a clear Canadian channel.—DX3HB (Hastings).

DX Pads Wanted.

P.K.B. (Oamaru).—Schedule of 3SH according to recent verification is: Week days, 7.30-10 p.m., and Sundays 12.15-2.15, 4.15-6, 7.30-10 p.m. (N.Z. 1½ hours later). Operates on 1080 kilos. (278 metres). Power 50 watts. Crystal controlled. I think DX 15W (Shannon's) suggestion of a pad with DX badge is a good one. I find that in writing to foreigners the ordinary DX paper does not give enough space for the details that I like to give. Re DX37W's suggestion to use the other side of an ordinary DX sheet. This would give enough space, but the general look of the letter is then not very presentable. Would it be possible to publish in the "Radio Log" a map of Australia showing the time in different parts similar to the one of U.S.A.? I am sure it would be of benefit to DXers.—"Wainui" (Gisborne).

[Yes, such a map will appear in next month's "Log".—Ed.]

XEW on Shortwave.

STATION XEW, Mexico City, operating on about 49.6 metres, was heard on the 6th with guitar, vocal and dance numbers, Volume R8-9 from 6.30 p.m. He signed off at 7.2 p.m. Re RV15, Kharbarovsk, this station's wavelength has not been altered, as stated in several recent reports. He is still on 70.1 metres, and may be heard at R9 every night.—DX25W (Wellington).

4ZW's Schedule.

DX37W: Following are particulars given on 4ZW's card:—Schedule, daily, 7 a.m., Sunrise Programme, 8 a.m., Stewart Warner hour, 9 a.m., Brunswick hour, 1 p.m. Panachord hour, 2 p.m., Stewart Warner hour, Also 11 p.m. to 1 a.m., Midnight hour. This is an "all request" programme. Frequency 1080 k.c. Address, Radio Sales and Exchanges, Ltd., Excelsior Hotel Corner, Dunedin. Power is not given, but lists state it to be 50 watts.—DX24HB (Waipawa).

Exchanging Views.

DURING the past few weeks I have noted with interest the views of members on the subject of getting together and exchanging notes. DX1OT's idea is a good one, I think, and would make DX-ing very interesting. Also a little local competition would make the cup log next year a record one. I heard a station recently which gave a call sounding like "3FH, Swan Hill." I heard it very distinctly and wrote for verification, but I notice that DX22OC in a recent issue gave the station as 3SH. Is this correct?—DX53OC (Kuwrow).

[Correct call is "3SH." Re private logging competitions among members. In this month's "Radio Log" and in future numbers we are devoting a corner to an Address Exchange. Members desiring to correspond with others are asked to notify us to this effect, and their names and addresses will be published.—Ed.]

Notes on the N.Z. "Bs."

A RECENT verification from 2ZE, Eketahuna, states that he is using a cage aerial and an M.O.P.A. transmitter. Schedule is:—Sundays, 4.30-6 p.m. No mention is made of frequency or power. New loggings include: 2XL, 4MK, JOOK and JOPK. 4ZL, Dunedin, has been heard testing at excellent strength on Sunday evenings. 2ZD, Masterton, has been coming in at splendid strength with its morning sessions. A recent verification states that power is still only 2½ watts. What is the power of 2ZL now? He has been coming in with almost local strength and on his right frequency during the past fortnight. In the latest "Radio Log" the power of W8XAR is given as 60 k.w. I understand from latest American information that W8XAR is using 400 k.w.

New Zealand Listeners!

Do you listen to the

Australian Stations?

If so, you will be interested in the arrangements now being made to provide you with accurate advance programmes of 2FC, 2BL, 3LO and 3AR.

IN each issue of the "Wireless Weekly" as from September 4 (which is available in New Zealand on Thursday, September 10), there will be a special section containing the complete evening programmes for these stations from Friday, September 11, to Thursday, September 17, inclusive; and so on. You will thus be able to secure a full week's accurate advance programmes of the Australian stations from which to choose your items.

By buying "Wireless Weekly" thenceforth you will avoid missing the best features of Australian broadcasting, the symphony concerts, the operatic programmes, the talks of famous visitors and others.

REMEMBER—

On and From September 4.

"WIRELESS WEEKLY"

Makes available to you the programmes of the main Australian Stations.

in his tests from 1-6 a.m. G.S.T.—DX42W (Lower Hutt).

[Power given in station lists is that used on regular schedule broadcasts. According to latest information from the P. and T. Department, 2ZL's power is 20 watts.—Ed.]

DX Competition Rules

Some Interesting Points

DX680C writes stating that the stations allowed for the competition should be collected during the one period only, as the old hands have a decided advantage over the newer ones. We must say that we cannot agree with this. In the first place the cost to dxers would be prohibitive. If they had to send away for verifications each period it would run up a tremendous postage bill. Furthermore, it would take a lot of time writing to the same station every six months. Incidentally, wouldn't we be popular with the stations? If we barred stations that had been entered, it would hardly be fair to the man who has a good log and who gets somewhere near the top in one competition and then is debarred from entering those stations again. We think that the rules as we have them now are both the simplest and the fairest. However, we see our correspondent's point. Many dxers, fairly new to the game, have within a very short time collected an excellent log, and it is only a matter of a year or eighteen months before they are in the running for the cup. Mr. Morley Staff-

Dxers! The September "Radio Log" is Out

THE September "Log" is full of matter that will be of interest to dxers. This issue has been enlarged and is particularly well illustrated with both diagrams and pictures. There is an interesting account of the new German wonder station at Muhlacker, which has recently been heard by Mr. Morley Stafford, of Gisborne. There are several pages of lively letters from correspondents, and these are crammed with information of vital interest to all dxers. There are revised schedules for Australian "B" class stations and notes concerning new stations which are expected on the air shortly. The list of amateur Q.R.A.'s is completed, together with amendments to the portion already published. There also appears a full list of the abbreviations used in radio parlance, together with the "Q" signals. Particularly now that the reception of European stations is improving, dxers will find the full-page radio map of Europe of great interest. It gives the locality of all the main stations and the number of miles distant they are from London, and we have explained how the dxer can determine how far he is from New Zealand. There is an interesting map of Japan, showing the location of all the Japanese stations, together with a complete official list of these.

The price of the "Log" is 6d. per copy, or 7d. posted, and is obtainable from all booksellers and dealers. Experience over the last two months has shown that there is a great demand for the "Log," and it would be advisable to secure your copy as early as possible.

ford, last period winner, has been dxing for only a very short period.

Another correspondent, F. C. Barnett, sent rules are fair for the following reasons:—

1. The Australian stations can be received fairly easily in daylight on the West Coast of both Islands. The average East Coast listener in most of the large towns has some difficulty even in logging the "A" stations in daylight.

A.: This does not altogether fit in with the results of the last two DX competitions. In the first case a listener on the West Coast won the Cup, and the next time one on the East Coast came first. Both winners had about the same number of stations received in daylight.

2. That a station once verified should count, although it changes its frequency; providing such station is still on the air, as the present and future changing of frequencies will give dxers much writing to do.

A.: There is something in this objection. We would like to hear from other dxers on the subject. We may possibly amend the rules, for it would certainly save complications.

3. I do not see any good reasons why all stations, New Zealand, and others, should not count for the competition.

A.: We bar the New Zealand and main Australian stations because some people use small regenerative sets, and if they have any trouble in working these stations they will cause interference to those with bigger sets.

Trade Jottings

Osram Valves

ONLY a short while ago a new range of Osram 2.5 volt replacement valves was introduced by the British General Electric Company to the New Zealand market. The principal valve of the range is the MY227, a replica of the standard 227, for it has the regular characteristics. Particularly careful attention has been given to the construction of this valve. The particular object in mind is to eliminate microphonic

tion section, a wave-trap, a two-valve set, and a three-valve a.c. short-wave set are described. The call section contains a good list of all stations likely to be heard by New Zealand listeners. The amateur transmitting section contains some really "good dope," and should be much appreciated by amateur and enthusiastic listeners. The book sells for 1/6, and is obtainable at most book-sellers.

An Interesting Valve

American Pentode

ONE of the features of American radio this season is the development of the output pentode. A similar valve was developed in Continental three years. Briefly, the pentode is an output valve with an extra grid like the screen-grid valve, and in addition a third grid attached to the filament. It then contains five elements, the three normal ones, and the two extra elements in the form of a grid. The addition of these grids results in the valves having a high amplification factor and being able to deliver a big power output. The a.c. resistance of the pentode is many times higher than that of an ordinary power valve and the result that a very brilliant and pleasing tone can be obtained. Furthermore, owing to the unusual amplification, this valve can eliminate an audio stage. The new American 247 type of valve delivers 2½ watts undistorted power output with 11.7 volts a.c. input. This compares with 1.6 watts output and 34.5 volts input with the ordinary 245 power valve. The American type valve uses the UY socket whereas the English and Continental use the ordinary UX socket with an extra terminal on the side. This extra terminal is connected to a high B+ voltage. The American valves operate on 2.5 volts, whereas the English and Continental employ 2, 4, and 6 volts.

The new pentode is almost four times as sensitive as the 245 power valve, a property of no small economic importance when considering output, detector overload and amplifications.

The Continental manufacturers make available a series of pentodes varying not only in the filament voltage, but also with the plate, there being available pentodes that will take from 150 volts to 550 on the plates. It is interesting to note that a Continental pentode with characteristics very similar to the new American valve has been available for some considerable time.

noises, and in achieving this a special band of double mica bonding top and bottom is incorporated. The second of the series, the MY224, has been similarly very carefully constructed, and is, indeed, a good valve. The 245 and 280 are both exact replicas of the American type valve, and are giving excellent service.

Commenting on the 280 valve one set manufacturer stated: "An MX280 was operating in the standard set, when a blocking condenser broke down. The rectifying valve became quite hot. It stood this for several minutes, and when the set was repaired again took its place in the socket. To our surprise it performed equally well as a new one tried immediately afterwards."

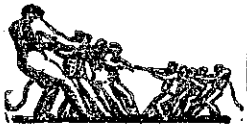
The Osram Manufacturing Company intend to follow up the American series by the 551 variable-mu and the 235 variable-mu, and also the 247 pentodes. It is hoped that these new valves will be shortly available on the New Zealand market.

Book Review

Scott's Radio Handbook

THIS useful little radio manual of 80 pages contains very much of interest to the home constructor and amateur transmitter. In the home construc-

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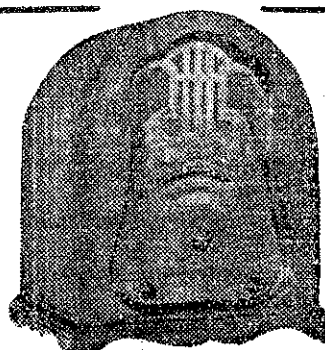
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QUESTIONS: ANSWERS

FRANK KEE



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

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

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

STEP-UP (Greymouth): We regret that your query for coil specifications for all the amateur bands is quite out of the province of Questions and Answers. It would take us a considerable time to work out all the details you want. Full particulars were published and all bands were given when the article was published. Beyond this we cannot help you.

2. I have built the "Kestrel Three," but have omitted series condensers for altering the wave-band. Do I make any other alterations so as to use the set primarily for shortwave?

A.: Not if they are that type of alteration, for the series condenser in the aerial was put in because it was really necessary. If you use a separate primary you are losing strength. If you couple it directly in, not only would selectivity be poor, but you would be contravening the P. and T. Department's regulations. Did you really think we put that series condenser in for fun? If you want to make the set primarily shortwave use .0001 tuning condensers with a special shortwave choke.

3. I intend to erect a half-wave Zeppelin antenna. I have a 60-foot pole and about 110-foot space. Could you give me the particulars for erecting one, with regards to height, length, feeds, etc.?

A.: Height should be about 40 feet. Use eight wires, spaced evenly on insulating hoops. Height for 80-metre band about 30 feet.

FACE (Dunedin): I enclose specifications for a power transformer for transmitting purposes. Are they correct? The core is 1 3/8-in. square, winding length 3in.

CORRESPONDENTS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Limit three questions, unless letter is accompanied by 1/- fee.

Name of set

Number of valves

Name

Address

.....

.....

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

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

Solving trouble, as distinct 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.

I am reckoning on approximately 3.9 turns per volt.

A.: No, your specifications are not correct. You must reckon, for your transformer, 4.2 turns per volt. This works out 1000 turns for the primary and 1080 turns for the secondary on either side of the centre tap. You could use 24 enamelled wire for the primary and 28 gauge for the secondary. Your transformer will deliver about 120 watts.

A.T.C. (Wellington): Would you give me valve base coil particulars for the "Round the World Shortwave Three"?
A.: Those given in table 4 in the list of specifications published on April 2 would just about suit your requirements.

I HAVE a pair of headphones in which the magnetism has apparently been destroyed by knocks. Is there any means of re-magnetising them?

A.: No; remagnetisation of phones is a difficult task and one which should be left to an expert. Even then it is not altogether satisfactory.

QUINX (Picton): Do you think I am using the most suitable valves for my American set?

A.: We think you would be better to change FM6 for RCA221. FM6 could be used in the last stage in the place of 112A, but there would be little or no improvement. It would, however, provide an extra power valve should it be needed. It is possible that 221 would be better than the valve you are now using in number one socket.

2. When I am listening to stations on the higher frequencies, a high-pitched, powerful rushing, whistling noise results, which ceases abruptly if I turn the tuning-dial round to beyond 32 on the scale.

A.: This is due to your set not being neutralised, and if you do not know how to go about re-neutralising it, it would not be a bad plan to get someone to neutralise it for you. Quite possibly the use of the valves we have suggested in the first stages would clear up the trouble, but we really think it will have to be re-neutralised. It is only a short and inexpensive job.

H.E. (Greymouth): How can I make my set more selective? It is a four-valve regenerative, separate primary for broadcast work.

A.: Without reducing your aerial or introducing other losses, it is almost impossible to make the set more selective. You could do so by adding another tuned stage, that is, using a coil of, say, 78 turns on a 2in. former, 26 d.s.c. wire, tuned by a .00035 condenser. Connect the aerial a third of the way down from one end, and take the lower end to earth. Connect the top end to the present aerial terminal of your set. Connect the earth also to the earth terminal of your set. This will make another tuning dial, but it will sharpen selectivity. There will be slight losses.

2. Would a midjet condenser in the aerial lead give improved selectivity?

A.: Yes, but there would be a loss in signal strength.

3. If an additional stage could be added would it need to be shielded?

A.: Not unless it were screen-grid. An extra stage would be quite possible, but there is no need to use a valve if you use the tuner we have described.

SUPER-HET (Christchurch): I wish to build a battery super-heterodyne adapter, using 615 and 609. Would these valves be suitable?

A.: Yes, they will be quite suitable. Use 615 in the oscillator and 609 as detector. A circuit for a battery adapter was published in the "Radio Record" a few weeks ago. It will be republished in the "Questions and Answers" booklet, which is now on the way.

2. I have a home-built two-valve short wave set, with valve base coils and two variable condensers, one with 7 plates and the other with 11. Is it possible to use these?

A.: Quite possible. The first condenser is a .0001, and the second a .00015. The latter can be used in the super-het. circuit.

EGMONT (Midhurst): Commencing at the top of the dial, volume control can be used full open, but as the dial is rotated the set breaks into oscillation, and

when volume is turned back, it plops badly.

A.: This points to a defect in the r.f. circuit, probably a broken-down by-pass condenser. Possibly a condenser across one of the r.f. biasing resistances.

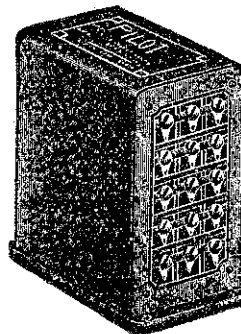
2. When the set is working on a station, reception is quite good, but it is accompanied by a slight hum, and when volume is turned back the hum disappears with a plop.

A.: This sometimes happens and is due not infrequently to a defective valve. However, it is undoubtedly coming from the same source from which the oscillation is arising.

3. The condition exists right down the dial, except that the lower the position on

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the dial the lower the volume control has to be turned.

A.: There appears to be trouble with regeneration. Was it like this always? If so, communicate with the agents who sold you the set, because undoubtedly there is something wrong with it. You say you contacted a serviceman who did nothing for you but charged you £4. We are very sorry to hear this, and wish we could do more for you, but when a serviceman is on the job and cannot help you, we cannot do a great deal by correspondence. Ask him to check up the by-pass condensers in the r.f. stages.

KESTREL III (Metucka): I have recently completed building the "Kestrel Three," but have had trouble with the tuning on some wavelengths. Could you give me full particulars for the coils?

A.: Particulars for the coils were published in a panel with the "Kestrel Three."

2. Will a 3-1 transformer do in place of a 3-2 or 4-1?—Yes.

3. Why are the switches used across the .0001 mfd. condensers?

A.: The switches across the .0001 condensers are used to cut them in and out of the circuit. When the condenser is in the circuit the effective tuning range of the condenser is limited; in other words, its tuning condenser capacity is reduced to about .0001, which is a suitable value for shortwave. When the condenser is cut out of the circuit the condenser is what it was originally intended to be—i.e., .00035, and is ready for broadcast work.

G.C. (Invercargill): Would a dual wavetrap be suitable for eliminating one of the local "B" stations, which blocks out 2NC, Newcastle?

A.: It would be quite satisfactory for absorbing two stations, but would be no better than an ordinary wavetrap for absorbing one. If you do not have success with one particular wavetrap, try the one that was described in the 1931 "Radio Guide," using two formodensers instead of the one formodensers and one fixed con-

denser. This wavetrap has been the most efficient of all we have described.

T.C. (Te Kuiti): I have an all-electric six-valve radio set with a table model speaker. Can I have it converted into a dynamic, as we find reception very poor during the day, although at night it is almost perfect, with plenty of volume?

A.: The speaker has practically no influence over the set performance as far as bringing in stations during the daytime is concerned. You could use a dynamic speaker, preferably one of the inductor dynamics, but it would not improve the strength of your set one iota. It would merely better the tone.

ECONOMIC THREE (Gisborne): Can two .00025 variable condensers be used for the "Kestrel Three"? If so, what would be the numbers of turns on the r.f. and detector coils?

A.: .00025 variable condensers are quite suitable for the "Kestrel Three." You need not alter the number of turns on the detector coils, but you would have to increase the number of turns on the broadcast coils to sec 100 (30 dsc), tickler 40, primary 35, the wire for the two latter coils being 34-35 dsc.

2. Will you supply a few details of the r.f. choke used in the "Record" model of the "Kestrel Three"?

A.: The choke used in that set was an ordinary commercial one.

C.W.S. (Nelson): Would the circuit I enclose be quite suitable for short-wave?

A.: The circuit is quite an orthodox one, and should be quite satisfactory for short-wave work. However, if you want a really satisfactory short-wave set, try the advance a.c. short-wave receiver described in the "Radio Guide." It will give good results. However, the a.c. version of the "Kestrel Three," which you have shown, will be quite satisfactory. Your resistances appear to be quite correct.

2. What is the filament current and amplification factor of C324?

A.: The valve is exactly the same as RCA-224, full particulars of which have been published in the "Radio Guide."

D.R. (P.N.): In my commercially-made receiver, which is about two years old, I am using 223 valves in all stages except the detector and last stage. Can they be improved upon?

A.: No. In an all-electric set you do not have the latitude you have in an ordinary battery set. We should advise you to use the same type of valves throughout, and select a well-known make.

S625 (Invercargill): I intend building the "Radiogram Five" battery model, described in the 1931 "Guide," but before doing so I would like to know the following:—

1. Is S625 suitable for the r.f. stages?

—Yes.

2. Should it be shielded in the same manner as an ordinary upright valve?

A.: No, it must be mounted horizontally with a vertical shield.

3. I have an r.f. choke, the only particulars of which I have is the inductance. This is about 1.5 millihenries. Is this suitable for the choke in the plate circuit of the detector?

A.: Yes, the inductance is rather low, but still it should be fairly satisfactory.

A.I.J. (Ongarue): I have built a "B" battery from torch cells, but have not had complete success, as I cannot get any voltage.

A.: A special type of cell must be used in this battery if complete success is to be had. These are those with a proper covering to the central element. Some have a linen covering, or a linen pack, which holds the manganese dioxide and the central rod. You must use this type (found in most torch cells and in a certain super "B" battery). All the paste must be scraped clear and then these packs placed in sal ammoniac. Use a saturated solution; that is, a solution of sal ammoniac and water that will hold no more sal ammoniac. Place your zincs in this and then connect together the zinc and carbon rods of adjacent cells. The little cap on the carbon rods will provide an excellent means for connecting up the individual cells.

L.H.B. (Kariol): I have an all-wave commercial receiver. On the short-wave lengths I can pick up 2ME, 3ME, and several New Zealand amateurs fairly well, and of distant stations I have had WXSAL, Moscow, London, and two or three unidentified foreign stations, but all very weak and distorted. Should I get more than this? If not, short waves, as a source of entertainment, are rather a failure.

A.: You should be able to hear London in the early morning and Moscow, as well as the American stations, clearly and well. The American stations should, under fairly good conditions, come in at such strength as to provide real entertainment value. If you are not getting this we should suggest that you get in touch with the agent who sold you the set, as it is possible that there is some little fault with it, or that you may not be manipulating it to the best advantage.

2. On the broadcast wavelengths I get the main New Zealand and Australian stations moderately well, although without very much volume on the distant and small stations. I can get KFI very faintly, but no other American or Japanese station. Is there any way of increasing the volume of the distant stations?

A.: We are inclined to think that your condensers are not balanced up correctly, as you do not appear to be getting the results you should. We have tried this set out and have found that it is equal in all respects to the average commercial a.c. receiver, and being such it should give you perfect satisfaction. Just look over your aerial and earth installations and make quite certain that they are good.

3. The valves are SG442, two A415, and two B405. Are these the best for the set?—Certainly.

4. Occasionally the music fades right out, and on tuning the reaction knob over I find the set will not oscillate. A sharp rap on the front panel brings it in immediately at full strength.

A.: This points out clearly that there is something wrong with your set. It is impossible to say what it is from the particulars given. It may be a defective resistance, a bad connection in the set, or a condenser. We do not know and cannot tell without looking at the set itself.

5. The B batteries are of the largest size, and last six or seven months. Do you recommend wet B batteries? How long do these last after each charge?

A.: We would recommend wet B batteries if you had adequate means to charge them, but if you have to send them some distance to be recharged, then we would certainly recommend you to keep to the dry cells which you are now using. You appear to be getting average life from them. The wet B batteries last about two years, and usually require charging every three weeks to a month.

6. Do you recommend "magneto B" supply instead of the B batteries? A battery can be readily charged here by a small water wheel and a six-volt dynamo.

A.: Providing your magneto supply was sufficiently smooth, it would be quite satisfactory, but we are afraid that you would get hum.

"GRID" (Whangarei): I wish to build the "Radiogram Five," and for the current supply I propose to use the B accumulator and the A and B accumulator charger, both of which are described in the 1930 "Guide." If I built the B accumulator, as described, would it supply sufficient current and would the charger be capable of recharging it?

A.: The capacity of the battery will be about 4 mamp hours, so that the charges described in the "Radio Guide" will be quite satisfactory.

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

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

"Television," 1/7.

"Batteries and Accumulators," 1/7.

"Perpetual Trouble Shooter's Manual," 1931, by Rider, 24/6. No service man should miss this.

Gernsback's "Radio Service Manual." Complete directory of all commercial wiring diagrams and up-to-date supplements, 37/-.

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

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

"Radio Manual," latest printing. Sterling and Kruse, 20/-.

"Modern Sets, 1931" (2-3-4-Valve Battery and A.C. Sets, L-W Amplifier and special S-W. Set, 1/8 (N.Z. conditions). 1001 Radio Questions and Answers, 1930, "Radio News," 2/9. D.C. to A.C., etc.

"Break-In" (N.Z.), 4d.
"Cameron's Sound Motion Pictures Encyclopedia," 18/6.

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

"All About the All-Electric," 1/8.

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

"Principles of Radio," by Henney, 22/6.

"Practical Radio Repairing Hints," by Rider, 13/- (Don't miss it.)

"101 Hook-ups" ("Radio News" Staff), 2/6.

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

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

"Radio Amateur Call Book" (June, 1931), 5/3.

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

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

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

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

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

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2. Supposing the capacity of the B accumulator were 900 mamps. hours, and the total drain from the valves 25 mamps., would this mean that my B battery would last 36 hours?

A.: You can always compute the life of a B accumulator by taking roughly half the capacity; that is, dividing the mamps. hours by two. Then divide into this the drain taken by your set. It is most unwise to run an accumulator down more than half. The accumulator described in the "Radio Guide" would, with a 25 mamp. drain, last 180 hours. Generally speaking, a B battery charger must be charged at double the rate of the drain imposed by the valve. That means that the charger must be on about the same length of time as the set is operated.

3. What valves should I use in push-pull?

A.: We would suggest the B605 type, which will work quite satisfactorily from 135 volts B. and give a higher output than the 112. The B charger accumulator, if the secondary were wound to accommodate 180 volts, would be quite ample to charge this. You should wind on 2100 turns on either side of the secondary.

ENLIGHTENED (Stratford): I have an American set which uses the following valves:—A615 and PM6 in the first and second radio, detector A615, first audio PM6, second audio B605. Can you suggest any improvement?

A.: We would suggest second radio and first audio 221. PM6 is not suitable for those two sockets as it is an output valve.

BALDY (Ohaone Junction): I have a Raytheon X210 valve. What class is it?

A.: The same as UX210, employing 7.5 volts on the filament and 400 volts on the plate.

F.J.M. (Pahiatua): If I obtain a radio dealer's license, do I have to have an electric wireman's license to install radio sets?

A.: No. You may instal a set providing you do not interfere with the wiring of the house. You can connect the set up to

a hot-point, but if one has to be installed an electrical wireman must do this for you.

SELECTOR (Gisborne): We do not recollect having seen the circuit to which you refer. However, we shall hunt up our files for you, and, if we can find the circuit, we shall send it along.

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STALLOX (Thames): I wish to construct an auto-transformer to go between my mains. Would such be satisfactory?

A.: No. The regulations state quite clearly that a transformer, with a separate primary and secondary, must be placed between your mains and any radio apparatus. Auto transformers employed in the manner you suggest are not at all suitable for radio work.

L.H.S. (Bluff): You can tell me how to neutralise a Radiola 20?

A.: Remove the chassis from the cabinet and set up as for reception. Tune in a station about 1400 k.c. and then remove the second valve from the left and insert a dummy. By a dummy we mean a valve which is intact except that one of the internal prongs has been cut off, or is covered with silk in order to prevent it making contact with the socket. If this stage is neutralised the signal will disappear, but if it does not, adjust the neutralising condenser mounted on the rear edge of the valve panel and between the first and second valves until the effect is obtained. The adjustment is quite critical and must be done carefully. Once the minimum signals have been obtained remove the dummy and replace with the normal valve. Now replace number one on the left with the dummy and repeat as with number two. This time adjust the condenser immediately under number one valve at the rear edge of the valve panel. These two condensers are of the small compression type, consisting of two plates separated by mica and adjusted by a central screw.

BOOZY (Hikurangi): I am using a BD4 and have a 256 valve in the last stage with 90 volts on the plate and 9 volt bias. Am using an output filter. The bass notes do not seem to be over emphasised, although the high notes are not shrill, but the tone is not all that could be desired. My second transformer is a 5 to 1 ratio.

A.: The trouble probably lies in your output filter which was not designed for a power valve of the 256 type. If you install a filter, preferably a taped one, we think you would get better results. Furthermore, a 5 to 1 transformer is not conducive to quality, and in itself would account for the low note loss. You will not get very good reproduction with 90 volts only on the plate.

2. The symbol to which you refer is a centre taped LF choke.

I.A.P. (Otekuai): I made a diagram of I. a 4 valve set. Could it be converted into an A.C. If so, what changes would be necessary? Would I have to change the valves?

A.: You would certainly need to change the valves and you would have to adapt wiring to the indirectly heated valves. There are several circuits in the "Radio Guide," so we think your best plan would be to build up one of these.

C.R. Mc. (Taranaki): I have a 6 valve set and cannot receive any American or Japanese stations. When I put my finger on the aerial lead the power is greatly increased.

A.: It seems as though your aerial is defective. Your body is then acting as an extra aerial and so increasing the strength. If your aerial proper were fully efficient the little extra that your body picks up would not be noticed. Examine your installation very carefully. If you have a lightning arrester, take it out and see how the set then operates. Examine any soldered joints. Let the aerial down and clean the insulators.

2. What would be the approximate cost of the Outspan Five with all batteries and valves?

A.: Probably about £15.

3. Could the Sparrow Hawk adapter be used with the Outspan Five?—Yes.

H.F.R. (Auckland): Would you give me the number of turns of about 26 enamelled wire on 2in. former for the secondary and tickler windings to work the broadcast band, the secondary to be tuned with a .0005 condenser and regeneration by a .00015 differential condenser?

A.: You people could save us a lot of trouble by looking these things up in the "Radio Guide." There is an excellent table published on Page 53. It has exactly what you wish to know about the secondary coil, and you could have experimented with the differential reaction. However, here are the numbers of turns. Secondary 83 turns, reaction 35.

2. Is there any advantage in using d.s.c. wire in this case?—No.

3. When mounting a screen-grid valve (A442) type is there any advantage to be gained by mounting the valve horizontally through a hole in the screen?

A.: Theoretically this is the best way to mount the valve, as any chance of the stray capacities finding their way from the grid to the plate is then very small.

FIGARO (Auckland): Is the 10 ohm resistance in the negative to earth between the bottom of the S.G. secondary coil and earth, or is it in the positive in the Radiogram Five circuit?

A.: The Rheostat is in the positive lead. There is small biasing resistance in the negative lead between one of the filament terminals and the shield. This is merely a few turns of resistance wires. Unfortunately the displacement of the figures 30 in diagram 27 in the "Guide" would lead one to think that the small biasing resistance is 30 ohms.

2. What are the coil diameters and turns for the aerial coil using .0005 condenser?

A.: For 26 DSC wire 72 turns for secondary and 25 for aerial.

3. Audio oscillation is apparent when the speaker is placed on the set and more C battery is required on the first audio. Would it be overcome by using more modern speaker?

A.: If the set whistles when the speaker is placed on the cabinet it would appear that you were getting microphone howl from the set itself. If you place the speaker away from the set and audio oscillation is not present you need not worry about a more modern speaker. Audio oscillation can possibly be overcome by reversing the primary connection to one of the transformers.

A.B.C. (Paeroa): I wish to build a four-valve battery set. Would you please give me the names of suitable circuits?

A.: If you wish to build a really good four-valve set we would advise you to try the Differential four, published in the "Radio Record" at the beginning of this year.

G.T. (Putaruru): My reception during the day is not as I should like it. I have four pipes driven into the ground two feet apart outside the house, and from these bare copper wire leads to a piece of copper plate from which an insulated lead goes to the set. In all I have about 16 feet of copper wire. Is this too much for earth?

A.: No, your earth appears to be quite efficient. Do you keep it well watered and have you tried the effect of salt upon it?

2. How could I get a better reception?

A.: Have you balanced up the condensers of your set? If you look in the back of the set you will see four holes near the top of the canisters shielding the coil. If you put a screw-driver in these you will find a little screw. Tune in a weak station and adjust these screws one after the other until the station comes in at its strongest. You will find to get at these screws you will probably have to remove the rectifier and the 245.

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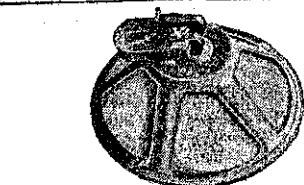
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The Diagnosis of Radio

By the Technical Editor

IN previous instalments we have outlined the functions of the various components in a radio set. This time we must go a little farther and place some of those components together to build up a circuit.

Look for a moment at diagram 1. You will instantly recognise the components indicated by the theoretical or schematic symbols. There is an aerial, a coil, and the earth. The aerial is not brought in to a fixed tapping, but is varied; that is, it can be taken to any tapping upon the coil.

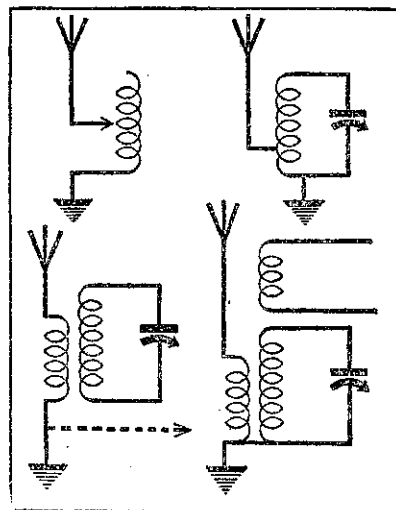
We go a stage further with diagram 2, where the aerial is brought to a fixed tap on the coil. Connected across the coil is a variable condenser. Now we know from our previous talks that, when a coil and a condenser are used together in this manner they can be made to accept or reject certain frequencies. If they are at a value, say, that resonates on 2YA's frequency, they cannot receive any others, or rather, they offer a high resistance to all other frequencies. You will notice in diagram (3) a dotted line near the earth symbol. If we did away with the earth and took a connection along that dotted line to our set, we would have a wavetrap. After a moment's hesitation you will see exactly what a wavetrap does. We adjust the coil and condenser until they offer a very high resistance to the signals from the station we do not wish to receive—in other words, that arrangement will pass all other signals except them, the signals from the interfering station being absorbed in the rejecter circuit.

The next diagram introduces a third coil. We have a coil between the aerial and the earth and near it is a larger coil. This is known as the secondary, for it is not connected with the primary, or, we should say, need not be connected with the primary, for some secondaries are connected to the primary at their lower end. Considering these two coils, then, we have sketched out a species of transformer. As there is no iron in the circuit, the coils are merely placed close to one another, and this is known as a radio frequency transformer.

The coil up at the top is very similar to the aerial coil and is usually placed at the other end of the secondary coil. Its function is to take back high frequency current into close proximity with the secondary coil. Varying the coupling between this coil (the tickler) and the secondary, we can allow a

greater or less amount of high frequency current to go from the plate of the valve back into the secondary coil. This high frequency current can then be passed through the valve and magnified. This is known as regeneration.

You know now that, when you see three coils, as drawn, a primary and secondary coil is indicated, the secondary being tuned to admit of any



Four Types of Aerial Coupling.—Top left, a simple tapped coil; top right, a tapped coil tuned with a variable condenser; bottom left, an aerial coupled employing a separate primary; bottom right, a regenerative circuit.

one station, and a tickler coil, which provides for regeneration. The circuit in question must now be termed a regenerative circuit. All of the circuits we have shown, provided they are variable, are classed as aerial tuning circuits, comprise the first section of any receiver.

Crystal Sets

WE are now able to tune the signals to any desired station. It will be remembered, however, that even if we put a pair of phones in this circuit we could not hear anything, because the high frequency current is pulsating too rapidly for the iron of the receiver to respond. It must be slowed down or rectified, and a simple manner of doing this is to insert a crystal in the coil or in an extension of it. By extending the coil to take in the crystal and the phones we are completing a circuit, and the current can now get somewhere. So we have our first simple crystal set. There is a larger variety of crystal sets that all work on the same principle. The difference lies only in the method of coupling the aerial, or, to use technical terms, now that we understand them, in the aerial tuning circuit. If the aerial is connected to a fixed tapping, usually a third from the earth end (it is now auto-transformer), complete the circuit in the usual way, we will get the

strongest circuit, but the circuit will be very broad in tuning, that is to say, the local station, although it has a definite peak, will come in when the condenser is turned away from this point. If there are two stations operating in the same town, they will both be frightfully mixed up, so we have to introduce certain losses in order to bring about selectivity (the ability to discriminate between the stations). One method is to use a separate primary coil, or even introduce a third coil, which is connected with the crystal, while the main secondary coil is merely tuned to the condenser.

There are various manners in which the desired effect can be brought about.

In a very simple circuit we could do without a condenser by varying the number of turns in the circuit. This can be done as is shown in figure one.

Now that we have outlined the types of simple aerial tuning circuits, take a pencil and paper and draw the following without reference to the diagram. Aerial tuning circuit employing a separate primary and secondary coil, the secondary being tuned with a variable condenser.

Now draw a crystal set employing an aerial circuit that does not involve the use of a variable condenser.

Draw a three-coil tuner, the secondary coil tuned with a condenser, and having a midget condenser in series with the aerial. When you have done these, look up the diagrams and check up your sketches.

Valve Circuits

HAVING now thoroughly understood the aerial circuit, let us introduce a valve. We might remark here that in any radio set there are four different circuits, the aerial tuning circuit, the high frequency circuit, the detector circuit, and the low frequency circuit. We might re-name two and four, calling them the radio and audio circuits respectively. Two, three, and four differ mainly in the use to which the valves are put.

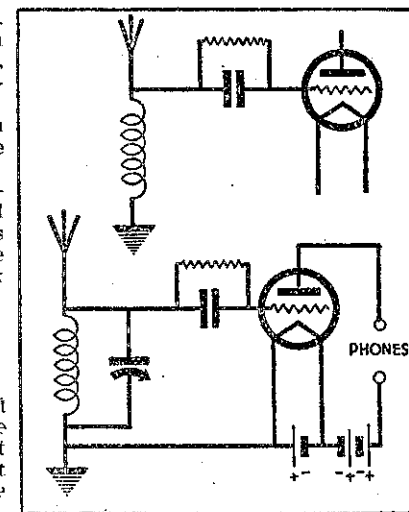
We will deal with number three first, for it is most essential, and, in a simple circuit such as the one-valve set, or even a two-valve set, follows the aerial tuning circuit. We have traced the pulsating current to either end of the secondary coil. We know that if we complete that circuit, passing it through a crystal, we can hear the signals. Now we shall pass it through a valve instead. The top of the aerial coil is taken through a grid-leak and condenser to the grid of the valve destined to be the detector. The grid-leak and condenser are essential if detection is to take place. We shall not pause at this stage to discuss exactly how detection is carried out, that is rather involved, but, whenever you see a grid-leak condenser between the top of the secondary coil and the grid of the following valve you will know that that valve is the detector.

If we take the plate of the valve and continue our circuit as if we had a crystal now instead of the valve, we

shall take it through the 'phones and to earth, and to the bottom of the secondary coil. Theoretically the set should function, but in order to make our valve work we must supply current to cause electron flow. A battery is put in the circuit between the 'phones and the earth. The presence of the battery will not make any difference to the high frequency current completing its circuit. It will go through the battery as if it were not there.

Not only do we need a high voltage battery to energise the plate of the valve, but we need a low potential battery between the filaments in order to cause the electrons to flow from the filament to the plate, through the grid and so bring about magnification of the signals. The battery is connected as is shown, and it is usual to connect the negative terminal of the B battery to the negative or positive of the A battery to complete the circuit. These points have already received attention when we dealt with the valve.

Now we have our one-valve set complete. We have an aerial tuning cir-



Upper.—An aerial coil connected with a grid-leak and condenser and the grid of the detector valve. Lower.—A completed one-valve non-regenerative circuit.

cuit, which collects the signals, we have a detector and 'phones. Because magnification takes place within the valve, the signals received in this one-valve set will be stronger than those from a crystal set.

If we want slightly stronger signals

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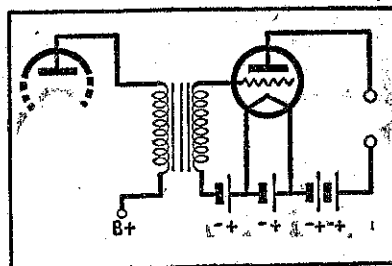
The International Correspondence Schools (N.Z.) Ltd.

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The Low-frequency Circuit.

IF we wish to strengthen the signals which have come from the detector, we can do so by employing more valves. It will be remembered that the current flowing in the plate circuit of the detector is of two kinds, direct from the battery and audio, or slow pulsating current from the valve itself, that is, the rectified a.c. This rectified a.c. current must somehow be got to the grid of the next valve. Now there are several ways that we can get at this.

In the first case, unless we employ a special circuit, we cannot allow a direct current flowing in the plate circuit to get on to the grid. That would cause a frightful hum and nothing else, so we must use a combination of stoppers. Probably the most popular method is by using a transformer. As the current is pulsating slowly for audio frequency current, an iron core transformer can be employed. The transformer has the advantage of stepping up the voltage as well as supplying an excellent means of coupling. The primary coil of the transformer is connected in the plate circuit, and takes the place of the phones. If another coil is placed near this, the pulsations will be picked up.



A transformer coupled audio stage. The batteries are, from the left, "A," "B," and "B+."

Another method of coupling the detector to the first valve is by resistances and chokes. In the first place a blocking condenser is placed between the plate and the detector valve, and the grid of the audio valve. The blocking condenser will pass the audio frequency current, but stop any direct.

Now the direct current must reach the plate of the detector valve, but audio current must be prevented from leaving the plate circuit by this path. This is simple enough, knowing what we do about the use of chokes. If we put in an audio frequency choke, the direct current can pass, but not the audio current. So, the direct current reaches the plate, and the audio current, the grid of the next valve. The circuit must now be completed. Inside the valve the electrons cross the vacuum, but externally connections must be made by some other means, and a circuit somewhat akin to the plate circuit of the preceding valve is employed. We must stop the audio frequency current leaving the grid, but must pass what little direct current flows in the grid circuit. This can be done either by using a very high value resistance or a choke. This method of coupling is usually referred to as resistance capacity.

High Frequency Circuit

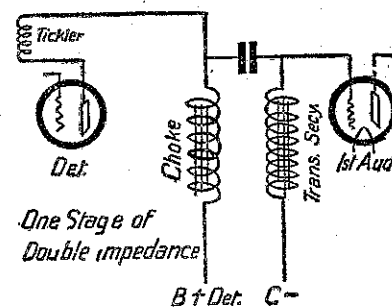
WE have explained how magnification takes place after the detector valve. An even more satisfactory method is to magnify the signals before they are detected, that is, while they are pulsating at a tremendous rate (at the radio frequency). A valve is employed in almost the same hook-up as for the audio stages, but seeing the current is at radio frequency iron core transformers cannot be used, and so they are replaced by radio frequency transformers, or ordinary coils. We have our aerial tuning circuit connected with the grid of the first valve. Notice there is no grid-leak and condenser in this circuit and no high grid bias. High frequency pulsations will jump from the primary to the secondary coil and so on to the grid of the following valve, which may be another high frequency stage, or the detector. Thus it will be seen that the principle of operation is the same as in the audio stages.

Analogous to resistance capacity coupling is the tuned anode system, shown in the accompanying sketch. It will be seen that the direct current gets to the plate of the valve through a radio frequency choke. The current cannot pass through this choke, but can pass through a condenser and so on to the grid coil of the next valve. This method is particularly suitable for the screen-grid valve.

In connecting the screen-grid valve in any one of the circuits mentioned the usual thing is to connect up all the four terminals we have previously commented on to grid, plate, and the two filaments in exactly the same way. The extra terminal is the auxiliary grid. This must be connected to a suitable "B" battery supply. By-pass condensers and chokes are used usually to restrict radio frequency current to their proper circuits and prevent them from wandering around the circuit and causing instability.

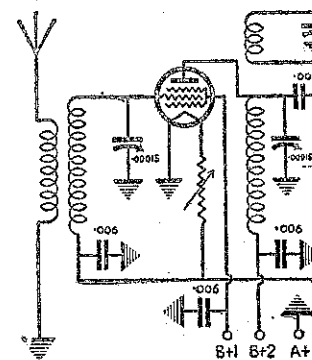
We have now studied the four main portions of the set and explained the functions of the principal components. Others can be added as refinements. For instance, we can use a variable resistance to control the amount of current reaching the filaments of the valves. This is known as a rheostat. It is employed because some valves work better with a little less voltage on them than is delivered by the battery.

Space does not allow us to deal with much more in this series. In the next instalment we hope to talk a little about the refinements of radio, to explain the meaning of push-pull, and



Low-frequency coupling employing chokes and a condenser.

to comment briefly on the power pack and a.c. circuits. If before this time anyone has any further points they want elaborating we shall be pleased to hear from them.



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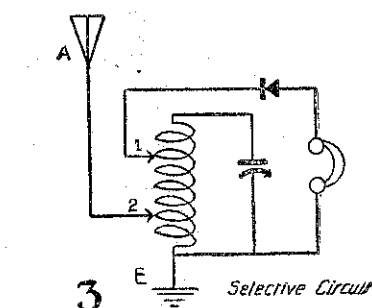
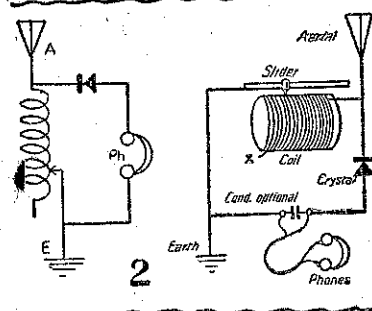
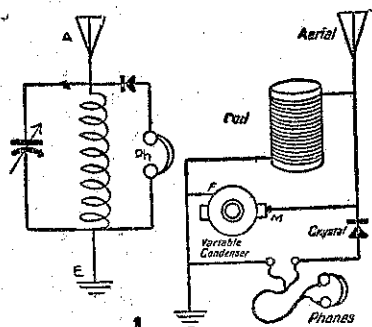
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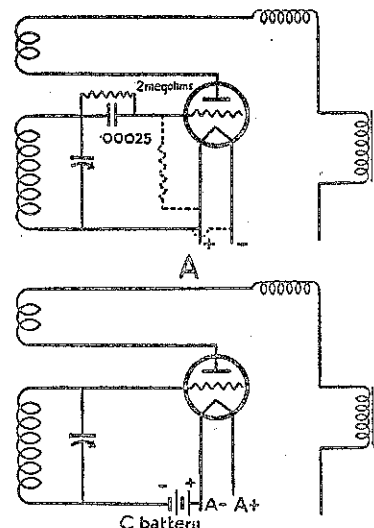


Three Types of Crystal Sets.—(1) A coil tuned with variable condenser. (2) A coil tuned by a slider. (3) A selective circuit using a tapped coil.

we can use regeneration. You will remember what regeneration is—the feeding back of certain of the high frequency currents running in the plate circuit of the detector into the secondary coil. This is brought about by a third coil near the secondary or grid coil. There must be some method of controlling the amount of energy sent back. We can either vary the relationships of those coils, known as the swinging coil method, use a variable condenser, and vary the voltage on the detector valve. These three different methods have their own particular advantage.

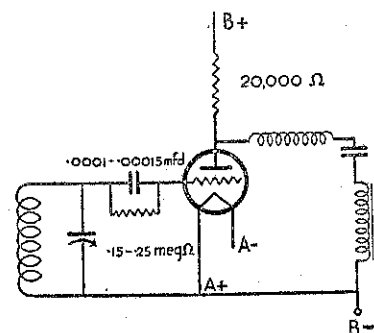
There are other methods of causing a valve to detect. One, the anode bend or power detector, is possibly the next best known to the grid-leak and condenser. Detection is brought about by applying a negative voltage to the grid of the valve, instead of by putting a grid-leak and condenser in series with it. In the low frequency circuit a third, or grid, voltage is applied to the valves, and we employ exactly the same circuit for the detector except that a very much higher grid voltage is used. The circuit is illustrated.

A third method of detection, one which seems to be coming very popular, and which possesses many advantages, is the power grid type. This is really a combination of the power detection and grid-leak detection, incorporating certain variations made in the constant.



Two Methods of Making a Valve Detector.—Upper, grid-leak; lower, anode bend.

If the second coil is larger than the first they will be magnified to a certain extent. This is exactly what we want. There will be no direct current in the second coil, but audio current only. If we connect one side of this to the grid, and the other to earth, or to earth via a small battery, we shall complete the grid circuit, and be getting the signals on to the grid of the first audio valve.



Detection by power-grid method. A high detector voltage is necessary.

FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

From 1YA

THE afternoon sessions will include portion of the recital to be given in the Town Hall by the city organist, Mr. Maughan Barnett. The evening service in the Beresford Street Congregational Church will be broadcast, the preacher being the Rev. Lionel Fletcher. After the service, 1YA will relay from the Auckland Town Hall a concert by the Municipal Band, under the baton of George Buckley.

2YA Items

THE service in St. Paul's Pro-Cathedral will be relayed. The preacher will be Canon Percival James, and the organist and choir-master, Mr. Robert Parker, O.M.G. At 8.15 p.m. a concert by the Royal Naval Volunteer Reserve Band, under the conductorship of Mr. Harry Baker, will be relayed from the De Luxe Theatre.

Features from 3YA

THE service in St. Paul's Presbyterian Church will be broadcast, the Rev. Bower Black being the preacher, with Mr. N. Williams at the organ and Mr. H. Blakeley as choir conductor. The after-church studio concert will be contributed to by well-known 3YA artists. The solo will include Schubert's "Serenade," "The Yeomen of England," "Indian Love Call," and three negro spirituals. The Studio Octet will present an attractive orchestral programme, including a selec-

tion from "The Barber of Seville" and the "Coppelia" ballet music. During the evening Mr. E. Iveagh Lord will give the final of his series of talks about the Golden Coast, this time dealing with the Otira tunnel, linking east and west.

Notes from Dunedin

THE service to be conducted in the Hanover Street Church of Christ by Pastor W. D. More will be relayed. Mr. W. H. MacKenzie will be the choir-master. A relay of 3YA's concert will follow.

MONDAY

1YA on the Air

THE results of the second day's racing of the Auckland Jockey Club's spring meeting, interspersed with items from the studio, will be broadcast.

Wellington Features

SIGNORA AIDA BULMAS, a dramatic soprano, late of Sydney, will be heard in two operatic numbers by Verdi—"Ritorna Vincitor" (from "Aida") and Leonora's aria from "The Force of Destiny," as well as Geehl's charming ballad, "For You Alone." The popular tenor, Denis Sheard, will sing the favourite, "Your Tiny Hand is Frozen" (from "La Boheme"), "Questa e Quella" (from "Rigoletto"), and a new composition, "The Hawaiian Love Song." Ernest Glading's fine baritone voice will be heard in the "Prologue" from "I Pagliacci," "To-morrow," and "The Strong Box."

The "Musical Portrait" series will be continued by Gladys Watkins, pianiste, and Nancie Holloway, violiniste, who, in response to numerous requests, will give a further group of "Classical Dances."

Selections from 3YA

THE campaign against fire losses will be opened in Christchurch by Mr. Chas. E. Warner, Superintendent of Christchurch Fire Brigade, who will speak on "Fire Prevention." A concert to be given by the Timaru Orchestral Society will be relayed from Timaru.

4YA Notes

UNDER the auspices of the League of Nations Union, Mr. Edward Hayes, M.A., will speak on "The Jobless Millions." Mr. J. T. Paul, editor of "The Otago Witness," will be the lecturer on the international programme, taking as his subject, "International Aspects of Modern Europe."



J. M. CALDWELL,
a fine bass and a member of the Apollo Singers, who will give a concert on October 3, under the conductorship of Mr. H. Temple White.
—S. P. Andrew, photo.

TUESDAY

Auckland Items

THE speaker on the International Programme will be Mrs. M. B. Soljak, a well-known Auckland lecturer and social worker, who will take for her subject, "Women's Influence for World Peace."

Comments from 2YA

Walter Brough, the well-known Auckland baritone, who is now a resident of Wellington, will make his appearance before the 2YA microphone tonight. Nora Green (contralto), who

THE WEEK

Signora Aida Bulmas

2YA, Monday.

"A Night With the Scots"

4YA, Tuesday.

Special Sea Programme

1YA, Wednesday.

Aeolian Orchestra

1YA, Thursday.

Christchurch Club Concert

3YA, Friday.

Wellington Apollo Singers

2YA, Saturday.

has not been heard for some time, will sing several numbers, including "An Old Garden" and "Ma Curly-Headed Baby." Also on the programme will be Billy Hart, in popular songs at the piano. The incidental music will be supplied by the Salon Orchestra, under the conductorship of Mat Dixon. Berthold and Bent, popular guitar duo, will be heard in popular numbers.

Dunedin Features

"A NIGHT with the Scots" is the title given to this evening's entertainment.

The bagpipes will be represented by the Dunedin Highland Pipe Band, a fine combination, which will appear four times during the evening playing traditional music of Scotland, including Highland dances. Supporting the band will be Eva Judd in violin items and the ever-popular "Regal Four," whose presentations at 4YA are always very acceptable. The Scottish programme this evening does not contain what might be termed the "hackneyed" ballads, but older melodies, very seldom heard, will be presented, among these being "On Cessnock Banks," "Sleepest Thou or Wakest Thou?" and "My Nanies Awa." During the evening Mr. W. B. McEwan, Dunedin's Public Librarian, will give a fifteen minutes' talk on "The Love Songs of Burns."

WEDNESDAY

Notes from 1YA

A particularly interesting entertainment has been arranged by the 1YA Broadcasting Choir, assisted by the Salon Orchestra and "Lee Fore Brace."

This will be a special sea programme, the first half consisting of a four-part arrangement of such numbers as "Rule Britannia," "Hearts of Oak," "Tom Bowling," and those songs relative to the sea, while the Salon Orchestra, under the direction of Mr. Harold Baxter, will play "H.M.S. Pinafore" selection, "Life on the Ocean," and "Shiver My Timbers." Mr. Newling, baritone, will sing "The Mighty Deep" and "The Skipper," while Miss Brooke, contralto, will sing "Harbour Night Song" and "Glory of the Sea."

The second half of the programme will be in charge of "Lee Fore Brace." As the master of a sailing ship, he will

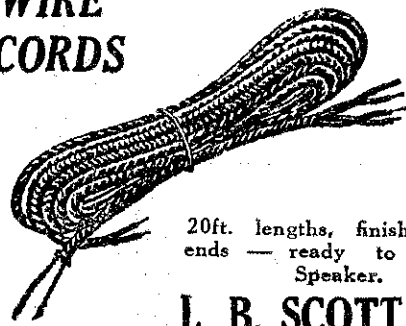
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take listeners for a trip from the Thames as he knew it forty years ago. Beside the master, there will be a bo'sun, the ship's boy, and a crew of sailors who will sing appropriate sea shanties.

At 2YA

AT 11.37 a.m. from 2YA, Miss Flora Cornack will give her weekly lecture on "Hollywood Affairs." At 7.40 p.m. Mr. T. M. Bateson, Sectional Secretary of the N.Z. Astronomical Association, will give a lecture on "Comets and Their History."

To-night the international programme will broadcast, the lecturer being Dr. Guy H. Scholefield, O.B.E.

Items from 3YA

The Edgeware Road Methodist Church Choir Concert Party, who won the championship at the recent Christchurch competitions, assisted by the 3YA Studio Octet, will provide the programme for to-night.

The Studio Octet will present a bright programme, which will include "Fingal's Cave" overture, "La Boheme" selection, and "Henry VIII Dances."

Dunedin Notes

THE Roslyn Presbyterian Choir will present the main portion of to-night's programme.

Assisting the choir will be an instrumental trio of three ladies, Ethel Wallace, Sybil Baker, and V. Moffatt, while the accompaniste for the evening will be Miss E. Williamson, L.A.B. Humorous contributions by the choir will include "Old Mother Hubbard" and "Laughing Chorus." A male quartet—"The Orpheus Four"—will sing two very fine numbers, "Slumber Blest" and "Cornfield Melodies."

THURSDAY

Auckland Topics

The third concert of the 1931 season of the Aeolian Orchestra (under the baton of Gerald T. Lee) will be broadcast.

This orchestra, which is purely amateur, sets a high standard. Listeners are assured of a very fine programme.



BERT RAWLINSON.

Mr. Rawlinson will sing old Scottish airs from Dunedin on September 29. —Artlite, photo.

Gleanings from 2YA

THE Waiata ladies' quartet, who have proved so popular in recent broadcasts, will again delight listeners in a budget of quartettes, duets and solos. A novelty quartet, The Neapolitans, new to 2YA, will be heard in some snappy, up-to-date melodies. The Salon Orchestra, under Mat Dixon, will be heard in several numbers

From 3YA

THE second of the series of talks by Mr. Geo. Lawn, M.A., on Russia To-day, will be included in the international programme.

FRIDAY

Notes from 1YA

THE 1YA Salon Orchestra, under the direction of Harold Baxter, will supply the instrumental portion of the evening's programme, playing many popular numbers, including "A Southern Wedding," "In a Persian Market," "Wai-anui Moon," and "Popular Songs." The vocalists will be Leslie Belcher (tenor) and Thelma Duffin, mezzo-soprano, who is contributing a group of ballads by English composers.

Items from 2YA

THE 2YA Orchestra, under Signor A. P. Truda, will play the overture "Zampa," "Geisha," the waltz "Wine, Women and Song," and the fantasia "Faust Frivolities." Claude C. Moss, popular baritone, will sing two Mexican love songs by Woodforde-Finden, and two Maori songs. The new novelty instrumental and vocal duo—Collinson and Lees—will be heard in a number of up-to-date songs and melodies.

Christchurch Topics

MR. D. E. PARTON, late telegraph engineer, will talk on "Pioneers of Radio."

A studio concert by the Christchurch Club will be broadcast during the concert session.

Some very popular choruses will be sung and there will be quartets by the well-known male voice combination, the Beckenham Four. There will be banjo and trombone solos, and popular airs will be played by a trio of steel guitars and ukulele.

4YA Programme

A DIVERSIFIED programme will be presented to-night. Xylophone, banjo, clarinet solos, humorous items, tenor, contralto, and soprano solos, all of an exceptional quality, will figure on this evening's entertainment. The clarinet artist, T. Currier, is a very fine player, and Mrs. W. Carson, a brilliant contralto, is a new radio singer. Alex Snell (baritone), who has not been before the microphone for some considerable time, makes his reappearance with two Scottish ballads, "Bonnie Mary of Argyle" and "Standard on the Braes of Mar," and in the delightful swinging ballad, "Lackaday." Mr. W. N. Satterthwaite, one of the principal soloists of the Dunedin Returned Soldiers' Choir, will be heard in three numbers. Mrs. H. Stokes will delight listeners with banjo solos, including "Souvenir" (by Drdla). Angus Gorrie will present humorous items, one of them being Max Adeler's "Mr. Barker's Picture," every line of which has a laugh in it.



BILLY HART.

This popular entertainer needs no introduction to Wellington listeners. He will be heard in several numbers at the piano on September 29. —S. P. Andrew, photo.

SATURDAY

Auckland Selections

THE Auckland Municipal Band, under the direction of George Buckley, is providing the evening programme.

Features from Wellington

UNDER the auspices of the W.E.A., Mr. W. E. Leicester, L.L.B., will speak on "The English Comic Spirit."

A concert by the Wellington Apollo Singers, under the conductorship of Mr. H. Temple White, will be relayed from the Wellington Town Hall.

A very fine programme has been arranged, the features of which will be pianoforte solos by Ernest Jenner, A.R.A.M., bass solos by J. M. Caldwell and tenor solos by Eric Rishworth.

Christchurch Topics

COSTER songs by Mr. George Titchener, songs at the piano with banjo-tele by the Rose and Thistle Duo, popular airs by Elaine Moody's Hawaiian Trio (with ukulele and Spanish and steel guitars), entertaining items by the Two Rascals, and a bright programme by the Christchurch Salon Orchestra (under Mr. Francis Bate) will constitute 3YA's vaudeville entertainment, which will also be broadcast by 4YA.

An Electron Shower Broadcast

MR. H. CALDWELL, an ex-member of the U.S. Federal Radio Commission, startled listeners to W.E.A. recently when he broadcast the sound of an electron shower. To do this he held a battered radium dial watch to an instrument known as the Geiger counter. The electrons discharged from the radium-coated dial filtered through the counter and the sound of their striking, as transmitted through the microphone, resembled that of a fall of lead shot on a tin roof. The experiment was under the auspices of the National Research Council, thus guaranteeing, it seems, that genuine electrons were used and not lead shot.

Inventor of the Microphone

Centenary Last May

MAY 16, 1931, was the one-hundredth anniversary of the birth of Professor David Edward Hughes, whose original microphone, consisting of two nails with a third lying loosely across them, was the forerunner of the instruments now in almost universal use in the telephone systems and broadcasting studios of the world.

In the Science Museum, South Kensington, London, may be seen the microphone receiver—assembled in a simple glass specimen jar—by means of which Hughes was undoubtedly the first to detect, at a distance, the electro-magnetic waves from a crude spark transmitter actuated by a clockwork interrupted which also is accorded a place in the museum. His work between 1879 and 1886 actually made use of what we now term wireless waves, and, although the results he then obtained were wrongly attributed to electro-magnetic induction, there is no doubt that he was using the very waves which had been theoretically predicted by Clerk-Maxwell and which may be said to be responsible for the present vast organisation of broadcasting.



CHAS. MARTIN, Mus.Bac.

One of the best-known Dunedin musicians, Mr. Chas. Andrew Martin, is shortly leaving for Berlin and Vienna to continue his studies in music. Mr. Martin, whose clever and artistic accompaniments of vocalists and instrumentalists have been the subject of much commendation, has been heard often from 4YA. Almost every artist of note who has visited Dunedin has availed himself (or herself) of Mr. Martin's services, and all have stated that they have never been better served. He is the first Varsity student in Dunedin to take the degree of Mus.Bac. He is a gifted composer, and his setting of Keats's "Ode to a Grecian Urn" was given its first public rendering at a recent farewell concert to its author, earning the commendation of all critics.

Full Programmes for Next

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

Sunday, September 27

1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, SEPTEMBER 27.

- 8.0 : Selected recordings, interspersed with relay of portion of Organ Recital from Town Hall by Mr. Maughan Barnett, City Organist.
 6.0 : Children's song service, conducted by Uncle Leo.
 7.0 : Relay of evening service from the Beresford Street Congregational Church. Preacher, Rev. Lionel Fletcher; Choirmaster, Mr. William Gemmell; Organist, Mr. A. Cherry.
 8.30 (approx.): Relay from the Auckland Town Hall of concert by the City of Auckland Municipal Band (Mr. George Buckley, Conductor).
 Grand march—The Band, "Knights of the King" (Ketelbey); overture, "Leonore" (Beethoven).
 Cornet duet—Messrs. F. Bowes and J. Davies, "Al and Pal" (Short).
 Suite—The Band, "Hyde Park" (Jalowicz): (1) Sunday Morning Church Parade, (2) Rotten Row, (3) On the Serpentine, (4) Around the Bandstand.
 Xylophone—Mr. Rowland Jackson, "Bisley" (Cole).
 Rhapsody—The Band, "Hungarian Rhapsody No. 1" (Liszt).
 Piccolo—Mr. Hal. C. McLennan, "Little Sweetheart" (Brookshire).
 Hymn—The Band, "Nearer, My God, to Thee" (Dykes).
 March—The Band, "Old Panama" (Alford).
 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, SEPTEMBER 27.

- 8.0 : Afternoon session of selected gramophone recordings.
 6.0 : Children's song service, conducted by Uncle George, assisted by the Children's Choir from the Rosemeath Presbyterian Church.
 7.0 : Relay of evening service from St. Paul's Pro-Cathedral, Mulgrave Street, Wellington. Preacher, Canon Percival James; Organist and Choirmaster, Mr. Robert Parker, O.M.G.
 8.15 (approx.): Relay of concert by the Royal Naval Volunteer Reserve Band from the De Luxe Theatre (Conductor, Mr. Harry Baker).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, SEPTEMBER 27.

- 8.0 : Gramophone recital.
 5.30 : Children's song service by children of Presbyterian Sunday Schools.
 6.15 : Chimes.
 6.30 : Relay of evening service from St. Paul's Presbyterian Church. Preacher, Rev. W. Bower Black; Organist, Mr. Norman Williams; Choir Conductor, Mr. H. Blakeley.
 7.45 : Selected recordings.
 8.15 : Studio programme:
 March—Orchestra of Opera Comique, "Heroique" (Saint-Saens).
 8.23 : Tenor—Mr. Charles R. Williamson with octet accompaniment, (a) "Serenade" (Schubert), (b) "Devotion" (Schumann).
 8.32 : Piano—Miss Gladys Benton, "Polonaise, Op. 26, No. 1" (Chopin).
 8.37 : Soprano—Miss Addie Campbell with octet accompaniment, (a) "The Garden of Your Heart" (Dorel), (b) "Here's to Love and Laughter".
 8.43 : Orchestral—Studio Octet (Conductor Harold Beck), (a) "Harvest Festival" (Ames), (b) "To a Wild Rose" (Macdowell), (c) "Presto" from "Oxford Symphony" (Haydn).
 8.51 : Bass—Mr. Finlay Robb with octet accompaniment, (a) "The Menin Gate" (Bowen), (b) "The Yeomen of England" (German).
 8.57 : Selection—Berlin State Opera House Orchestra, "From Foreign Parts" (Moszkowski) (a) Spain, (b) Hungary (Parl. A3137).
 9.3 : Weather forecast and station notices.
 9.5 : Talk—Mr. E. Ireagh Lord, "The Story of the Golden West Coast—The Arthur's Pass Tunnel—Linking East and West."
 9.20 : Selection—Studio Octet, "The Barber of Seville" (Rossini).
 9.25 : Tenor—Mr. Charles R. Williamson with octet accompaniment, "All Hail, Thou Dwellings" (Gounod).
 9.30 : Piano—Miss Gladys Benton, "Humoreske" (No. 10) (Rachmaninoff).
 9.35 : Soprano—Miss Addie Campbell with orchestral accompaniment, "Indian Love Call" (Friml).
 9.40 : Organ—Arthur Meale, "Pilgrim's Song of Hope" (Batiste) (H.M.V.).
 9.44 : Bass—Mr. Finlay Robb, Negro Spirituals, (a) "Deep River" (Fischer), (b) "Since You Went Away" (Johnson), (c) "Swing Low, Sweet Chariot" (Rogers).
 9.50 : Ballet music—Studio Octet, (a) "Slavonic Theme and Variations," (b) "Festival Dance and Waltz" from "Coppelia" (Delibes).
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, SEPTEMBER 27.

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

- 6.15 : Instrumental recordings.
 6.30 : Relay of evening service from Church of Christ, Hanover Street, Dunedin. Preacher: Pastor W. D. More. Choirmaster: Mr. W. H. Mackenzie.
 7.45 : Selected recordings.
 8.15 : Relay of Concert Programme from 3YA, Christchurch.
 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, SEPT. 27.

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

Monday, September 28

1YA, AUCKLAND (875 KILOCYCLES)—MONDAY, SEPTEMBER 28.

- 12.0 : Chimes. Results of second day's races in connection with the Avondale Jockey Club's spring meeting, interspersed with studio items.
 God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, SEPTEMBER 28.

- 10.0 : Chimes. Selected recordings.
 11.12 : Lecturette—"Cooking."
 11.37 : Lecturette—"Health Hints or First Aid."
 12.0 : Lunch hour music.
 2.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Uncle Jeff.
 6.0 : Dinner music session (Polydor)—
 Great Symphony Orchestra, "A Rendezvous With Lehar" (arr. Hruby).
 Marek Weber and His Adlon Orchestra, "Lettre a Armand."
 Paul Godwin's Orchestra, "Serenata" (Clement) (19628).
 Philharmonic Orchestra, Berlin, "Euryanthe" Overture (Weber).
 Effim Schachmeister's Orchestra, "Gipsy's Farewell" (trdtl.) (20455).
 Philharmonic Orchestra, Berlin, "Tannhauser Grand March."
 Marek Weber and His Adlon Orchestra, "Dreams" (Wagner).
 Paul Godwin's Orchestra, "Types Tziganes" (Clement) (19628); "Side-lights Medley" (Morena) (27168).
 Effim Schachmeister's Orchestra, "White Acacia" (trdtl.) (20455).
 Philharmonic Orchestra, "Prelude To Act 3—Lohengrin" (Wagner).
 7.0 : News, market reports and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes. Fantasia—Dajos Bela Orchestra, "La Traviata" (Verdi).
 8.8 : Soprano—Signora Alda Bulmas, Aria from "Aida" (Verdi).
 8.14 : Baritone—Mr. Ernest Glading, with orchestral accompaniment, (a) "Prologue" (Leoncavallo), (b) "To-morrow" (Keel).
 8.20 : Classical dances—Piano—Miss Gladys Watkins, violin—Mrs. Nancie Holloway, (1) "Loure" (Bach); (2) "Czardas" (Macdowell); (3) "Spanish Dance" (Granados); (4) "Rondo From Ninth Concerto."
 8.35 : Introduction—Chorus and Orchestra, of La Scala, Milan, "Cavalleria Rusticana" (Mascagni) (Parlo. A4134).
 8.43 : Tenor—Mr. Denis Sheard, (a) "Che Gelida Manina" (Puccini); (b) "Queste E Quella" (Verdi); (c) "The Hawaiian Love Song."
 8.53 : Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Norma" (Bellini).
 9.0 : Evening weather report and station notices.
 9.2 : Selection—New Queen's Hall Light Orchestra, "Mignon" (Thomas).
 9.11 : Baritone—Mr. Ernest Glading, with orchestral accompaniment, (a) "Tangl" (Hill), (b) "The Strong Box" (Coates).
 9.17 : Classical dances (continued)—Piano—Miss Gladys Watkins; violin—Mrs. Nancie Holloway, (a) "Polka" (Glazounov); (b) "Polonaise" (Vientemps), (c) "Concert Study on the Sailor's Hornpipe."
 9.32 : Soprano—Signora Alda Bulmas, "Pace, Pace Mio Dio" (Verdi), with orchestral accompaniment, "For You Alone" (Geehl).
 9.40 : Instrumental Trio—Cortot (piano) Thibaud (violin), Casals (cello), "Trio in D Minor Op. 49 Andante Con Moto Tranquillo."
 9.48 : Tenor—Mr. Denis Sheard with orchestral accompaniment, (a) "Lolita" (Puccini); (b) "Lo, 'Tis The Day" (Leoncavallo).
 9.54 : Selection—2YA Orchestra. "Carmen" (Bizet).
 10.0 : Dance programme (Panachord)—
 Foxtrots—Benny Goodman and His Orchestra, "What Have We Got To Do To-night But Dance?" (Kahn) (P12138). Ed. Lloyd and His Orchestra, "Mary Jane" (Robinson) (P12147); Benny Goodman and His Orchestra, "I Wanna Be Around My Baby All The Time" (Young) (P12138); Mark Fisher's Orchestra, "You'll Be Mine In Apple Blossom Time" (Tobias) (P12147).
 10.12 : Waltz—The Ambassadors, "One Love" (Koehler) (P12003).

Week-all Stations-to Oct. 4

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- Foxtrots—Art Kahn's Orchestra, "It's a Lonesome Old Town" (Tobias) (P12081); "The River and Me" (Dubin) (P12060); Art Kahn's Orchestra, "Truly" (Hirsch) (P12081).
- 10.24: Vocal—Hal Stead, "Running Between the Raindrops" (Dyrenforth).
- 10.27: Tango—Juan Llossas and His Orchestra, "My Beautiful Vis-a-Vis" (Beda) (Poly. 23951).
- Foxtrots—Milt Shaw and His Detroiters, "The Sleepytown Express" (Gillespie) (P12061); Ralph Bennett and His Seven Aces, "Yours and Mine" (Nelson) (P12062); Milt Shaw and His Detroiters, "The King's Horses" (Graham) (P12061).
- 10.39: Waltzes—Jack Richard and His Miami Orchestra, "Two Hearts In Waltz Time" (Robinson) (P12003); Jan and Patrick Hoffman Band, "Until We Meet Again Sweetheart" (Lombardo).
- 10.44: Vocal—Hal Stead, "I Found a Million Dollar Baby" (Rose).
- 10.48: Tango—Juan Llossas and His Orchestra, "For The Last Time Let Me Dance With You" (Thommsen) (Poly. 23951).
- Foxtrots—Art Kahn's Orchestra, "You Didn't Have To Tell Me" (Donaldson) (P12090); Ralph Bennett and His Seven Aces, "Fall In Love With Me" (Tobias) (P12062); Milt Shaw and His Detroiters, "Blue Again" (Fields) (P12090).
- 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, SEPTEMBER 28.

- 3.0 : Gramophone recital.
4.25: Sports results.
5.0 : Children's hour, conducted by Mother Hubbard.

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AUCKLAND — CHRISTCHURCH — WELLINGTON.

- 6.0 : Dinner music session (Columbia)—
Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen).
Debroy Somers Band, "The Desert Song" (Romberg) (02700).
J. H. Squire's Celeste Octet, "Memories of Devon" (Evans) (DO254).
New Queen's Hall Light Orchestra, "Summer Days Suite" (Coates):
(a) In a Country Lane; (b) On the Edge of the Lake; (c) At the Dance (02590/1).
H.M. Grenadiers' Band, "New Sullivan" Selection (arr. Godfrey).
Zurich Tonhalle Orchestra, "Andante" (Mozart) (02978).
Johann Strauss and His Orchestra, "Voices of Spring" (Strauss).
Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (02622).
J. H. Squire's Celeste Octet, "Collette" (Fraser-Simson) (DO254).
Zurich Tonhalle Orchestra, "Gavotte from Idomeneo" (Mozart).
New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates) (02591).
Johann Strauss and His Orchestra, "Radetzky March" (Strauss).
- 7.0 : News session.
- 7.30: Talk—Mr. E. E. Wiltshire, Vice-president of Linwood Library, "Books of the Month."
- 7.45: Talk—Mr. Chas. C. Warner, Superintendent of Fire Brigade, "Fire Prevention."
- 8.0 : Chimes. Relay of programme by Timaru Orchestral Society from Theatre Royal, Timaru. Hon. Conductor: Mr. F. J. Hyde. Leader of Orchestra: Mr. Inglis Todd, L.A.B.
- God save the King.
Orchestral—(a) "Pageant March" (Herman Finck); (b) "Yeoman of the Guard" (Sullivan).
Orchestral—"Nell Gwynne Dances" (Edward German). (1) Country Dance; (2) Pastoral Dance; (3) Merry-maker's Dance; "Finlandia" (Sibelius).
Weather forecast and station notices.
Orchestral—"Semiramide" Overture (Rossini); "Casse Noisette Suite" (Tschalkowsky): (1) Overture Miniature; (2) Danse Arabe; (3) Danse de la Fee Dragee; (4) Trepak; "Triumphal March" (from "Cleopatra") (Mancinelli).
God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, SEPTEMBER 28.

- 3.0 : Selected recordings.
5.0 : Children's hour, conducted by Uncle Jack and Uncle Pete.
6.0 : Dinner music session (Parlophone)—
Berlin State Opera Orchestra, "Academic Festival" Overture (Brahms) (A4210); "From Foreign Parts"—"Italy," "Germany."
Frank Westfield's Orchestra, "Lilac Time" Selection (Schubert-Berte).
Berlin State Opera Orchestra, "Schwanda the Bagpipe Player."
Dajos Bela Orchestra, "Schatz Waltz" (Strauss) (A4110); "Mosaic" Potpourri (Zimmer) (A4278).
Grand Symphony Orchestra, "The Land of Smiles" Selection (Lehar).
Berlin State Opera Orchestra, "From Foreign Parts"—"Spain," "Hungary" (Moszkowski) (A3137).
Dajos Bela Orchestra, "Moonlight on the Alster" (Fetras) (A4110).
- 7.0 : News session.
- 7.40: Talk—Mr. Edward Hayes M.A. (under auspices of the League of Nations Union) "The Jobless Millions."
- 8.0 : Chimes. International programme.
Vitaphone orchestra.
Flying Song Squadron.
Forget-me-not.
Weather report.
International Talk—Mr. J. T. Paul, Editor, "Otago Witness," "International Aspects of Modern Europe."
The Irresistible Imps.
Whispers.
God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, SEPT. 28.

8.0 to 10.0 p.m.: Concert programme.

Tuesday, September 29

1YA, AUCKLAND (875 KILOCYCLES)—TUESDAY, SEPTEMBER 29.

- 3.0 : Selected recordings.
5.0 : Children's session, conducted by Uncle Dave.
6.0 : Dinner music session (Polydor)—
Berlin Philharmonic Orchestra, "Titus" Overture (Mozart) (95296).
Paul Godwin Orchestra, "The Roses" Bridal Procession" (Leon Jessel) (19681); "Oh, This Beautiful Springtime" (Lincke) (19661).
Great Symphony Orchestra, "Fortissimo" (Kalman) (27167).

Paul Godwin Orchestra, "The Marionettes' Mounting Guard" (Kuhn).
 State Opera Orchestra, Berlin, "Orpheus and Eurydice Ballet Music."
 Paul Godwin Orchestra, "Murmure de Bal" (Meyer Helmund).
 Berlin Philharmonic Orchestra, "Le Nozze di Figaro" Overture.
 Paul Godwin Orchestra, "Poppies" (Moret) (19661); "Dreaming Flowers" (Translatour) (19507).

Bereny's Hungarian Gypsy Symphony Orchestra, "Karpattia."

7.0 : News and market reports.

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

8.0 : Chimes. Specially recorded international programme—

Vitaphone Orchestra.

Radio Sweethearts.

Forget-me-Not.

Weather report.

International talk—Mrs. M. B. Soljak, "Women's Influence for World Peace."

The Irrepressible Imps.

Whispers.

God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, SEPTEMBER 29.

10.0 : Chimes. Selected recordings.

11.12: Lecturette—"Fabrics and Fashions."

12.0 : Lunch hour music.

2.0 : Educational session.

3.0 : Selected recordings.

3.30 and 4.30: Sporting results.

5.0 : Children's hour, conducted by Jumbo.

6.0 : Dinner music session (H.M.V.)—

International Concert Orchestra, "La Spagnola" Waltz (Di Chiara).

Novelty Orchestra, "Passion Rose" (Lehar) (Zono. EE200).

Berlin State Opera Orchestra, "German Dances" (Mozart) (D1624).

Organ—Sydney Gustard, "Un Peu D'Amour" (Silesco) (B3318).

Reginald King and His Orchestra, "The Song I Love" (Henderson).

H.M. Coldstream Guards' Band, "La Fille de Madame Angot" (Lecocq).

The London Palladium Orchestra, "Sunset" (Matt) (C1898).

Vienna Philharmonic Orchestra, "Die Fledermaus" Waltz (Strauss).

International Concert Orchestra, "My Treasure" (Beuccl).

Novelty Orchestra, "Midnight Bells" (Heuberger) (Zono. EE200).

Organ—Sydney Gustard, "Poupee Valsante" (Poldini) (B3318).

Reginald King and His Orchestra, "Garden in the Rain" (Gibbons).

The London Palladium Orchestra, "Dawn" (Matt) (C1898).

7.0 : News, market reports and sports results.

7.40: Lecturette by a Representative of the Agricultural Department, "For the Man on the Land."

8.0 : Chimes. Selection—London Theatre Orchestra, "Lilac Time."

8.8 : Baritone—Mr. Walter Brough, (a) "A King's Man" (Hilliam); (b)

"I Did Not Know" (Trotter).

8.14: Suite—2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), "The Silent Mere."

8.22: Contralto—Miss Nora Greene, (a) "Flight of Ages" (Bevan); (b)

"Galway By the Sea" (Barclay).

8.28: Guitar duo—Berthold and Bent, (a) "Land of My Sunset Dreams"

(Kerr); (b) "Laughing Rag" (Watts).

8.35: Male choir—The Parlophone Variety Company, "An Imaginary Broadcast" (Parlo. A3141).

8.39: Air de ballet—2YA Salon Orchestra, (a) "La Coryphee" (Hosemer);

(b) "Guitarre" (Moszkowski).

8.51: Songs at the piano—Mr. Billy Hart, (a) "Yours and Mine" (Burke);

(b) "For You" (Dubin); (c) "Latest Popular Hit."

9.0 : Evening weather report and station notices.

9.2 : Cornet solo—John Robertson, "Debutante" (Reg. WAR495).

Cornet duet—Jack Mackintosh and John Robertson, "The Merry-

makers" (Hawkins) (Reg. MR312).

9.8 : Baritone—Mr. Walter Brough, (a) "Harlequin" (Sanderson); (b)

"That's All" (Brahe).

9.14: Descriptive—2YA Salon Orchestra, "Old London Bridge" (Brando).

9.23: Male choir—The Jolly Old Fellows, "Drinking Songs" Medley.

9.31: Guitar duo—Berthold and Bent, (a) "Wanganui Moon" (Mackenzie);

(b) "Hilo March" (Awai).

9.39: Contralto—Miss Nora Greene, (a) "An Old Garden" (Temple); (b)

"Ma Curly-Headed Baby" (Clutsam).

9.45: Accordion—Gellin and Borgstrom, (a) "Rio Negro" (Jaurez); (b)

"Darby and Joan" (Gilbert) (Poly. 22038).

9.51: Two favourite classics—2YA Salon Orchestra, (a) "Nocturnal Piece"

(Schumann); (b) "Minuet" (Beethoven); (c) "Latest Dance

Novelties."

10.2 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, SEPTEMBER 29.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, SEPTEMBER 29.

3.0 : Selected recordings.

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

6.0 : Dinner music session (Columbia)—

Herman Finck and His Orchestra, "Melodious Memories" (arr. Finck).

Jacques Jacobs Ensemble, "Wiener Blut" (Strauss) (02556).

J. H. Squire's Celeste Octet, "Twilight on the Waters" (Squire).

Bohemian Orchestra, "Love and Life in Vienna."

Regal Orchestra, "Pagliacci" Selection (Leoncavallo) (Reg. G30007).

Jacques Jacobs Ensemble, "Sobre Las Olas" (Rosas) (02556).

J. H. Squire's Celeste Octet, "The Piccaninies' Picnic" (Squire).

Court Symphony Orchestra, "The Windmill Man" (Col. 02909).

Plaza Theatre Orchestra, "The Three Bears" (Coats) (02744).

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

Bohemian Orchestra, "Destiny" Waltz (Baynes) (Reg. G20775).

7.0 : News session.

7.40: Talk, under auspices of the W.E.A.: W.E.A. Students, "Can the League of Nations Stop War?"

8.0 : Chimes. "A Night with the Scots."

Overture—New Queen's Hall Light Orchestra, "The Little Minister."

8.9 : Quartets—The Regal Four, "On Cessnock Banks" (Metcalfe).

Contralto—Miss Bertha Rawlinson, "Sleep'st Thou, or Wakest Thou?"

8.17: Pipe selections—Dunedin Highland Pipe Band, "Selections of Burns'

Melodies" (Burns).

8.27: Scots Humour—Mr. Bert Rawlinson, "Duncan Grey" (Burns).

8.30: Choral Medley—Mixed Chorus, "Songs of Scotland" (H.M.V. EB36).

Orchestral—Paul Godwin's Orchestra, "A Concert in the Forest."

8.37: Quartet—The Regal Four, "Ae Fond Kiss" (Roddie).

8.41: Pipe Selection—The Pipe Band, "Scots Airs" (trdtl.).

8.51: Tenor—Mr. W. McDonald, "Afton Water" (Ord Hume).

8.55: Violin—Miss Eva Judd, "Scottish Fantasia" (Mackenzie-Murdoch).

9.1 : Weather report and station notices.

9.3 : Talk—Mr. W. B. McEwan, Librarian Dunedin Public Library, "The Love Songs of Burns."

9.18: Duet—Miss B. Rawlinson and Mr. W. McDonald, "O, Wert Thou In The Cauld Blast" (Mendelssohn).

Tenor—Mr. A. Scott, "My Nannie's Awa."

9.24: Pipe selection—The Pipe Band, "National Tunes of Scotland" (trdtl.)

9.32: Baritone—Sir Harry Lauder, (a) "I Like My Old Home Town," (b) "The Boss of the Hoose" (Lauder) (Zono. G079).

9.38: Quartet—The Regal Four, "Ye Banks and Braes" (Roddie).

9.42: Violin—Miss Eva Judd, "Variations on a Scottish Theme" (trdtl.).

9.48: Contralto—Miss Bertha Rawlinson, "John Anderson" (Maxfield).

9.52: Pipe Selection—The Pipe Band, "Scots Dances" (trdtl.).

10.2 : God save the King.

Wednesday, September 30

1YA, AUCKLAND (875 KILOCYCLES)—WEDNESDAY, SEPTEMBER 30.

12.30: Relay of community singing from Auckland Town Hall.

3.0 : Selected recordings.

3.15: Literary selection.

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

6.0 : Dinner music session (Columbia)—

Milan Symphony Orchestra, "Masaniello" Overture (Auber) (DOX149).

Cordoba Philharmonic Orchestra, "La Habanera" (Lucena) (DOX77).

Herman Finck and His Orchestra, "Melodious Memories" (DOX154).

Sir Henry J. Wood's Symphony Orchestra, "Prelude in C Sharp Minor"

(Rachmaninoff, arr. Wood) (DOX83).

J. H. Squire Celeste Octet, "Memories of Chopin" (DOX113).

London Theatre Orchestra, "Frederica" Selection (Lehar) (DOX145).

Regal Cinema Orchestra, "Viennese Nights—Waltzes Selection."

Sir Henry J. Wood's Symphony Orchestra, "Volga Boat Song."

Cordoba Philharmonic Orchestra, "Carnival" (Lucena) (DOX77).

7.0 : News and market reports.

7.40: Talk—Superintendent W. L. Wilson, Auckland Fire Brigade, "Fire Prevention."

8.0 : Chimes. Special sea programme by 1YA Broadcasting Choir and Salon Orchestra.

Selection—Salon Orchestra (under Mr. Harold Baxter), "H.M.S. Pinafore" (Sullivan).

8.9 : Choral—1YA Broadcasting Choir (under Mr. Len Barnes) (a) "Rule, Britannia" (Arne); (b) "Hearts of Oak" (Boyce).

8.15: Baritone—Mr. B. M. Newling (with orchestral accompaniment); (a) "The Mighty Deep" (Jude); (b) "The Skipper" (Jude).

8.21: Selection—The Orchestra, "Life on the Ocean" (Binding).

8.26: Choral—The Choir, (a) "Tom Bowling" (Dibdin); (b) "A Life on the Ocean Wave" (Russell).

8.32: March—The Orchestra, "Middy March" (Alford).

8.37: Sketch—Members of choir, "Passengers" (Lucas): Characters: Olga White; Welford Polk—A Sportsman; Captain Stone—A Deep-sea Man.

8.47: Choral—The Choir, "The Bay of Biscay" (Davy); "The Arethusa."

8.53: Orchestral—The Orchestra, "Shiver My Timbers" (Smith); March—"On The Quarter Deck" (Alford).

9.1 : Evening weather forecast and announcements.

9.2 : A voyage in a sailing ship with "Lee Fore Brace" as master, introducing sea shanties sung by men of the choir.

9.55: Overture—The Orchestra, "Plymouth Hoe" (Ansell).

10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, SEPT. 30.

10.0 : Chimes. Selected recordings.

11.37: Lecturette—"Hollywood Affairs."

12.0 : Lunch-hour music.

2.0 : Selected recordings.

5.30 and 4.30: Sporting results.

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

6.0 : Dinner music session (Polydor)—

Dajos Bela Orchestra, "Fantasie Orientale" (Lange) (Parlo. A4003).

Illa Livschakoff's Orchestra, "Somewhere a Voice is Calling" (23648).

Paul Godwin's String Quartet, "A Fragile Spring has Blossomed Forth" (23374).

Paul Godwin's Orchestra, "Pritzel Dolls" (Rauls) (21712).

Bereny's Hungarian Gipsy Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (23691).

Great Symphony Orchestra, "Edmund Eysler's Operettas" Selection.

Illa Livschakoff's Orchestra, "Volga—Russian Medley" (23373).

The Pozniak Trio, "Three Miniatures—Elegie" (Juon) (62549).

Illa Livschakoff's Orchestra, "The Rosary" (Nevin) (23648).

Paul Godwin's Dance Orchestra, "Little Bird's Evening Song" (21013).

Edith Lorand's Orchestra, "After the Ball" (Waltz) (Harris) (Parlo.)

Bereny's Hungarian Gipsy Symphony Orchestra, "Original Hungarian Dance" (arr. Bereny) (23691).

Paul Godwin's Trio, "Largo" (Handel) (23374).

Illa Livschakoff's Orchestra, "Troika—Russian Medley" (23373).

Balalalka Orchestra, "Auf Dem Wege Nact Petersburg" (R40090).

7.0 : News, market reports and sports results.

8.0 : Chimes. Specially-recorded International Programme

Vitaphone Orchestra.

The Mirthquakers.

Weather report.

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

The Flying Song Squadron.

The Old Whittler.

Whispers.

God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, SEPT. 30.

3.0 : Gramophone recital.

4.25: Sports results.

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

6.0 : Dinner music session (H.M.V.)—

San Francisco Symphony Orchestra, "Coppelia Ballet—Automatons' Dance" (Delibes) (D1272).

Victoria Orchestra, "La Serenata" Waltz (Metra) (Zono. EF32).

John Barbirolli's Chamber Orchestra, "A Little Night Music" Serenade (Mozart) (C1655-6).

International Concert Orchestra, "Danube Waves" Waltz (Zono. EF3)

Marek Weber and His Orchestra, "La Tosca" Potpourri (C1413).

New Mayfair Orchestra, "Five O'Clock Girl" (Selection) (C1658).

San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler).

Victoria Orchestra, "Espanita" (Kosey) (Zono. EF32).

New Mayfair Orchestra, "Love Lies" Selection (C1658).

International Concert Orchestra, "Over the Waves" (Zono. EF3).

7.0 : News session.

7.30: Addition stock market report.

8.0 : Chimes. Overture—Chicago Symphony Orchestra, "Russian and Ludmilla" (Glinka) (H.M.V. D1808).

8.4 : Choral—Edgeware Concert Company, "By Babylon's Wave" (Gounod)

8.11: Piano duet—Misses T. Osborne and M. Turner, "Valse Brillante."

8.17: Orchestral—Studio Octet (Harold Beck, Conductor): (a) "Mazurka" (Saint-Saens); (b) "Fingal's Cave" Overture (Mendelssohn).

8.30: Trio (vocal)—Ladies' Trio, "Lighten Our Darkness" (Nichol).

Folk songs—The Company, (a) "The Poacher" (Percy Godfree); (b) "The Livelong Day" (Percy Godfree).

8.37: Orchestral—Studio Octet, (a) "Turkish March" (Beethoven); (b) "Andante" (Beethoven); (c) "In Autumn" (Macdowell).

8.45: Soprano—Mrs. E. Cameron, "Nightingale of June" (Sanderson).

8.49: Selection—Studio Octet, "La Boheme" (Puccini).

8.58: Baritone—Rev. E. B. Chambers, "Even Bravest Heart" (from "Faust").

9.2 : Evening weather forecast and station notices.

9.4 : Orchestral—Studio Octet, "Henry VIII. Dances" (German).

9.12: Soprano—Mrs. E. Cameron, with octet accompaniment, "A Blackbird Song" (Sanderson).

9.15: Choral—The Company, (a) "Santa Lucia"; (b) "To Alexis."

9.20: Orchestral—National Symphony Orchestra, "Sylvia Ballet" (Delibes)

9.24: Baritone—Rev. E. B. Chambers with octet accompaniment, "Vale."

Part-song—The Company, "As Torrents in Summer" (Elgar).

9.30: Dance music session—

Foxtrots—The Radlollites, "I'm Happy When You're Happy" (Baer) (Reg. G21042); The Rhythmic Eight, "Oh! Donna Clara" (Petersburski) (Zono. 5757); Victor Arden, Phil Ohman, and Their Orchestra, "The Sleepy Town Express" (Gillespie) (H.M.V. EA880);

Havana Novelty Orchestra, "Little Spanish Dancer" (EA859).

9.42: Waltzes—Paul Godwin's Dance Orchestra, "Don't Ask How, Don't Ask Where" (Heymann) (Poly. 23841); "Why Must I Just be the Stepchild of Luck?" (Kollo) (23843).

9.48: Foxtrots—Paul Godwin's Dance Orchestra, "Can You Be Happy with Moonshine Alone?" (Kollo) (23842); "Love Was Smuggled Into My House" (Heymann) (23841).

9.54: Vocal—Layton and Johnstone, "When Your Hair Has Turned to Silver" (Tobias) (Col. D0881).

9.57: Foxtrots—The Society Serenaders, "After Your Kiss" (Eliscu) (Reg. G20947); The Rhythmic Eight, "Living a Life of Dreams" (Cowan) (Zono. 5757); The Society Serenaders, "Soldier on a Shelf" (Reg.)

(Poly. 23878); Paul Godwin's Dance Orchestra, "It'll Be Sunshine To-morrow" (Melsel) (23886).

10.12: Foxtrots—Stellar Dance Band, "When It's Harvest-Time in Tennessee" (Lumsdaine) (Reg. G20934); Nat Shilkret and His Orchestra, "The Wedding of the Birds" (Tobias) (H.M.V. EA857); Stellar Dance Band, "Every Day is a Rainbow Day for Me" (Bradman) (Reg.).

10.21: Vocal—Marion Harris, "Would You Like to Take a Walk?" (Dixon).

10.24: Foxtrots—Leonard Joy's All String Orchestra, "On a Little Balcony in Spain" (Klein) (H.M.V. EA854); Gus Arnheim and His Coconut Grove Orchestra, "The Little Things in Life" (Berlin) (EA856); The Southerners, "Yours and Mine" (Nelson) (EA854); Wayne King and His Orchestra, "One Little Raindrop" (Richman).

10.36: Waltzes—Illa Livschakoff's Dance Orchestra, "When You Are in Love" (Groek) (Poly. 23978); Paul Godwin's Dance Orchestra, "Don't Leave Me" (Monosson) (Poly. 23886).

10.42: Foxtrots—Nat Shilkret and His Orchestra, "Baby's Birthday Party" (Ronell) (H.M.V. EA857); Gus Arnheim and His Coconut Grove Orchestra, "Them There Eyes" (Pinkard) (EA856).

10.48: Vocal—Layton and Johnstone, "Wedding Bells are Ringing for Sally."

10.51: Foxtrots—Wayne King and His Orchestra, "Dream a Little Dream of Me" (Kahn) (H.M.V. EA892); Rudy Vallee and His Connecticut Yankees, "Thinking of You, Dear" (Bronson) (H.M.V. EA855); Paul Godwin's Dance Orchestra, "I Am So Shy, Madam" (Poly.).

11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, SEPTEMBER 30.

3.0 : Selected recordings.

3.15: Talk—"Delicious Drinks Made in the Home." Talk by the Home Science Extension Department of Otago University.

5.0 : Children's hour, conducted by Big Brother Bill.

6.0 : Dinner music session (H.M.V.)—

Coldstream Guards Band, "Pique Dame" Overture (Suppe) (1594).

Marek Weber and His Orchestra, "Faust" Selection (Gounod) (1511).

Organ—Edward O'Henry, "Ca C'est Madrid" (O'Henry) (B3094).

Zonophone Salon Orchestra, "Love's Garden of Roses" (Haydn Wood).

Virinoso String Quartet, "Londonderry Air" (arr. Bridge) (C1470).

Paul Whiteman and His Concert Orchestra, "Suite of Serenades" (Herbert): (1) Spanish, (2) Chinese, (3) Cuban, (4) Oriental.

Coldstream Guards Band, "Morning, Noon, and Night in Vienna."

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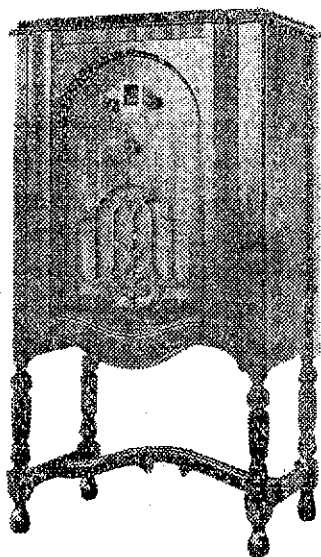
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- Ferdy Kauffmann and His Orchestra, "The Gipsy Baron" Selection.
Symphony Orchestra, (a) "Waltz of the Hours," (b) "Variations" from "Coppelia" (Delibes) (C1939).
Organ—Edward O'Henry, "Chant Sans Paroles" (Tschaiowsky).
Zonophone Salon Orchestra, "Mighty Lak' a Rose" (Zono. 5357).
Virtuoso String Quartet, "The Emperor Quartet" (Theme and Variations) (Haydn) (C1470).
- 7.0 : News session.
7.15: Dialogue—Messrs. E. Beatson and R. Fountain, "Herd Improvement."
8.0 : Chimes. Concert by Roslyn Presbyterian Church Choir under the conductorship of Mr. J. Paterson, L.A.B., assisted by an instrumental trio. Choir accompanist, Miss E. Williamson, L.A.B.
Selection—Dajos Bela Orchestra, "La Tosca" (Puccini) (Parlo. A4045)
8.9 : Part-song—The Choir, "The Hunting Chorus" from "Dorothy" (Collier)
Bass—Mr. H. McCullum, "Bill's Ghost" (Keel).
8.16: Piano—Mr. Gordon Findlay, (a) "Ballade in D Minor" (Brahms); (b) "Turkish March" (Beethoven).
8.22: Apache Dance and Intermezzo—Grand Symphony Orchestra, "The Jewels of the Madonna" (Wolf-Ferrari) (Parlo. A3173).
8.27: Part-song—The Choir, (a) "Killarney" (Balfe); (b) "Old Mother Hubbard" (Wheeler).
8.34: Trio—Misses Ethel Wallace, Baker, and Moffatt, "Grand Trio Concertante" (Volweller).
8.44: Soprano—Miss Jean Chisholm, "Whither" (Schubert).
Male quartet—The Orpheus Four, (a) "Slumber Blest" (Abt); (b) "Cornfield Melodies" (Gates).
8.54: Violin—Miss Ethel Wallace, "Hebrew Melody" (Achorn).
8.58: Bass-baritone—Mr. Jas. A. Paterson, "The King's Minstrel" (Pinsuti).
9.0 : Weather report and station notices.
9.6 : Chorus—The Choir, "Gloria" (Mozart).
Part-song—Ladies' Choir, "Because" (D'Hardelot).
9.12: Instrumental trio—Misses Wallace, Baker, and Moffatt: (a) "Serenade" (Widor); (b) "Pas des Amphores" (Chaminade).
9.22: Soprano—Miss Dorothy McKay, "The Spinning Wheel" (Lees).
9.25: Part-songs—The Choir, "The Stars That Above Us Shine" (Weber); "Laughing Chorus" (Root).
9.30: Dance music session (Parlophone)—
Foxtrots—Tom Rock and His Orchestra, "Truly I Love You" (Hirsch) (A3144); Sam Lanin and His Famous Players, "It's a Lonesome Old Town" (Tobias) (A3146); Ray Seeley and His Orchestra, "There's Something Missing in Your Eyes" (Gilbert) (A3144); Ed. Loyd and His Orchestra, "Walkin' My Baby Back Home." (A3117); Ray Seeley and His Orchestra, "You're the One I Care For" (Gray) (A3154); Ed. Loyd and His Orchestra, "I am the Words—You are the Melody" (De Sylva) (3117).
9.54: Vocal—John Warren, "I Miss a Little Miss" (Coots) (A3125).
9.57: Foxtrots—Sam Lanin and His Famous Players, "The One-Man Band" (Baxter) (A3160); Ed. Loyd and His Orchestra, "Sing-Song Girl" (Hanley) (A3154); The New York Syncopators, "The King's Horses" (Graham) (A3160).
10.6 : Waltzes—Pavilion Lescant Orchestra, "Drink, Brother, Drink" (Bendix) (A3150); The Orquesta Tipica Francisco Canaro, "Bells of Hawaii" (Heagney) (A3177).
10.12: Foxtrots—Ed. Loyd and His Orchestra, "Hullabaloo" (Dolen) (A3115); Hotel Pennsylvania Orchestra, "Sing Something Simple" (Hupfeld) (A3127); Ray Seeley and His Orchestra, "Hurt" (Solomon) (A3126); Hotel Pennsylvania Orchestra, "A Peach of a Pair." (A3126).
10.24: Vocal—Melville Gideon, "Lady, Play Your Mandoline" (Cesar).
10.27: Foxtrots—Sam Lanin and His Famous Players, "To-morrow is Another Day" (Green) (A3129); The New York Syncopators, "I'm So Afraid of You" (Kalmar) (A3145); "The Little Things in Life." (A3126).
10.36: Tango—Pavilion Lescant Orchestra, "Oh! Miss Greta" (Flossas).
10.39: Vocal—John Warren, "Heavenly Night" (Brown) (A3125).
10.42: Foxtrots—Russ Morgan and His Orchestra, "Little Sunshine" (Mitchell) (A3129); Ed. Loyd and His Orchestra, "Hello! Beautiful!" (A3126).
10.48: Waltz—Sam Lanin and His Famous Players, "Tears" (Capano).
10.51: Foxtrots—Sam Lanin and His Orchestra, "Crying Myself to Sleep" (Wendling) (A3147); "When You Were the Blossom of Buttercup Lane" (Dubin) (A3153).
Waltz—Fred Rich and His Orchestra, "When Your Hair Has Turned to Silver" (Tobias) (A3159).
11.0 : God save the King.
- 2YA, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, SEPT. 30.
6.30 to 7.30 p.m.: Children's session.
7.30 to 8 p.m.: Sports talks.
- Edith Lorand Orchestra, "Minuet" (Boccherini) (A4108).
Orchestra Mascotte with Edith Lorand, "I'd Like To Kiss The Ladies." Grand Symphony Orchestra, "Naila—Ballet Intermezzo." Edith Lorand Orchestra, "Toreador and Andalous" (Rubinstein). Pavilion Lescant Orchestra, "Drink, Brother, Drink" Waltz (Bendix). Grand Symphony Orchestra, "Lustspiel Overture" (Kela Bela). Ernest Leggett London Octet, "Operatic Fantasia" (arr. Aldington). Opera Comique Orchestra, "Scenes Pittoresque" March and Fete Boheme (Massenet) (A4057). Grand Symphony Orchestra, "Suite Orientale" (Popy), (a) The Bajaderes; (2) On the Shores of the Ganges; (3) The Patrol; (4) The Dancers (A4155/6). Pavilion Lescant Orchestra, "Oh! Miss Greta" (Flossas) (A3150). Orchestral Mascotte with Edith Lorand, "Siren Magic" (Waldteufel).
7.0 : News and market reports.
7.40: Talk (under the auspices of the N.Z. Manufacturers' Association)—"Brushes and Brooms."
8.0 : Chimes. Relay from the Auckland Town Hall of the Aeolian Orchestra's Concert. Conductor, Mr. Gerald T. Lee. The programme will include:—
March—The Orchestra, "Gladiator's Farewell" (Blankenburg).
Overture—The Orchestra, "Occasional" (Handel).
Lyric soprano—Miss Patricia McLeod, "Charmant Oiseau" from "Pearl of Brazil" (David).
String piece—The Orchestra, "Two Gavottes" (Bach).
Piano—Miss Edna Tye, "Ballade in G Minor" (Chopin).
Concert Valse—The Orchestra, "Flirtation" (Steck).
Bass-baritone—Mr. Frank Sutherland, "Captain Harry Morgan." Selection—The Orchestra, "Show Boat" (Kern).
March—The Orchestra, "March in Scipio" (Handel).
Overture—The Orchestra, "The Bronze Horse" (Auber).
Lyric soprano—Miss Patricia McLeod, "Spring" (Henschel).
Bells solo—Mr. William Debenham, "Bells Across the Meadow." Bass-baritone—Mr. Frank Sutherland, "Boots" (McCall).
Song transcription—The orchestra, "The Rosary" (Nevin-Lotter).
March—The Orchestra, "Marche Militaire" (Schubert).
9.45: Dance programme (Panachord)—
Foxtrots—Benny Goodman and His Orchestra, "We Can Live On Love" (Golden) (P12120); "And Then Your Lips Met Mine" (Nelson) (P12023); "If You Haven't Got a Girl" (Davis) (P12079).
9.58: Waltzes—Mark Fisher's Orchestra, "Beautiful Love" (Gillespie) (P12146)—Jack Richard and His Miami Orchestra, "Gazing at the Stars" (Crawford) (P12101).
9.59: Foxtrots—Sleepy Hall and His Collegians, "The Song of the Fool" (Lewis) (P12023); Ed. Loyd and His Orchestra, "Whistling in the Dark" (Moretz) (P12146).
10.5 : Vocal—Norman Allin, "Off to Philadelphia" (Temple) (Col. 01590).
10.8 : Foxtrots—Spec Mason's Orchestra, "Thank Your Father" (de Sylva) (P11988); Mark Fisher's Orchestra, "Three Little Words" (Kalmar) (P12002); The Captivators, "We're Friends Again" (Turk).
10.17: Tangos—Ilya Livschakoff and His Dance Orchestra, "In a Little Summer House" (Egen) (Poly. 23906); Paul Godwin Dance Orchestra, "Fair-Haired Clare" (Flossas) (23945).
10.28: Foxtrots—Will Osborne and His Orchestra, "That Little Boy of Mine" (King) (P12118); "By My Side" (Link) (P12101); Spec Mason's Orchestra, "Without Love" (de Sylva) (P11988).
10.32: Vocal—Queenie and David Kaili, "When Your Hair Has Turned to Silver" (Tobias) (Parlo. A3210).
10.35: Waltz—Mark Fisher and His Orchestra, "For You" (Dubin).
Foxtrots—Benny Goodman and His Orchestra, "Mine Yesterday—His To-day" (Lewis) (P12100); Will Osborne and His Orchestra, "Say a Little Prayer For Me" (Nichols) (P12118); Will Osborne and His Orchestra, "Heartaches" (Klenner) (P12077).
10.47: Tangos—Paul Godwin Dance Orchestra, "It's You My Lady I Adore" (Grothe) (Poly. 23945); Ilya Livschakoff Dance Orchestra, "Why Are Your Eyes Bedewed With Tears?" (Rosen) (23906).
Foxtrots—Will Osborne and His Orchestra, "A Tear Was Born" (Deniker) (P12087); Sleepy Hall and His Collegians, "I Hate Myself."
11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, OCTOBER 1.

- 10.0 : Chimes. Selected recordings.
10.45: Lecturette—"Cooking."
11.37: Lecturette—"Care of Children's Skins and Hair"—under the auspices of the Health Department.
12.0 : Lunch hour music.
2.0 : Selected recordings.
3.15: Lecturette—"Good Meal Planning on an Average Income." Miss I. F. Meadows. Talk prepared by the Home Science Extension Department of the Otago University.
3.30 and 4.30: Sporting results to hand.
5.0 : Children's hour, conducted by Uncle George and Big Brother Jack
6.0 : Dinner music session (Parlophone)—
The Parlophone Salon Orchestra, "A Lover in Damascus."
Berlin State Opera Orchestra, "Slavonic Dances, Nos. 1 and 2."
Edith Lorand's Orchestra, "Whispering of the Flowers" (Von Blon).
H.M. Irish Guards Band, "The Desert Song" (Romberg) (A2433).
Edith Lorand's Orchestra, "Hedgeroses" (Lehar) (A4206); "Johann Strauss Fantasia" (Strauss). (A4044).
Barnabas von Gecky and His Orchestra, "The Student Prince" Fantasia (Romberg) (A4208).

Thursday, October 1

1YA, AUCKLAND (875 KILOCYCLES)—THURSDAY, OCTOBER 1.

- 8.0 : Chimes. Selected recordings.
3.15: Talk—Arranged by Home Science Department of Otago University, "Good Meal Planning on an Average Income."
5.0 : Children's session, conducted by Skipper.
6.0 : Dinner music session (Parlophone)—
Berlin State Opera House Orchestra, "The Barber of Seville" Overture.

- Edith Lorand's Orchestra, "Winter Storms" Waltz (Fucik) (A4143);
 "O Maiden, My Maiden" (Lehar) (A4206).
 Grand Symphony Orchestra, "Dance of the Waves" (Catalani).
 7.0 : News, market reports and sports results.
 7.40 : Lecturette—Mr. J. W. Fergie, "The Romance of the Main Trunk Railway."
 8.0 : Chimes. Overture—Grand Symphony Orchestra, "Der Freischütz."
 8.8 : Quartet—Waiata Quartet, (a) "Sweet and Low" (Baraby); (b) "Irish Melody" (Forsyth).
 8.14 : Selection—2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), "Sander's Songs" (arr. Higgs).
 8.24 : Baritone—Mr. Val Jones, (a) "The Blue Dragoon" (Russell); (b) "O Flower Divine" (Wood).
 8.30 : Mandolin and guitar quartet—The Neapolitans, (a) "Academy Waltz" (Foden); (b) "Sweet Jennie Lee" (Donaldson).
 8.38 : Contralto—Miss Mollie Fenton, "O! Could I But Express in Song" (Malashkin); "I Dream of a Garden of Sunshine" (Lohr).
 8.44 : Descriptive—2YA Salon Orchestra, "A Round of Country Dance Tunes" (Berliner); Selection, "Bric a Brac" (Novello).
 8.56 : Vocal duet—Mrs. Ramsay and Miss Lalla Vondersloot, "Neapolitan Boat Song" (Denza).
 9.0 : Evening weather report and station notices.
 9.2 : Piano—Ignace Hilsberg, (a) "Aufschwung" (Schumann); (b) "Cracovienne Fantastique" (Paderewski) (Bruns. 4931).
 9.8 : Quartet—The Waiata, "The Birth of the Flowers" (Lehmann).
 9.12 : Instrumental—2YA Salon Orchestra, "Mosquito Ballet" (Cortely).
 9.20 : Baritone—Mr. Val Jones, "It's Only a Tiny Garden" (Lohr).
 9.24 : Mandolin and guitar quartet—The Neapolitans, "Buddies' March" (Lange); "Hawaiian Memories" (Heagney).
 9.32 : Soprano—Miss Nora Gray, (a) "The Wind" (Spross); (b) "Robin, Robin, Sing Me a Song" (Spross).
 9.38 : String quartet—Virtuoso String Quartet, (a) "Serenade" (Haydn); (b) "Widdicombe Fair" (Harrison) (H.M.V. B3137).
 9.44 : Quartet—The Waiata, "Homing" (Del Riego).
 9.48 : Novelty—2YA Salon Orchestra, "Fireflies" (Savino); "Dance Novelities."
 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, OCTOBER 1.

- 3.0 : Gramophone recital.
 3.15 : Home science—"Good Meal Planning on an Average Income." Talk prepared by the Home Science Extension Service of Otago University.
 4.25 : Sports results.
 5.0 : Children's hour, conducted by Ladybird and Uncle Frank.
 6.0 : Dinner music session (Polydor)—
 Berlin Philharmonic Orchestra, "Torch Dance B Flat Major."
 Ilja Livschakoff and His Orchestra, "Aubade" (Livschakoff) (23048).
 Paul Godwin's Orchestra, "Evening Chimes" (Marzian) (23168).
 Vienna Schrammel Quartet, "Some Day" (from "Maretta") (Strauss).
 Efm Schachmeister's Dance Orchestra, "Casanova, I Love You" Tango.
 Ilja Livschakoff and His Orchestra, "Little Serenata" (Grunfeld) (23048); "Who Has Filled Our Heart With Love" (Lehar) (22855).
 Paul Godwin's Orchestra, "The Mask Seller" (Wolff) (22893).
 Vienna Schrammel Quartet, "Spin, Spin" (Lochmann) (21915).
 Symphony Orchestra, "Il Guarany" Introduction (Gomes) (P60006).
 Paul Godwin's Orchestra, "Song of the Desert" (Delhaes) (22893); "Tonerna" (Sjoberg) (23168).
 Efm Schachmeister's Dance Orchestra, "At the Fireside" (21181).
 Paul Godwin's Jazz Symphonians, "Butterfly, Sweet Little Lady."
 Ilja Livschakoff and His Orchestra, "All My Heart Belongs to You."
 7.0 : News session.
 7.30 : Review of the Journal of Agriculture.
 8.0 : Chimes. Specially Recorded International Programme.
 Dr. Eugene Ormandy and His Salon Orchestra.
 International Singers.
 Abroad with the Lockharts.
 Weather forecast and station notices.
 (International talk—Mr. Geo. Lawn, M.A., "Russia To-day" (second of series).
 Ambassadors of Melodyland.
 Hywide and Handsome.
 Nat Brusiloff and His Lido Venice Orchestra.
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, OCTOBER 1.

SILENT DAY.

Friday, October 2

1YA, AUCKLAND (875 KILOCYCLES)—FRIDAY, OCTOBER 2.

- 3.0 : Chimes. Selected recordings.
 3.15 : Literary selection.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner music session (H.M.V.)—
 Royal Opera Orchestra, "Sylvia" Ballet, Pizzicato and Procession of Bacchus (Delibes) (C1418).

- Marek Weber's Orchestra, "Coeur Brise" (Gillet) (B3026).
 Organ—Charles W. Saxby, "Les Millions D'Arlequin" Serenade.
 Mandoline Concert Society, "Echoes of the Volga" (Ritter) (C1936).
 Marek Weber and His Orchestra, "The Beggar Student" (Millocker).
 H.M. Coldstream Guards Band, "Faust" Selection (Gounod) (C1877).
 The London Orchestra, "Valse Memories" (arr. Somers) (Zono. 5257).
 Organ—Chas. W. Saxby, (a) "Spring Song"; (b) "Bees' Wedding."
 Marek Weber and His Orchestra, "Mennett No. 1" (Paderewski).
 Piccadilly Orchestra, "The Waltz Dream" (Strauss) (B2684).
 7.0 : News and market reports.
 7.40 : Sports talk.
 8.0 : Chimes. Selection—London Theatre Orchestra, "A Country Girl."
 8.9 : Tenor—Mr. Leslie Belcher, with orchestral accompaniment, (a) "Come into the Garden Maud" (Balfe); (b) "I'll Sing Thee Songs of Araby" (Clay).
 8.15 : Patrol—Salon Orchestra (under direction of Harold Baxter), "Canadian Patrol"; Ballet, "Punch and Judy" (O'Neill).
 8.27 : Mezzo-soprano—Miss Thelma Duffin, (a) "On Wings of Delight" (Brewer); (b) "It is Not Because Your Heart is Mine" (Lohr).
 8.33 : Male choir—Westminster Glee Singers, "Sally in Our Alley."
 8.36 : Sketch—Salon Orchestra, "A Southern Wedding" (Lotter); "In a Persian Market" (Ketelbey); "Petite Rhapsodie Russe" (Olsen).
 8.52 : Monologue—William McCulloch, "The Presentation of Prizes."
 9.0 : Evening weather forecast and announcements.
 9.2 : Accordion—Jean Vaissade, (a) "Couscous" (Latoire); (b) "The Secret of a Night" (Vaissade) (Poly. 23616).
 9.8 : Tenor—Mr. Leslie Belcher, (a) "Mary" (Richardson); (b) "If You Would Love Me" (MacDermid).
 9.14 : Waltz song—Salon Orchestra, "Wanganui Moon" (MacKenzie); Selection, "South American Gems" (Schmidt).
 9.22 : Humour—Miss Marian Irving, (a) "The Egg"; (b) "Mrs. Smythe-Browne Buys a Book" (Constanduros).
 9.33 : Male choir—Westminster Glee Singers, "Annie Laurie" (Scott).
 9.36 : Morceau—Salon Orchestra, "La Cinquantaine" (Marie); Waltz, "April Birds" (Ancliffe).
 9.44 : Mezzo-soprano—Miss Thelma Duffin, (a) "Come, For It's June" (Forsater); (b) "Happy Song" (Del Riego).
 9.50 : Selection—Salon Orchestra, "Popular Songs" (Stoddon); March, "Viscount Nelson" (Zehle).
 10.2 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, OCTOBER 2.

- 10.0 : Chimes. Selected recordings.
 11.12 : Lecturette—"Fashions."
 12.0 : Lunch hour music.
 2.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Uncle Jim.
 6.0 : Dinner music session (Columbia)—
 Willem Mengelberg and His Concertgebouw Orchestra, "Oberon" Overture (Weber) (04847/8).
 The International Concert Orchestra, "Luna" Waltz (Lincke).
 J. H. Squire's Celeste Octet, "Peter Pan" Selection (Crook) (02910).
 The International Concert Orchestra, "Love and Spring" Waltz.
 New Queen's Hall Light Orchestra, "The Little Minister" Overture.
 Bournemouth Municipal Orchestra, "Marriage of Figaro" (Mozart).
 The International Concert Orchestra "Just a Kiss" (Kasik).
 J. H. Squire's Chamber Orchestra, "L'Arlesienne Suite" (Bizet), (a) Minuet; (b) Intermezzo (02984).
 Willem Mengelberg and His Concertgebouw Orchestra, "Slavonic Dance in G Minor" (Dvorak) (04348).
 Bournemouth Municipal Orchestra, "Don Giovanni—Act 1—Minuet."
 International Concert Orchestra, "Spring, Beautiful Spring" (Lincke).
 7.0 : News, market reports and sports results.
 8.0 : Chimes. Overture—2YA Orchestra, "Zampa" (Herold).
 8.9 : Baritone—Mr. Claude C. Moss, Two Mexican Love Songs (Woodforde-Finden): (a) "Flower Of My Heart"; (b) "Serenade."
 8.15 : Novelty—Collinson and Lees, (a) "Hello Beautiful" (Donaldson), (b) "Say a Little Prayer For Me" (Nicholls), (c) "When I Take My Sugar To Tea" (Fain).
 8.22 : Soprano—Miss Ena Rapley, with orchestral accompaniment, (a) "Under The Deodar" (Monckton), (b) "My Crinoline."
 8.28 : Humour—Mr. Will McKeon, "The Coster's Wedding."
 8.33 : Selection—2YA Orchestra, "Geisha" (Jones).
 8.43 : Soprano and tenor—Miss Ena Rapley and Mr. Edwin Dennis, "Summit of the Hill" (Phillips).
 8.47 : Novelty—Collinson and Lees, (a) "Three Little Words" (Ruby); (b) "On a Little Balcony in Spain" (Klein); (c) "Kitty From Kansas City" (Rose).
 8.54 : Baritone—Mr. Claude C. Moss, two Maori songs (Te Rangi Pai): (a) "Hine E Hine," (b) "E Rere Ra Te Manu."
 9.0 : Evening weather report and station notices.
 9.2 : Waltz—2YA Orchestra, "Wine, Women and Song" (Strauss).
 9.8 : Soprano and tenor—Miss Ena Rapley and Mr. Edwin Dennis, "Quarrelling" (Monckton).
 9.12 : Humour—Mr. Will McKeon, "On Strike" (Pond).
 9.17 : Tenor—Mr. Edwin Dennis, with orchestral accompaniment, (a) "Like Stars Above" (Squire), (b) "A Song of Thanksgiving" (Allitsen).
 9.23 : Fantasia—2YA Orchestra, "Faust Frivolities" (arr. Black).
 9.30 : Dance programme (Brunswick).—

- Foxtrots—Ben Bernie and His Orchestra, "To Whom It May Concern" (Mitchell) (6008); Ozzie Nelson and His Orchestra, "Fall In Love With Me" (Tobias) (6018); Ben Bernie and His Orchestra, "Crying Myself to Sleep" (Klenner) (6008).
 9.39: Waltz—Pavillon Lescaut Orchestra, "Listening To The Violin." Foxtrots—Jacques Renard and His Orchestra, "Under the Spell of Your Kiss" (Jasmyn) (4995); Bud Blue and His Orchestra, "Someone Sang a Sweeter Song to Mary" (Shand) (Parlo. A3103).
 9.48: Vocal—Chester Gaylord, "Would You Like to Take a Walk?" (Dixon).
 9.51: Foxtrots—Loring "Red" Nichols and His Orchestra, "Blue Again" (Fields) (6014); Jacques Renard and His Orchestra, "We're Friends Again" (Turk) (4994); Bud Blue and His Orchestra, "I'll Be Blue Just Thinking of You" (Wendling) (Parlo. A3103).
 10.0: Tangos—Juan Llossas Orchestra, "One Look Into Your Eyes" (Gynla) (Poly. 22884); Marimba Original Excelsior de Guatemala, "Padre Nuestro" (Joves) (Poly. 21908).
 Waltz—Regent Club Orchestra, "For You" (Dubin) (4990).
 10.9: Vocal—Chester Gaylord, "It Must Be True" (Arnheim) (6030).
 10.12: Foxtrots—Ozzie Nelson and His Orchestra, "Truly" (Hirsch) (6018); Jacques Renard and His Orchestra, "He's My Secret Passion." Waltzes—Nick Lucas and His Crooning Troubadours, "Say Hello to the Folks Back Home" (Davis) (6013); Regent Club Orchestra, "Don't Forget Me In Your Dreams" (Leslie) (4990).
 10.24: Twosteps—Juan Llossas Orchestra, "My Spain" (Marquina) (Poly. 22834); Marimba Original Excelsior de Guatemala, "Joselillo" (Marin); Juan Llossas Orchestra, "Andalusian National Character" (22834).
 10.33: Vocal—Chester Gaylord, "Cheerful Little Earful" (Gershwin) (6028).
 10.36: Foxtrots—Nick Lucas and His Crooning Troubadours, "Lady Play Your Mandolin" (Caesar) (6013); Loring "Red" Nichols and His Orchestra, "When Kentucky Bids The World Good Morning" (Leslie) (6014); Jacques Renard and His Orchestra, "Little Spanish Dancer" (Seymour) (4995).
 10.45: Tangos—Juan Llossas Orchestra, "Pretty Gigolo" (Casucci) (Poly. 22884); Marimba Original Excelsior de Guatemala, "Fumando Espero" (Villadomat) (21906).
 10.51: Foxtrots—Dick Robertson's Orchestra, "Would You Like to Take a Walk?" (Warren) (Pana. P12082); Pavillon Lescaut Orchestra, "The Dancing Tailor" (Karl M. May); Stellar Dance Band, "Strolling Thro' the Tulips" (O'Hagan) (Reg. G20879).
 11.0: God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—FRIDAY, OCTOBER 2.

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, conducted by Aunt Pat and Chuckle.
 6.0: Dinner music session (Brunswick)—
 Minneapolis Symphony Orchestra, "March Militaire" (Schubert).
 A. and P. Gipsies Orchestra, "The Far-Away Bells" (Gordon) (4442).
 Brunswick Salon Orchestra, "Little Grey Home in the West" (Lohr).
 Peter Biljo's Balalaika Orchestra, "Blowing Winds" (57005).
 Minneapolis Symphony Orchestra, "Coppelia Ballet"—Prelude and Mazurka (Delibes) (50087).
 Anglo-Persians' Orchestra, "My Little Persian Rose" (Friedland).
 New York Philharmonic Orchestra, "Artist's Life" Waltz (Strauss).
 A. and P. Gipsies Orchestra, "Bohemian Romance" (4903).
 Organ—Lew White, "Down South" (Myddleton) (4889).
 Minneapolis Symphony Orchestra, "Prelude to Khowantchina" (50153).
 A. and P. Gipsies Orchestra, "Simple Confession" (Thome) (4442).
 Cleveland Symphony Orchestra, "Shepherd's Hey"—a Morris Dance.
 New York Philharmonic Orchestra, "Tales from the Vienna Woods."
 Peter Biljo's Balalaika Orchestra, "The Wide Dnipter" (57003).
 A. and P. Gipsies Orchestra, "My Memories" (4903).
 Minneapolis Symphony Orchestra, "Dernier Sommeil de la Vierge."
 7.0: News session.
 7.30: Talk—Mr. D. E. Parton, "Pioneers of Radio."
 8.0: Chimes. Programme by Christchurch Optimists' Club.
 Overture—Herman Finck and His Orchestra, "Melodious Memories."
 8.8: Song and chorus—Christchurch Optimists' Club, "The Vagabond" (Eric Randolph); chorus, "Aloha Oe" (Liliuokalani).
 8.14: Steel guitars and ukulele—Messrs. Neil Harris, Harold Jennings, and Miss Enid Robertson, (a) "High School Gang"; (b) "Mai Poina"; (c) "Oe Ian" (Hicks).
 8.20: Chorus—Optimists, "Crow Song."
 Soprano—Miss Marjorie Nelson, "Pale Moon" (Logan).
 8.26: Banjo—Mr. A. R. Woodward, "Shufflin' Pete" (Vess Ossman).
 8.30: Tenor—Mr. James Shaw, "Son o' Mine" (from "Freebooters' Songs").
 8.35: Recitation—Mr. J. P. Lester, "Good-bye! God Bless You" (Field).
 8.37: Selection—Bohemian Orchestra, "The Waltz Dream" (Strauss) (Reg.).
 8.43: Baritone—Mr. W. Spratt, "Tally Ho!" (Leon).
 8.46: Banjo and banjolele—Misses E. Churchill, V. Billins, and M. and L. Straw, "Hawaiian Melodies" (arr. Bloy).
 8.51: Quartet—Beckenham Four, "Doan Ye Cry, Ma Honey" (Noll).
 8.54: Selection—Albert W. Ketelbey's Orchestra, "Wedgwood Blue" (Col.).
 8.58: Choruses—Optimists, (a) "Carry Me Back to Old Virginny" (Bland); (b) "My Grandfather's Clock" (Work).
 9.4: Weather forecast and station notices.
 9.6: Medley—Paul Godwin's Dance Orchestra, "Popular Student Songs."
 9.12: Soprano—Miss Marjorie Nelson, "A Little Coon's Prayer."

- 9.15: Steel guitars and ukulele—The Trio, (a) "Teresita Waltz"; (b) "Aekai" (Kail).
 9.21: Vocal duet—Messrs. Jas. Shaw and W. J. Spratt, "Flow Gently, Deva."
 9.25: Trombone—Mr. R. G. Frew, "Switchback" (Sutton).
 9.30: Selection—Orchestra Mascotte with Dajos Bela, "The Faithful Hussar"
 9.33: Quartet—Beckenham Four, "Cause I'd Nothing Else to do" (Parks).
 9.36: Banjo and banjolele—The Trio, "Anchor's Aweigh" (Zimmerman).
 9.41: Baritone—Mr. W. J. Spratt, "The Sailors' Paradise" (Richards).
 9.44: Recitation—Mr. J. R. Lester, "The Fact Is—" (Jordan).
 9.47: Choruses—Optimists, (a) "Oh, Dem Golden Slippers" (Bland); (b) "Drink to Me Only" (trdli.); (c) "My Old Kentucky Home."
 9.56: Patrol—The Band of H.M. Coldstream Guards, "Britain's First Line."
 10.2: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, OCTOBER 2.

- 3.0: Selected recordings.
 5.0: Children's hour, conducted by Aunt Sheila.
 6.0: Dinner music session (Polydor)—
 Symphony Orchestra, "Frederick" Medley (Lehar) (27070).
 Polydor String Orchestra, "In Indra's Land" (Lincke) (19677).
 State Opera Orchestra, Berlin, "La Dame Blanche" (Boieldieu).
 Symphony Orchestra, "Eva" Medley (Lehar) (27013).
 Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger) (19749).
 State Opera Orchestra, Berlin, "German Dances" (Schubert) (66453).
 Paul Godwin's Orchestra, "Potpourri of German Folk Songs."
 7.0: News session.
 7.40: Talk—Superintendent J. J. Salmon, of Dunedin Fire Brigade, "Fire Prevention."
 8.0: Chimes. Selection—The Court Symphony Orchestra, "The Three Musketeers" (Friml) (Col. DOX197).
 8.9: Mezzo-soprano—Miss Betty Hamilton, (a) "Chinese Mandarin" (Phillips), (b) "Five Little Piccaninnies" (Anthony).
 8.16: Humour—Mr. A. Gorrie, "Mr. Barker's Picture" (Max Adler).
 8.22: Accordion—Mr. J. Dalbiano, "Waltz Medley" (arr. Dalbiano).
 8.27: Baritone—Mr. A. Snell, "Lackaday" (Crampton).
 8.31: Choral Medley—Parlophone Musical Comedy Company, "Viennese Nights" (Parlo. A3134).
 8.34: Clarinet—Mr. T. Curreri, "La Sonnambula" (Bellini).
 8.39: Mezzo-contralto—Mrs. W. Carson, (a) "Flight of Ages" (Weatherley), (b) "Nightfall at Sea" (Montague-Phillips).
 8.45: Orchestral—Winter Garden Orchestra, "Thunder and Lightning."
 8.48: Xylophone—Mr. Hugh Dalziel, (a) "Stars and Stripes Forever" (Sousa), (b) "Black and White Rag" (Confrey).
 8.54: Tenor—Mr. W. N. Satterthwaite, "I'll Sing Thee Songs of Araby."
 8.57: Banjo—Mr. H. Oliver Stokes, "Souvenir" (Drdla).
 9.0: Weather report and station notices.
 9.2: Selection—Jack Hylton and His Orchestra, "Boosey Ballads."
 9.10: Mezzo-contralto—Mrs. W. Carson, "Summer Night" (Thomas).
 9.14: Humour—Mr. A. Gorrie, "My Brother Henry" (Sir James Barrie).
 9.20: Xylophone—Mr. Hugh Dalziel, (a) "Russian Rag" (Cobbe), (b) "Red Hot and Blue Rhythm" (Davis).
 9.26: Baritone—Mr. A. Snell, (a) "Bonnie Mary of Argyle" (Nelson), (b) "Standard on the Braes o' Mar" (Dewar).
 9.32: Male Quartet—Kedroff Male Quartet, "A Life For The Czar" Introduction (Glinka) (Col. 01034).
 9.35: Clarinet—Mr. T. Curreri, "Lucia Di Lammermoor" (Donizetti).
 9.40: Mezzo-soprano—Miss Betty Hamilton, "Dream Enthralling" (from "Lilac Time") (Schubert).
 9.43: Accordion—Mr. J. Dalbiano, "March Medley" (arr. Dalbiano).
 9.48: Tenor—Mr. W. N. Satterthwaite, (a) "My Love Is Like a Red Red Rose" (Richardson), (b) "Annie Laurie" (Scott).
 9.54: Banjo—Mr. H. Oliver Stokes, (a) "Handy Jack," (b) "To The Front."
 9.59: Selection—H.M. Coldstream Guards Band, "Pirates of Penzance."
 10.3: God save the King.

Saturday, October 3

1YA, AUCKLAND (875 KILOCYCLES)—SATURDAY, OCTOBER 3.

- 12.0: Relay of results of the first day of the Auckland Racing Club's Spring meeting, interspersed with selected studio items.
 5.0: Children's session, conducted by Cinderella.
 6.0: Dinner music session (Columbia)—
 Albert Sandler and His Orchestra, "For You Alone" (Geehl) (01912).
 J. H. Squire's Celeste Octet, "Hungarian Dance in A Minor" (01751).
 Milan Symphony Orchestra, "Semiramide" Overture (Rossini).
 Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures."
 Bournemouth Municipal Orchestra, "The Merry Brothers" (02930).
 Eddie Thomas's Collegians, "The Missouri Waltz" (Logan) (02553).
 Gil Dech Ensemble, "Valse Parisienne" (Roberts, arr. Barry) (01923).
 Debroy Somers Band, "Mister Cinders" Selection (Ellis and Myers).
 J. H. Squire's Celeste Octet, "Minuet in D" (Mozart, arr. Willoughby).
 Organ—Emil Velazco, "Estrellita" (Ponce) (01795).
 Albert Sandler and His Orchestra, "Salut d'Amour" (Elgar) (01912).
 J. H. Squire's Celeste Octet, "Hungarian Dance in D" (Brahms).
 Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey) (DOX21).
 Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
 Gil Dech Ensemble, "Italian Nights" (Roberts) (01923).
 7.0: News and market reports.

7.40: Talk (under the auspices of the Auckland Horticultural Society in conjunction with the New Zealand Institute of Horticulture)—“Seasonal Operations,” by Mr. W. H. Rice.

8.0: Chimes. Studio concert by the Auckland Municipal Band, under the conductorship of Mr. George Buckley.

March—Band, “The Third Battalion” (Egerton); overture, “Opera Bouffe” (Finck).

Cornet duet—Messrs. Fred Bowes and J. Davies, “Ida and Dot.”

Selection—The Band, “Reminiscences of Beethoven” (Godfrey).

Xylophone—Mr. R. Jackson, “Orchid Blossoms” (Underhill).

Descriptive intermezzo—The Band, “From a Russian Village.”

Euphonium—Mr. J. Purchase, “Sehnsucht” (Hartman).

Selection—The Band, “Old Folks at Home” and “In Foreign Lands.”

Piccolo—Mr. Hal C. McLennan, “Souvenir de Liege” (Gemin).

Russian Waltz—The Band, “Petrograd” (Michel); march, “The Champion” (Graham).

10.0: Programme of dance music (Brunswick)—

Foxtrots—Jacques Renard and His Orchestra, “He’s My Secret Passion” (Valentine) (4978); Ben Bernie and His Orchestra, “One Little Raindrop” (Richman) (8062); Hal Kemp and His Orchestra, “Would You Like to Take a Walk?” (Dixon) (6048).

10.9: Waltz—Regent Club Orchestra, “Broken-Hearted” (Kenny) (6062).

Foxtrots—Tom Gerun and His Orchestra, “Cheerful Little Earful”; Emil Coleman and His Orchestra, “Isabel” (Caesar) (41286); “Overnight” (Rose) (4971).

10.21: Vocal—Bing Crosby, “Out of Nowhere” (Heyman) (6089).

10.24: Foxtrots—Ozzie Nelson and His Orchestra, “Do I Really Deserve It From You?” (Clare) (6060); Emil Coleman and His Orchestra, “Oh, Donna Clara” (Caesar) (41286); Ozzie Nelson and His Orchestra, “Dream a Little Dream of Me” (Kahn) (6060).

10.33: Waltzes—Jacques Renard and His Orchestra, “Reaching for the Moon” (Berlin) (6021); Emil Coleman and His Orchestra, “Heavenly Night” (Eliscu) (6037).

10.39: Foxtrots—Loring “Red” Nichols and His Orchestra, “Were You Sincere?” (Meskill) (6070); Noble Sissle and His Orchestra, “Got the Bench—Got the Park” (Lewis) (6077); Loring “Red” Nichols and His Orchestra, “Teardrops and Kisses” (Kenny) (6070).

10.48: Vocal—Bing Crosby, “If You Should Ever Need Me” (Dubin) (6090).

10.51: Foxtrots—Ben Bernie and His Orchestra, “One More Time” (De Sylva) (6063); Jacques Renard and His Orchestra, “With All My Heart” (Ford); Ben Bernie and His Orchestra, “When Your Lover Has Gone” (Swan) (6063).

11.0: Sports summary.

11.10: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, OCTOBER 3.

3.0: Chimes. Selected recordings.

3.30 and 4.30: Sporting results.

5.0: Children’s hour, conducted by Aunt Molly.

6.0: Dinner music session (Polydor)—

Paul Godwin’s Orchestra, “The Czarewitsch” (Lehar) (19678); “Liliputian’s Wedding” (Translatour) (19660).

Paul Godwin’s Orchestra, with organ, “Adoration” (Filippucci) (19978).

Great Symphony Orchestra, “The Gipsy Princess” (Kalman) (27172).

Paul Godwin’s Orchestra, with organ, “Invocation” (Ganne) (19978).

Paul Godwin’s Quintet, “Vision” (Drdia) (19533).

Opera Orchestra Berlin-Charlottenburg, “Si J’Etais Roi” (Adam).

Paul Godwin’s Dance Orchestra, “Little Butterflies” (Steinke) (19660).

Paul Godwin’s Quintet, “Chant D’Amour” (Drdia) (19533).

Paul Godwin’s Jazz Symphonians, “Lots of Fun” (Morena) (19761).

7.0: News, market reports and sports results.

7.40: Lecture—Mr. W. E. Leicester, LL.B., “The English Comic Spirit.” W.E.A. Lecturette.

8.0: Chimes. Relay of concert by the Wellington Apollo Singers from the Town Hall, Wellington (Conductor, Mr. H. Temple White). The programme will include:—

Part songs—Apollo Singers, (a) “Drake’s Drum” (Coleridge-Taylor); (b) “In This Hour of Softened Splendour” (Pinsuti).

Bass—Mr. J. M. Caldwell, “The Pipes of Pan” (Elgar).

Part songs—Apollo Singers, (a) “Farewell” (Brahms); (b) “Traumerel” (Schumann, arr. Cursch Buhren).

Pianoforte—Mr. Ernest Jenner, A.R.A.M., “Les Vagues” (Moszkowski).

Part songs—Apollo Singers, (a) “O Peaceful Night” (German); (b) “The Musical Trust” (Clokey).

Weather report and station notices.

Cantata—Apollo Singers, “The Ballad of Olav Trygvason” (Grieg).

Tenor—Mr. Eric K. Rishworth, Recit., “Ah, Fill the Cup”; Air, “Ah, Moon of My Delight” (from “In a Persian Garden”) (Lehmann).

Part songs—Apollo Singers, (a) “The Reveille” (Elgar); (b) with Miss Dorothy Sawyer, soprano, “Maureen” (an Irish Cradle Song).

Pianoforte—Mr. Ernest Jenner, A.R.A.M., “Concert Study in G Flat.”

Part songs—Apollo Singers, “Greeting to Spring” (“Blue Danube” Waltz) (Strauss, arr. Lichter).

10.0: Dance programme (Panachord)—

Foxtrots—Owen Fallon and His Californians, “If You Should Ever Need Me” (Dubin) (P12124). Benny Goodman and His Orchestra, “It Looks Like Love” (Freed) (P12149). All Star Californians, “Cheerful Little Earful” (Gershwin) (P12000). Milt Shaw and His Detroiters, “When You Were the Blossom of Buttercup Lane” (Dubin) (P12088).

10.12: Waltz—Jack Richard and His Miami Orchestra, “Chimes of Spring.” Foxtrots—Mills’s Music Masters, “I’m So in Love With You” (Ellington) (P12059). Tom Owen and His Orchestra, “Imagine” (Burt-nett) (P12078). Mills’s Music Masters, “Little Spanish Dancer.”

10.24: Vocal—Amy Ostinga, “Come to Me” (de Sylva) (Parlo. A3190).

10.27: Tangos—Jan and Patrick Hoffmann Band, “Love Means Happiness” (Kunneke) (Poly. 23982). Benny Goodman and His Orchestra, “He’s Not Worth Your Tears” (Dixon) (P12000). Will Osborne and His Orchestra, “When Your Hair Has Turned to Silver” (Tobias) (P12078). Mills’s Music Masters, “Please Don’t Talk About Me When I’m Gone” (Clare) (P12901).

10.39: Waltz—Jack Richard and His Miami Orchestra, “The Kiss Waltz.”

10.42: Vocal—Amy Ostinga, “If You Haven’t Got Love” (de Sylva).

Tangos—Jan and Patrick Hoffmann Band, “Yours Is My Heart For Ever” (Lang) (Poly. 23982). Paul Godwin’s Dance Orchestra, “A Spanish Tango and a Girl Like You” (Rotter) (23986).

10.51: Foxtrots—Milt Shaw and His Detroiters, “To Whom It May Concern” (Mitchell) (P12040); “They’ll All Be There But Me” (Kahal) (P12088). “Happy” Dixon’s Clod Hoppers, “When the Bloom is on the Sage” (Howard) (P12040).

11.0: Sporting summary.

11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, OCTOBER 3.

1.30: Description of Waimate to Christchurch (145 miles) New Zealand Cycle Road Championship. Commencing at 7 a.m. and finishing at Addington Show Grounds in afternoon.

4.25: Sports results.

5.0: Children’s hour, conducted by Aunt Pat and Uncle Alf.

6.0: Dinner music session (Columbia)—

Symphony Orchestra, “Poet and Peasant” Overture (Suppe) (05044).

Garde Republicaine Band, “The Two Pigeons” (Messenger) (02924).

Johann Strauss and Symphony Orchestra, “Morgan Blatter” (Strauss).

R.B.C. Wireless Symphony Orchestra, “La Boutique Fantastique”

Selection (Respighi, arr. Coward) (Reg. G30018).

Plaza Theatre Orchestra, “Pearl o’ Mine” (Fletcher) (01638).

Ketelbey’s Concert Orchestra, “In a Fairy Realm” Suite (Ketelbey);

(a) Moonlit Glade; (b) The Queen Fairy Dances; (c) “The

Gnomes’ March” (02694/5).

Garde Republicaine Band, “The Two Pigeons” (Messenger) (02925).

Johann Strauss and Symphony Orchestra, “Blue Danube Waltz.”

Ketelbey’s Concert Orchestra, “Bells Across the Meadows” (Ketelbey).

Plaza Theatre Orchestra, “Bal Masque” Valse Caprice (Fletcher).

7.0: News session.

7.30: Sports results.

8.0: Chimes. Orchestral—Jean Gilbert’s Scala Orchestra, “Strolling Through Jean Gilbert’s Hits” (Gilbert) (Poly. 19725).

8.8: Novelty—Rose and Thistle Duo, (a) “Bye Bye Blues” (Bennett); (b) “Follow Me” (Sonenscher).

8.14: Instrumental—Christchurch Salon Orchestra (Conductor, Mr. Francis Bate), “Vive la Danse” (Herman Finck): (1) Pas de Deux; (2) Pas Seul; (3) Ensemble (Finale).

8.23: Humour in song and story—Mr. Geo. Titchener, (a) “Knocked ‘Em in the Old Kent Road” (Ingle); (b) “There’s Nothing Like That About Me” (Arphorpe).

8.31: Hawaiian—Elaine Moody’s Hawaiian Trio, (a) “Hawaiian Hotel” (Nainas); (b) “Down the River of Golden Dreams” (Klenner).

8.37: Orchestral—The Philharmonic Orchestra, “Songs of Love” (Strauss).

8.43: Entertainers—The Two Rascals, (a) “I Don’t Care a Lot for a Lot of It” (Bennett); (b) “Chin Wag”; (c) “Piano Improvisations.”

8.53: Orchestral—Salon Orchestra, (a) “Love’s Dream” (Bennet); (b) “La Rosita” (Dufont).

9.2: Weather forecast and station notices.

9.4: Chorus with orchestra—Jack Hylton and His Orchestra, “Still More Old Songs” (H.M.V. C2082).

9.12: Novelty—Rose and Thistle Duo, (a) “My Cutey’s Due” (Robin); (b) “Way Down Home” (Williams).

9.18: Humour in song and story—Mr. Geo. Titchener, “Girls Versus Men.”

9.22: Hawaiian—Elaine Moody’s Hawaiian Trio, (a) “You’re Driving Me Crazy” (Donaldson); (b) “The One I Love Just Can’t Be Bothered With Me” (Kahn Simons).

9.28: Waltz—Salon Orchestra, “Stories of the Vienna Forest.”

9.38: Entertainers—The Two Rascals, (a) “A Vagabond Lover” (Donaldson); (b) “Chin Wag”; (c) “Piano Improvisations.”

9.48: Male choir with orchestra—The Merry-makers, “The Merry-makers in Hawaii” (Ford) (Bruno, 20049).

9.52: Novelty—Salon Orchestra, “The Evolution of Yankee Doodle” (Lake).

10.0: Dance music (Polydor)—

Foxtrots—Marimba-Original Excelsior de Guatemala, “El Enganado” (Garcia) (21901). Ben Berlin’s Dance Orchestra, “There’s Only Room for One Love” (May) (23535). Paul Godwin’s Dance Orchestra, “I’m Longing for Something” (Hollander) (23536).

10.9: Waltz—Ilja Livschakoff’s Dance Orchestra, “Mother Needn’t Know.”

Foxtrots—Ben Berlin’s Dance Orchestra, “If I’s and ands were Pots and Pans” (Stolz) (23611). Ilja Livschakoff and His Dance Orchestra, “The Brave Little Tailor” (May) (22923).

10.18: Vocal—Clem Williams, “Old Fashioned Girl” (de Sylva).

10.21: Tangos—Ilja Livschakoff’s Dance Orchestra, “Your Lips Were Mine in My Dreams” (Marbot) (23546). Ben Berlin’s Dance Orchestra, “What’s the Time?” (May) (23535). Paul Godwin’s Dance Orchestra, “Pinky, My Best Friend is You” (Ortuso) (23653).

- 10.30: Waltz—Paul Godwin's Dance Orchestra, "That's You" (Molto) (23654)
 Foxtrots—"Mother Goose Parade" (Breau) (23327). Ilja Livschakoff's Dance Orchestra, "I Would I Could Be Your Lover" (Dostal).
 10.39: Vocal—Clem Williams and Des Tooley, "You Are the Melody."
 10.42: Tangos—Ilja Livschakoff's Dance Orchestra, "My Heart is at Your Feet" (Schmidt) (23546). Paul Godwin's Dance Orchestra, "Don't Leave Me" (Hollander) (23536); "Parting" (Blech) (23653).
 10.51: Foxtrots—Ilja Livschakoff's Dance Orchestra, "Don't Fear the First Kiss" (Stolz) (23701). Paul Godwin's Dance Orchestra, "Dancing Puppets" (Rust) (23327). Marimba Original Excelsior de Guatemala, "Aguilas Mexicanas" (Jose Escobar) (21901).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, OCTOBER 3.

- 3.0 : Selected recordings.
 4.25: Results of Kurov race meeting.
 5.0 : Children's hour, conducted by Aunt Anita.
 6.0 : Dinner music session (Parlophone)—
 Grand Symphony Orchestra, "Zampa" Overture (Herold) (A4020).
 Dajos Bela Orchestra, "Dynamiden" Waltz (Joh. Strauss) (A4118);
 "O Sole Mio" (arr. Lindemann) (A4014); "Kaiser" Waltz (A4032)
 Grand Symphony Orchestra, "The Tea-House of a Hundred Steps."
 Dajos Bela Orchestra, "Be Embraced, Ye Millions" (Strauss) (A4118).
 Berlin State Opera Orchestra, "Aida" Selection (Verdi) (A4192);
 with Karol Szreter, pianist, "Hungarian Rhapsody No. 2" (Liszt).
 Dajos Bela Orchestra, "Narcissus" (Nevin) (A4032).
 Grand Symphony Orchestra, "Japanese Cherry Blossom Festival."
 Dajos Bela Orchestra, "Souvenir—Valse Boston" (Pazaller) (A4014).
 Opera Comique Orchestra, "Gopak" (Moussorgsky) (A3028).
 7.0 : News session.
 8.0 : Chimes. Relay of concert programme from 3YA, Christchurch.
 10.0 : Dance music session (Polydor)—
 Foxtrots—Ilja Livschakoff's Dance Orchestra, "And Swiftly the Days Pass By" (arr. Benedict) (23482); "The Gipsy Princess" (Kalmann) (23610); "Munich Kiddy" (Stolz) (23401).
 10.9 : Waltz—Ilja Livschakoff's Dance Orchestra, "My Love Song Must Be a Waltz" (Stolz) (23649).
 Foxtrots—Paul Godwin's Dance Orchestra, "Say That You Love Me" (Uher) (23650); Ilja Livschakoff's Dance Orchestra, "The Whole World is Sky-Blue" (Stolz) (23649).
 10.18: Vocal (Spanish)—Juan Llossas with his South American Orchestra, "La Cigarra" (Paredes) (P40488).
 10.21: Tangos—Ilja Livschakoff's Dance Orchestra, "Don't Leave Me!" (arr. Benedict) (23482); "To-night I've Dreamt of You" (Kalmann) (23610); "You Are My Morning and Night Prayer" (Krauss).
 10.30: Waltz—Paul Godwin's Dance Orchestra, "Under the Roofs of Paris."
 Foxtrots—Paul Godwin's Dance Orchestra, "Fair Little Daisy" (Willi Koilo) (23651); Ilja Livschakoff's Dance Orchestra, "Love and Wine Never Alone" (Krauss) (23569); "The Barrel Organ."
 10.42: Vocal (Spanish): Juan Llossas with his South American Orchestra, "Sonars Abandonado" (Paredes) (P40488).
 10.45: Tangos—Ilja Livschakoff's Dance Orchestra, "A Love-Letter" (arr. Michaeloff) (23481); "Just a Bit of Love" (Rosen) (23547); "And Once You Too Will Deceive Me" (Stolz) (23578).
 10.54: Foxtrots—Ilja Livschakoff's Dance Orchestra, "You Are My Greta Garbo" (Stolz) (23401); Paul Godwin's Dance Orchestra, "Mariner's Song" (Uher) (23650).
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, OCTOBER 3.

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

Sunday, October 4

1YA, AUCKLAND (375 KILOCYCLES)—SUNDAY, OCTOBER 4.

- 3.0 : Chimes. Relay from the Auckland Town Hall of portion of Organ Recital by the City Organist—Mr. Maughan Barnett, and selected recordings from the studio.
 6.0 : Children's Song Service, conducted by Uncle Leo.
 7.0 : Relay of Evensong from St. Mary's Cathedral. Preacher: Canon William Fancourt. Organist and Choirmaster: Mr. Edgar Randall.
 8.30: Chimes.
 Suite—London Symphony Orchestra, "Ozar Sultan."
 Baritone—Mr. Len Barnes, with orchestral accompaniment, (a) "Beloved It Is Morn" (Aylward), (b) "King Charles" (White).
 Suite—Salon Orchestra, (under direction of Mr. Harold Baxter), "L'Arlésienne" (Bizet): (1) Overture; (2) Minuetto; (3) Adagio; (4) Carillon.
 Evening weather forecast and announcements.
 Mezzo-soprano—Miss Doris Grant-Cowen, with orchestral accompaniment, (a) "Cloths of Heaven" (Dunhill), (b) "Silent Noon."
 Quartet—Budapest String Quartet, "Quartet in B—Allegro Vivace."
 Waltz—Salon Orchestra, Waltz From "Der Fledermaus" (Strauss).
 Piano—Mr. Cyril Towsey, "Andante in F" (Beethoven).

- Mezzo-soprano—Miss Doris Grant-Cowen, (a) "The Cherry Tree"; (b) "The Music That Love Made" (Hamilton).
 Selection—Salon Orchestra, "La Traviata" (Verdi).
 Baritone—Mr. Len Barnes, with orchestral accompaniment, (a) "Coming Home" (Willeby), (b) "Village Blacksmith" (Weiss).
 Morceau—Salon Orchestra, "Adieu" (Karganoff); Orchestral, "Coquetterie" (Mathews): Selection, "The Magic Melody" (Romberg).
 10.0 : God save the King.

2YA, WELLINGTON (730 KILOCYCLES)—SUNDAY, OCTOBER 4.

- 3.0 : Selected gramophone recordings.
 6.0 : Children's song service, conducted by Uncle George, and assisted by the children's choir from Knox Presbyterian Church, Miramar.
 7.0 : Relay of evening service from the Terrace Congregational Church. Preacher: Rev. H. W. Newell. Organist and Choirmaster: Mr. Harry Brusey.
 8.15 (approx.): Relay of concert by the Wellington Municipal Tramways Band from St. James' Theatre (Conductor Mr. E. Franklin).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 4.

- 3.0 : Gramophone recital.
 5.30: Children's song service by children of the Methodist Sunday Schools.
 6.15: Chimes.
 6.30: Relay from St. Albans Methodist Church, Rugby Street, Merivale. Preacher: Rev. W. Rowe. Organist: Miss Clarice Bell. Choir Conductor: Mr. W. Simpson.
 7.45: Selected recordings.
 8.15: Relay of programme from 4YA Dunedin.
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, OCTOBER 4.

- 3.0 : Selected recordings.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.15: Instrumental recordings.
 6.30: Relay of evening service from Knox Presbyterian Church, Dunedin. Preacher, Rev. D. C. Herron, M.A.; Organist, C. Roy Spackman.
 7.45: Selected recordings.
 8.15: Studio programme.
 Overture—Madame Reggiardo's Sextet, "Peter Scholl" (Weber).
 8.27: Bass-baritone—Mr. Sidney E. Kershaw, (a) "Men of Harlech" (Oxenford); (b) "By the Light of the Moon" (Loughborough).
 8.34: Cello with Orchestra—Mr. P. J. Palmer, "Simple Aven" (Thome).
 8.40: Contralto—Miss M. Stokes, "Verdant Meadows" (Handel).
 8.44: Selection—The Sextet, "Mazurka No. 2" (Godard).
 8.51: Male quartet—Prof. Felix Schmidt Quartet, (a) "Spin, Spin" (Jungst); (b) "Guten Abend, Gute Nacht" (Brahms) (Poly. 23027).
 8.57: Tenor—Mr. J. Kennedy, "On Wings of Song" (Mendelssohn).
 9.0 : Weather report and station notices.
 9.2 : Suite—Regal Cinema Orchestra, "Serenades" (Herbert): (a) Spanish, (b) Chinese (Col. DOI).
 9.8 : Bass-baritone—Mr. Sidney E. Kershaw, "Prologue to 'Pagliacci'."
 9.14: Selections—The Sextet, (a) "Idylle" (Bendix); (b) "Traumerei."
 9.24: Descriptive ballad—Columbia Dramatic Players and B.B.C. Choir, "The Village Blacksmith" (Weiss, arr. Batten) (Col. 01908).
 9.30: Contralto—Miss M. Stokes, (a) "The Three Holy Kings" (Giere); (b) "When Shall I Marry Me?" (Reynolds).
 9.36: Selection—The Sextet, (a) "Salut d'Amour" (Elgar); (b) "Crucifix" (Faure).
 9.42: Tenor—Mr. J. Kennedy, (a) "I Hear You Calling Me" (Marshall); (b) "I Hear a Thrush at Eve" (Cadman).
 9.49: Selection—The Sextet, (a) "Natalie" (Spanish Pastorale) (Lucomb); (b) "Zallah" (Egyptian Intermezzo) (Lorraine).
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, OCTOBER 4.

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

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The Impostor

(Continued from page 2.)

Mrs. A.: Gone? Gone? What are you talking about, Marion?

Mrs. M. (aside): I knew there was some mystery about the affair.

Beryl: Wake up, old girl; you look as if you were seeing a ghost.

Marion: I am—the ghost of three happy months. . . But I'm not asleep, Beryl. . . I've just wakened up properly. . . Mrs. Ashmead, I've got to catch a train in half-an-hour; may I see you for a moment alone?

Mrs. A. (deeply distressed): A train! What can you mean? Caroline, please

Beryl (rising hurriedly): Of course; come along, Mother.

Nora (in great haste): I'm shockingly late. Cheerio, everybody!

Mrs. M. (with immense firmness): I will remain. As your oldest friend, Elizabeth, I must remain and protect you.

Mrs. A. (very agitated): Oh, no; oh, no, Caroline!

Beryl: Come along Mother; can't you see . . . ?

Mrs. M.: I see a great deal, Beryl; and I see that this is the moment for firmness.

Nora (persuasively): But, Mrs. Morton, Marion says she must catch a train.

Marion (intervening): Never mind. . . After all, everyone must know soon—and I deserve it. Please stay, Beryl and Nora. It won't take long. It's really—really just the confession of an impostor.

Mrs. A.: Marion!

Beryl: What?

Nora: Oh, what rot!

Mrs. A. (in triumph): I knew it!

(All together.)

Marion: Dear Mrs. Ashmead, try to forgive me! I did not mean to hurt you so much. Yes, it is all quite true. I am a backblocks girl. I've lived all my life in a corrugated iron shack. I've milked cows and worn gum-boots. (Viciously—to Mrs. M.): Yes, and the mud has oozed right over the top of them.

Mrs. M.: Kindly spare us the revolting details.

Mrs. A. (very agitated): Marion, you have a touch of the sun. You are talking wildly.

Marion (taking the centre of the stage): I am perfectly calm, Mrs. Ashmead, and I'm telling the truth. It's the first truth I've told for nearly three months.

Mrs. A.: What do you mean? Does Wilfrid know this?

Marion: Yes, but only this afternoon. I wrote it all to him, as I had meant to write it for you to find after I had gone. But now I see that this was the coward's way.

Mrs. A. (very distressed): Marion, What is all this? Am I dreaming or are you?

Marion (going to her and taking her hand): Dear, I am so sorry. . . It is only a foolish, ordinary little story—but I must tell it quickly, because very soon my taxi will be here. I had just left myself time to write, but now I see that I can explain better. I want to show you that it is not that I am ashamed of my people—only that I am ashamed of myself.

Mrs. A.: Ashamed? Oh, Marion, what have you done?

Marion: Nothing so very dreadful—only this. . . I don't belong to any Southern family. I haven't any position, and—what is the word you all use?—any "social background." My home is a little bush farm, only a hundred and fifty miles from here, right up on the ranges. It's all logs and bush and cows—and mud. But there's love there, and courage, and—and vision—and I'm going back.

Mrs. A. (dazed and relieved): A farmer's daughter! But why not tell us? Oh, Marion, why have you done this?

Mrs. M.: My dear Elizabeth, need you ask? A most successful move!

Beryl (sharply): Mother, don't!

On September 28 a further group of

Classical Dances

Will be presented from 2YA, in continuation of the "Musical Portrait" series, by

Gladys Watkins . . . Pianist
Nancie Holloway . . . Violinist

Nora (gently): Were you just sick of it, Marion?

Marion (eagerly): That was it, Nora—I was so sick of it; tired of the cows and the loneliness and hard work. Yes, and tired of mud and the bush. I did want some fun so dreadfully. You see, I was only twenty-one. . . And besides, my head was stuffed full of silly ideas and dreams out of books. I read every spare minute. I got books from the library in the nearest town; they came up in the cream lorry three at a time, once a week. I spent all my money in that—in that and one other thing. In every art union that was advertised, I bought a whole bookful of tickets.

Mrs. M. (aside): The gambling spirit is rife in the lower classes. I've always heard that.

Beryl: And then you won a prize! How perfectly thrilling, old dear!

Marion: Yes, at last. Oh, not one of the big ones, only three hundred pounds. (Smiles sadly.) I say "only" now, because I have come to think, as you all do, that three hundred pounds is nothing. It was everything to me then. It gave me my chance.

Mrs. M. (very significantly): Your chance—exactly!

Beryl: Mother! Never mind, Marion, we understand—your chance of a spree.

Marion (eagerly): Yes, just that—Oh, I did mean it to be only that! (Pauses—then continues quietly): They were all so sweet and unselfish about it, though that money could have done just everything on the farm. They said I was to please myself, but they didn't like my coming alone—so, in the end, I ran away.

Mrs. M.: And now you are running away again! Quite a habit!

Mrs. A. (sadly): Your poor mother! You did a very cruel thing, Marion.

Marion: Yes, and it has led to many other cruel things.

Mrs. M.: But why come here? Why should we be specially favoured?

Marion (eagerly): That was chance, pure chance; I swear it. I bought that little car for a hundred pounds, and spent another hundred on clothes; and then I thought I'd go for a trip. But I'd only just learnt to drive. You see, my books had taught me a lot, but they

hadn't taught me how to drive a car or to play tennis.

Mrs. M. (viciously): They had taught you, however, how to fall out at the gate of the wealthiest bachelor in the district—a more valuable lesson!

Marion (furiously): How dare you! Do you think I actually planned that? Why, I had never even heard of Wilfrid's name!

Mrs. A. (with an immense effort, breaking a life-long habit): Caroline, how can you? Go on, Marion—I believe you.

Beryl: We all believe you, Marion. You see, we know you.

Marion: You darlings! But you are making it too easy—I must be honest. When you were so good to me, Mrs. Ashmead, when you took me in and gave me such a splendid time; it all seemed just heaven-sent.

Mrs. M. Personally, I should have attributed the favours to another locality. Marion (unheeding): But there was one thing I hadn't reckoned on. (Hesitates.)

Nora (very kindly): Someone you mean—Wilfrid.

Beryl: Of course. Don't mind owning up, old girl. We all think him rather a pet.

Marion (softly): Yes—Wilfrid—and so I am going away. I would have slipped off quietly, but for Mrs. Morton. (With a wan smile): Thank you, Mrs. Morton!

Mrs. M. (grimly): Do not let me detain you further, Miss Norwood.

Nora But it's a real King Cophetua story, Marion. Why spoil the ending?

Mrs. M. (who cannot be expected to stand this): What, Wilfrid Ashmead marry a—a cow-girl! (To Marion): I presume that is the feminine of cowboy, Miss Norwood?

Marion (demurely): We are usually called cow-spankers, Mrs. Morton. The gender is common.

Mrs. M. (shuddering): It is, indeed.

Marion: And so—thank you a thousand times, dear Mrs. Ashmead; I shall always love you for my perfect holiday. Try some day to forgive me. (Mrs. A. is crying quietly.) I am going home.

Nora: But won't it be awful, Marion?

Marion: Awful? Oh, no. Of course I shall miss you all just terribly, and all the fun and the good times. But they're my people. I belong there.

Mrs. A. (sadly): You seemed to belong here so perfectly. Why have you done all this? When it had gone so far why didn't you marry Wilfrid? He cares for you so much.

Marion: I know—and I too. That's why. How could I marry him after all my lies? (Then with brave gaiety and a mischievous glance at Mrs. M.): Besides, think what a stain it would be on all your friends! (Gravely): And then, how can I ever know that Wilfrid would have fallen in love with me if he had met me in my own surroundings? How do I know that he would not be awkward and self-conscious with my father and mother—even, perhaps, a little bit ashamed of those dear people who are pure gold?

Mrs. A. (softly): But he loves you—and you love him, dear child.

Marion (bravely): And if I do—if I did—it is all part of the dream, the play—just one of the stories that I used to read. It will always be my happiest memory. But this is life, and in real life I shall marry a farmer in dungarees and a grey shirt—and some day I shall be happy again. (Starts and looks at her watch.) And now I must go. Dear Mrs. Ashmead, I can't ask you to forgive me.

Mrs. A. (very sadly): How can I let you go, dear child? (Clings to her.)

Mrs. M. (loudly): Elizabeth, how can you? This is deplorable weakness. (Marion struggles with her tears. The girls gather round her.)

Beryl: Give me your address, Marion. I swear I'll write often.

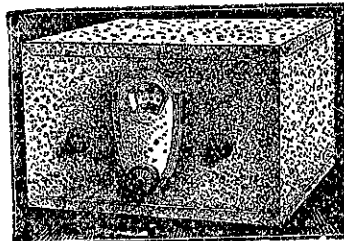
Nora: And in the summer we'll run up and see you. It'll be no end of a lark.

Marion: No, we won't mix life and fiction. This is where the villain departs, alone. . . I won't ask you to say goodbye to the Impostor, Mrs. Morton.

Mrs. M. (with grim humour): On the contrary, it is the one thing that I could say to you that would give me complete satisfaction.

Your MAJESTIC

Radio Receiver can now be used for
SHORT-WAVE RECEPTION
by attaching the . . .



**SILVER-
MARSHALL
CONVERTER**

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"Where the Quality Goods are Sold"

Marion (*with a little laugh*): At least you are honest, which is more than I have been for three months! Well, I must run. I can hear a taxi.

Beryl (*from window*): No hurry. It isn't a taxi. I thought for a minute it was Wilfrid's car.

Marion (*in a panic*): Wilfrid's car! Oh, let me go quickly.

Beryl: No, no; it's all right. There isn't a sign of him.

Marion: Still, I'll not wait. My luggage is all ready. Goodbye, dear everybody.

Nora (*from window*): There's the queerest man coming up the path. (*Craning out*). Oh, bother, I can't see—and yet I seem to know his walk. He's got on the most extraordinary clothes. I believe they were dungarees and a coloured shirt.

Mrs. A.: It will be just one of those poor unemployed.

Marion (*preparing to go*): Well, be kind to him. He may be less of a fraud than I have been.

(*The door opens hurriedly and Sally the maid enters. From the first glance it is obvious that this is not the prim Sally of ten minutes ago. She is clearly struggling with her feelings, and almost on the verge of hysterics.*)

Sally: Please, Miss, that is to say, Ma'am—

Mrs. A. (*kindly*): Yes, Sally.

Sally (*with a desperate giggle*): It's a message for Miss Norwood—Mr. Wilfrid is here, Miss.

Marion (*looking round desperately, as if to hide*): What? Oh, where shall I go?

Sally (*struggling with her feelings*): And, if you please, Miss, I was to say that he's got the dungarees and the shirt, but the cow—the cow wouldn't fit into the car. But he—he says that there are plenty at Sunnymeade, so that will be all right.

Beryl: Wilfrid! Good egg!

Nora: Hooray for Wilfrid!

Mrs. A. (*softly*): I was sure of it.

Sally (*after a desperate struggle*): And, if you please, Miss, he says will you come and keep your promise about marrying a farmer?

Mrs. M. (*loudly*): Well! Wilfrid Ashmead, marry a—a—a cow-spanker!

Marion (*with something between a sob and a laugh*): Wilfrid—oh, Wilfrid! (*She runs toward the door as the curtain falls quickly.*)

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

Russia To-day

(Continued from page 3.)

luxury and culture of the ruling aristocracy and the privileged intelligentsia. When the Bolshevik Government gained power in November, 1917, the task of economic reconstruction seemed an impossible one. An illiterate people, a country disorganised by war and wasteful administration, widespread elements of disorder! No wonder the cynics of all lands prophesied disaster and chaos. From

The Super-Heterodyne Receiver

We regret that we have not been able to complete the super-heterodyne series of articles which was commenced some weeks back. We might explain that this has been due to their author, "Cathode," being incapacitated. However, we hope to resume them in the very near future, and would just ask our many readers who are anxiously waiting their appearance, to be as patient as possible. We can assure readers that they are really worth waiting for.

November, 1917, to August, 1921, the period of war, Communism was certainly a time of desperate expedients. Faced with enemies, within and without, the Russian Government, by drastic measures, met force with force. One after another various insurrectionary movements were defeated. Out of famine, civil war and disorder there came the reconstruction period of 1921-1927, when Lenin's "New Economy Policy" came into operation. The money system was re-established, the rouble standardised on a gold basis, forced requisition of food supplies from peasants stopped, and the stage was set for a rapid and more orderly progress.

In October, 1923, the Piatiletka or the Five-Year Plan was launched. Thousands of technical experts—engineers, statisticians, agricultural experts and others—were imported. Provision was made for widespread mechanisation of industry and of farming, for

building of great hydro-electric works such as Dneprostroi, of huge tractor factories, of iron and steel works, of every phase of capital construction to exploit the great soil, mineral, and power resources of that huge, undeveloped area. The Russian Five-Year Plan is the most ambitious scheme of rapid wholesale industrialisation that has ever been attempted. It is the first attempt to develop the economic resources of a great country on the basis of a national plan. If it succeeds, it will set a new world standard in nationalisation and rationalisation of industry. And the records to date suggest rapid progress in the successful realisation of this plan.

One of the most interesting aspects of this plan is the system by which the various departments of industry are integrated, and the relationship of the various parts, from the Supreme Economic Council at the head to the local Soviet of workers in each factory, mine, or village.

But what is the object of all this elaborate planning, this feverish construction of railways, roads and factories, these huge State farms of hundreds of thousands of acres equipped with thousands of tractors, harvesters, and up-to-date equipment, this concentration of effort on capital equipment of all kinds?

The answer seems to lie in the objective of higher standards of living for all the people, more leisure and greater general welfare. It is hoped that with the rationalisation and mechanisation of industry the work of providing the necessities of life will be done by machinery with a minimum of human labour and that the masses of people will be freed for fuller enjoyment of life.

As one writer has said: "The liberation of the down-trodden taught the poor a new self-respect which immediately translated itself into insistence on better living conditions, better working conditions, more education, more culture."

Interest in education has been an outstanding feature. The Russians are being rapidly transformed from an ignorant peasantry into an educated people. Most interesting accounts are given by various writers of the widespread provision for education of all kinds—primary, secondary, university, technical and academic. Another interesting phase is the definite establishment of the equality of the sexes. Men and women politically, legally and economically, have equal status. This has brought a challenge to accepted traditions. Drastic changes are taking place in family life and in marriage customs. Along with these changes has gone a challenge to pre-existing religious institutions.

In all aspects of human relationships there is a breaking-down of old institutions, an adoption of boldly experimental revolutionary ideas. How far will these go? How far will they make for a better race and a richer civilisation? We cannot tell. What is

certain is that no people will remain uninfluenced by them.

In conclusion, I would like to quote the words of the well-known English writer, H. N. Brailsford: "Russia desires peace ardently, if only because she knows that even a short and victorious campaign would interrupt her constructive work, check her patient efforts to restore her industry and fling her back into the miseries from which she seems to have recovered. Never before in history, and nowhere else in the world to-day has the will of a nation been bent, as it is bent in Russia, to the supreme task of raising its entire population to the full stature of humanity. Its errors spring from the defects of great qualities. Intolerant it has been; but does tolerance create? It has rushed to violent extremes. But is moderation ever a pioneer? It has made its effort with unconquerable heroism. By its unflinching endurance through the dark years of blockade and civil war, of trials for which there is no parallel in modern history, it has won its right to understanding and respect. But above all, it has won its right to peace."

References.

A useful little book giving a general account of Soviet organisation is Brailsford's "How the Soviets Work." It is one of a series of books on Russia edited by Dr. Jerome Davis, of Yale University, under the name of the "Vanguard Series."

A more comprehensive set of similar studies is to be found in "Soviet Russia in the Second Decade," by Stuart Chase and others. Useful accounts of the Five Year Plan are contained in Grinkov's book, "The Five Year Plan." Comparison of life in Russia to-day with that of pre-revolution days is contained in Dr. Dillon's "Russia, Yesterday and To-day." An extremely interesting survey of the social and religious changes in Russia is given in "Humanity Uprooted" by Hindus. Dr. Harper gives a good account of the new education system in Russia in his "Civic Training in Soviet Russia." In the supplement to the 1930 November number of the London "Economist" there is a well-balanced description of the present industrial and agricultural conditions in Russia.

**JOHNSON'S WIRELESS
AND RADIO SCHOOL**

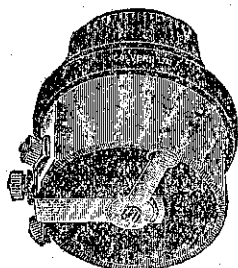
There is remunerative employment for qualified radio men on shore and ship. The up-to-date methods of instruction and modern equipment provided at the school enable the student to obtain a most thorough and practical course. All papers connected with the Correspondence Course are promptly corrected in New Zealand.

Day and night classes for Professional Certificates, Correspondence Classes for Professional Certificates, Correspondence Classes for Amateurs and others. Write for Particulars to Department A.

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63 WILLIS STREET

Telegraph: "Fear."

WELLINGTON.

N.Z. Short-Wave Club

From the Secretary's Pen

MANY short-wave listeners have noticed the absence of club announcements and technical talks from our stations on the 80-metre band. It appears that such broadcasts contravene the P. and T. regulations, and consequently they have ceased. However, I have written the authorities and am hoping for permission to continue.

There is a tactful way of dealing with interference, or what we think to be interference. If a station appears to be broad, the best way is to interview the operator and, in nine cases out of ten, the interview will be satisfactory to both parties. In some cases a long aerial is to blame.

We are gaining many new members who, having conquered the broadcast field, are entering into the gentle art of short-wave. Of course, we must confess to inserting the broadcast coil ourselves occasionally, just to see what is doing there, but we usually switch back again.

These hard times make us economise, and we have to make two valves reach out as far as we can. There is an advantage in this though, because it keeps our tuning in practice.

Our monthly circular will be a little late this time, for our printer sat up to catch a new station and caught the 'flu instead. In this issue the club artist makes his appearance, and a new list of stations has been prepared.

Address letters, A. B. McDonagh, Secretary N.Z. Short Wave Club, 274, Cuba Street, Wellington.

Short-wave News

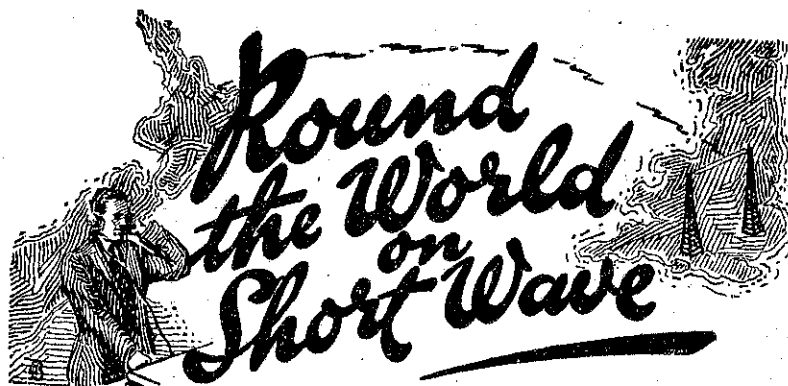
NZ26W, Geo. E. Briggs, Moree, H.B., writes: "I notice you mention the 'Kestrel' 3. I have converted my set and am getting excellent short-wave results. On Thursday, 10th, I tuned into EAQ just as he was signing off. He announced: 'Am very sorry, but we have to close down the telephonic station. Good-bye.' Have not heard him on his mid-day session or duplex since, so it sounds as if he has gone off the air. At 9 p.m. on the 10th there was a station on about 31.5 metres, music at R3."

STATION 8XAL write the secretary, NZSWC, that they will put on another 24-hour broadcast on the last day of September, commencing at 5 a.m. GMT and concluding at 5 a.m. GMT on the first day of October. All listeners hearing them are invited to send in reports, either direct or through the club.

NZ6TW, F. W. Fielder, Hataitai, writes: "Received VK3LR about 79 to 80 metres, from 7.15 p.m. Children's sessions, a lady talking, selections from Mayfair. Time given as three minutes to 7; still on at 9.30 p.m. Static and QRM were bad, but strength was R6 to 7. The next two evenings they were only R3. The first transmission came through splendidly."

Radio-minded Criminals

GEELONG Gaol, Victoria, is apparently the rendezvous of Australia's radio-minded criminals. According to the "British Australian" the prisoners have bought an all-electric receiver with their own money. They wired the prison themselves, making connection for headphones to most of the cells. In addition a loudspeaker has been installed in the exercise yard.



The Hazards of the Higher Frequencies

SEVERAL months ago the explosion of a gun turret on one of the U.S. Navy's warships was stated by experts to have been "caused by heat generated by high-frequency waves from the ship's short-wave transmitter."

On the very short waves these induced currents take on a much more serious aspect, so serious, in fact, as to amount to a real menace to the safety of equipment and even of the ship itself and its crew.

That, at any rate, is the view held by Admiral Hughes of the U.S. Navy, who has recently issued a preliminary summary of what he officially terms the "hazards of high frequency," and promulgated some very definite orders restricting the use of high frequency (short-wave) wireless. According to these orders:

Minimum of 75 Metres.

"No radio transmitter on board ship shall be operated on frequencies above 4000 kc. (75 metres) when the following conditions hold:

"1. During target practice when powder is out of the magazines.

"2. When fuelling ship with fuel oil or gasoline.

"3. When wing-tip flares are installed on planes and the flares are near objects which might be seriously damaged or cause serious damage as a result of the flares igniting. Wing-tip flares should only be installed on planes when necessary."

In addition, the order forbids the operation of transmitters on frequencies above 4000 kc. while aircraft or boats are being fuelled on deck.

In his report on the subject the Admiral says:

"Investigations have been conducted in the fleets and, under the direction of the Bureau of Engineering and Ordnance, at the Naval Radio Laboratory, to determine what, if any, extra fire or explosive hazards may be introduced by the use on shipboard of high frequency radio transmitters.

"It has been known for years that currents of considerable magnitude are induced in conductors in the vicinity of an energised antenna whenever their electrical length is such as to approach resonance with the antenna, and that potentials are induced in large metallic bodies, insulated from the ground, when in a strong field under an antenna.

"An example of the first kind is the current induced in standing rigging not broken up by insulators; an example of the second is the spark which can be drawn from an automobile parked under a large energised antenna.

A gun, if loaded, might be prematurely exploded by either (1) heat generated by eddy currents, or (2) currents induced in fire-control wires. It should perhaps be explained here that modern naval guns are fired by remote electrical control, an electric spark touching-off the firing charge.

Powder exposed in open containers might be fired by a chance spark between two metal objects, one unearthed and in resonance with the transmitting aerial, and the other earthed.

Possibility of Sparks.

Similarly, resonance between the transmitter and an armoured petrol-filling hose might result in a spark occurring between the metal nozzle and the filling cap of the petrol tank; and, again due to resonance, currents might be induced in the wiring to wing-tip flares which might be of sufficient magnitude to ignite the flares, perhaps causing a serious fire or explosion on the deck of a battleship or aircraft carrier.

Old-time wireless men, and especially those who have had sea experience, will by this time be thinking: "Why don't they earth everything properly and stop making a song about it?"

Very excellent—on the longer waves. But this example will serve to illustrate the difficulty on short-waves. During the course of investigations which were made on the U.S. battleship Texas, it was found that on turret No. 3 the muzzles of the guns became quite hot when a nearby aerial radiated only 1 kw. at 16,000 kc. (19 metres).

The guns were one full wavelength in length, and the distance from the trunnions to the muzzles was three-quarters of a wave-length. It is conceivable that at considerably higher powers, or higher frequencies, the breeches themselves might get hot enough to prematurely fire the guns.

Easily Measurable Voltages.

At any other frequency the trunnions would have effectively earthed the guns. When the muzzles of the guns are exposed to high-frequency radiations, as they must be, the entire gun commences to oscillate electrically, with the result that low though easily measurable voltages are produced at the breech, even though this end is shielded from the electric field by the turret.

Actual experiments showed that the energy, under certain conditions, was sufficient to light an 18 to 24 volt lamp connected between the breech and the turret, explode a primer in the breech of the turret gun by using the energy fed into the turret by a special tuned circuit, light aeroplane running lights when the plane was exposed to the field of the aerial, and set off the primers of wing-tip flares.

Evidently, therefore, some very real hazards exist, and restrictions are obviously necessary.

Valves of the Future

INSPIRED by the advent of the pentode valve, George Lewis, of the Arcturus Valve Company, at an engineers meeting, reviewed the effect of valve developments and what they have meant to radio in the home.

"There is no question," says Mr. Lewis, "that the pentode is the valve

of the day. The pentode, of course, has three grids, and is to the screen grid valve what the screen grid is to the three element type.

"As a matter of fact, radio history seems to be summed up in the addition of electrodes to the fundamental principles of the two element valves of Fleming and Edison, known as diodes. Back in 1907 De Forest added a grid to the Fleming valve, and increased its utility a hundred fold. This three element valve was termed a triode. About fifteen years later the second grid was added to this modern Aladdin's lamp, and we were able to work new wonders with the genil of radio. The name, tetrode, was applied to this type. Now we add a third grid or fifth element and have the pentode.

"With each element that has been added to a radio valve it has, inversely, made possible the reduction in size of radio sets. The early sets were large, cumbersome affairs, while the present-day sets are less than half the size of their predecessors, and thousand-fold more efficient.

"What shall we look forward to in the way of further developments—a hexode, octode or even dekade?"

H. G. Wells Broadcasts

H. G. WELLS, the well-known novelist and historical writer, has declared that he likes broadcasting. He recently was heard over the B.B.C. network in a series of talks on "Russia in the Melting Pot." At first Mr. Wells was very nervous, and much difficulty was experienced in persuading him to appear before the microphone.

His conversion came about while he was waiting on his local railway station for the train which was to take him to London for his first broadcast. The signalman, who knew Wells, put his head out of the box and said, "I am looking forward to your broadcast to-night, Mr. Wells. I have my set here in readiness to listen." Wells was so impressed by the thought that his voice would be heard even in a railway signal box that during the journey to London he carefully revised his notes.

"Doping" Music

HOW much a control-room engineer may interfere with the output from the orchestra in the studio has long been a bone of contention between the musical and technical staffs of broadcasting organisations. Apparently the discussion will be at an end so far as the new Budapest transmitter is concerned, for the plans include the provision of soundproof glass cases to accommodate the conductor, who will hear his orchestra as it is heard by the radio listener.

FOR SALE OR EXCHANGE

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

GRAMOTROPE with double spring motor, Upeo Pick-up, volume control, six records. Demonstrator. £7/10/-, freight paid. Send £1 for three months' option. Ultimate Radio Service, Kaitia.

True, But Unattractive.

THERE is both a practical and a romantic interest about the origin of some of the scientific modern beauty preparations.

From the racing stables of a well-known trainer at Newmarket came the prescription for an eyelash-growing preparation that is very much in demand from the salons of a Mayfair beauty specialist.

In its original form this was used by the trainer on his valuable horses when they had blisters, to grow new hair. The trainer's wife tried it when her eyelashes fell out, and was so pleased with the result that she had the prescription modified and rearranged for general use. Long curling eyelashes are an essential with the new feminine type of hat.

Neither Use Nor Ornament.

SAYS George Tremaine in an English paper:—There are three-and-twenty houses in our newly-built crescent, replete with every modern convenience. Alluring little homes, with attractive garden plots and intriguing, cool, Jacobean interiors. Everything as it should be, from chimney cowl down to the pussycat bootscraper in the porch.

Out of these three-and-twenty model tenements at least ten have doorbells which at the moment are "out of order!"

You know the gadget. A small black disc, set in a circular or oval metal plate, plumb in the middle of the door. Something between a shoe button and the head of a collar stud. Something which responds to the pressure of your finger—when it is so disposed—with a harsh staccato bur-r like the grinding of motor brakes.

The type is much more temperamental than the contraption you are requested to turn, which tinkles like a child's musical box. One can never be certain whether the sound comes from a visitor or the tricycle of a roving ice-cream vendor.

The amount of irritation and uncertainty caused by our mute inglorious bells is stupendous.

A Democratic Duchess.

THE Duchess of Portland has invited Mr. Gilbert Daykin, a Nottinghamshire miner-artist, to stay at the Duke's London house in Grosvenor Square in order that he may study the work of the old masters in the London galleries.

The Prime Minister recently asked Mr. Daykin to send some of his paintings to 10 Downing Street, in order that Sir William Rothenstein, principal of the Royal College of Art, might inspect them.

Forging Forward.

THE Princess Esma Zafir, the great-granddaughter of Sultan Abdul Kader, of Algeria, has arrived in London as the representative of the Stamboul evening paper, "L'Akcham," and as the winner of a journalism scholarship in America. She is studying in London on her way to the United States to take up the scholarship, and to study philosophy at Rockford College, near Chicago.

Princess Esma, or Mile. Esma Zafir, as she prefers to be known when engaged in her reporting work, is the daughter of the Princess Zeyneb, a leader of the feminist movement in Turkey. The latter was the first wo-



man of Arab race to engage in journalism, and for some years she has written on social and feminine topics for papers in Damascus, where the Sultan

but pulled forward and tilted over the right eye and as abruptly as a tiny brim turns off at the left.

This sensational shape is appearing in the simplest and most demure of black summer felts. Its only trimming is a tuck of its own fabric and a tiny bow of narrow black petersham.

Magnanimity

Not with a club the heart is broken.

Not with a stone;

A whip, so small you could not see it,

I've known

To lash the magic creature Till it fell.

Yet that whip's name too noble Then to tell.

Magnanimous of bird

By boy descried,

To sing unto the stone

Of which it died.

—Emily Dickinson.

Abdul Kader set up an Algerian colony after he had finally had to capitulate to the French in 1847.

A Provocative Tilt.

THE latest novelty in the millinery world is a veritable "forage" cap, but with a brim one side. The cap is no longer worn at the back of the head,

Fascinating.

ANOTHER novelty is the Robin Hood hat in thick black felt. This hood is twisted and pinched to turn up slightly at the left side and dip over the eyes and forehead. The soft crown is caught up with a couple of quills in black and silver circ.

Lightsome Lunches.

LUNCH is maligned. It can be all things to all men and women. Once again I am lunching in Chelsea and William de Morgan is holding up a bowl of the colour of red wine, and telling us how his artist wife sold her jewels to keep his furnaces at white heat for that matchless lustre. Once again I lunch with my life-long friend, Percy White, in a dear little old world house in Holland Street, and he tells me all about his very early friendship with Mr. H. V. Lucas and what an attractive boy he was. Or he boasts that his father, head of an ultra-smart school at Brighton, was really and

truly the Doctor Blimber who had Paul Dombey for a pupil.

A lunch that began dolefully ended with the opening of an "ivory gate and golden" to a world all flowers and little lovely children. For I once found Liza Lehmann in tears at her piano because Joseph O'Mara persisted in singing a new cycle of her songs in his own way. He looked angry as I passed him on the doorstep. "Stay and have a sausage roll and cheer me up," said Liza. I stayed. A sausage roll, if indeed that was what we had, with Liza was better than either a dinner of herbs or a stalled ox. And afterward, her troubles all forgotten, she went back to the piano and wove for me alone one of her delicate "Daisy Chains." The golden-true soprano rang out to the merry music set to those most natural verses of Anna Alma Tadema.

*If no one ever marries me, and I don't see why they should,
For nurse says I'm not pretty, and I'm seldom very good.*

—R.G.

Those Gleaming Locks.

THE first essential is constant and thorough brushing. This, contrary to popular opinion, does not harm a well-waved coiffure. "Women are, for some odd reason, terrified of oil," this hairdresser said, "but if they would take a little oil on the palm of their hand, smooth it lightly to the hair, and then brush thoroughly, they would get that slightly glossy, well-groomed look without which even the most elaborately waved hair is insipid and even dowdy."

Brushing it cannot be too strongly emphasised in these days of short hair that is fatally easy to comb quickly, and is the only way of giving the hair the exercise it needs and of keeping the roots healthy and free from dust and grease.

A small quantity of oil will not harm even naturally greasy hair, which always tends to be too dry immediately after a shampoo or a permanent wave. Oil, too, should be rubbed into the scalp the night before the hair is shampooed. This loosens dust and dandruff. "No one," said the hairdresser, "would dream of omitting an occasional cleansing of the face with cream to supplement the usual soap and water. Why not apply the same idea to the hair?"

Manly Simplicity.

A DEFINITE taste for masculine styles is creeping in, foretelling the doom of all the frill and furbelows of the season.

Shirt blouses with detachable collars and double cuffs cut on exactly the same lines as a man's shirt, are being worn by smart women. Tailored lapels and revers are preferred to draped scarfs and cowl collars on one-piece dresses and suits. There is a decided fancy for Oxford grey suiting, for the single flower buttonhole, the trim tailored waistcoat; femininity seems to have had its day as far as Dame Fashion is concerned.

An Emergency Salad Dressing.

TO make an emergency salad dressing, mix well together one tablespoonful of vinegar (or 1½ tablespoonfuls of lemon juice if preferred) with 2 tablespoonfuls of evaporated milk, ½ teaspoonful of mixed mustard, 1 teaspoonful of sugar, and a small pinch of salt.

Hints for the Housewife

When Stock is Greasy.

WHEN stock looks greasy and there is no time to cool and skim it, heat it up and pour it slowly through a clean, white cloth which has been wrung out of cold water. The fat will remain on the cloth and the pure stock drain through.

A very quick way of making bread-crumbs is to rub the bread over a wire cake-stand.

To Make "Mock Capers."

SOME people find pickled nasturtium as good as capers. The seeds should be picked while they are young, and on a fine day. They should be laid out on a tray and left for a few days, then put into pickle bottles and covered with boiled vinegar. When the vinegar is quite cold the bottles should be closely corked. These "mock capers" are best when kept for a few months before being used.

Cleaning White Shoes.

TENNIS shoes of white buckskin or canvas will resist the dust more effectually if, after cleaning, they are rubbed over with powdered pumice stone. If the wet cleansing medium is applied with a small sponge it will give

a more even appearance than the piece of rag usually employed. Pipeclay used for cleaning shoes does not rub off if mixed with milk instead of water.

For Your Larder.

KEEP a small box of unslaked lime in your larder, and you will find the air will keep beautifully dry and sweet. The lime should be changed about every three weeks, as it loses its power after this time. A little unslaked lime, crushed to a powder and laid about where cockroaches are likely to be, will also rid one of the unwelcome pests.

To Whiten Ivory.

HAVE you any cherished oddments of carved ivory that look as if they would be better for a good clean? If so, procure a little clean sawdust, and damp with a mixture of water and lemon juice. Cover your ivories with this, and leave till dry. Brush off with a soft, firm brush, and they should be quite clean.

TURPENTINE is one of the very best cleaning mediums for porcelain baths and enamel ware. Rub the bath over each time it is used, and this will prevent any water marks.

.... With BOOK and VERSE

By "John O'Dreams"

Jottings

Our Fortnightly Book Review

JUAN IN AMERICA

By ERIC LINKLATER

THOSE who have made acquaintance with the earlier novels of Mr. Eric Linklater will find pleasurable anticipation realised in "Juan in America," the latest contribution to fiction of this most entertaining writer. It is excellent fooling. Taking America as his happy hunting-ground, with its multifarious types, phases, eccentricities, and vagaries of modes and manners, its kaleidoscopic panorama of scenes, grotesque, bizarre and magnificent, Mr. Linklater makes of it all a background for a frolicsome saga of adventure. Light-hearted romance is keynote of this fantastic odyssey, and a zestful delight in each moment as it flies, with resultant determination to let slip no opportunity accorded by the high gods.

Scion of an opulent and conventional Scottish family, Mr. Linklater's hero is also a lineal descendant of Byron's wanderer, and modern youth blithely lives up to tradition of promiscuity. Nothing of the puritan is apparent in successive amours with kittenish Dora, lovely Lalage, and Olympia, the beautiful Amazon; all related with an engaging light-heartedness quite innocent of offence.

Many adventures are chronicled of vicissitudes of life in that America which had called him from his safe and sheltered existence: "Those miraculously united States lured with their wild harmonious names—Utah, Wisconsin, Oregon, Kentucky—which were the home not only of Republicans and Democrats, but of peacocks and mandrills, and houses of which held gold and ivory as well as rocking-chairs. Fantasy lived there, satyrs walked in the woods, and millionaires built with the unstudied imagination of Haroun al-Raschid." Anything might happen, and lots of strange and unexpected ups and downs awaited him. We follow his adventures, tragic, comic and farcical, with riveted attention; from his temporary deification as a football hero and subsequent collapse, to sojourn on Egret Island with the lovely houri who experimented with passion to gain material for novel writing.

Becoming immersed in the underworld, bootlegging activities, and many inventions, Juan finds himself penniless and for a short span acts as waiter in a speakeasy and attendant in a drug store. He meets a pantherish lady who sings the "Habanera" head downward on a trapeze. Juan she desires, possesses and finally discards; and in love and hatred is equally magnificent. His endeavours to act and sing with this exacting amoureuse are excellent fooling, but finally he wanders forth and goes questing further among those peris, Hebes, snow-maidens, sylphs and undines, which the American moving-pictures had led him to expect in a population composed of "insuperable adolescence of Ireland, sentimental heart of Germany, lively passion of Italy, and all the rest of those who had taken out naturalisation papers and turned American."

There are thumb-nail portraits of all sorts and conditions of men, from the Governor and kindly Mrs. Dekkar, who so deftly exercise the virtue of hospitality, to the highest paid journalist in the world, who seemed to have collected everything in a haphazard way, including his nose, eyes and dinner-jacket, the result resembling a composite photograph of some hundred nonentities. Whether it is some bizarre episode of vaudeville, as for instance Juan and his superb trapezist swinging in air together as they carolled the duet of Rodolphe and Mimi from "La Boheme" or a discourse on the New Thought, Mr. Linklater yields an intriguing pen. "Constitutionally unable to ignore le dernier cri, America leapt joyously to its feet—dropping newest cosmetics, flying machine, murders and please for world peace—and reached with myriad hands to guide-book on Thought. No one had ever thought of thinking before, and here was a Spaniard telling them that anyone could do it."

Observation, imagination, wit, knowledge, and a profound knowledge of the heights and depths of human society in general and American in particular, are encountered in this very modern tale of youth at the helm and pleasure at the prow.

IN "The Lavender Dagger," Mr. Dion Clayton Calthrop gives his readers a series of village vignettes, shrewdly drawn and put together with no little ingenuity. Old Miss Ermaine dies, and leaves her great fortune to her godson, together with a charming private secretary, and a series of notebooks containing her views on the people whom he will meet. It transpires that the young man named Seaton is the dead woman's son, and he does his best to live up to her traditions. She was a wise and keen-eyed old lady, and her son takes after her, knowing how to deal with viragos like the vicar's wife and Lady Biddle. He marries the secretary, of course, in this gentle story, with its unexciting episodes and amusing portraits.

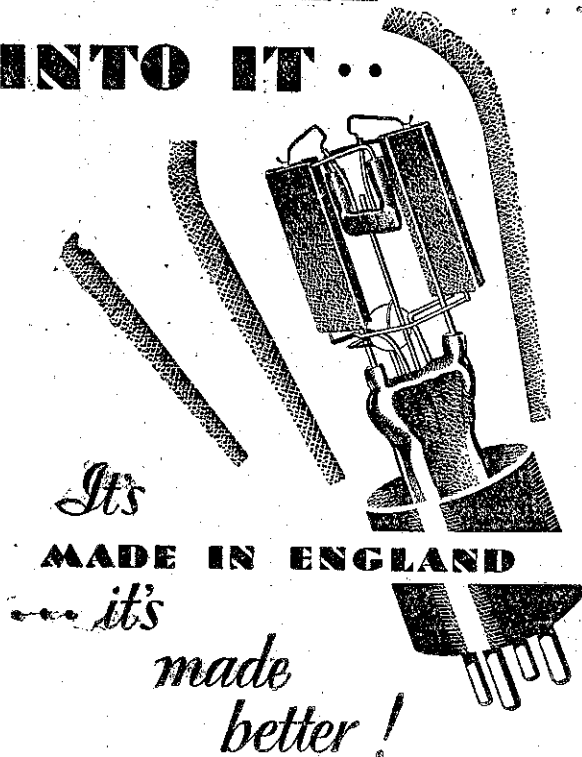
"A MODERN VANITY FAIR," by Mr. Stephen Graham, is an entertaining achievement, half satire and half romance. A young man, who talks with an American accent and seems to have considerable credit, appears in London and drifts into smart social circles in an engagingly casual way. He has some odd friends, the chief of his feminine friends being Phoebe Vindex, a baronet's daughter, who likes to be thought much wickeder than she is, and Lady Juliet Lyminge. He put up for Parliament and wins a seat in the East End of London. There is some mystery about this young man. Who is he? And, quite in the old-fashioned romantic manner, Mr. Ex Riddell turns out not to be an American soldier of fortune but a rich baronet with a castle of the most substantial kind. The story is told very well, with a spice of the risqué, and amusing digressions.

MISS GRACE THOMPSON has done well in "The First Gentleman: The Story of the Regent, afterward George IV." Mr. Lytton Strachy could scarcely have devised a more ironic nickname than that of "the first gentleman in Europe," by which George IV will go down to history. Readers with a knowledge of the byways of Regency gossip are well acquainted with the immense mass of stuff written round this most ungentlemanly gentleman. Miss Thompson has certainly made a most enlightening "conversation piece" of George, who was admirably etched by Justin McCarthy as "the malignant enemy of his unhappy father, the treacherous lover, the perjured friend, the heartless foe, the soulless sot." Without dates, except at the heads of her pages, and with no apparatus of footnotes, she has made an amusingly mordant mosaic of the monarch, whose example, if imitated by his successors, might easily have ended our system of sovereignty.

"THE Key," by M. Aldamov, a Russian emigre, is an extremely interesting novel. Perhaps the most curious thing about it is that a casual glance at it might lead you to suppose that it is little more than a murder mystery. Just before the Revolution a rich banker is found dead in a questionable flat, and one Zagryatsky is accused of the murder. The examining magistrate is convinced of his guilt. The head of the political police, however, has other ideas, which happen to be right. But although the solving of the mystery runs right through the book, and by itself holds attention, the author is also attempting to solve a much greater problem: he is attempting to explain Russia at the time of the great change. And in the most ingenious way the Key of the title is made to serve a triple purpose. There is an actual key, which is of importance in the crime; one of the characters writes a book of the same title, and the whole, ironical picture of so-called liberally-minded circles in St. Petersburg that was falling to pieces provides a key to much that to many people has remained irritatingly vague.

"WOMEN AND POLITICS," by the Duchess of Atholl, M.P., is a notable contribution to feminist literature. This is a peculiarly difficult type of book to write. It aims at providing a textbook of politics for women, and particularly for women who, while "keenly anxious to make good use of their citizenship," have had little time or opportunity for study. The fault of the book is that it is too diffuse, but when this has been said it must be conceded that the author has triumphed over the worst of her difficulties. She gets down to the level of the uneducated woman and contrives to convey to her the basic common-sense truths of politics without ever appearing to "condescend." Here are shrewd and homely, and yet in their way masterly, defences of the principle of private property against Socialism; of marriage against theories of companionate marriage; of capital against unfair taxation. Unfortunately the book does not lend itself to brief summary, but perhaps that is as well since more people may be led to read the original. The author makes a trenchant reply to some of Mr. Bernard Shaw's statements in "The Intelligent Woman's Guide to Socialism," and appears to convict him, on official evidence, of some remarkable mis-statements.

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Radio Round the World

BECAUSE so many professional musicians are out of work, the Danish broadcasting authorities are reported to have banned the use of gramophone records for broadcasting.

investment on the part of a few newspaper groups," adds Mr. Stockbridge, "to acquire enough key stations to give the Press almost complete control of the situation."

RUNNING water, two armchairs, two small beds, and a radio transmitter and receiver" are reported to form the main equipment of a new telephotographic car which has been put in service by the French Government for providing the Press with a quick photo service dealing with current events.

A "CRYPTOGRAPHIC" picture transmitter has been evolved by the French inventor, M. Edouard Belin, who claims that he is now able to send messages, drawings, and photographs in a manner which makes them unintelligible except to a listener aware of the "key." The cylinders of the transmitter and receiver are rotated at varying speeds.

IN Britain there is no middle course between the high road of legalised listening and the low road of piracy, but in Italy it is now possible to test a new set without a license for a period of ten days. And to prevent abuse of the arrangement the Italian Government decrees that all retailers issuing receivers under this rule must keep a careful check on the dates of issue and return, as customers may suffer from short memories!

DENMARK still heads the list among European countries in the number of broadcast listeners per thousand population, the number being 119.5. Sweden comes next, according to the International Broadcasting Union, with 78.90. Britain still holds third place with 77.5 per thousand population, and is followed by Austria with 63.34 and Germany with 56.23. Hungary and Norway come close, and then comes Finland, which has stepped down a place in favour of Norway.

THE newspapers of the United States, either individually or co-operatively, must ultimately control broadcasting in all its phases," writes Mr. F. T. Stockbridge, editor of the "American Press." Conflict between newspapers and the wireless have arisen on six points: News broadcasting, which trespasses on the newspaper's chief function; demands on the papers for free publication of radio programmes as news; diversion of advertising revenue from newspapers to radio; the privilege, forbidden the newspapers, of broadcasting lottery advertising; the use of radio for questionable advertising which respectable papers refuse; and the imminent possibility of television advertising displays, reducing newspaper display advertising. "It would require a very small

A DEVICE by means of which everything said by both parties concerned in a telephone conversation is recorded on a magnetic steel wire in such a manner that it can be reproduced at any subsequent time is the latest advance in communications technique announced by the International Telephone and Telegraph Corporation. The record so obtained can be preserved as long as may be required, but it is also possible to obliterate the message so that the wire can be used over and over again. One of the important applications of the conversation recorder is in connection with long-distance cable and radio telephone calls.

Matto Grosso Expedition

Inexplicable Silence of Transmitter

A FIRST-CLASS mystery has developed on the American amateur transmitting channels regarding the whereabouts of the operator of station KUKU. This is the call-sign of Mr. J. W. Newell, the radio amateur who accompanied the expedition to the Matto Grosso jungle region of Brazil. Since February last KUKU has been transmitting glamorous accounts of the adventures of the expedition, which is collecting natural history data for the University of Pennsylvania, and many of these vivid stories have been relayed by KDKA for the benefit of American listeners at large.

The series came to an abrupt end early in April with this message from Newell, addressed to the American Radio Relay League:—"To date we have two live jaguars, one anaconda, one ant-eater, two monkeys, two rats, and mosquito birds. It is just possible I may be compelled to leave here . . . as I have been feeling pretty low. The doctor advises it. Anyway, don't ever come to Matto Grosso!"

Nothing has been heard from KUKU since.

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