

PUBLISHED WEEKLY

THE RADIO RECORD

AND
ELECTRIC HOME JOURNAL

Vol. III., No. 43.

WELLINGTON, FRIDAY, MAY 9, 1930.

Price, 3d.

First Hear **RADIOLA 47**

SCREEN-GRID

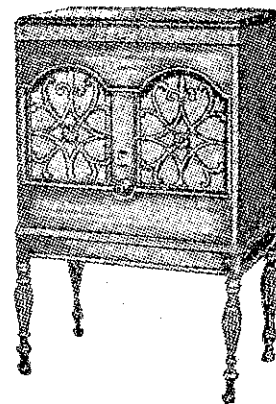
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The NEW Radiola-Gramophone Combination Instrument

For those discriminating people who can be satisfied with nothing less than the best—who delight in having at their command the immortalised music of the past as well as the entertainment of the present—who demand beauty of design together with mechanical perfection—RCA RADIOLA 47 was built.

This magnificent instrument, in the character and variety of the entertainment which it provides, knows no limitation of time or space.

Only RCA, the world's leaders, could build such a Set.



... and now the Radiola costs no more than an ordinary wireless set

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(Australasia) Ltd.

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NINE-IN-LINE
Precision-Built
RADIO



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Factory Representatives:

H.W. CLARKE Ltd.
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ANOTHER attempt to transmit a radio signal to the moon will be made in the near future at the United States Naval Research Laboratories of Washington. The signal is expected to be back to earth in slightly less than three seconds. To be exact, the signal should be reflected back to the laboratory in 2.8 seconds, this being the time necessary for it to travel the 250,000 miles to the moon and return at a speed of 186,000 miles a second. A high-frequency wave, probably between 20,000 and 30,000 kilocycles, will be used.

THERE have recently been two lawsuits in France, both concerned with broadcast reception, the verdicts in which have afforded considerable satisfaction to French listeners in general. In the first case the plaintiff was a doctor who possessed a wireless receiver which the experts found to be of good, careful, and scientific construction; the defendant was a cafe proprietor, possessing an electrical gramophone used for dancing which experts blamed as the cause of the disturbances. The motor attached to this machine, however, could be replaced by a silent piece of mechanism which would cause no disturbance. The cafe proprietor was compelled, under a penalty of 50 francs a day, for a month, to cause the interference to cease and also to pay 500 francs damages to the doctor. It may be mentioned that France has no official service to search for the cause of electrical interference and to compel those causing it to take steps to prevent such annoyances. In the second case, a tenant of Nancy who, as the result of an action brought against him by his landlord, had been ordered to pay damages and to forfeit his wireless set for troubling his neighbour, has succeeded in having the judgment upset and transferring the liability for damages from himself to the landlord. This extraordinary result was produced, apparently, by the evidence of the neighbours, who stated that, far from being annoyed by the music proceeding from the loudspeaker, they were, on the contrary, charmed with it!

ACCORDING to a recent report, Professor E. F. W. Alexanderson, the American physicist and radio engineer, has succeeded in transmitting wireless signals over a distance of 3500 miles using a wavelength of three metres. Arising out of his experiments, the particularly interesting fact was discovered that this long-distance transmission could be obtained only in a north-south direction. In a direction east-west, the maximum range was reduced very considerably and it is supposed that the difference is directly attributable to the earth's magnetic field. In connection with experiments in the use of such short waves, the tests made by Professor Esau, in Germany, and Professor Mesny, in France, are recalled. These investigators successfully covered distances up to 250 miles but, whereas their transmissions were received without any fading, Prof. Alexanderson is reported to have experienced considerable fading during

his experiments, due, very probably, to the very great distance covered.

A NUMBER of technical problems of no mean order had to be solved in planning the receiving plant of the Beelitz Sanatorium, the largest German nursing home for tubercular patients. In fact, the particular demands with regard to the efficiency of a wireless plant of such unusual dimensions could not be complied with by merely providing amplifier systems of enlarged size. The central receiving station is installed in the doctors' home, whence special cables lead to the seven open-air cure halls and the two pavilions comprising open-air cure balconies, sitting-rooms, parlours, and dining-rooms. In each of the two pavilions there has been provided a switchboard and acoustic-intensity adjuster enabling the volume to be controlled without resorting to the central station. Loudspeakers in the air-cure balconies sick rooms and sitting-rooms can be switched in and out from these switchboards. Eighty room loud-

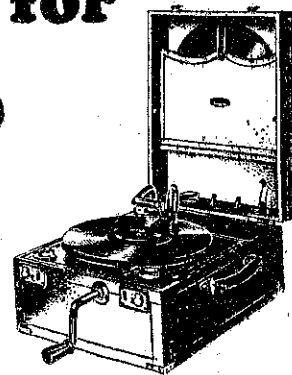
speakers, two high-power loudspeakers and a large number of headphones, all of which can be operated either simultaneously or separately, have been provided in the various houses and halls, by means of which the broadcast programmes of German stations, as well as any lectures or announcements by the nursing home management, can be transmitted.

A FEW world notabilities at first declined to be broadcast, but one by one they have capitulated. Even Harry Lauder, who long held out, gave way. Now we learn that Rudyard Kipling, who has steadfastly refused to face the microphone, broadcast a speech in December on the occasion of the speeches at the dinner of the United Association of Great Britain and France, held in London.

FEELING is running high in England with regard to the dullness of the B.B.C. Sunday programmes. It appears that Sir John Reith, director-general of the B.B.C., does not believe in the slightest suggestion of gaiety on a Sunday, and as one newspaper puts it, "In his view Sunday is an austere day—a day for Calvinistic sermons and perhaps (as a concession) a Bach cantata or an oratorio by Handel."

Radio Listeners!
Special Offer for ONE Month
£6/10/- LISSENOLA
Gramophone for
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A genuine Lissenola Gramophone, fitted with the famous Garrard motor, latest type reproducer and ball-bearing tone-arm, is yours for £3/17/6. For tone, appearance, and mechanically, too, the Lissenola ranks with the finest gramophone on the market to-day costing double the price.



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For electrical reproduction through your radio set we offer the above Gramophone, Model No. 4, with a Lissen Pick-up for £5, or with a Blue-Spot Pick-up for £6/17/6. Model No. 1 Lissenola Gramophone (a smaller edition) £2/17/6, or supplied with Lissen Pick-up £4 or with Blue-Spot Pick-up £5 17/6.

The LISSENOLA

Note.—Only a limited number for a limited period—so don't delay.

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HE general public does not realise the great debt it owes to such scientific pioneers as Maxwell, Hertz, Lorentz, Thomson, and Richardson—men who conducted their research without any monetary motive and with little or no thought to any possible future commercial application of their discoveries.

Through their efforts we came into possession of the electro-magnetic theory which has taught us so much about the electron theory and explained many a baffling phenomenon. Years later the data collected by these men was put to use by other scientists, who, in the process of research and development brought out the forerunner of the present radio valve.

Perhaps no other single achievement in the scientific world has done so much to break down international boundaries and promoted good-feeling throughout the world.

This is true because the radio valve is used not only in broadcasting stations and receiving sets, but also in the short-wave transmitting stations that are used for long-distance radio-telephony. Within the last month telephone service has been inaugurated between Australia and Great Britain. Here we see the result of many years of painstaking research and development work, each scientist doing his bit towards breaking down the great barrier of distance.

This same radio valve is responsible for the fact that telephone conversations over land lines can take place between Auckland and Dunedin in this country, and in the United States between San Francisco and New York, a far greater distance. Such commonplace everyday work, so vital to the business world, would be impossible were it not for this radio valve and its associated pieces of equipment which go to make up the amplifier necessary to bring the voice currents up to sufficient strength to make them audible at the other end of the line. Development work in voice amplification has necessarily reached out and taken in further fields.

FROM THE GRAMOPHONE TO TALKIES

WE see an example of this in the present-day gramophone records which are practically all electrically cut. That is, the artist sings to a regulation broadcasting type

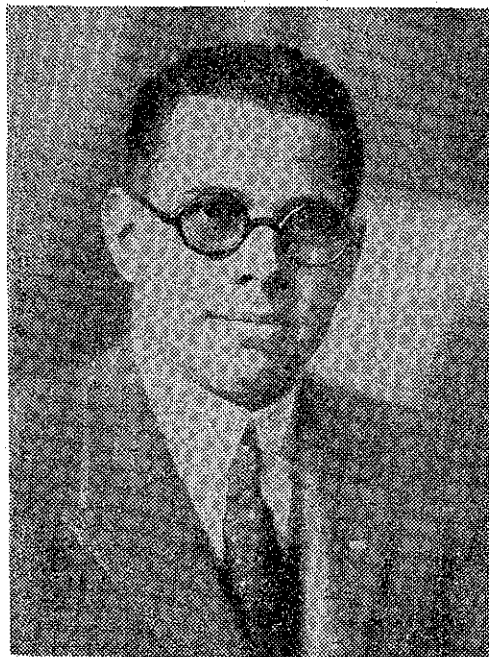
SCIENCE has removed the gag from the screen, broadcasting the application of its entertainers, adding coherence, giving deft, capable touches to the technique of film presentations. It was inevitable that soon or late the cinema play would discover its vocal chords, but there is no doubt that but for the radio valve—marvellous electric bottle which topsy-turved established ideas—the talkies might well be less developed than they are. Mr. McCutcheon writes entertainingly on the subject in the article featured below.

CHILD OF RADIO BECOMES FATHER OF THE TALKIES

By
W. A. McCutcheon

microphone which in turn is connected to a group of amplifiers of sufficient power to actuate the cutting mechanism for making the gramophone disc. This permits of quality in reproduction which could not be attained by the old-fashioned large horn. This particular phase of voice amplification, together with that of long-distance telephone amplification, made possible the present-day talkie picture.

It is quite true that several attempts were made years ago to have the gramophone located at the back of the screen and connected

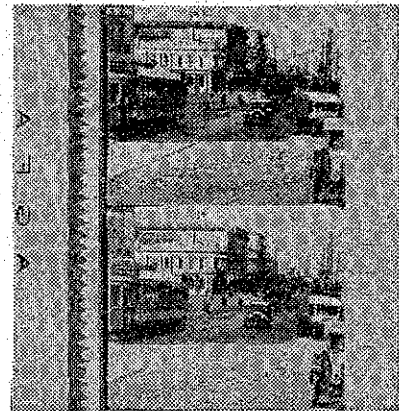


Mr. W. A. McCUTCHEON, director and chief engineer, Western Electric Co. (N.Z.), Ltd.

by a series of belts and pulleys to the projection machine in the booth. Needless to say, such a method was fraught with difficulties on every side, and the results did not warrant going into the talkie field on a commercial basis.

RECORDING FOR THE TALKIES

THE Bell Telephone laboratories, located in New York City, working in conjunction with engineers from the gramophone recording studios, developed a process whereby re-



A strip of talkie film taken in Auckland. The jagged marks on the left-hand side are the sound impressions.

cording on a disc could be done simultaneously and in synchronisation with a motion picture camera located at some distance from the gramophone disc-cutting machines. This made possible the talking picture of to-day in one of its present forms, and in August, 1926 the first practical commercial talking picture theatre opened in New York City.

While this was not the first talking picture theatre to open, it does mark a milestone in the talking picture industry, as, unlike its predecessors, this theatre is still open and running successful talking pictures.

TWO METHODS OF TALKIE REPRODUCTION.

THE disc method of talkie pictures differs considerably from the film sound-track method. In the latter process the sound is photographed on to the edge of the film by an intricate system of valves and amplifiers. Such an equipment may readily be placed in a motor lorry similar to the one you have probably noticed taking sound pictures in New Zealand not many months ago. By this means, items of interest to everyone in the world can be taken in their natural setting and with the corresponding sound.

It is even possible to transmit the picture and its corresponding sound-track over land wires or by means of radio and have it duplicated on a strip of film at the receiving end.

This has been done on a few occasions in an experimental way, and, while the results were not perfect, they justified the experiment, and encouraged the scientists to carry on in this line.

While this is not exactly television, it becomes a close approach to it, inasmuch as the sight and sound are presented before a new audience within two hours of their actual happening. It should not be many more years before the cricket enthusiast of New Zealand can go into a theatre and witness a cricket match being played in good old England.

The radio valve has truly conquered distance and shortened time. It has broken down barriers that have tethered the world since prehistoric times. It has been a great aid in times of war, but by its very elasticity of uses

(Concluded on page 2.)

Radio and Talkies

(Concluded from page 1.)

it has promoted peace and good-feeling and will do more in this line towards ending wars than it can ever hope to do in assisting war.

The radio valve might well be called the true parent of long-distance telephone, radio broadcasting, the talkies, and the present-day gramophone. Each one of these important cogs in the wheel of life owe their present-day perfection to the three-element radio valve.

Lower Prices

MR. E. T. FISK, managing director of Amalgamated Wireless, announced recently that the company had made an all-round reduction in the prices of the Radiola receivers. "This action," said Mr. Fisk, "is part of A.W.A.'s contribution to the development of Australian industry. After considering the outlook from every point of view, we have come to the conclusion that we will be able to increase our output substantially during the current year. This fact, combined with the improved facilities and enlarged space in our new works will enable A.W.A. to reduce the cost of production. We have sufficient faith in Australia's future to reduce the price to the public immediately."

Wanted—A Tune

UNCLE GEORGE, of 2YA, has received from a listener the following radio hymn. He purposes to use it in the Sunday children's service. As announced over the air Uncle George invites listeners to send in a suitable tune for the hymn. Should the tune not be original, then the writer's name must be given. Uncle George reserves the right of final selection of the tune to be used. Address to Uncle George, 2YA, Wellington.

*The earth is full of wondrous things
That greet us everywhere—
The glowing sun, the bird that sings,
The flowers sweet and fair.
The mountains tall, the waving trees,
The rivers running by;
The countless wonders of the seas,
The glories of the sky.
Thou gavest these, O Lord, and more—
Thou gavest men a mind
The realm of science to explore,
And there new wonders find.
He found at length the power to speak
Across the land and sea—
So in our service, Lord, we seek,
To use this power for Thee.
That those who dwell beyond—away—
In earth's remotest place,
May listen as we sing and pray,
Before Thy throne of grace.
To every listener in this night,
Thy blessing, Lord, impart
That all may worship Thee aright,
With simpleness of heart.*

—John Storm.

National Hospital Day

ON Sunday, May 11, National Hospital Day will be celebrated at Wellington Hospital by a special service at 3 p.m. This is the birthday of Florence Nightingale, and the intention is to make the celebration an annual fixture. Those conducting the service at Wellington Hospital will be the Rev. H. E. K. Fry, of St. Mark's, and the Rev. David Jones, while Dr. T. F. Corkill, president of the Wellington Branch of the B.M.A., will address the gathering.

"Nothing But the Truth"

MR. J. F. MONTAGUE and his Comedy Players are to be congratulated on another notable success, "Nothing but the Truth," from 1YA last Tuesday, April 29, was bubbling over with laughs, and in this rollicking farcical comedy the Comedy Players achieved a triumph. Undoubtedly this broadly comic class of play has a strong appeal for listeners generally, and hearty laughter must surely have greeted the innumerable "hits" of Montgomery's well-known play. The pity was, as always, that the performers could not hear how their efforts had tickled the ears and minds of their large "audience." Truly a noteworthy performance, on which Mr. Montague is to be warmly congratulated.

HEAR! The HEAR! Farrand Inductor Dynamic Speaker

A New type of Unit with many Outstanding Qualities.

Tone ?

True and lifelike—with full round bass—yet with no sacrifice of those subtle higher tones which are so important and which so many other speakers fail to reproduce satisfactorily.

Volume ?

Yes—decidedly yes—if you desire it, as you may judge for yourself.

Adaptability ?

Wonderful—sensitive enough to work beautifully from a one-valve amplifier, and yet has ability to handle the output from a large push-pull amplifier.

Any current supply required ?

None— isn't that splendid! No field to feed either by battery or rectifier from main supply.

Baffle ?

Yes—all good cone speakers use a baffle, but as the deep bass notes are there naturally in this speaker, the baffle may be of the simplest.

Hum ?

Whisper this—none!—from its very nature this speaker cannot add any.

Price ?

Ah! the price—a pleasant surprise awaits you on enquiry from

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30-32 Lower Tory St., Wellington
Agents for New Zealand

Girdling the Earth by Radio

Wireless Telephone Service Opened between England and Australia

THE recent establishment of a regular wireless telephone service between England and Australia is an event of extraordinary interest and importance, for it is now evident that present methods of communication will undergo a revolutionary change when people are able to talk to one another from the remotest places on the earth as easily as if they were together. And this is what this most recent achievement implies. Of even greater significance to New Zealanders is the announcement just made by Sir Joseph Ward that negotiations are almost completed for the introduction of a similar radio telephone service between Wellington and Sydney. Thus, New Zealand will form one more link in the ever-growing international radio telephony communication chain that must eventually embrace every country of importance in the world.

cricketers, and briefly surveyed the Naval Conference, and exclaimed in happy vein: "What an age we are living in! What would our grandfathers have to say about it?" He closed with cordial greetings to Mr. Scullin and the Australian people.

Mr. Scullin's reply referred to his meeting with Mr. MacDonald twenty-four years ago, his task of straightening out the adverse trade balance, the Naval Conference, and the destination of the cricket "ashes," adding, facetiously, "There will be no embargo in this country on the importation of ashes." Then followed his greetings and "Au revoir," to which Mr. MacDonald replied quite plainly: "Au revoir, my dear Mr. Scullin."

The entire ceremony, which was startlingly faultless, was broadcast throughout England and Australia, and created a profound impression upon those who realised the immense importance of the newly-established service.

At the Other End.

RECEPTION in London was almost perfect, according to reports since received. There was not the remotest suggestion of atmospheric, though occasionally slight grading was apparent.

Great interest was manifested in Mr. MacDonald's disclosure that it was hoped that shortly Australia would be connected with the greater part of Europe and the whole of North America, via London.

Listeners were also greatly delighted at Mr. MacDonald's "By the by, this ashes business." Mr. Scullin's voice carried so perfectly that Mr. MacDonald said in closing: "You seem just to have been in the next room." Mr. Scullin retorted: "The same with you." Finally there was Mr. MacDonald's "Au revoir till September. All best things attend you. Ta-ta."

Photographs of the historic scene were then taken, after which Mr. MacDonald went to the journalists' room bubbling over with enthusiasm. He said:

"You know I had not heard Mr. Scullin since 1906, but I recognised his voice at the first word."

A further conversation between Mr. Lloyd George and Mr. Hughes was then received with equal clarity.

Reception in New Zealand.

LISTENERS throughout New Zealand had very little difficulty in tuning in either the rebroadcast of the proceedings or to the actual short-wave transmission. The ease with which the conversation was maintained was amazing, even in these days of revolutionary happenings.

Mr. R. Leslie Jones, of Wellington, writes:—

"After many months of short-wave testing between VK 2ME (Sydney) and

the London short-wave stations, particularly GBX, the commercial wireless 'phone service was officially opened last Wednesday, April 30.

"Various officials had taken the opportunity of conversing between Australia and London during the days preceding the official opening, and much of interest was heard by short-wave listeners. Indeed, during the several months' testing, a feast of interesting information has been available to short-wave listeners. The most popular period of listening-in is just about the evening meal hour period onwards for a couple of hours. VK 2ME (Amalgamated Wireless, Australasia, Ltd.) manufacturers of the apparatus used at the Australian end, transmitted during the tests principally on 28.5 metres, this being the wave length used for the commercial service. Tests were also carried out on 15 metres; and the tests were in periods. Similarly, the commercial service will be conducted in periods, no doubt, for the time being.

"After Mr. MacDonald and Mr. Scullin had finished their talk, Mr. Lloyd George and Mr. Hughes maintained a conversation for a few minutes. The strength of signal from VK 2ME was wonderful; in fact, seldom, if ever, has the volume and clarity been as good. Considering the fact that speech was from Canberra via Sydney, it was all the more marvellous. During the preliminary tests, just before 7 p.m., London was almost perfect; but it was necessary to alter the tuning a little when changing from 2ME to London; some atmospheric were noticeable on London's wave length."

The New Service.

AS was the case in the radio telephone service between England and America, detailed experimenting and endless testing were maintained over a period of twelve months or more before the service was announced. In the case of the recently-inaugurated service, however, the engineers of Amalgamated Wireless (Australasia), Ltd., were some time ago perfectly satisfied with the efficient system they had evolved. The commercial side of the question, however, presented numerous difficulties which took some time to overcome.

Conditions in the case of a cable service are constant, but with long-distance radio telephony considerable variation in the efficiency of transmission and reception is experienced, not only in the hours of the day and night, but in the seasons of the year also. Thus it can be easily seen that it is eminently desirable to collect the necessary transmission data before a regular service is brought into operation.

That the establishment of the service has filled a long-felt want is easily seen by the heaviness of the traffic already encountered by the service.

Two nights after its inauguration there were twenty-four calls at £6 each, put through during one night, while the maximum number of calls were already booked for the following night. The charge made for calls is at the rate of £2 per minute, with a minimum of three minutes.

It is reported that application for calls at the London end are equally satisfactory.

Radio v. Cable.

THE advantages of communication by radio rather than by cable, though at first not apparent, yet nevertheless are almost overwhelming. Only one important disadvantage exists, and that is the lack of secrecy in radio messages. However, it is believed that it will ultimately be possible to make such messages meaningless to everyone but the intended recipient—in fact, the radio service across the Atlantic has been made practically so.

No doubt the Sydney-London service will improve in time in this particular.

The desirability of using radio telephony in business matters is apparent. It might take half a day to settle an important business deal over the cable, which necessitates possibly several questions and answers to arrive at finality, whereas with radio telephony points are cleared up as the conversation proceeds, and finality may be reached in five minutes or less. The added advantage of personal contact (Concluded on page 9.)



Mr. E. T. Fisk,
Managing Director of
Amalgamated Wireless of
Australasia Ltd.,

whose foresight and energy, coupled with detailed mechanical knowledge, was responsible for one of the great wireless feats of the age. In opening the service Mr. Fisk has done much to completely break down the isolation of Australia and New Zealand from the Old World.



At 7 p.m. on April 30 there took place a ceremony which, though of only fifteen minutes' duration, will be recorded as one of the most important events in the history of international communication. The ceremony was that of the inauguration of the new radio telephone service between England and Australia, and though the two principals taking part were separated by almost half the globe, yet each chatted to the other with as perfect an understanding as if both were in the same room.

The Ceremony.

THE Australian side of the broadcast took place at Canberra, the Federal capital, and from thence was transmitted by land-line to the high-powered short-wave station 2ME, owned and operated by Amalgamated Wireless (Australasia), Ltd. The signals were ultimately broadcast by this station, to be picked up on the other side of the world by the English station at Rugby.

As the pre-arranged hour for the event approached repeated tests were made at both ends to ensure that there would be no hitch in the proceedings. Punctually at 7 p.m. (N.Z. time), Mr. Scullin, Prime Minister of Australia, speaking from Canberra, called Mr. MacDonald, England's Prime Minister. Promptly and clearly from the other side of the earth came the reply, "Yes, Mr. Scullin. How are you?" The entire broadcast was indeed uncanny.

Speaking with considerable feeling and sincerity, Mr. MacDonald delivered a short but intensely interesting address, mentioning many matters of mutual interests to both countries. He paid a tribute to the engineers responsible for making the spoken word possible between Great Britain and Australia, and said their achievement would be the means of knitting more closely together the two countries.

He discussed in the clearest tones Australia's financial difficulties and extended sympathy to Mr. Scullin in his efforts to right the ship of State, referred to the arrival of the Australian

The New Zealand Radio Record

—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

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

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

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

WELLINGTON, FRIDAY, MAY 9, 1930.

THE RADIO TELEPHONE AS AN EMPIRE LINK.

THE day is at hand when New Zealand will be able to engage in direct telephonic conversation with Britain. The service commercialising that function which has just been opened between Australia and Great Britain is a long step towards the extension of the same facilities to the Dominion. Immediately following upon the brilliant inauguration of the British-Australian service by the initial conversation between the Prime Minister of Great Britain, Mr. Ramsay MacDonald, with Mr. J. R. Scullin, Prime Minister of the Commonwealth, the Prime Minister of New Zealand, Sir Joseph Ward, announced that arrangements were already in hand for the inception of radio telephonic service between the Commonwealth and the Dominion. "Most of the material," states Sir Joseph, "is already on hand, and the balance is expected within the next two months. It is hoped," he adds, "that this telephone service will be of great assistance to business men in New Zealand. It is hoped that at a later date those who wish can be switched through at Sydney to the new telephone service inaugurated there the other day."

THE dramatic nature of the service instituted between Australia and Great Britain focused public attention in both countries upon the event. The conversation between the heads of both States was broadcast both throughout Great Britain and throughout the Commonwealth, thus enabling the peoples of both countries to participate in the thrill of so outstanding an occasion. This consummation is the outcome of technical experiments which have been conducted by the two parties interested—Amalgamated Wireless of Australia, Limited, and the British postal authorities—for some years past. Technical efficiency sufficient to warrant the institution of the service was attained some twelve months or more ago, but time was required to complete the negotiations and finalise the arrangements for the administration of the service.

THE inception of the service between Australia and New Zealand will be of momentous import. It will directly facilitate and enlarge the trading interests and transactions of both countries. That develop-

ment, however, is the least important of its potentialities. Our trade association with the Mother Country is far closer than with Australia, and we will not receive the full benefit from this modern miracle until it is possible to speak through Australia direct to Great Britain. With the spanning of the immense distance between the Commonwealth and the Home Country, it becomes a commercial certainty that at need those at the heart of the Empire can communicate direct with any part of the globe.

THE vision of the past thus becomes a commonplace of the present.

What will the effects be? The miracles of science have followed so closely of late years that humanity accepts each further manifestation almost with a blase disregard of its importance. That, however, hardly applies to this latest development. The possibilities are so immense as to immediately excite the imagination. To be able to converse with interests 10,000 miles away; to receive an immediate response and suggestion or counter-thought to ideas issued; to meet another point of view on an issue of moment; these things cannot but stimulate closer contact, fuller mutual understanding, and a fuller sense of co-operation and unity. The radio telephone, interlinking different parts of the Empire, will go a long way toward killing that sense of distance now prevalent. It will promote the idea of unity. It will lead to a closer association of business interests, commercial and political, and a more intense development of trading activities. It will thus come as a definite stimulus to the economic unity of the Empire, toward which goal there is evidence from all parts of the British Commonwealth that public thought is trending. The thought everywhere is toward closer relationships and more intense mutual trading activities. That trend will be stimulated by the service made available by radio.

THIS development can perhaps rightly be described as the biggest thing that has ever happened to New Zealand. It puts us in touch with the world in a way never hitherto possible. Australia now has a communication service, not only to Great Britain, but also to Canada, and it is hoped that in a little while she will also have a direct telephonic service to the United States and Europe. By the link to be established between the Dominion and Australia, the advantage of communication with the outside world will be secured. Thus the radio age spreads, and radio places in the hands of humanity an instrument, the full effect of which upon the future development of the race cannot as yet be assessed.

Inter-Varsity Debates by Radio

Students Claim Many Advantages

THE prospects of conducting university debating contests by radio were discussed at the meeting of the council of the National Union of University Students in Auckland recently.

"If we succeed in arranging them, the debates will probably be the first ever organised on such lines," said Mr. W. J. Mountjoy. "We are hoping that the Broadcasting Company with the co-operation of the Post Office, will be able to install land-lines for relay between the main centres. In this way, if the contest is between an Auckland team and a Wellington team, neither need leave its college hall. Audiences in both centres will be able to hear the debates. The complete debate can be carried on with the usual rules, and brought to a conclusion in the one night. All four centres will be able to take part."

Continuing to outline the advantages of such a method, Mr. Mountjoy said

that travelling expenses for the various teams would be obviated and audiences would be made much greater. He mentioned that the Victoria debating team, which had travelled so successfully last year in the United States of America and Canada, had never spoken to such large audiences as in New Zealand. In Auckland 3000 had attended one debate.

The matter of arranging "wireless debates" during the coming year was left to the Debates Standing Committee.

The intention of the promoters is for the two North Island universities, in Auckland and in Wellington, to hold a debate, and then for the South Island universities to debate a question over the line from Christchurch to Dunedin, the winner of the North Island debate afterward to meet the winner of the South Island debate. This final debate would, of course, be broadcast by all four stations.

Mullard

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Embodies all improvements
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Continuing Her Tour

Miss Harray at 3YA

HAVING fulfilled her engagements at 1YA and 2YA, to the great pleasure of all listeners, Miss Edith Harray will appear at 3YA next Wednesday evening, May 14.

Miss Harray is a charming pianiste and her pianoforte solos have been no less enjoyable than her singing. At 3YA she will play Rachmaninoff's "Melodie in E" and three numbers by Chopin, "Polonaise in A," "Nocturne in E Minor" and "Waltz in G Flat." Her vocal numbers on this occasion will include two songs by Mr. R. A. Horne, of Christchurch, "Slumber Song" and "Ave Maria." Others will be Lawrence's "Achal by the Sea" and three of her own compositions, "The Young Rose," "Virginian Love Song" and "Boat Reverie."

A Scottish Soprano

Broadcasting Artist of Note

THE visiting Scottish singer, Miss Greta Don, who will sing for the Wellington Harmonic Society on Saturday evening, May 10, when the concert was broadcast by 2YA, will be heard from 3YA on Thursday, May 15.

Miss Don has made a special study of the singing of the melodious "Songs of the Hebrides." She has sung extensively for the B.B.C., and has also sung in America. As a broadcasting artiste her singing is delightful.

Included in the six lovely Hebridean songs which Miss Don will sing at 3YA will be "Kirsteen," one of the songs not frequently heard. To an air from Skye, Kenneth Macleod put Gaelic words which Mrs. Kennedy-Fraser has translated. The looker-on asks Kirsteen: "Who will walk with thee by the deep blue sea?" "Who will be by thy side at the high spring tide, walking with his bride?" And lastly, "When thou, grown frail, fare with Binne Bheul, who'll fail with thee sail?" Binnie Bheul ("Mouth of Music") is, explains the writer, "one who needed neither rudder nor sail, but only the wish of her own heart to carry her in her own barge to where the sun never sets, the wind never rises, and the music never ceases."

It is not alone in Scottish songs that Miss Don has earned distinction. She studied singing in Edinburgh and London, where she also attended the London School of Opera. She has given recitals in Edinburgh, London, Bourne-mouth, etc., and sung in opera with Glastonbury players. She has appeared in oratorio with the Reid Symphony Orchestra, the Leeds Symphony Orchestra, the Scottish Orchestra, and other societies.

Miss Don will be singing from 4YA on Sunday, May 18, when the programme will also be broadcast by 3YA.

Rad. Listeners' Guide, 1930 Edition.

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Available in May.

EDUCATION BY LISTENING

W.E.A. Offers Opportunity to Listeners

DISCUSSION CIRCLES TO BE FORMED

COMMENCING this month, two series of talks (six each) will be broadcast by Mr. N. M. Richmond, B.A. (Director of the W.E.A.), from 1YA. Many listeners must have felt, after listening to a talk, that they would like to discuss various points raised by the speaker. In view of this the W.E.A. is prepared to assist in the formation of wireless discussion groups. It will supply each group beforehand with outline notes of the lectures, together with suggested questions for discussion, so that each member will be able to follow the subject-matter clearly and take part in a discussion by the group.

All that is required is a good group-leader, good wireless reception, and a silent and comfortable meeting place. Where group listening is not possible, it is quite effective if the members listen in their own homes and then meet later on for discussion. (This overcomes, for example, any difficulty in meeting on the same night as the broadcast, or at that particular time of day.) The group-leader will be invited to keep touch with the lecturer by sending in reports, and asking questions, or making criticisms and suggestions on behalf of the group. If individual members wish to send in written answers to any of the questions, the lecturer will also be glad to criticise them as far as he can. A charge of 1/- per member for each series will be made to cover cost of the notes and correspondence involved.

Individual listeners who wish to participate in the scheme, but cannot join a group, are invited to do so on the same terms. Sample copies of the notes to the first talk will be sent free on application by prospective group-leaders and others, and group or individual subscriptions should be forwarded early to ensure receipt of the full notes as they are issued.

1st series of talks—Life and Labour in the Nineteenth Century: (1) English life in the Eighteenth Century; (2) The Revolution in Agriculture and Transport; (3) The Industrial and Commercial Revolution; (4) The New Life in Town and Country; (5) Workers' Movements; (6) The Course of Opinion.

2nd series.—Problems of Capital and Labour: (1) Causes of Industrial Unrest; (2) The State and the Worker; (3) The Trade Union Movement; (4) The Wage System; (5) The Machinery of Industrial Relations; (6) Industry and the Democratic Ideal.

Hints for Study.

(1) The lecturer cannot say very much in twenty minutes. Many listeners may want to pursue the matter further and make a study of the subject, either individually or through discussion with others. The outline notes, which will be supplied, are meant to assist this object.

(2) Read the notes through carefully both before and after the talk. The preliminary reading will enable you to follow the talk much better, and the subsequent reading will help towards a discussion of the points suggested. The success of the discussion itself will depend a great deal on the choice of a good leader or chairman.

(3) It need scarcely be said that, if you want any real grasp of the problems dealt with, a good deal of further reading is necessary. A few books are suggested at the end of each outline, and the W.E.A. may possibly develop a library scheme whereby such books would be made available to circulate among the groups. It all depends on the demand which is expressed.

Address all correspondence to the Director, W.E.A., Old Grammar School, Auckland.

Sun Spots and Radio

Maximum Every 11.4 Years

TO radio listeners the question of sun spots is a very interesting subject. Researches and the analysis of astronomical records for the last 100 years have shown that the intensity of sun spots waxes and wanes. The maximum is reached every 11.4 years. This peak

has just been passed and the intensity of the sunspots will be on the decline for the next 5½ years. In connection with the above, which is not advanced by astronomers as having direct bearing on radio reception, New Zealand radio listeners will recall how a few years ago, when sunspots were at their minimum, they had no difficulty in tuning-in regularly to KGO (California) and other U.S.A. stations on a three-valve set. It was very likely due to the increase in the sunspots that from then on KGO gradually slipped beyond the capabilities of that receiver.

Rugby Football

British Team's Tour

NOW that permission has been given to broadcast the matches played during the coming tour of the British Rugby team, lovers of sport throughout New Zealand can look forward to an unprecedented year. The visit of the British team will be the greatest event which has yet happened in broadcasting in New Zealand.

The first match of the tour will be played at Wanganui on Wednesday, May 21. The four Tests will be broadcast from all stations simultaneously, but those provincial matches which are to be broadcast will be covered by the

New Uncle for 3YA

A NEW radio uncle in the person of Mr. T. Vernon Griffiths, M.A., Mus-B., has been enrolled at 3YA. Mr. Griffiths is lecturer on music at the Teachers' Training College, Christchurch. He will be a distinct acquisition to the children's sessions. In Radioland he will be known as "Uncle Charlie." He will conduct the sessions every second and fourth Saturday.

On the Map

THE living-room of a lighthouse on a lonely part of the New Zealand coast forms the unusual scene of "Cape Forlorn," the new drama by Frank Harvey, which has just been produced at a London theatre.

AMATEUR RADIO SOCIETY OF WELLINGTON

ANNUAL MEETING.

THE Annual General Meeting of the Society will be held in the Cambridge Terrace Congregational Church Hall on TUESDAY, MAY 13, at 8 p.m.

Following the presentation of the annual report and election of officers for the new year.

MR. PRESTON B. BILLING

will give a demonstration of one of the latest All-electric Sets.

All listeners, members and prospective members are cordially invited to be present.

Subscriptions, which are now due, may be paid at the meeting or forwarded to the Hon. Secretary, P.O. Box 303, Wellington.

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A. G. H. LAWS, Hon. Secretary.

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S-O-S

TRAVEL IN COMFORT BY CAR

WELLINGTON - PALMERSTON
NEW PLYMOUTH

OUR Auckland correspondent writes: The 1YA Station Choir's second performance of the year, a miscellany of part songs, duets and solos, has been postponed for a week from the date previously announced and will now take place on June 4. Included among the items will be two compositions by Mr. J. L. Heath, of Auckland, which will be rendered by Mr. Len Barnes.

MISS MILLICENT O'GRADY, a well-known and popular 1YA artist and a member of that bright combination the Radio Scamps, has left Auckland for Christchurch. No doubt her sweet soprano voice will soon become known to listeners to 3YA. Her place in the Radio Scamps will not be easy to fill.

DURING the last fortnight Mr. Eric Waters, station accompanist at 1YA, has been away on holiday. Mrs. Evelyn Prime took his place at the studio piano during his absence.

NEITHER rehearsals nor actual broadcasts at the 1YA Studio are without their amusing interludes. At a recent rehearsal an artist having finished a song was requested by the conductor to begin again at the words "Come to my great heart." "Oh," said another artist, "I thought you had been singing 'Come to my great aunt'." The studio echoed to a spontaneous burst of laughter from the assembly, and it was several minutes before the rehearsal could continue.

ON May 22 an interesting aspect of the programme is that Mr. Reg Morgan's orchestra will not only provide the music for the concert but also for the whole of the following dance session. Talking of dance music, a listener reminded me recently that much enjoyment used to be derived from the relays from the Dixieland and Click Clack cabarets, which were a feature of local programmes a year

NOTES and NEWS from the NORTH

or two ago. If such relays could be arranged for this winter they would be greatly appreciated. 1YA already provides us with good dance sessions of gramophone records, but the cabaret bands mentioned would be more likely to induce listeners to hold "radio" dances.

A COMBINATION which is to be heard for the first time from 1YA on May 24 is Miller's banjo-mandolin quartet, which is expected to be very well received. Another new artist to appear before the 1YA microphone on the same evening is Mr. G. C. Tolerton, a humourist, who will provide some novel "stunts."

IN 1928 it was announced that after trying several sites the 1YA authorities had come to the conclusion that one at Orakei was the most suitable for a receiving station for distant transmissions which were to be rebroadcast. The site was on a Defence Reserve, but permission to use it for a receiving station was granted. "Call Up" has been asked if this site is still, or ever was, used as an official receiving station. As permission to erect a building on the site could not be obtained, the site has not been used. The receiving station that is used for reception of distant transmissions for rebroadcasting is run by Mr. Cooper, of the Devonport Fire Station, at which quarters his set is installed.

"A Nose for News"

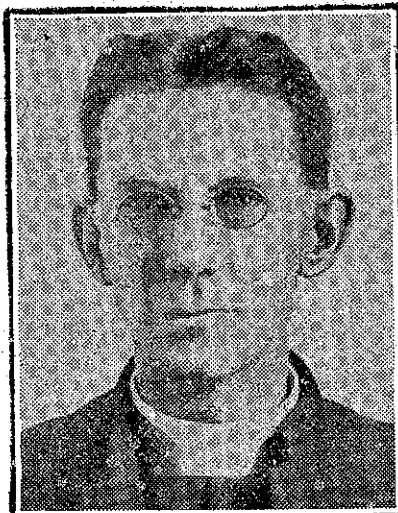
MR. OWEN PRITCHARD, programme organiser at 1YA, would undoubtedly make a good newspaper reporter, for he has what is termed "a nose for news." In his case, of course, "news" represents new artists, or, rather, artists new to the microphone. Mr. Pritchard is continually on the search for such artists and has a happy knack of discovering talent unexpectedly. It was while on one of these searching expeditions round Auckland that chance brought him across Elton Black and Alice Bennetto, two professionals who have since achieved great popularity with local listeners. Mr. Pritchard's latest "find" is a professional concertina player, whom it is expected will be heard from 1YA before long.

Boxing Broadcasts

THE Northern Boxing Association now being under the control of a newly-elected executive, Auckland listeners have renewed hopes that the broadcasting of the association's matches will soon be resumed. So far this year, the association has refused permission for any of its contests to be put over the air, although

A Departing "Uncle"

THE Rev. Lionel B. Fletcher, who conducted the first broadcast church service in New Zealand, and who, as Uncle Leo, is a great favourite with all the children who listen in to 1YA, is leaving the Dominion in July and will be absent for a year. During this period, the Rev. Albert V. Whiting will fill the pulpit at Beresford Street Congregational Church and he



will also, as "Uncle Bert," conduct the Sunday evening children's services at 1YA.

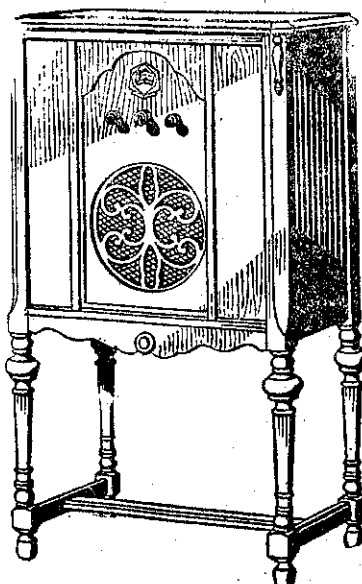
it was rumoured recently that they had changed their minds on the subject.

It is interesting to note that since their broadcast ban came into force the houses have been poorer than formerly. The local wrestling association has always realised the benefits of having their contests broadcast and has profited accordingly.

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Gramophone Motors Care of the Spring

SO many of us, one fears, get into the habit of regarding winding the radio gramophone as an affair of evil, and consequently of treating it as such. The result is, of course, that the unoffending mainspring of the machine regularly becomes, as a matter of practice, subjected to a series of the most convulsive and violent movements during the process of winding up.

The average single spring of a small motor is enclosed in a steel case, and, as such, constitutes the drive of a "single spring" motor. Double and triple spring motors have their individual springs arranged in tandem, but, nevertheless, in nature the springs are the same.

steady motion. The winding speed need not be at all slow, but all semblance of jerkiness should be avoided if the life of the spring and its pristine efficiency is valued.

It is best not to wind the spring to its maximum extent, for by so doing not only may the spring become unhooked within its case, but the tendency will be for the tightly compressed spring coils to squeeze out the lubricant between them. Examination of the spring cases of motors which have continually been wound up to their

machine. For this reason, automatic stops fitted to machines have to be extremely good ones before their use is to be recommended.

Finally, if your machine will run for more than one or two records, avoid the practice of rewinding after each record has been played. Such a habit results in only one portion of the spring being used. The consequence is that this latter portion eventually undergoes partial fatigue, while the unused portion remains fresh.

With GRAMOPHONE and RADIO

BY "B NATURAL"

ing it will prove their critical taste; never from any acquaintance of his works. A man who could admire Bach and Beethoven as Mendelssohn did could not be superficial. These two are still the greatest of musicians architecturally, and the foundations on which music is built up to the present time. Mendelssohn's nephew says: "The profound masterpieces Bach and Beethoven had bequeathed to posterity were a treasure hardly known in the years 1828 and 1829, and the fact that they were eventually appreciated by the German nation is in a great degree due to the merit of my uncle, Felix Mendelssohn-Bartholdy."

Writing from London in 1829 to his family, Mendelssohn himself says, with his usual quaint humour: "On Wednesday, I shall to the dismay of all musicians, play Beethoven's Concerto in E Flat" (the now famous "Emperor").

In another letter of the same year dated August 7, he writes: "In order to make you understand how extraordinarily the Hebrides affected me, the following came into my mind there (viz., 21 bars of the overture to Fingal's Cave). Now and then you find beautiful parks, but deserted, and broad lakes, but without boats, the roads a solitude. Fancy, in all that rich glowing sunshine, which paints the heath in a thousand divinely warm colours, and then the clouds chasing hither and thither.

"It is no wonder that the Highlands have been called melancholy."

Here speaks the artist as well as the musician, for Mendelssohn was a water-colourist of no mean order. Mendelssohn alludes to this overture under a variety of names: "The Hebrides," "The Solitary Island," "The Isles of Fingal," and finally "Fingal's Cave."

AMONG the most intimate associates of Mendelssohn was the famous violinist, Ferdinand David. In 1838 Mendelssohn began the Violin Concerto which was destined to become (Concluded on page 21.)

Mendelssohn

Life and Work

IN view of the fact that the Wellington Symphony Orchestra's next concert (Thursday, May 8), will devote the first half of its programme to three of the finest works of Felix Mendelssohn, the following brief appreciation of this composer will be of interest.

Most of us at some time or other have come across the people who either worship Mendelssohn and all his works, or just dismiss him from their minds with such terms as "milk and watery," "superficial," and "pretty, pretty."

When asked the reason for their sneering, you will invariably find that they know very little about him beyond a few of his lighter compositions for the piano; or that they are repeating what someone else has said, think-

NATIONAL PARK

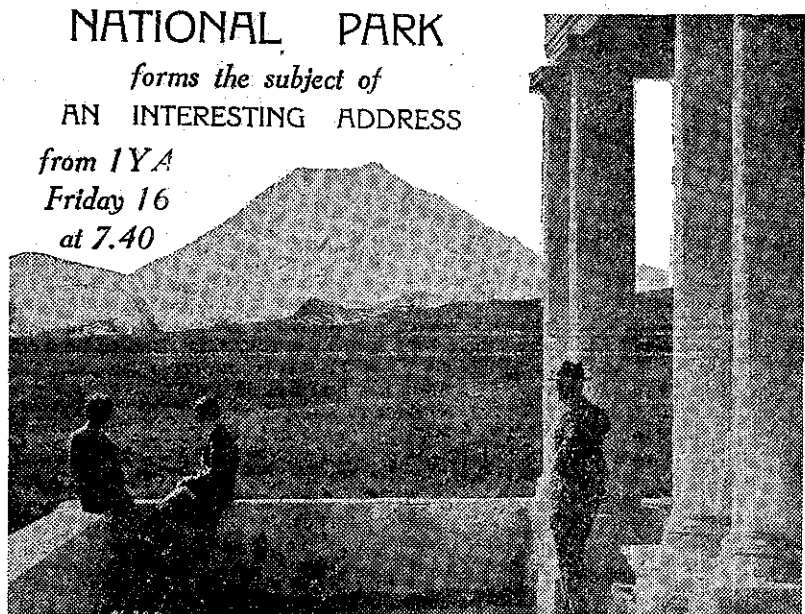
forms the subject of

AN INTERESTING ADDRESS

from IYA

Friday 16

at 7.40



Springs are manufactured in varying lengths, breadths, and tempers. Other factors being equal, the spring strength available for driving the motor depends upon the thickness, length, breadth, and temper of the steel band. For a given cross section and temper of material, the longer the spring, the less intense is its effect.

If a spring is wound up jerkily it is subjected to a series of strains which effect it unequally throughout its length. Continuance of this practice results in the spring being weakened in parts. Consequently, a spring in this condition can never maintain a constant number of turntable revolutions per minute, and so the performance of the radio-gramophone decreases in efficiency.

Always Wind Steadily.

IN winding, the handle of the machine should be turned with a gentle and

maximum extent will often reveal the presence of squeezed-out grease on the exterior of the case.

On the other hand, too, the radio-gramophone motor, after use, should never be allowed to run right down to the bottom. Always stop the motor just before it runs out. Otherwise the spring may become so loose that it may become unhooked.

It is bad practice to assist the turntable of a radio-gramophone to attain its full speed after the motor has been turned on by giving it a push with the fingers.

Injuring the Governor.

THIS injures the governor springs, and in no way assists the main-spring. Nor should the turntable be stopped very suddenly after the record has been played. It is best to stop the turntable very gently with the fingers before applying the brake of the

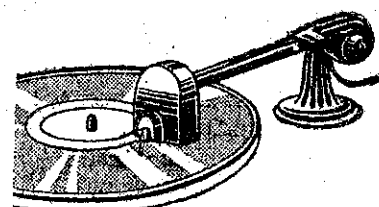
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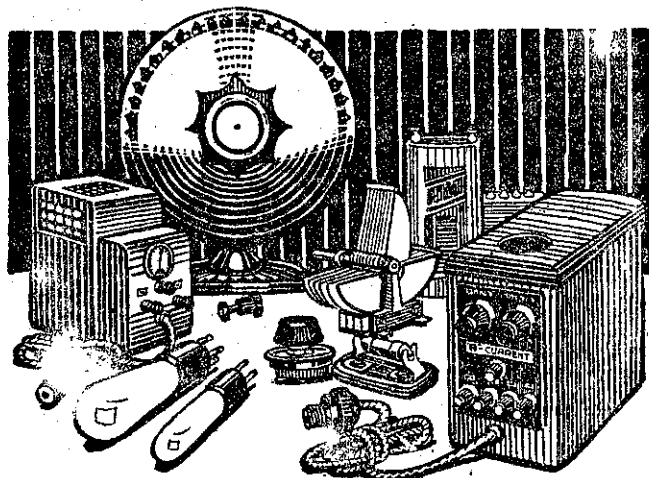
The counter-balanced tone arm is shown in the above illustration of the Model 124A De Luxe. Ask your nearest agent for a demonstration.

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R3

Interesting Contest

Large-Scale Relay

THE two previous contests between Sarron and Donovan created such great interest throughout New Zealand that extensive arrangements were made by the Broadcasting Company to broadcast the description of the fight from all stations. Relay lines connected Dunedin with the four stations, and the description from the ringside was given by Mr. G. Aldridge, who successfully described the other two bouts.

In Wellington the reception was good, and was only slightly marred by a little parasitic noise from the relay lines. Every word was clear, and the atmosphere that surrounded the two fighters in Dunedin was aptly conveyed by radio.

In describing the conditions, Mr. Aldridge said that there was a huge crowd, and that large numbers had been drawn there by the descriptions they had heard of the previous fights. The whole relay was most successful, and both the Otago Boxing Association and the Broadcasting Company are to be congratulated on their foresight in making arrangements for such a broadcast.

ACCORDING to a statement made in Dunedin by Mr. A. R. Harris, general manager of the Broadcasting Company, who visited the southern city in connection with the broadcasting of the Sarron-Donovan fight, the Radio Broadcasting Company intends, if possible, to broadcast the Leckie-Donovan match at Napier on Saturday, May 24. This broadcast will depend on permission being granted to describe the match and to the availability of land lines. The intention is, if plans are finalised, to broadcast the description from 2YA and 4YA. As Dunedin is Leckie's home town, very great interest in the match is being taken in that city, for, as Leckie is now fighting at his old form, it is anticipated that as great interest will be taken throughout New Zealand in this event as in any of the Sarron-Donovan matches.

Indicative of the interest displayed in last Saturday's event, the announcer, Mr. G. P. Aldridge, secretary of the New Zealand Boxing Association, received during the course of the fight and afterward about 100 telegrams from all parts of New Zealand. One came from Kaitia, near the North Cape.

The Worries of a Producer

Radio Plays That Go Wrong

THE ways of radio-play producers is often beset with unexpected difficulties. Players fall sick, lose their parts, or get run over a few minutes before the performance, arrive at the station occasionally after the performance has begun: "So sorry, but my watch was wrong"; sometimes a substitute has to be found at a few minutes' notice; sometimes the gadgets

Children's Sessions

FROM 1YA.

TUESDAY, MAY 13—

Uncle Dave will have with him the pupils of Miss Whineray, who will provide jolly recitations and songs.

WEDNESDAY—

Uncle Tom will be in very good form, for he is holding a party. The guests will give items of all sorts, and a jolly hour is expected.

THURSDAY—

New Songs from new cousins this evening, Doreen and Paddy. Peter Pan present with stories, jokes, and catches.

FRIDAY—

Nod and Aunt Jean in charge of the Happy Hour, Cousins Miriam and Dorothy assisting with duets and solos.

SATURDAY—

Lots of fun to-night with the Tiny Tots, who have choruses and songs for the Radio Family. Another of Miss Gunman's choirs—the very small ones this time. Cinderella will have stories and birthday greetings.

SUNDAY—

Children's song service conducted by Uncle Leo, assisted by Beresford Street Sunday School.

FROM 2YA.

MONDAY, MAY 12.—Uncle Jeff and his two little girls, Cousins Marjorie and Beryl, are going with Uncle Jasper and Spot to the Antarctic to-night. Let us hope that they will find room for Aunt Molly and Cousin Pat, too.

TUESDAY.—Uncle Jim is bringing the 2YA Children's Chorus with him to-night, also Mrs. Kenny's Juvenile Band will be present, with ukuleles, mandolins and songs.

THURSDAY.—Uncle George and Uncle Jasper with Spot, will be here again to-night, and the little pupils of Miss Ethel Mackay will play, sing and recite.

FRIDAY.—The Story Book Lady and Big Brother Jack will be here to-night. Cousin Bob will bring his mouth-organ and the Symphony Orchestra with him, and you will also hear Cousins Ethel, Edna, Olive, Joyce and Pat.

for the "effects" can't be found, or they won't work, telephone bells or door bells won't ring, or they ring at the wrong time; the operator is "dreaming," and misses his cue, and so forth and so forth.

Last Tuesday, at Auckland, Mr. J. F. Montague, who was producing "Nothing But the Truth" at 1YA, discovered half-an-hour before the performance that he had dropped his prompt copy in the street, and this contained all the numerous stage directions, signals for bells, and dozens of other matters of importance! Still, the play had to go on, but probably the listeners never guessed under what great difficulties the company was working, in consequence of this last-minute disaster, and everything appeared to go as merrily and smoothly as it should; but what anxious moments the producer had all that evening! Mr. Montague is still lamenting the loss of his precious copy of the play.

made per medium of radio telephony will also appeal to business men.

Socially, the air will be used a great deal, it is thought, at any rate from the Australian end, as conditions of living are better there, and the price of the message is not such an important matter as it might be in England.

Wonderful Possibilities.

UNDREAMT-OF possibilities, making for unforeseen amenities, are opened up by the radio telephone service between Sydney and London.

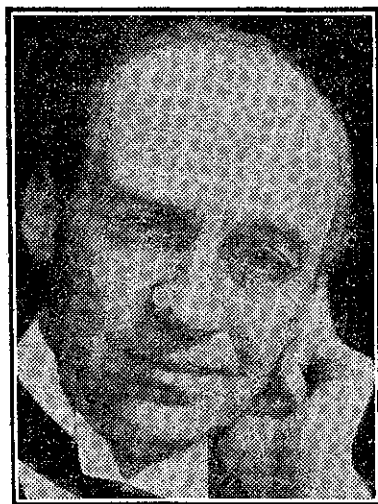
From an Imperial point of view, the linking up has a value that need not be stressed, and it has a social bearing that will in turn affect travel and family communications.

With the inauguration of the long distance telephone service in the Dominion, it has been possible for members of families to keep in contact with each other while on tour, and for business men to undertake trips with the certainty of immediate attention to their business at headquarter whenever desired.

This has undoubtedly enabled men, men filling important positions to take vacations they distrusted before such communication was possible. The same thing is expected to apply to overseas visits in the case of radio telephony. Heads of huge concerns may still personally direct action at a moment's notice, provided that the countries they visit are linked up by telephone by air. The traveller is no longer isolated in the case of emergency, and travel is expected to become more popular. Even though it be some time before New Zealand is linked direct to England for conversations over the air, the proposed link with Australia will shorten communication.

Projected Service for New Zealand.

IT now appears certain that within two or three months a similar service will be established between Syd-



Professor Lees-Smith, British Postmaster-General, who inaugurated the wonderfully successful England-Australia wireless telephone.

ney and Wellington. It is thus apparent that in the near future New Zealand will be in direct communication through Sydney with England, Western Europe, and North America—

a development which will play an important part in materially reducing New Zealand's social and economic isolation.

Girdling the Earth

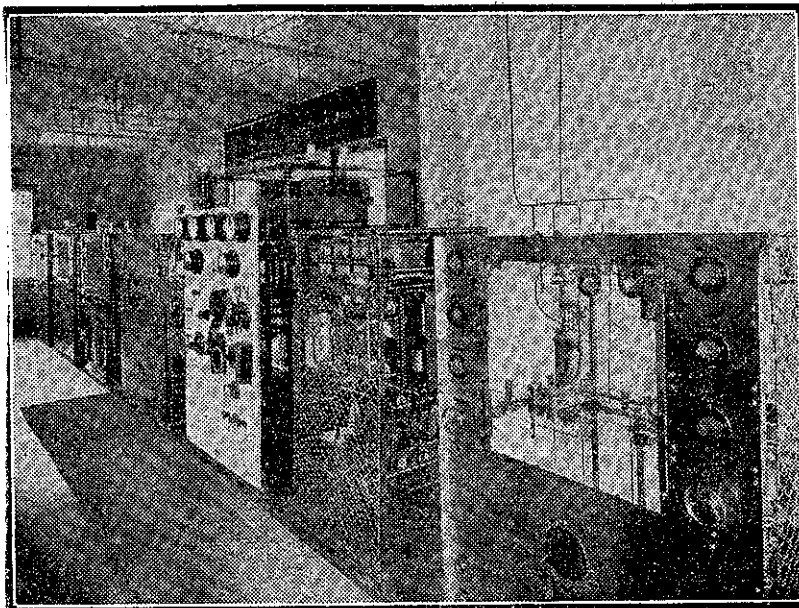
(Concluded from page 2.)

In connection with this proposal, Mr. E. T. Fisk, managing director of Amalgamated Wireless (Australasia), Ltd., while discussing the success of the radio telephone service, said:

"There is an even more wonderful age before us. The next radio telephone service which we hope to establish will be between Australia and New Zealand, which project now is under consideration. It is merely a matter of repeating the

tor panel, to permit of telephony. This has now been ordered, and, as indicated in the Prime Minister's message, will come to hand in two or three months' time. The new apparatus will embody all the latest discoveries and will be of the usual high A.W.A. standard.

With the opening of the new circuit to London, Australia will be able to push on with plans for direct radio telephone services with the United



The nerve centre that makes possible the two-way telephony service between England and Australia—2ME, Penant Hills, Sydney. A portion only of the interior of this great station is here depicted.

cess now in operation between Sydney and London.

"Then will follow a service between Australia, the United States and the rest of the world."

Apropos of this, Sir Joseph Ward stated recently that the Government of New Zealand had been in communication with the Australian Postal authorities since September last, and that negotiations are almost completed for the introduction of a radio telephone service between Wellington and Sydney. Most of the material is already at hand, and the balance is expected within the next two months.

Sir Joseph Ward said it was hoped that this telephone service will be of great assistance to business men in New Zealand, as it would enable any business man connected with a telephone in Wellington, and perhaps elsewhere, to communicate with any business man in Sydney. It was also hoped, he said, that later those who wish to communicate with London could be switched through at Sydney to the new telephone service which was opened the other day.

Amplifying the announcement made by the Prime Minister, it can be stated that the greater part of the apparatus necessary for the installation of the service with Australia is already installed at ZLW, Tinakori Hills, Wellington. The new apparatus required to be installed consists of a modula-

States, Canada, and also Europe. Work in these fields is already in progress, and it is anticipated that successful inauguration will be possible in the course of a few months. Thereafter the only parts of the world with which Australia will be unable to communicate will be China, South Africa and South America, with which countries there has not so far been a demand

for development. Participation in these services will be available to New Zealand through the new radio link.

Amalgamated Wireless (A'sia.) Ltd.

PERHAPS it would not be out of place to mention a few words about the organisation whose initiative and enterprise were directly responsible for the linking of the two hemispheres by the spoken word. As early as 1927 the Beam wireless service between Australia and Europe, owned and operated by Amalgamated Wireless (A'sia.) Ltd. was opened for commercial traffic, and almost immediately leapt into public favour.

The establishment and maintenance of this nation-wide service was carried out under the supervision of Mr. E. T. Fisk, managing director of A.W.A. Mr. Fisk has, largely by his own efforts, built up the A.W.A. into one of the largest, up-to-date and most efficient wireless organisation in the world. This company has controlling interests in practically every phase of wireless in the Commonwealth, ranging from the Beam feeder service to the trawler telephony service for communication with fishing boats off the New South Wales coast. Located at Ballam, about 50 miles north-west of Melbourne, is the Beam wireless transmitting centre from which messages are flashed to Europe, England, and North and South America.

Conclusion.

IT is apparent that sooner or later, wherever there is a telephone, it will be possible to communicate without hindrance or loss of time with any portion of the globe. It is almost impossible to imagine the world without telephones. Business has changed fundamentally through their use, and the present age is coming more and more under the sway of personal intercourse.

The extension of wireless telephony, with its present barely guessed possibilities, will undoubtedly turn what is at present almost a novelty into a normal procedure. It is producing a faster and smaller world, and there seems at least a reasonable hope that it will produce a better one.

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For column of casual advertisements see page 30.

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Features from NEXT WEEK'S PROGRAMMES

SUNDAY

AFTER-CHURCH RELAYS

From 1YA.

THE service from St. Andrew's Presbyterian Church will be relayed on Sunday evening, the preacher being Rev. Ivo E. Bertram, and the organist Dr. Neil McDougall. After the service there will be a relay of the concert to be given by the Auckland Municipal Band under the direction of Mr. Christopher Smith.

From 2YA.

THE service in the Taranaki Street Methodist Church will be broadcast. The preacher will be the Rev. T. R. Richards. The relay of the concert to be given by the Port Nicholson Silver Band in the Grand Opera House will follow.

From 3YA.

AT 3.45 the Rev. A. W. Stuart, B.C. (organising and deputational secretary of the British and Foreign Bible Society, Canterbury Auxiliary), will give a talk on "Romance of the British and Foreign Bible Society."

The evening service which 3YA will broadcast will be from St. Mary's (Church of England) Church, Merivale, the preacher being Ven. Archdeacon P. B. Haggitt. The main contributors to the after-church concert will be a party organised by Mr. Sidney Williamson, the well-known tenor. He will be assisted by Miss Ella Thurlow, Miss Helen Russell, and Mr. J. J. Hall. Pianoforte solos will be played by Miss Merle Miller.

From 4YA.

THE station will be relaying the service from the Church of Christ, St. Andrew Street. The preacher will be Pastor W. D. More. The relay of the after-church concert at 3YA will follow.

MONDAY

EXCERPTS FROM "MARITANA"

1YA Silent.

From 2YA.

AT 7.40 p.m. Mr. H. C. South will give his fortnightly review of "Books—Grave and Gay."

Monday night's programme at 2YA is always of a classical nature, this being the evening allotted to this station for a programme of that type. On this occasion the 2YA Orchestra under the conductorship of Signor A. P. Truda will play the overture to Strauss's "Prince Methusalem," Alsend's "Petite Rhapsody Russe," Grieg's "Lyric Suite," two of Rubinstein's songs and Finck's "Piraquette."

Miss Mary Lennie will play as a pianoforte solo Dohnanyi's "Waltz." The vocalists for this programme will be Miss Myra Sawyer, Mr. W. Boardman, Miss Nora Greene, and Mr. William Renshaw. Mr. Sydney Tingey, one of Wellington's most talented entertainers, will give an excerpt from "Martin Chuzzlewit" entitled "Sairey Gamp Down Among the Packets," and a poem by Browning, "An Incident of the French Camp."

From 3YA.

MR. E. E. WILTSHIRE, vice-president of the Linwood Library, will introduce himself to radio listeners in the first of a series of monthly talks on "Books of the Month."

The New Brighton Band, assisted by vocal artists, will provide 3YA's concert. The band is noted for its bright programmes. The assisting vocalists will be Mrs. B. Sluis (mezzo-soprano), Miss Lottie Colville (singer of popular songs), Mr. F. Lovett (tenor), and Mr. John Worgan (baritone). Miss Ruby Root (elocutioniste) will purvey humour.

From 4YA.

THE first half of the programme will be devoted to a presentation of excerpts from "Maritana" by the 4YA Harmonists (Miss Mae Matheson, Miss M. S. Green, Mr. H. A. Johnston, and Mr. F. M. Tuohy. An instrumental selection from "Maritana" will be played by a trio consisting of Misses Wallace, Baker, and Mr. Blyth.

The principal vocal items of the second half of the programme will be: "One Fine Day," "O Thank Me Not," "Crescent Moon," "Love, I Have Won You," and "Trade Winds."

TUESDAY

"MAID OF THE MOUNTAINS"

From 1YA.

MADAME Cora Melvin and Mr. Norman Day will be associated at 1YA in solos and duets, principally from the musical comedy, "The Maid of the Mountains." This type of music is always very welcome to

listeners, and in the hands of such experienced singers will prove very enjoyable.

The Orchestral Octet, under Mr. Eric Waters, will play some interesting numbers from various grand and light operas. Of particular interest in their selection is the suite "In Days of Old" (by Ball). Mr. Cyril Towsey will play the pianoforte solo, "Pathetic Sonata," by Beethoven. Two talks by popular lecturers are featured on this programme—Mr. A. B. Chappell, M.A., in a further Topical Talk and a gramophone lecture recital by Mr. Karl Atkinson, entitled "Gems from 'Mignon'," by Ambroise Thomas, the great French composer.

From 2YA.

AT 7.40 there will be a talk for farmers by a representative of the Agricultural Department.

A bright entertaining programme has been arranged for 2YA's concert session, which will be followed at 9.30 by a dance programme. The Salon Orchestra, under Mr. M. T. Dixon, will play "From Defeat to Triumph" (by Gabriel-Marie), "On the Orient" (by Gowin), and Borch's "Air de Ballet, No. 2." Instrumental trios to be played by Messrs. W. Haydock, Stanley Chapman and M. T. Dixon will be Kreisler's arrangement of Beethoven's "Minuet" and Kreisler's "Marche Miniature Viennoise." Baritone solos will be given by Mr. C. Wilkie, popular songs by Miss Lily Charles and excerpts from popular musical comedies by Mr. Johnny Hines. Mr. Cedric Gardiner and Miss Madge Freeman will give two humorous sketches, "The Seance" and "Dining Out."

Silent Night at 3YA.

From 4YA.

A TALK on "Tourist Resorts" will be given at 4YA at 7.40 by Mr. R. W. Marshall.

4YA's programme will be contributed by the Kaikorai Band and assisting 4YA vocal artists. Miss Isobel Crowe will sing "The Birth of Morn," "Salaam" and "A Brown Bird Singing." Mr. James Simpson (tenor) will be heard in Schubert's "Serenade," "The Auld Scotch Songs," and "At the Mid-hour of Night." The baritone solos to be sung by Mr. B. C. Bellhouse will be "Break, Break, Break," "De Gospel Train" and "Land of Who Knows Where." Elocutionary items will be given by Miss E. Newbold.

WEDNESDAY

MISS HARRY FROM 3YA

From 1YA.

"HEALTH and Diet" is the subject of Madame Mabel Milne's talk at 7.40 p.m.

THE MAORI RACE

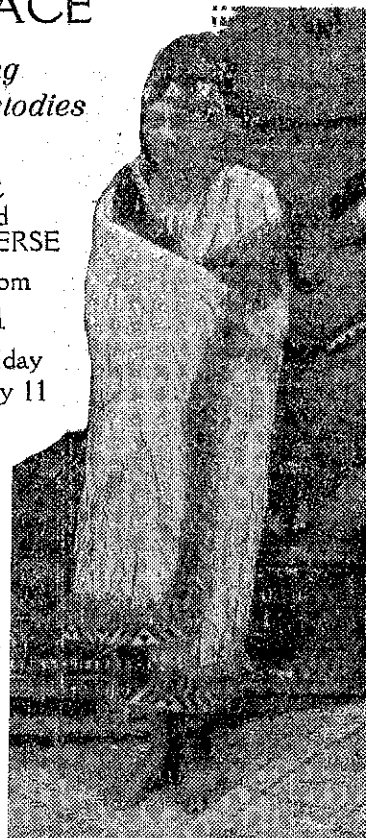
Litling Maori Melodies

in
MUSIC
and
VERSE

from

2YA

Friday
May 11



The Auckland Artillery Band under the direction of Mr. Wynne Smith will supply the instrumental portion of 1YA's concert programme. Humour will be provided by Mr. Dan Flood, who was for some time associated with the Humphrey Bishop Company.

Miss Doris Moore (contralto) will be associated with Miss C. Pringle (soprano), a new artist to 1YA, in solos and duets. These two young singers are among the most prominent of the city's amateurs, and their work together is certainly very pleasing.

Silent Day at 2YA.

From 3YA.

MISS EDITH HARRHY, composer, pianiste, and singer, will be introduced to 3YA listeners. Compositions by Rachmaninoff and Chopin will be played. The songs, which will be sung to her own accompaniment, will include three songs composed by herself, two by Mr. R. A. Horne (of Christchurch), and one, "Achal By the Sea," by Lawrence.

The supporting programme will include several operatic numbers. Mr. Harold Prescott will sing "La Donna e Mobile," "The Sea Hath Its Pearls," and "Onaway, Awake, Beloved." Mr. Fred. C. Penfold will sing the dramatic "The Trumpeter," "The Song of the Volga Boatmen," and "I Am Fate." "O Star of Eve" will be played as a cello solo by Mr. Harold Beck, and an instrumental programme will be presented by the Studio Octet.

From 4YA.

THE subject of "Fresh Air" will be discussed by the Home Science Extension Department of Otago University at 3.15. At 7.15 Mr. G. A. Holmes will talk on "Mineral Needs of Livestock." Both talks will be under the auspices of the 4YA Primary Productions Committee.

The evening concert programme will be opened by the Novelty Trio in popular light instrumental numbers, and the items by this trio will be a feature of the evening's entertainment. Saxophone novelties will be played by Messrs. J. McCaw and T. Law. A miscellaneous vocal programme will be contributed by Miss Rita Holmes (soprano), Mrs. A. H. Ritchie (contralto), Mr. Geo. Crawford (tenor), Mr. Buster Brown (Lauder songs), and Miss R. Williams (elocutionary items).

THURSDAY

"REMINISCENCES":

SONGS OF THE HEBRIDES

From 1YA.

AT 3.15 p.m. a Home Science talk will be given.

The evening programme will be given by the popular Radio Scamps and the Studio Orchestra, and will be called "Reminiscences." As the name depicts, the entertainment will follow the lines of the old-time songs, etc. The present generation, but older listeners especially, will appreciate the numbers which will be rendered by this versatile and clever combination.

From 2YA.

In the afternoon at 3.15 there will be a talk arranged by the Home Science Extension Department of the Otago University, for the benefit of ladies. Miss Inez Connop will give an-

other of her series of talks on "Dancing."

THE studio concert at 2YA will be given by the Miramar Silver Band. The band, which plays under the conductorship of Mr. A. Sutherland, gave a concert on a recent Sunday evening and on that occasion very favourable comments were made about the band's performances. Arrangements were then made for another concert at the studio. The programme to be given to-night will be of a varied and interesting nature. The band will be supported by the Lyric Male Voice Quartet (Messrs. Roy Hill, O. Williams, Will Goudie, and W. Binet Brown), Miss Esme Crow (elocutioniste), and Miss Phyllis Liddell, the last-named being a talented young soprano from the Wairarapa. A novelty item of interest will be the vibraphone solos to be played by Miss Joyce Morgan, who has chosen a group of old plantation

a talk on the National Park at Tongariro.

Following the usual relay from the Lewis Eady Hall, Mr. J. M. Clark will produce the three-act tragedy, "Paolo and Francesca" (by Stephen Phillips). This play is simple and direct, concerned with human passions and presenting its story in the persons of three strongly defined characters of the first rank. It should appeal to the dramatic sense as well as to the sense of poetic beauty. The play is a very beautiful and original rendering of one of the most touching stories in the world. The caste is a strong one and, under Dr. Clark's excellent guidance, a splendid performance is promised. Outstanding in the caste is a newcomer to the studio, Miss L. V. Bruce, elocutionary teacher in many of the local colleges.

From 2YA.

Mr. N. R. Jacobsen will continue his series of talks on "Simple Explanations of Scientific Phenomena." The first half of the evening concert at 2YA will consist of operatic items by Signior Truda's Orchestra, and Mrs. M. J. Goodson and Messrs. Harry Phipps and A. W. Beckford. The Orchestra will play the overture "Stradella," the intermezzo from "Cavalliera Rusticana," the sextette from "Lucia di Lammermoor" and a selection from "Lilac Time." Mrs. Goodson will sing "Casta Diva" (from "Norma") and "Convien Portier" (from "The Daughter of the Regiment").

Mr. Harry Phipps has chosen for his numbers the celebrated tenor aria from "Faust," "All Hail thou Dwelling," and "There is a Flower that Bloometh" (from "Maritana"); "The Millionaire's Song" (from "The Belle of New York") and "The Cobbler's Song" (from "Chu Chin Chow") will be Mr. Beckford's items.

The second half of the programme at 2YA promises to be something of a novelty, and at the same time to be of more than passing interest in that it will afford listeners an opportunity of hearing per medium of the gramophone record genuine Maori melodies sung by members of the Maori race. The items referred to will be special Parlophone recordings of Maori songs sung by Ano Hato and Deane Warehine, interspersed with suitable Maori instrumental selections played by the Orchestra.

From 3YA.

AFTER an absence of some weeks the Bailey-Marston Band will be playing again this evening. The support-

ing concert programme will be contributed by Miss Hilda Hutt (soprano), singing "Charming Chloe," "The Little Damsel" and "Villanelle"; Mr. D. Suckling (tenor), The Humorists (a duo in amusing sketches), Miss Irene Morris (violiniste), and the Studio Trio.

From 4YA.

THE principal vocalist at 4YA will be Mr. Alfred Walmsley, tenor. He will sing "A Wind Song," "The Silver Ring," "Since First I Saw Your Face" and "Awake." Soprano solos will be sung by Miss Dorothy Sligo, and contralto solos by Miss Mary Teviotdale. Mr. William Ruffell (baritone) will sing "The Garden of Allah," "Cloud Shadows" and "Who is Sylvia?" Mr. Angus Gorrie will be heard in recitals of Byron. Instrumental items will be provided by the Studio Trio.

SATURDAY

From 1YA.

THE evening's programme will be a relay of the concert by the Auckland Municipal Band under the direction of Mr. Christopher Smith. This will be followed by the usual dance programme until 11 p.m.

From 2YA.

MR. H. G. MILLER, M.A., of Victoria University College, will deliver a W.E.A. lecturette at 7.40. The subject of this talk will be "A Forgotten Humorist."

A bright vaudeville programme will follow this lecturette. The Salon Orchestra under Mr. M. T. Dixon will be heard in that old favourite "The Blue Danube Waltz," a novelty number "A Siamese Patrol," Coates's "Wood Nymphs," and a musical comedy number, "The Blue Kitten." The Melodie Four and Miss Anne Davies will furnish the vocal portion of the programme, while Mr. Will Bishop will entertain with humorous items at the piano. Mr. Claude Bennett, late of Fullers Vaudeville Circuit, will be heard in a group of novelty piano solos. Novelty vocal and instrumental solos will be given by a new duo, Messrs. Ville and Yeo. The latter's items will consist mainly of the latest popular songs.

From 3 & 4YA.

There will be a vaudeville and dance programme, when some fine (Concluded on page 21.)

MARITANA
featured by
4YA
Harmonists
Monday
May 12
when the
first half
of 4YA's
Programme will be
devoted to
Excerpts, Vocal and
Instrumental



melodies by Stephen Foster—a type of music very suitable for playing on this instrument.

From 3YA.

A TALK prepared by the Home Science Extension Department of the Otago University on "The Use of Left-Over Foods" will be broadcast at 3.15. At 7.30 the talk to farmers will consist of a review of the April issue of the Journal of Agriculture.

Miss Greta Don, a Scottish soprano at present in New Zealand, will be appearing at 3YA and will sing a number of songs of the Hebrides. Miss Don has made a special study of these songs and has had a wide experience as a singer on the public platform and before the microphone.

Other artists engaged for the evening are Mrs. D. W. Stallard (contralto), Mr. N. J. Trewern (tenor) and Mr. J. Francis Jones (baritone). Miss Florence Brewins will recite pieces by Drinkwater, Wordsworth and Whittier. A fine orchestral programme will be played by the Studio Octet, under Mr. Harold Beck.

Silent Day at 4YA.

FRIDAY

"PAOLO AND FRANCESCA"

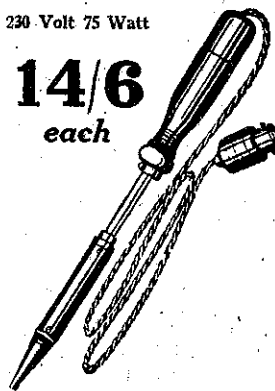
The Maori Race.

From 1YA.

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CHRISTCHURCH.

Full Programmes for Next

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Sunday, May, 11

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MAY 11.

- 3.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
 4.30 : Close down.
 6.0 : Children's session conducted by Uncle Leo.
 6.55 : Relay of evening service from St. Andrew's Church (Preacher, Rev. I. E. Bertram; Organist, Dr. Neil McDougall).
 8.30 (approx.) : Relay of concert from the Town Hall by the Auckland Municipal Band under the conductorship of Mr. Christopher Smith.
 9.45 (approx.) : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, MAY 11.

- 3 p.m. : Afternoon Session. Selected Gramophone Items.
 4.30 : Close down.
 6.0 : Children's Service, conducted by Uncle George, assisted by the Children's Choir of the Vivian Street Baptist Church, under the supervision of Rev. F. E. Harry.
 7.0 : Relay of Evening Service of Taranaki Street Methodist Church. Preacher, Rev. T. R. Richards. Organist and choirmaster, Mr. H. Temple White.
 8.15 (approx.) : Relay of recital of the Port Nicholson Silver Band from the Grand Opera House.
 God Save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SUNDAY, MAY 11.

- 3 p.m. : Afternoon Session Gramophone Recital.
 3.45 : Talk by Rev. A. W. Stuart, B.A. (Organising Deputational Society of the British and Foreign Bible Society, Canterbury Auxiliary), "Romance of the British and Foreign Bible Society."
 4.0 : Gramophone Recital continued.
 4.30 : Close down.
 5.30 : Song Service by children of Church of England Sunday Schools, conducted by Rev. Archdeacon Haggitt, assisted by the children from St. Mary's Sunday School.
 6.15 : Chimes from the Studio.
 6.30 : Relay of Evening Service from St. Mary's (Church of England) Church, Merivale. Preacher, Rev. Archdeacon P. B. Haggitt. Musical Director and Organist, Mr. Alfred Worsley.

Intermission.

7.45 : Selected Musical Recordings.

Studio Programme.

- 8.15 : (Approx.) March—Berlin Philharmonic Orchestra, "March from 'Tannhauser'" (Wagner), H.M.V. D1498.
 8.18 : Baritone—Mr. J. J. Hall, "Like to the Damask Rose" (Elgar).
 8.22 : Soprano and tenor duet—Miss Ella Thurlow and Mr. Sidney Williamson, "A Night in Venice" (Lancantoni).
 8.26 : String quartet—Virtuoso String Quartet, "Orientale" (Glazounoff).
 8.29 : Contralto—Miss Helen Russell, "Sapphic Ode" (Brahms).
 Tenor—Mr. Sidney Williamson, "Del Mio Dolce Ador" (Gluck).
 8.37 : Piano solo—Miss L. Merle Miller, "Etude in E Major" (Chopin).
 8.41 : Soprano—Miss Ella Thurlow, "Mad Scene" from Opera "Lucia di Lammermoor" (Donizetti).
 Baritone—Mr. J. J. Hall, "She is Far From the Land" (Lambert).
 8.50 : Cello—Lauri Kennedy, "Hungarian Rhapsody" (Popper), H.M.V.
 8.53 : Soprano and tenor duet—Miss Ella Thurlow and Mr. Sidney Williamson, "Dear Love of Mine," from "Nadeshda" (Thomas).
 8.57 : Piano—Miss L. Merle Miller, "Laughing Water" (Bayton Power).
 9.1 : Contralto—Miss Helen Russell, "Cloths of Heaven" (Dunhill).
 9.4 : Weather report and announcements.
 9.6 : String Quartet—Virtuoso String Quartet, "Mignon Gavotte" (Thomas).
 9.9 : Tenor—Mr. Sidney Williamson, "An Evening Song" (Blumenthal), "Onaway, Awake Beloved" (Coleridge-Taylor).
 9.17 : Quartet—Sidney Williamson's Quartet, (a) "In Silent Night" (Brahms); (b) "Drink to Me Only" (arrgd. by Bulton).
 9.21 : Orchestral—San Francisco Symphony Orchestra, (a) "Serenade" (Volkman); (b) "Flight of the Bumble Bee" (Rimsky-Korsakov).
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MAY 11.

- 3.0 : Chimes. Selected Gramophone Items.
 4.30 : Close down.

- 5.30 : Children's Song Service, conducted by Big Brother Bill.
 6.15 : Close down.
 6.30 : Relay of Evening Service from Church of Christ, St. Andrew Street. Preacher: Pastor W. D. More.
 7.45 : Philadelphia Orchestra, "Rienzi" (Wagner) (H.M.V. ED3-4). Chorus with Orchestra, "Berlin State Opera Orchestra, 'Trio from Finale' and 'Closing Scene' from 'Der Rosenkavalier' (Strauss). Berlin State Opera Orchestra, 'Polonaise No. 2' (Liszt).
 8.15 : Relay of Studio Programme from 3YA.
 9.30 (approx) : God Save the King.

Monday, May 12

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, MAY 12.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, MAY 12.

- 3.0 : Chimes. Selected studio items.
 3.30 and 4.30 : Sports results.
 4.55 : Close down.
 5.0 : Children's session, conducted by Uncle Jeff.
 6.0 : Dinner music session—"Columbia" Hour:
 Orchestral—Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov) (02912-3).
 6.12 : Tacet.
 6.15 : Orchestral—Menorah Symphony Orchestra, "Bar Kochba Selection." Piano—Ignaz Friedman, "Minuetto from Suite" (J. Suk) (04346). Orchestral—New York Symphony Orchestra, "Entrance of the Little Fauns" (Pierne) (02907).
 6.28 : Tacet.
 6.30 : Band—B.B.C. Wireless Military Band, "Gathering Peascods—Folk-dance" (arr. Cecil J. Sharp) (01711).
 Violin—Yelly d'Aranyi, "Souvenir" (Drdla) (03644).
 Orchestral—Orchestra de la Societe des Concerts du Conservatoire, Paris. "Le Rouet d'Omphale" (Saint-Saens) (02926).
 6.42 : Tacet.
 6.45 : Band—B.B.C. Wireless Military Band, "Epping Forest—Folkdance." Piano—Ignaz Friedman, "Berceuse" (Chopin) (04346).
 Orchestral—Berlin State Orchestra, "Wiener Blut" (Strauss) (04337).
 6.58 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Prince Methusalem" (Strauss).
 8.9 : Soprano—Miss Myra Sawyer, "Prelude" (Landon Ronald).
 8.13 : Baritone—Mr. William Boardman, "The Tavern Song" (Fischer).
 8.17 : Piano—Miss Mary Lennie, "Waltz" (Dolmanyi).
 8.24 : Contralto—Miss Nora Greene, "O My Harp Immortal" (Gounod).
 8.28 : Selection—2YA Orchestra, "Petite Rhapsody Russe" (Alsend).
 8.36 : Elocution—Mr. Sydney Tingey, "Sairey Gamp—Down Among the Packets" (Dickens).
 8.42 : Tenor—Mr. William Renshaw, (a) "My Heart's Desire," (b) "The Hawk" (from "Desert Song"—Coningsby Clarke).
 8.48 : Violin—Fritz Kreisler, (a) "Rondino" (Beethoven-Kreisler), (b) "Schon Rosmarin" (Kreisler) (H.M.V. DA1044).
 8.54 : Duet—Miss Myra Sawyer and Mr. William Boardman, "Nocturne."
 9.2 : Selection—2YA Orchestra, "Lyric Suite" (Grieg).
 9.0 : Weather report.
 9.10 : Soprano—Miss Myra Sawyer, "Vainka's Song" (Stutzman).
 9.14 : Record instrumental—Virtuosos String Quartet, "Idylle No. 1."
 9.12 : Baritone—Mr. William Boardman, "The Stockrider's Song" (James).
 9.26 : Selection—2YA Orchestra, "Two Songs by Rubinstein," (a) "Longing," (b) "How Shines the Dew."
 9.34 : Elocution—Mr. Sydney Tingey, "An Incident of the French Camp."
 9.41 : Record, instrumental—Cello, Pablo Casals, (a) "Spanish Dance—Rondalls Argonesa" (Granados), (b) "Vito" (Spanish Dance, Op. 54, No. 5) (Popper, arr. Casals) (H.M.V. DA1015).
 9.47 : Contralto—Miss Nora Greene, (a) "Drumadon" (Sanderson), (b) "June" (Quilter).
 9.52 : Tenor—Mr. William Renshaw, "The Sands of Dee" (Clay).
 9.56 : Selection—2YA Orchestra, "Pirouette" (Finck).
 10.2 : God Save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—MONDAY, MAY 12.

- 3.0 : Afternoon Session Gramophone Recital.
 4.25 : Sports results.
 4.30 : Close down.

Week-all Stations-to May 18

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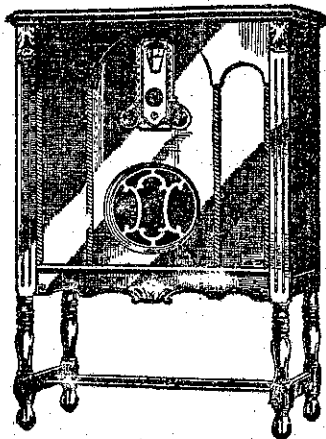
- 5.0 : Children's Hour, "Scatterjoy."
 6.0 : Dinner Session, "Columbia" Hour.
 Band—Band of the Garde Republicaine de France, "The Two Pigeons."
 1. Entrance of Tziganes; 2. Scene and March of the Two Pigeons (Messenger) (02924) and 3. Hungarian Dance; 4. Theme and Variations (Messenger) (02924).
 6.14: Tacet.
 6.15: Orchestral—Modern Dance Players, "Over the Waves" (Rosas).
 Orchestral—Modern Dance Players, "Amoretten Tanze" (Gungl).
 Piano—Gil Dech, "Le Jet D'Eau" (Smith) (01719).
 Band—B.B.C. Wireless Military Band, "Fourpence-Halfpenny Farthing" (arrgd. Cecil J. Sharp) (01710).
 Trio—Stellar Instrumental Trio, "The Maiden's Prayer" (Badarzewska) (01719).
 6.28: Tacet.
 6.30: Band—H.M. Grenadier Guards, "Fantasia on 17th Century Music Ad 1664" (arrgd. Major George Miller) (02809).
 Saxophone—Rudy Wiedoeft, "Melody" (Dawes) (01180).
 Orchestral—Continental Novelty Orchestra, "Los Claveles de Sevilla" (Guerrero) (Regal G20552).
 6.43: Tacet.
 6.45: Orchestral—Continental Novelty Orchestra, "Las Lagarteranas" (Guerrero and Foulkes) (Regal G20552).
 Instrumental—Squire Celeste Octet, "Come Into the Garden Maud" (Balfe, arrg. Sear) (01103).
 Instrumental—Squire Celeste Octet, "Killarney" (Balfe arrgd. Sear).
 Organ—Terence Casey, "I'm Lonely" (Coates) (01501).

- Band—B.B.C. Wireless Military Band, "Lilli Burlero" (arrg. Cecil J. Sharp) (01710).
 6.59: Tacet.
 7.0 : News session.
 7.30: Talk—Mr. E. E. Wiltshire (vice-president of Linwood Library), (First of a series of monthly talks entitled "Books of the Month.")
 8.0 : Chimes.
 Band programme by the New Brighton Municipal Band and assisted by 3YA artists.
 8.1 : March—Band, "Knight of the Road" (Greenwood).
 Two-step—Band, "The Cuckoos" (Lithgow).
 8.8 : Tenor—Mr. F. Lovett, "Oh! To Be a Gipsy" (Forster); "My Desert Flower" (Norton).
 8.14: Piano—Raie Da Costa, "Good News" (de Sylva) (Parlo. A2599).
 8.17: Mezzo-soprano—Mrs. B. Sluis, (a) "April" (Black); (b) "Bird of Love Divine" (Wood).
 8.22: Orchestra—Brunswick Salon Orchestra, "Fox Movietone Follies" (Gottler-Mitchell-Conrad) (Brun. 20093).
 8.26: Foxtrots—Band (a) "Louise" (Whiting); (b) "On Top of the World Alone" (Whiting).
 8.33: Baritone—Mr. John Worgan, "The Bells of St. Mary's" (Adams); (b) "Till the Sands of the Desert Grow Cold" (Ball).
 8.38: Cockney Humour—Miss Ruby Boot, "A Charlady's Confidences" (Newman).
 8.43: Organ—Lew White, "Mean To Me" (Turk) (Brunswick 4361).
 8.46: Popular songs—Miss Lottie Colville, (a) "Big Lady Moon" (Coleridge-Taylor); (b) "The Visitor" (Turner).
 8.51: Waltz—The Band, "For Ever True" (Peconni).
 8.56: Male Quartet—Criterion Quartet, "Little Cotton Dolly" (Buck-Geibel).
 9.0 : Weather Report and Announcements.
 9.2 : Orchestral and Chorus—Colonial Club Orchestra, "Whoopie" (Kain-Donaldson) (Brunswick 20089).
 9.6 : Tenor—Mr. F. Lovett, "The Fortune Hunter" (Willeby).
 9.10: Selection—Band, "A Summer Day" (Greenwood).
 9.19: Mezzo-soprano—Mrs. B. Sluis, (a) "A Spring Morning" (Wilson); (b) "Ma Curly Headed Babby" (Clutsam).
 9.26: Organ—Lew White, "Deep Night" (Henderson) (Brunswick 4361).
 9.29: Baritone—Mr. John Worgan, "Good Company" (Adams).
 9.33: Cornet duet—Members of Band, "Friendly Rivals" (Godfrey).
 9.37: Humour—Miss Ruby Boot, "Soliloquy of a Safety Pin" (White).
 9.42: Piano—Raie da Costa, "The Varsity Drag" (de Sylva).
 9.45: Popular songs—Miss Lottie Colville, (a) "Wood Fairies" (Jones); (b) "The Fairy Pipers" (Brewer).
 9.50: Male Chorus—Famous Forty Elks, "Sylvia" (Scollard-Speaks).
 9.53: Foxtrots—Band, (a) "Broadway Melody" (Freed); (b) "You Were Meant For Me" (Freed).
 March—Band, "Ever Ready" (White).
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, MAY 12.

- 3.0 : Chimes. Selected gramophone items.
 4.25: Sporting results.
 4.30: Close down.
 5.0 : Children's hour, conducted by Uncle Allan.
 6.0 : Dinner music—"Parlophone" Hour.
 Selection—Edith Lorand Orchestra, "La Boheme" (Puccini).
 Waltz—Edith Lorand Orchestra, "La Serenade" (Metra) (E10522).
 Violin—Tossy Spiwakowsky, "Turkish March" (Beethoven) (A2561).
 6.12: Tacet.
 6.15: Waltz—Edith Lorand Orchestra, "Venetian Barcarolle" (Leoncavallo).
 Trio—Dajos Bela Trio, (a) "Traumerei" (Schuman); (b) "Chant D'Automne" (Tschaiakowsky) (E10573).
 'Cello—Gregor Piatigorsky, "The Swan" (Saint Saens) (A2628).
 6.28: Tacet.
 6.30: Fantasia—Dajos Bela Orchestra, "La Traviata" (Verdi) (A4027).
 Waltzes—Royal Music Makers, (a) "Kiss Me Again" (Herbert); (b) "Ah Sweet Mystery of Life" (Herbert) (A2722).
 6.44: Tacet.
 6.45: Suite—Paris Opera Comique Orchestra, "Ballet Egyptien" (Luigini).
 6.57: Tacet.
 7.0 : News session.
 8.0 : Chimes.
 Columbia Symphony Orchestra, "Maritana" (Wallace).
 8.9 : Presentation of Wallace's Opera "Maritana." Soprano, Miss Mae Matheson; contralto, Miss M. S. Green; tenor, Mr. H. A. Johnston; baritone, Mr. F. M. Tuohy.
 8.30: Trio—Misses Wallace, Baker and Mr. Blyth, "Maritana" (Wallace).
 8.38: Continuation of Operatic Presentation by Harmonists.
 9.2 : Weather report.
 9.4 : Selection—Menorah Symphony Orchestra, "Shulamith" (Goldfaden).
 9.12: Tenor—Mr. H. A. Johnston, "Love, I Have Won You" (Ronald).

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WELLINGTON

- 9.15: Trio—Misses Wallace, Baker, and Mr. Blyth, (a) "Awakening of the Lion" (Kontski); (b) "Entrance Valse" (Holmsberger).
 9.25: Contralto—Miss M. S. Green, (a) "O Thank Me Not" (Mallinson); (b) "Crescent Moon" (Sanderson).
 9.29: Piano—Mrs. C. Drake, "Two Country Dances" (Beethoven).
 Chorus—Columbia Light Opera Company, Gems from "Rio Rita."
 'Cello—W. H. Squire, "Sarabande" (Sulzer) (Columbia 04283).
 9.43: Baritone—Mr. F. M. Tuohy, "Trade Winds" (Keel).
 9.46: Trio—Misses Wallace, Baker and Mr. Blyth, (a) "The Flatterer" (Chaminade); (b) "Toreador and Andalous" (Rubinstein).
 9.52: Soprano—Miss Mae Matheson, "One Fine Day" (Puccini).
 9.53: Orchestral—Classic Symphony Orchestra, "Classical Memories."
 10.3: God Save the King.

Tuesday, May 13

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, MAY 13.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
 4.30: Close down.
 5.0: Children's hour, conducted by Uncle Dave.
 6.0: Dinner session—"H.M.V." Hour.
 Selection—New Mayfair Orchestra, "Lilac Time" (Schubert-Clutsam).
 Orchestral—Royal Opera Orchestra, "Carmen Ballet, No. 1" (Bizet).
 6.12: Tacet.
 6.15: Orchestral—National Symphony Orchestra, "William Tell" Overture.
 6.27: Tacet.
 6.30: Instrumental—Royal Opera Orchestra, "Sylvia Ballet Pizzicato and Procession of Bacchus" (Delibes) (C1418).
 Orchestral—Royal Opera Orchestra, "Carmen Ballet, No. 2" (Bizet).
 6.42: Tacet.
 6.45: Orchestral—London Symphony Orchestra, "Chanson de Matin" (Elgar).
 Trio—Fritz and Hugo Kreisler and Michael Raucheisen, "Arlésienne Intermezzo" (Bizet, arrgd. Kreisler) (DR1166).
 Instrumental—Philadelphia Symphony Orchestra, "Nocturne No. 2 Fetes" (Debussy) (E507).
 6.57: Tacet.
 7.0: News and market reports.
 8.0: Chimes.
 Overture—1YA Orchestral Octet, under direction of Mr. Eric Waters, "Der Freischütz" (Weber).
 8.10: Vocal duet—Mr. Norman Day and Madame Cora Melvin, "Paradise for Two" ("Maid of the Mountain") (Tate).
 8.14: Selection—1YA Orchestral Octet, "Piccolo, Piccolo," from "Waltz Dream" (Strauss).
 8.19: Baritone—Mr. Norman Day, (a) "A Bachelor Gay" ("Maid of the Mountain") (Tate); (b) "Love Will find a Way" ("Maid of the Mountain") (Tate).
 8.26: Piano—Mr. Cyril Towsey, "Pathetic Sonata" (Beethoven).
 8.40: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."
 8.55: Suite—1YA Orchestral Octet, "In Days of Old" (Ball): (1) Morris Dance, (2) Dance Characteristique, (3) Satyrs' Revels.
 9.0: Weather forecast and announcements.
 9.2: Selection—1YA Orchestral Octet, "Dance of the Tumblers," from "The Snow Maiden" (Rimsky-Korsakov).
 9.6: Soprano—Madame Cora Melvin, (a) "My Life is Love," from "Maid of the Mountain"; (b) "Indian Love Call," from "Rose Marie."
 9.10: Orchestral—1YA Orchestral Octet, "Meditation," from "Thais."
 9.16: Vocal duet—Mr. Norman Day and Madame Cora Melvin, "Trot Here and There" (Veronique) (Messenger).
 9.20: Selection—1YA Orchestral Octet, Selection from "The Bing Boys are Here" (Ayer).
 9.30: Gramophone lecture—Mr. Karl Atkinson, "Gems from Mignon." God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, MAY 13.

- 3.0: Chimes. Selected studio items.
 3.30 and 4.30: Sports results.
 4.55: Close down.
 5.0: Children's session, conducted by Uncle Jim.
 6.0: Dinner music session, "H.M.V." hour.
 Instrumental—Royal Opera Orchestra, "Praeludium" (Jarnefeldt).
 'Cello—Pablo Casals, "Melody in F" (Rubinstein) (DAS33).
 Waltz—Royal Opera Orchestra, "Eugin Onegin" (Tschalkowsky).
 Balalaika Orchestra, "Shining Moon" (Russian folk song) (EA48).
 6.12: Tacet.
 6.15: Suite—Paul Whiteman's Orchestra, "Suite of Serenades" (Herbert).
 1, Spanish; 2, Chinese; 3, Cuban; 4, Oriental (EB26).
 Waltz—Philadelphia Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (ED2).
 6.27: Tacet.
 6.30: Instrumental—Royal Opera Orchestra, "Berceuse" (Jarnefeldt).
 'Cello—Pablo Casals, "Traumerei" (Schumann) (DA833).
 Male quartet—The Rounders, "Chlo-e" (Kahn) (EA 402).
 Instrumental—San Francisco Symphony Orchestra, (a) "Serenade" (Volkman); (b) "Flight of the Bumble Bee" (Rimsky-Korsakov).
 6.42: Tacet.

- 6.45: Instrumental—Chicago Symphony Orchestra, (a) "Valse Triste" (Debussy); (b) "Funeral March of a Marionette" (Gounod) (ED5).
 March—San Francisco Symphony Orchestra, "March Militaire."
 6.57: Tacet.
 7.0: Lecturette—Representative Department of Agriculture, "For the Man on the Land."
 8.0: Chimes.
 Overture—The 2YA Salon Orchestra, "From Defeat to Triumph."
 8.9: Baritone—Mr. C. W. Wilkie, "Give a Man a Horse He Can Ride" (Rosenbloom).
 8.13: Popular songs—Miss Lily Charles, (a) "You'll Find in my Eyes" (Baer); (b) "I'm Only Making Believe" (Davis and Coots).
 8.19: Instrumental—Trio—Messrs W. Haydock, S. Chapman and M. T. Dixon, "Minuet" (Beethoven-Kreisler); (b) "Marche Militaire Vienneoise" (Kreisler).
 8.29: Sketch—Miss Madge Freeman and Cedric Gardiner, "Dining Out" (Austin Melford).
 8.37: Tenor—Mr. Johnny Hines, "Here's to Love and Laughter" (Sunshine Girl) (Rubens).
 8.41: Suite—Salon Orchestra, "The Orient" (a) "On the Bosphorus" (Gowin); "Oriental Ballet" (Gowin).
 8.49: Baritone—Mr. C. W. Wilkie, (a) "The Wheel Tapper's Song" (Charles); (b) "Just Smiling" (Wells).
 8.55: Salon Orchestra, "Request Item."
 9.3: Weather Report and Announcements.
 9.5: Popular Song—Miss Lily Charles, "I'm a Dreamer" (de Sylva).
 9.9: Sketch—Miss Madge Freeman and Mr. Cedric Gardiner, "The Seance" (Peach).
 9.16: Tenor—Mr. Johnny Hines, (a) "One Alone" (Desert Song) (Romberg); (b) "I Dream of a Garden of Sunshine" (Lohr).
 9.22: Selection—Salon Orchestra, "Air de Ballet No. 25" (Borch).
 9.30: Dance programme, "Columbia."
 Foxtrot—Milt Shaw's Orchestra, "Walking With Susie" (Gottler).
 Foxtrot—Fred Rich's Orchestra, "Used to You" (de Sylva).
 Foxtrot—Milt Shaw's Orchestra, "Breakaway" (Gottler).
 Foxtrot—Fred Rich's Orchestra, "Why Can't You?" (de Sylva).
 9.42: Hawaiian—Lizzie Alohioka and Chorus, "Nani Kauai" (Alohioka).
 Foxtrot—Debroy Somers Band, "The Egg Song" (Salisbury).
 Foxtrot—Harry Reser's Syncopators, "I'm Wild About Horns on Automobiles" (Gaskill), (01543).
 Foxtrot—Ted Wallace and his Campus Boys, "Jericho" (Meyers).
 One-step—Debroy Somers' Band, "Shinaniki Da" (Carlton).
 Waltz—The Cavaliers, "Lady Divine" (Shilkret) (01543).
 10.0: Organ solo—Milton Charles, "Love's Old Sweet Song" (Molloy).
 Foxtrot—Don Voorhees's Orchestra, "O! Man River" (Kern).
 Foxtrot—Ted Wallace and his Campus Boys, "I've Got a Feeling I'm Falling" (Link) (01586).
 Foxtrot—Don Voorhees' Orchestra, "Can't Help Lovin' Dat Man" (Kern) (01406).
 Foxtrot—Andy Sannella's All Star Trio, "Perfume of Roses" (Donovan) (Regal G20493).
 10.15: Vocal duet—Layton and Johnstone, "Carolina Moon" (Davis).
 Foxtrot—Ernie Golden's Orchestra, "She's Got Great Ideas" (Tobias).
 Foxtrot—Piccadilly Players, "I Lift Up My Finger and Say Tweet Tweet" (Sarony) (01595).
 Foxtrot—Ernie Golden's Orchestra, "That's Her Now" (Ager).
 Waltz—The Cavaliers, "Underneath the Russian Moon" (Gusman).
 10.30: Organ solos—Milton Charles, (a) "From the Land of the Sky-Blue Water"; (b) "At Dawning" (Cadman).
 Foxtrot—Ray Starita and his Ambassadors Band, "Wake Up, Chill'un, Wake Up!" (Trent) (01595).
 Foxtrot—Hal Swan's Cafe Royal Band, "Me and the Man in the Moon" (Leslie) (Regal G20492).
 Foxtrot—Andy Sannella and his All Star Trio, "I'll See You Thru" (Kassel) (Regal G20493).
 Waltz—Eddie Thomas' Collegians, "Billie" (Henderson) (01584).
 10.45: Hawaiian—Lizzie Alohioka and Chorus, "Lili E" (Kaulia).
 Tango—Anson, Weeks Orchestra, "Senorita" (Weeks) (01584).
 Foxtrot—Paul Whiteman's Orchestra, "Get Out and Get Under the Moon" (Shay) (07001).
 Foxtrot—Corona Dance Band, "I Faw Down An' Go Boom" (Brockman) (Regal G20492).
 Foxtrot—Paul Whiteman's Orchestra, "Evening Star" (Turk).
 Waltz—The Cavaliers, "Bye and Bye Sweetheart" (Valentine).
 Reel—O'Leary's Irish Minstrels, "Turkey in the Straw."
 11.0: God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, MAY 13.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, MAY 13.

- 3.0: Chimes. Selected gramophone items.
 4.25: Sporting results.
 4.30: Close down.
 5.0: Children's hour, conducted by Uncle Pete.
 6.0: Dinner session—"H.M.V." Hour.
 March—American Legion Band, "The Conqueror" (Teike).
 Savoy Orpheans, "Lido Lady" (Rodgers) (C1310).
 6.12: Tacet.
 6.15: New Light Symphony Orchestra, "Rustic Wedding Symphony."
 Victor Olof Sextet, "To a Water Lily" (Macdowell) (B2690).

- New Light Symphony Orchestra, "Spanish Dance" (Moszkowsky).
Wurlitzer organ—Reginald Foort, "Just Like Darby and Joan."
- 6.28: Tacet.
- 6.30: Jack Hylton's Orchestra, "The Selfish Giant" (Coates) (C1253).
Victor Olof Sextet, (a) "To a Wild Rose"; (b) "In Autumn."
Violin and wurlitzer organ—de Groot and Terence Casey, "Parted."
- 6.44: Tacet.
- 6.45: Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli).
Wurlitzer organ—Reginald Foort, "Love Lies" (Kellard) (B2775).
March—American Legion Band, "Iowa Corn Song" (arrgd. Beeston).
- 6.58: Tacet.
- 7.0: News session.
- 7.40: Talk—Mr. R. W. Marshall, "Tourish Resorts."
- 8.0: Chimes.
- Programme of music to be rendered by Kaikorai Band, under direction of Mr. Thos. J. Kirk-Burnnam, assisted by 4YA artists.
- March—Band, "Soldier in the Park" (Monckton).
Selection—The Band, "Rose Marie" (Gershwin).
- 8.11: Baritone—Mr. B. C. Bellhouse, (a) "Break, Break" (Carey); (b) "De Gospel Train" (Burleigh).
- 8.17: Vibraphone—Rudy Star Three, "Diane" (Rapee-Lew-Pollack).
- 8.21: Recitals—Miss E. Newbold, "In Service" (Anon.).
- 8.26: Fantasia—The Band, "Smithy in the Wood" (Round).
- 8.34: Soprano—Miss Isobel Crowe, (a) "The Birth of Morn" (Leoni); (b) "Salaam" (Lang).
- 8.40: Organ—Lew White, "Painting the Clouds with Sunshine."
- 8.43: Foxtrot—The Band, "Tiptoe Thru' the Tulips" (Burke).
- 8.48: Tenor—Mr. James Simpson, "Serenade" (Schubert).
- 8.52: Orchestra and chorus—Colonial Club Orchestra, "Rio Rita Medley."
- 9.0: Weather report.
- 9.2: Baritone—Mr. B. C. Bellhouse, "Land of Who Knows Where" (James).
- 9.6: Waltz—The Band, "Ecstasy" (Baynes).
- 9.13: Male quartet—Kanawha Singers, "A High Silk Hat and a Walking Cane" (Kohal-Marston) (Brunswick 347).
- 9.17: Recital—Miss E. Newbold, (a) "A Way Out Of It"; (b) "Three Gallant Gentlemen" (Anon.).
- 9.23: Overture—Band, "Jessonda" (Spohr).
- 9.33: Soprano—Miss Isobel Crowe, "A Brown Bird Singing" (Wood).
- 9.37: Xylophone—Rudy Star Three, "Polly" (Zamecnik) (Parlo. A2548).
- 9.40: Gavotte—The Band, "Evening Bells" (Rimmer).
- 9.47: Tenor—Mr. James Simpson, (a) "The Auld Scotch Songs" (Leeson); (b) "At the Mid-Hour of Night" (Cowan).
- 9.53: Cornet with band accompaniment, "My Prayer" (Squire).
- 9.57: March—The Band, "Entry of the Gladiators" (Finck).
- 10.0: God Save the King.

Wednesday, May 14

1YA, AUCKLAND, 900 KILOCYCLES—WEDNESDAY, MAY 14.

- 3.0: Afternoon session—selected studio items, including literary selection by the Announcer.
- 4.30: Close down.
- 5.0: Children's session, conducted by Uncle Tom.
- 6.0: Dinner session, "H.M.V." hour.
March—U.S. Army Band, "Army and Marine" (Starke).
Selection—Piccadilly Orchestra, "The Waltz Dream" (Strauss).
Jack Hylton's Orchestra, "My Inspiration is You" (Nicholls).
- 6.12: Tacet.
- 6.15: Royal Opera Orchestra, "Sylvia Ballet Prelude" (Delibes) (C1417).
Royal Opera Orchestra, "Sylvia Ballet Intermezzo" (Delibes) (C1417).
Salon Orchestra, "Chanson Boheme" (Baldi) (B2581).
- 6.27: Tacet.
- 6.30: Jack Hylton's Orchestra, "A Room with a View" (Coward).
Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).
March—San Francisco Symphony Orchestra, "Marche Militaire."
- 6.42: Tacet.
- 6.45: Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier).
Balalaika Orchestra, "Shining Moon" (Russian Folk Song) (EAS).
March—U.S. Army Band, "American Spirit" (Buglione) (Zono. EE145).
- 6.57: Tacet.
- 7.0: News and market reports.
- 7.40: Talk—Madame Mable Milne, "Health and Diet."
- 8.0: Chimes.
- March—Auckland Artillery Band, "North Star" (Rimmer).
- 8.6: Vocal duet—The Morpringle Duo, "Kingfisher Blue" from "Jheillum River" (Finden).
- 8.10: Selection—Auckland Artillery Band, "I Lombardi" (Verdi).
- 8.25: Humour—Mr. Dan Flood, "The Introduction" (Dennis).
- 8.29: Xylophone and orchestra—W. W. Bennett, "Gee Whizz" (Brooke).
- 8.33: Soprano—Miss C. Pringle, (a) "My Dearest Heart" (Sullivan); (b) "You in a Gondola" (Clarke).
- 8.40: Foxtrot—Auckland Artillery Band, "Wedding of the Painted Doll."
- 8.44: Male choir—Sheffield Orpheus Male Choir, "The Lincolnshire Poacher" (Traditional) (Col. 01175).
- 8.47: Cornet duet—Members of the Auckland Artillery Band, "Besses of the Barn" (Carree).
- 9.2: Evening forecast and announcements.
- 9.4: Organ—Terence Casey, "Pleading" (Haydn-Wood) (Col. 01683).

- 9.7: Vocal duet—The Morpringle Duo, "I Don't Suppose" (Trotter).
- 9.11: Piccolo duet with orchestra—Jean and Pierre Gennin, "Rippling Streams" (Gennin) (Col. 02575).
- 9.15: Waltz—Auckland Artillery Band, "Sleepy Valley" (Harding).
- 9.25: Contralto—Miss Doris Moore, (a) "Meadowsweet" (Brahe); (b) "Crossing the Bar" (Jarman).
- 9.32: Overture—Auckland Artillery Band, "Zampa" (arr. Rimmer).
- 9.38: Humour—Mr. Dan Flood, (a) "Breakfast" (Graham); (b) "The Charge of the Tight Brigade" (Bennett).
- 9.45: Foxtrot—The Band, "Honey" (Carree).
- 9.50: Male choir—Sheffield Orpheus Male Voice Choir, "There is Tavern in the Town" (Traditional) (Col. 01175).
- 9.54: March—The Band, "Mount Egmont" (arr. Trussell).
- 10.0: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, MAY 14.

SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, MAY 14.

- 3.0: Afternoon session, gramophone recital.
- 4.25: Sports results.
- 4.30: Close down.
- 5.0: Children's hour, "Uncle John."
- 6.0: Dinner session, "H.M.V." hour.
Royal Albert Hall Orchestra, "Carmen Prelude, Act 1" (Bizet).
National Symphony Orchestra, "Sylvia Ballet Cortege de Bacchus."
Organ—Reginald Foort, "Schon Rosmarin" (Kreisler) (B2664).
- 6.12: Tacet.
- 6.15: Marek Weber's Orchestra, "Vienna by Night" (Komzak) (C1507).
'Cello—Lauri Kennedy, "Hungarian Rhapsody" (Popper) (C1595).
- 6.27: Tacet.
- 6.30: Selection—National Symphony Orchestra, "Bohemian Girl" (Balfe).
Royal Albert Hall Orchestra, "Carmen Prelude, Act 2" (Bizet) (E461).
Organ—Reginald Foort, "A Brown Bird Singing" (Haydn-Wood).
- 6.42: Tacet.
- 6.45: Royal Opera Orchestra, "Hungarian Dance, No. 5" (Brahms) (C1415).
Selection—H.M. Coldstream Guards, "H.M.S. Pinafore" (Sullivan).
- 6.57: Tacet.
- 7.0: News session.
- 7.30: Addington stock market reports.
- 8.0: Chimes.
- Operatic and miscellaneous programme.
- Overture—La Scala Orchestra, "The Secret of Suzanna" (Wolf-Ferrari).
- 8.5: Tenor—Mr. Harold Prescott, (a) "The Sea Hath its Pearls" (Clutsam); (b) "Onaway Awake Beloved" (Cowen).
- 8.11: Instrumental—Studio Instrumental (Conductor, Mr. Harold Beck), "Blue Danube Waltz" (Strauss).
- 8.21: Musical recital by Miss Edith Harry (Welsh Composer, Pianiste and Singer), with introductory comments.
Pianoforte solo—"Melodie in E" (Rachmaninoff); "Polonaise in A" (Chopin).
Songs to own accompaniment, (a) "The Young Rose" (Edith Harry); (b) "Achal by the Sea" (Lawrence); (c) "Slumber Song."
- 8.41: 'Cello solo—Mr. Harold Beck, "O Star of Eve" (Wagner, arr. Beck) from "Tannhauser."
- 8.45: Baritone—Mr. Fred. C. Penfold, "The Trumpeter" (Dix).
- 8.49: Instrumental—Studio Instrumental Octet, (a) "Gipsy Song" (Bizet); (b) "Intermezzo" from "Cavalleria Rusticana" (Mascagni); (c) "Waltz of the Flowers" (Tschalkowsky).
- 9.1: Weather report and announcements.
- 9.3: Tenor—Mr. Harold Prescott, (a) "Indian Serenade" (Voergi); (b) "La Donna E Mobile" (Rigoletto) (Verdi).
- 9.8: Band—Band of H.M. Coldstream Guards, "La Source Ballet" (arr. Winterbottom)—(a) Danse des Echarpes; (b) Scene d'Amour; (c) Variation (H.M.V. B2798).
- 9.14: Further Recital by Miss Edith Harry, Welsh Pianiste, Composer and Singer, with introductory comments.
Pianoforte—"Nocturne in E Minor" (Chopin); (b) "Waltz in G Flat." Songs to own accompaniment, "Virginian Love Song" (Edith Harry); "Boat Reverie" (Edith Harry); "Ave Maria" (R. A. Horne).
- 9.34: Studio Instrumental Octet—"Faust Ballet Music" (Gounod).
- 9.45: Violin and organ—Chas. Williams, "Melody in F" (Rubinstein).
- 9.48: Baritone—Mr. Fred. C. Penfold, (a) "The Song of the Volga Boatman" (Challapin-Koeneman); (b) "I Am Fate" (Hamblen).
- 9.54: Instrumental—Studio Instrumental Octet, (a) "Street in Algiers" (Ansell); (b) "Grasshopper's Dance" (Bucalossi).
God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, MAY 14.

- 3.0: Chimes. Selected gramophone items.
- 3.15: Talk—Home Science Extension Department of Otago University, under auspices of 4YA Primary Productions Committee, "Fresh Air."
- 4.25: Sporting results.
- 4.30: Close down.
- 5.0: Children's hour, conducted by Uncle Pete.
- 6.0: Dinner music—"Columbia" Hour:
Orchestral—Finck's Orchestra, "Gaiety Echoes" (Caryll-Monckton).
Orchestral—Sandler's Orchestra, "Las Lagarteranas" (Guerrero and Foulkes) (01634).

- Violin—Lipschultz, "La Golondrina" (Sorraddell) (Regal G20489).
 6.13: Tacet.
 6.15: Instrumental—Squire's Celeste Octet, "Everybody's Melodies" (arr. J. H. Squire) (02896).
 Organ—John Hassel, "By the Waters of Minnetonka" (Lieurance).
 Orchestral—Sandler's Orchestra, "Raphaellito" (Guerrero and Foulkes)
 6.28: Tacet.
 6.30: Orchestral—Regal Cinema Orchestra, "Broadway Selection" (Gottler).
 Violin—Lipschultz, "Estrellita" (Ludlow) (Regal G20489).
 Orchestral—Romani and Italian Orchestra, "Old Comrades March."
 6.43: Tacet.
 6.45: Orchestral—Berlin State Orchestra, "Die Fledermaus" (Strauss).
 Orchestra—Nullo Romani's Orchestra, "Canto al Inverno" (Regal).
 Orchestral—Russian Novelty Orchestra, "Tesoro Mio" (Becucci).
 6.58: Tacet.
 7.0: News session.
 7.15: Talk—G. A. Holmes, under auspices of 4YA Primary Productions Committee, "Mineral Needs of Livestock."
 8.0: Chimes. Instrumental—Novelty Trio, (a) "Sweetie" (Whiting), (b) "When Lights are Low" (Kahn).
 8.9: Soprano—Miss Rita Holmes, (a) "When Love Comes Stealing" (Hirsh), (b) "Do Not Go, My Love" (Hageman).
 8.16: Saxophone novelty—Messrs. J. McCaw and T. Law, "Bear Tracks."
 8.21: Recital—Miss R. Williams, "How Bannerman Rode the Grey."
 8.26: Tenor—Mr. George Crawford, (a) "Because" (D'Hardelot), (b) "Lord Randall" (Schott).
 8.32: Instrumental—Novelty Trio, (a) "Lovable and Sweet" (Levant), (b) "My Dream Memory" (Levant).
 8.39: Humour—Mr. B. Brown, "You the Noo" (Lauder).
 8.45: Saxophone—Mr. J. McCaw, "Mocking Bird" with variations (Cox).
 8.49: Contralto—Mrs. A. H. Ritchie, (a) "Crescent Moon" (Sanderson), (b) "Hark What I Tell to Thee" (Haydn).
 8.55: Instrumental—Novelty Trio, "Am I Blue?" (Clarke).
 8.59: Weather report.
 9.1: Soprano—Miss Rita Holmes, "Mignonne, Here is April" (Del Riego).
 9.4: Saxophone novelty—Messrs. J. McCaw and T. Law, "Naughty Yodel."
 9.8: Recital—Miss R. Williams, "Gathering Peaches" (Baughan).
 9.12: Tenor—Mr. George Crawford, "Sally in Our Alley" (Carey).
 9.15: Instrumental—Novelty Trio, "Sleepy Valley" (Hanley).
 9.19: Humour—Mr. B. Brown, "The Waggle of the Kilt" (Lauder).
 9.23: Saxophone—Mr. T. Law, "Blue Bells of Scotland" with variations.
 9.26: Contralto—Mrs. A. H. Ritchie, "Slumber Song of Madonna" (Head).
 9.29: Instrumental—Novelty Trio, "Sunny Side Up" (De Sylva).
 9.33: Dance session, "Columbia":
 Foxtrot—Broadway Nitelites, "You're the Cream in My Coffee."
 Foxtrot—Denza Dance Band, "A Lane in Spain" (Lewis and Lombardo).
 Foxtrot—Benson All-Star Orchestra, "To Know You is to Love You."
 Foxtrot—The Piccadilly Players, "The Five O'Clock Girl" (Happy-go-lucky Bird) (Kalmar and Ruby) (01492).
 Vocal—Will Fyffe, "She was the Belle of the Ball" (Will Fyffe).
 9.45: Foxtrot—The Piccadilly Players, "The Five O'Clock Girl" (Who did? You did) (Kalmar and Ruby) (01492).
 Foxtrot—Rhythmic Troubadours, vocal refrain, "Revolutionary Rhythm" (Davis, Coots, and Spier) (G20600).
 Foxtrot—Ipiana Troubadours, "S Wonderful" (Gershwin) (01306).
 Foxtrot—Ipiana Troubadours, "I'll Get By" (As long as I have You).
 Foxtrot—DeBrooy Somers Band, "Without You, Sweetheart" (De Sylva).
 Foxtrot—Paul Specht and Orchestra, vocal trio, "Hittin' the Ceiling."
 10.3: Vocal—Charles Lawman and novelty accompaniment, "Oh, Sweetheart, where are You To-night?" (Davis and Coots) (Regal).
 Foxtrot—Rudy Vallee, "Outside" (Flynn) (Regal G20570).
 Foxtrot—Denza Dance Band, "One Summer Night" (Coslow and Spier).
 Foxtrot—Swain's Cafe Royal Band, "It Goes Like This, that Funny Melody" (Cesar-Friend) (Regal G20570).
 10.15: Waltz—Selvin's Orchestra, "Ramona" (Wayne-Gilbert) (01137).
 Foxtrot—Bernie's Orchestra, "I Want to Meander in the Meadow."
 Foxtrot—Midnight Revellers, "The Moonlight March."
 Foxtrot—Bernie's Orchestra, "Where the Bab-bab-babbling Brook."
 Foxtrot—Paul Specht and Orchestra, vocal refrain, "Sing a Little Love Song" (Gottler, Mitchell, and Conrad) (01629).
 10.30: Vocal—Charles Lawman and novelty accompaniment, "When We Get Together in the Moonlight" (Rose, Ryan, and Violinsky) (Regal).
 Waltz—The Cavaliers, "Sleepy Valley" (Hanley-Sterling) (01688).
 Foxtrot—Lombardo's Royal Canadians, "You Made Me Love You."
 Foxtrot—Rhythmic Troubadours and vocal refrain, "When the Real Thing Comes Your Way" (Spier and Coslow) (Regal G20600).
 Foxtrot—Lombardo's Royal Canadians, "You Belong to Me, I Belong to You" (Lombardo-Newman) (01690).
 Foxtrot—Midnight Revellers, "Sweetheart's Holiday" (Regal).
 10.48: Waltz—The Cavaliers, "Recollections" (Rapee-Pollack) (01688).
 Waltz—Swain's Band, "Sleep, Baby, Sleep" (Tucker and Schuster).
 Foxtrot—Selvin's Orchestra, "In My Bouquet of Memories" (01137).
 Waltz—Swain's Band, "Heigh Ho! Everybody, Heigh Ho!" (Regal).
 11.0: God Save the King.
- 3.15: Talk—Home Science Talk, "The Use of Left-over Foods," prepared by the Home Science Department of Otago University.
 4.30: Close down.
 5.0: Children's session conducted by Peter Pan.
 6.0: Dinner session—"Parlophone" Hour:
 Overture—Grand Symphony Orchestra, "Zampa" (Herold) (A4020).
 Waltz—Dajos Bela Orchestra, "Morgenblätter" (Strauss) (A4038).
 6.12: Tacet.
 6.15: Instrumental—Orchestra of the Opera Comique, Paris, "Scenes Pittoresques" (Massenet) (A4057).
 Waltz—Edith Lorand Orchestra, "Vienna Waltz" (Drdla) (E10531).
 6.27: Tacet.
 6.30: Waltz—Dajos Bela Orchestra, "Ideale" (Tosti) (A4015).
 Waltz—Edith Lorand Orchestra, "Merry Vienna" (Zishrer) (E10531).
 6.42: Tacet.
 6.45: Waltz—Edith Lorand Orchestra, "Song of Autumn" (Waldteufel).
 Waltz—Queenie and David Kaili, "Hawaiian March" (Ellis) (A2372).
 Valse Intermezzo—Edith Lorand Orchestra, "The Flowers' Dream."
 Selection—H.M. Irish Guards, "The Desert Song" (Romberg) (A2433).
 6.57: Tacet.
 7.0: News and market reports.
 8.0: Chimes. Presentation of special novelty programme by the "Radio Scamps," assisted by the 1YA Orchestral Octet, entitled, "Reminiscences."
 9.30: Programme of dance music, "Columbia":
 Foxtrot—Ben Selvin's Orchestra, "Broadway Melody" (Brown).
 Foxtrot—Leo Reisman's Orchestra, "My Castle in Spain is a Shack in the Lane" (Friend) (01544).
 Foxtrot—Broadway Nitelites, "You Were Meant for Me" (Brown).
 Foxtrot—The knickerbockers, "That's the Good Old Sunny South."
 9.42: Entertainer—Norman Long, "What did the Village Blacksmith Say?"
 Foxtrot—Ben Selvin's Orchestra, "He, She, and Me" (Lombardo).
 Foxtrot—Paul Whiteman's Orchestra, "Louise" (Whiting) (07022).
 Foxtrot—Ipiana Troubadours, "Deep Night" (Henderson) (01539).
 Waltz—Paul Whiteman's Orchestra, "Blue Hawaii" (Baer) (07021).
 Waltz—Paul Whiteman's Orchestra, "My Angeline" (Wayne) (07020).
 10.0: Duet—Flotsam and Jetsam, "We Never Know What to Expect."
 Foxtrot—Piccadilly Players, "Make Believe" (Kern) (01408).
 Foxtrot—Jan Garber's Orchestra, "Guess Who?" (Davison) (01489).
 Foxtrot—Piccadilly Players, "Why Do I Love You?" (Kern) (01408).
 Foxtrot—Paul Specht's Orchestra, "My Annapolis and You" (Weinberg).
 10.15: Organ—Frederick Curzon, "For Old Time's Sake" (de Sylva) (Regal).
 Foxtrot—Gil Dech's Syncopators, "My Mammy" (Lewis) (01520).
 Foxtrot—Stellar Dance Band, "If I Had You" (Shapiro) (Regal).
 Foxtrot—Harry Reser's Syncopators, "Here Comes the Show-Boat."
 Foxtrot—Harry Reser's Syncopators, "Where Did You Get that Name?"
 10.30: Entertainer—Norman Long, "Overture 1929" (Cariton) (01533).
 Foxtrot—Geoffrey Helder's Kettner Five, "Shout Hallelujah! 'Cause I'm Home" (Dixon) (G20476).
 Foxtrot—Paul Whiteman's Orchestra, "Nola" (Ardnt) (07022).
 Foxtrot—Stellar Dance Band, "How About Me?" (Berlin) (Regal).
 Foxtrot—Geoffrey Gelder's Kettner Five, "Happy Days and Lonely Nights" (Rose) (Regal G20476).
 Waltz—Paul Whiteman's Orchestra, "Coquette" (Berlin) (07021).
 10.48: Duet—Flotsam and Jetsam, "When I Grow Old, Dad" (01530).
 Foxtrot—Stellar Dance Band, "Flower of Love" (Dreyer) (Regal).
 Foxtrot—Paul Whiteman's Orchestra, "Chinese Lullaby" (Bowers).
 Waltz—Gil Dech's Syncopators, "I'll Always Be in Love with You"
 Waltz—Stellar Dance Band, "Marie" (Berlin) (Regal G20486).
 11.0: God Save the King.
- 2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, MAY 15.
 3.0: Chimes. Selected studio items.
 3.15: Talk—"The Use of Left-over Foods," prepared by Home Science Department Otago University.
 3.30 and 4.30: Sports results.
 4.55: Close down.
 5.0: Children's session, conducted by Uncle George.
 6.0: Dinner session—"Parlophone" Hour.
 Waltz—Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde); (b) "Mignonette" (Nicholls) (E10571).
 Instrumental—Dajos Bela Orchestra, "Eddgaffeln" (Landen).
 6.12: Tacet.
 6.15: Instrumental—Frank Westfield's Orchestra, "Classica."
 Organ—Sigmund Krumgold, "Indian Love Call" (Friml) (A2339).
 Waltz—Dajos Bela Orchestra, "You, Only You" (Arnold) (E10592).
 6.27: Tacet.
 6.30: Selection—Raie da Costa Ensemble, "Funny Face" (Gershwin).
 Waltz—Dajos Bela Orchestra, "The Sphinx" (Poppy) (E10592).
 6.42: Tacet.
 6.45: Instrumental—Orchestra Mascotte, (a) "The Flowers' Dream" (Translatour); (b) "Whispering of the Flowers" (Von Blon).
 Organ—Sigmund Krumgold, "Gypsy Love Song" (Herbert) (A2339).
 Instrumental—Dajos Bela Orchestra, "Electric Girl"
 6.58: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Miss Inez Connop, "Ballroom Dancing."
 A studio concert by the Miramar Silver Band (Conductor, Mr. A. Sutherland), and assisted by 2YA artists.
 8.0: Chimes.
 March selection—The Band, (a) "The Blockade" (Greenwood); (b) "The Magic Flute" (Mozart).

Thursday, May 15

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, MAY 15.

- 3.0: Afternoon session—Concert by Lewis Eady, Limited, and literary selection by the Announcer.

- 8.16: Quartet—The Lyric Quartet, "Calm is the Sea" (Pfeil).
 8.20: Tenor—Mr. W. Roy Hill, "Silent Moon" (Williams).
 8.24: Airé varie—Soloist, Bandsman J. H. Newton, The Band, "Old Folks at Home" (Greenwood).
 8.31: Humour—Miss Esme Crow, "The Three Trees" (Powell).
 8.36: Bass—Mr. W. Binet Brown, (a) "Ho Jolly Jenkin" (Sullivan); (b) "Rolling Down to Rio" (German).
 "My Old Kentucky Home"; (b) "Old Black Joe."
 8.43: Vibraphone solos—Miss Joyce Morgan, Stephen Foster Memories, (a)
 8.48: Soprano—Miss Phyllis Liddell, (a) "The Forge" (Brahms); (b)
 "Hark Hark the Lark" (Schubert).
 8.55: Quartet—The Lyric Quartet, "Sailors' Chorus" (Parry).
 8.59: Foxtrot—The Band, "Jericho" (Myers).
 9.3: Weather report and announcements.
 9.5: Baritone—Mr. Will Goudie, "The Last Call" (Sanderson).
 9.9: Record, vocal—Miriam Licette, Clara Serena, Francis Russell, Dennis Noble, Robert Carr, and Chorus, Vocal gems from "Merrie England"
 9.17: Fantasia—The Band, "A Darkey's Dreamland" (Bldgood).
 9.27: Duet—Messrs. Chas. Williams and Roy Hill, "Soft Evening Breezes."
 9.31: Humour—Miss Esme Crow, "The Usual Way" (Weatherley).
 9.36: Vibraphone solos—Miss Joyce Morgan, (a) "Massa's in de Cold, Cold Ground" (Foster); (b) "Carry Me Back to Old Virginny" (Bland).
 9.42: Waltz—The Band, "Gold and Silver" (Lehar).
 9.48: Soprano—Miss Phyllis Liddell, "Like to the Damask Rose" (Elgar).
 9.52: Quartet—Lyric Quartet, "Kentucky Babe" (arrgd. Gatheridge).
 9.56: Foxtrot—Band, "Smiling Irish Eyes" (Perkins).
 March—The Band, "The Old Warrior" (Leyland).
 10.9: God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, MAY 15.

- 3.0: Afternoon session—Gramophone recital.
 3.15: Home Science Talk, prepared by the Home Science Department of Otago University, "The Use of Left-over Foods."
 3.30: Gramophone recital continued.
 4.30: Close down.
 5.0: Children's Hour—"Ladybird and Uncle Frank."
 6.0: Dinner session—"Columbia" Hour:
 Orchestral—Squire Celeste Octet, "Peter Pan" Selection (Crook).
 'Cello—Gaspar Cassado, "Chanson Villageous" (Popper) (03595).
 Orchestral—Columbia Symphony Orchestra, "Scarf Dance."
 6.13: Tacet.
 6.15: Orchestral—Debroy Somers Band, "The Desert Song" (Romberg).
 'Cello—Gaspar Cassado, "Menuett" (Haydn, arr. Burmester-Moffat).
 Male choir—Sheffield Orpheus Male Choir, "Hymn Before Action" (Kipling-Walford Davies) (Regal G30008).
 6.26: Tacet.
 6.30: Orchestral—Halle Orchestra, "Rosamunde Ballet Music" (Schubert):
 (1) Andantino, (2) Allegro Moderato, (3) Andante un poco assai.
 Instrumental—Paul Whiteman and his Orchestra, "Christmas Melodies" ("Noel" and "Adeste Fideles") (07511).
 6.43: Tacet.
 6.45: Orchestral—Columbia Symphony Orchestra, "The Flatterer."
 Zurich Tonhalle Orchestra, "Gavotte" from "Idomeneo" (Mozart).
 Paul Whiteman and his Orchestra, "Silent Night, Holy Night" (07511)
 Male choir—Sheffield Orpheus Male Choir, "The Long Day Closes."
 6.58: Tacet.
 7.0: News session.
 7.30: Talk—Review of Journal of Agriculture, arranged by 3YA Primary Productions Committee.
 8.0: Chimes. Classical and miscellaneous programme:
 Overture—Lucerne Kursaal Orchestra, "Orpheus in the Underworld."
 8.9: Tenor—Mr. W. J. Trewern, (a) "Prelude" (Cycle of Life) (Ronald),
 (b) "Spirit So Fair" (Donizetti).
 8.15: Instrumental—Studio Instrumental Octet (Conductor, Mr. Harold Beck), "Russian Dances Nos. 2 and 4" (Borthiewicz).
 8.31: Presentation of group of songs by Miss Greta Don (Scottish soprano),
 "Songs of the Hebrides" (Kennedy Fraser), (a) "To the Cradle of the Isles," (b) "The Birlinn of the White Shoulders," (c) "Ben-becula Bridal Procession."
 8.33: Baritone—Mr. J. Francis Jones, "Had a Horse" (Korby).
 8.37: Instrumental—Studio Instrumental Octet, Three Songs, (a) "Hindoo Song" (Bemberg), (b) "At Evening" (Debussy), (c) "Open Thy Blue Eyes" (Massenet).
 8.46: Recitation—Miss Florence Brewins, (a) "Morning Thanksgiving" (Drinkwater), (b) "To a Skylark" (Wordsworth).
 8.51: Piano—Leopold Godowsky, "Nocturne in E Flat" (Chopin) (Col.).
 8.55: Contralto—Mrs. D. W. Stallard, "The Passion of Spring" (Slater).
 8.59: Weather report and announcements.
 9.1: Organ—G. T. Pattman, Four Indian Love Lyrics: (1) Temple Bells,
 (2) Less than the Dust, (3) Kashmiri Song, (4) Till I Awake."
 9.9: Tenor—Mr. W. J. Trewern, "Come into the Garden, Maud" (Balfé).
 9.15: Instrumental—Studio String Quartet, "Andante from String Quartet" (Tschalkowski), "Moment Musical" (Schubert).
 9.24: Presentation of second group of songs by Miss Greta Don (Scottish soprano) in "Songs of the Hebrides: (2) "A Mahir' Bhan" (Kennedy Fraser), (b) "Agnish on the Machair," (c) "Kirsteen."
 9.30: 'Cello—W. H. Squire, "Sicilienne" (Faure) (Columbia L1759).
 9.34: Baritone—Mr. J. Francis Jones, (a) "My Resting-Place" (Schubert),
 (b) "Morning Greeting" (Schubert).

- 9.40: Instrumental—Miss Irene Morris, Miss Thelma Cusack, and Studio Instrumental Octet, "Double Concerto for Two Violins" (Bach).
 9.48: Recitation—Miss Florence Brewins, "The Gift of Tritemius" (Whittier).
 9.52: Contralto—Mrs. D. W. Stallard, (a) "Lie There, My Love" (McCuna),
 (b) "Melody of Life" (Leigh).
 9.58: Instrumental—Studio Instrumental Octet, (a) "Scene de Ballet" (Tscherepinne), (b) "Vecchio Minuetto" (Sgambati).
 God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, MAY 15. SILENT DAY.

Friday, May 16

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, MAY 16.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
 4.30: Close down.
 5.0: Children's session, conducted by Nod and Aunt Jean.
 6.0: Dinner session—"Columbia" Hour.
 Overture—Basle Symphony Orchestra, "Der Freischutz" (Weber).
 6.12: Tacet.
 6.15: Instrumental—J. H. Squire's Celeste Octet, "The Grasshoppers" Dance" (Bucalossi); (b) "The Butterfly" (Bendix) (3608).
 Musical Art Quartet, "To a Wild Rose" (McDowell) (01506).
 Violin—Yvonne Curti, "Madrigale" (Simonetti) (01529).
 6.27: Tacet.
 6.30: Instrumental—J. H. Squire's Celeste Octet, (a) "I Love the Moon" (Rubens); (b) "Two Eyes of Grey" (McGeoch) (01213).
 Instrumental—J. H. Squire's Celeste Octet, (a) "Amouresue Valse" (Berger); (b) "Valse Bleue" (Margis) (3643).
 6.42: Tacet.
 6.45: Instrumental—J. H. Squire's Celeste Octet, "Valse Caprice."
 'Cello—W. H. Squire, "Sarabande" (Seitzer) (04283).
 Instrumental—J. H. Squire's Celeste Octet, "Perpetuum Mobile."
 6.57: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. Arthur Fairburn, "Talk on National Park."
 8.0: Chimes.
 Relay from the Lewis Eady Hall of the latest vocal and instrumental music.
 8.30: Presentation of play, "Paolo and Francesca." A tragedy in four acts, by Stephen Phillips, and published by John Lane, the Bodley Head Ltd., under the direction of Mr. J. M. Clark. Characters: Giovanni Malatesta, J. M. Clark; Paolo (brother of Giovanni), J. E. Mackie; Pulci (a drug seller), Len Barnes; Francesca (bride of Giovanni), Miss Millie Earl; Lucrezia (cousin to Giovanni), Miss Althea Parker; Nita (maid to Francesca), Miss Joan Hudson; Angelia (a blind servant), Miss L. V. Bruce; Tessa (daughter to Pulci), Miss Biddy Philcox.
 Orchestral—Royal Opera Orchestra, "Faust Ballet Music—Allegro and Adagio" (Gounod) (H.M.V. C1462).
 Act 1.—Scene: A gloomy hall in the Malatesta Castle at Rimini, hung with weapons and instruments of chase; guests and citizens assembled with soldiers, huntsmen and retainers; hounds held in leash.
 Orchestral—Royal Opera Orchestra, "Faust Ballet Music—Allegretto and Maestoso" (Gounod) (H.M.V. C1426).
 Act 2.—Scene: A hall in the palace. A week later.
 Orchestral—Royal Opera Orchestra, "Faust Ballet Music—Moderato Con Moto" (Gounod) (H.M.V. C1463).
 Act 3.—Scene: The shop of Pulci. Late evening.
 Orchestral—Royal Opera Orchestra, "Faust Ballet Music—Vivo."
 Act 4.—Scene: A chamber in the palace. Late evening of the second day after Giovanni's departure.
 Orchestral—Royal Opera Orchestra, "Damnation of Faust—Rakoczy March" (Berlioz).
 10.0: (approx.) God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, MAY 16.

- 3.0: Chimes. Selected studio items
 3.30 and 4.30: Sporting results.
 4.55: Close down.
 5.0: Children's session, conducted by Big Brother Jack.
 6.0: Dinner music session—"H.M.V." Hour:
 Orchestral—Marek Weber and Orchestra, "Beggar Student."
 Orchestral—Philadelphia Symphony Orchestra, "Carmen Entr'acte, Act 4" (Bibet) (E531).
 Piano—Wilhelm Backhaus, "Bohemian Dance" (Smetana) (DB1130).
 6.13: Tacet.
 6.15: Band—Creatore's Band, "Semiramide" (Rossini) (C1420).
 Orchestral—Philadelphia Symphony Orchestra, "Soldiers Changing the Guard" (Bizet) (D1618).
 Orchestral—Marek Weber and Orchestra, "Rustle of Spring" (Sinding).
 6.28: Tacet.
 6.30: Orchestral—New Symphony Orchestra, "Nell Gwynn Dances Nos. 1 and 2" (Edward German) (E2987).

- Orchestral—Philadelphia Symphony Orchestra, "Carmen"—March of the Smugglers" (Bizet) (D1618).
Piano—Wilhelm Backhaus, "Caprice Espagnole" (Moszkowski).
- 6.44: Tacet.
- 6.45: Orchestral—Marek Weber and Orchestra, "My Darling" Waltz.
Band—National Military Band, "Flying Dutchman Overture" (Wagner).
Orchestral—Philadelphia Symphony Orchestra, "Carmen" Entr'acte, Act 1" (Bizet) (D531).
- 6.58: Tacet.
- 7.0: News session, market reports and sports results.
- 7.30: Lecturette—Mr. Dan McKenzie, "The Amended Rugby Rules for 1930—
with Special Reference to the British Rugby Team's Tour."
- 7.45: Lecturette—Mr. N. R. Jacobsen, "Simple Explanations of Scientific Phenomena."
- 8.0: Chimes. Overture—2YA Orchestra, "Stradella" (Flotow).
- 8.9: Soprano—Mrs. M. J. Goodson, "Casta Diva" ("Norma"—Bellini).
- 8.13: Baritone—Mr. A. W. Beckford, "The Millionaire's Song" ("Floradora").
- 8.17: Piano—Miss Christina Conlon, L.T.C.L., "Les Akouttes" (Glinka).
- 8.24: Tenor—Mr. Harry Phipps, "All Hail, Thou Dwelling" (Gounod).
- 8.28: Selection—2YA Orchestra, (a) "Intermezzo" ("Cavalleria Rusticana"—Mascagni), (b) "Sextet" ("Lucia di Lammermoor").
- 8.33: Soprano—Mrs. M. J. Goodson, "Convien Portier" ("Daughter of the Regiment"—Donizetti).
- 8.42: Baritone—Mr. A. W. Beckford, "The Cobbler's Song" from "Chin Chin Chow" (Norton).
- 8.46: Selection—2YA Orchestra, "Lilac Time" (Schubert-Clutsam).
- 8.54: Tenor—Mr. Harry Phipps, "There is a Flower that Bloometh" ("Mariana"—Wallace).
- 8.58: Weather report and announcements.
- 9.0: A special programme of "Parlophone" Maori recordings:
Orchestral—2YA Orchestra, (a) "Chorus of Welcome" (Hill), (b) "E Pari Ra" (Rowe).
Duet—Ana Hato and Deane Waretini, "Te Arawa" (arr. Piripata).
Soprano—Ana Hato, "Waiata Poi" (Poi Song) (Hill).
Duet—Ana Hato and Deane Waretini, "Hoki Hoki" (traditional).
Orchestral—2YA Orchestra, "Waiata Maori" (Hill), "Come Down the Wanganui."
Duet—Ana Hato and Deane Waretini, (a) "Hoea Ra" (Canoe Song, arr. Piripata), (b) "Tahi Nei Taru Kino."
Baritone—Deane Waretini, (a) "Haere Tonu" (Hoben and Horne) (Maori War Song) (Parlophone A2804).
Duet—Ana Hato and Deane Waretini, "Home, Little Maori, Home" (Hill) (Parlophone A2805).
Steel guitar—David Kaili, "Down Home Medley" (Parl. A2562).
Duets—Ana Hato and Deane Waretini, "Love Ditties" (traditional), (a) "Te Taniwha," (b) "Matangi" (Parlophone A2803).
Soprano—Ana Hato, "Akoako o te Rangī" (traditional) ((Whisper of Heaven)) (Parlophone A2802).
Baritone—Deane Waretini, "Ka Mate" (War Song) (Te Rangī).
Duet—Ana Hato and Deane Waretini, "Po Kare Kare" (Piripata).
Steel guitar—David Kaili, "Hawaiian Hotel" (traditional) (Parlo).
Baritone—Deane Waretini, (a) "May I Not Love," (b) "Po Atarau" (a Maori Farewell) (Kaihu) (Parlophone A2806).
Duets—Ana Hato and Deane Waretini, (a) "E Pari Ra" (Rowe), (b) "Hine e Hine" (Te Rangī Poi) (Parlophone A2805).
Orchestral—2YA Orchestra, "Po Kare Kare" (Piripata), "Waiata Poi" (Hill).
God Save the King.
- 3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, MAY 16.**
- 3.0: Afternoon session—Gramophone recital.
- 4.25: Sports results.
- 4.30: Close down.
- 5.0: Children's hour, by "Chuckie."
- 6.0: Dinner session—"H.M.V." Hour.
Piccadilly Orchestra, (a) "My Beloved Gondolier" (Tibor); (b) "Souvenir de Capri" (Beece) (B2575).
Instrumental—New Light Symphony Orchestra, "Just a Memory."
Violin and Kinema organ—Elsie Southgate, "I Hear You Calling Me."
- 6.12: Tacet.
- 6.15: Waltzes—Marek Weber's Orchestra, "Potpourri of Waltzes."
Waltz—Hilo Hawaiian Orchestra, "Sweet Hawaiian Dream Girl."
- 6.26: Tacet.
- 6.36: Instrumental—New Light Symphony Orchestra, "Scene de Ballet Marionettes" (Glazounov) (B2754).
Violin and kinema organ—Elsie Southgate, "Rose in the Bud" (Tate).
Instrumental—New Light Symphony Orchestra, "Persiflage" (Francis).
Instrumental—Jack Hylton's Orchestra, "When the White Elder-Tree Blooms Again" (Doelle) (C1616).
- 6.44: Tacet.
- 6.45: Instrumental—Salon Orchestra, "My Blue Heaven" (Whiting) (EB18).
Waltz—Hilo Hawaiian Orchestra, "Sleepy Honolulu Town" (Earl).
Instrumental—Jack Hylton's Orchestra, "I Kiss Your Hand, Madame."
- 6.56: Tacet.
- 7.0: News session.
- 8.0: Chimes.
- Popular and dance programme.
Orchestral—Savoy Orpheans, "Lido Lady" (Rodgers) (H.M.V. C1310).
- 8.9: Tenor—Mr. Douglas Suckling, (a) "Shiela" (Bambord); (b) "A Little Bit of Heaven" (Ball).
- 8.16: Violin—Miss Irene Morris, (a) "Chanson Valse" (Bachmann); (b) "Souvenir" (Adlington).
- 8.23: Mirthful moments—The Humorists, A sketch entitled "The Author, the Actor and the Victim" (MS.).
- 8.38: Dance music—Bailey-Marston Dance Orchestra, (a) "Arabesque" (Scheherazade) (Rimsky-Korsakov); (b) "Stampede" (Henderson).
- 8.46: Soprano—Miss Hilda Hutt, (a) "Charming Chloe" (German); (b) "The Little Damsel" (Ivor Novello).
- 8.52: Instrumental—Studio Instrumental Trio, Three Dances, (a) "Valse" (Helmberger); (b) "Minuet" (Shield); (c) "Gavotte" (Sinding).
- 9.2: Weather report and announcements.
- 9.4: Dance music—Bailey-Marston Dance Orchestra, (a) "Electric Girl" (Holmes); (b) "If I Had a Talking Picture of You" (de Sylva).
- 9.12: Tenor—Mr. Douglas Suckling, "A Cartload of Hay" (Adams).
- 9.16: Instrumental—Studio Instrumental Trio, (a) "Serenade" (Widor); (b) "The Golden Wedding" (Marie).
- 9.26: Humorous sketch—The Humorists, "Not Lost, But Gone Before."
- 9.33: Dance music—Bailey-Marston Dance Orchestra, (a) "I'm a Dreamer" (de Sylva); (b) "Goodness, Gracious Gracie" (Wimbrow).
- 9.41: Soprano—Miss Hilda Hutt, "Villanello" (Del Acqua).
- 9.45: Xylophone—Sam Herman, "Al Fresco" (Herbert) (Zonophone EE53).
- 9.49: Dance music—Bailey-Marston Dance Orchestra, (a) "Collegiate Sam" (Caesar); (b) "Your Mother and Mine" (Edwards).
- 9.57: Bass with chorus—Paul Robeson, Plantation Songs: (1) "So Early in the Morning," (2) "Carry Me Back," (3) "Old Folks at Home," (4) "Goodnight Ladies" (Traditional) (H.M.V. C1585).
Dance music until 11 p.m.
- 4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, MAY 16.**
- 3.0: Chimes. Selected gramophone items.
- 4.25: Sporting results.
- 4.30: Close down.
- 5.0: Children's hour, conducted by Aunt Sheila.
- 6.0: Dinner music—"Columbia" Hour.
Selection—Court Symphony Orchestra, "The Windmill Man" (02909).
J. H. Squire Celeste Octet, "Scene de Ballet" (de Beriot—arrgd. Sear).
Halle Orchestra, "Hungarian Dance, No. 5, in G Minor" (Brahms).
- 6.13: Tacet.
- 6.15: Plaza Theatre Orchestra, "The Three Bears" Fantasy (Coates).
J. H. Squire Celeste Octet, "A Vision of Christmastide" (Harrison).
- 6.27: Tacet.
- 6.30: Regimental Band of H.M. Grenadier Guards, "La Benediction des Poignards" (Meyerbeer) (02931).
Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
J. H. Squire Celeste Octet, "Second Movement from 'Symphonie Pathétique'" (Tchaikovsky—arrgd. Robertson) (02937).
Halle Orchestra, "Hungarian Dance, No. 6, in D" (Brahms) (01677).
- 6.43: Tacet.
- 6.45: Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
Regimental Band of H.M. Grenadier Guards, "Lo Here the Gentle Lark"
Herman Finck's Orchestra, "Christmas Memories" (arrgd. Finck).
- 6.58: Tacet.
- 7.0: News session.
- 8.0: Chimes.
- 8.9: Overture—Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna" (Suppe) (H.M.V. C1667).
- 8.9: Soprano—Miss Dorothy M. Sligo, "Angel's Serenade" (Braga).
- 8.14: Trio—4YA Studio Trio, "First Movement from Trio in D Minor."
- 8.24: Recital—Mr. Angus Gorrie, "Ten Minutes with Byron" (Byron).
- 8.34: Violin—Jascha Heifetz, (a) "Jota" (de Falla); (b) "Puck" (Grieg).
- 8.38: Tenor—Mr. Alfred Walmesley, (a) "A Wind Song" (Graham); (b) "The Silver Ring" (Chaminade).
- 8.43: Balalaika—Kirilloff's Balalaika Orchestra, "Shining Moon."
- 8.45: Contralto—Miss Mary Teviotdale, "A Soldier's Song" (Rachmaninoff).
- 8.48: Trio—4YA Studio Trio, (a) "Serenade" (Arensky); (b) "Waltz."
- 8.56: Baritone—Mr. William Ruffell, "The Garden of Allah" (Marshall).
- 9.0: Weather report.
- 9.2: Orchestral—Berlin State Orchestra, "Polonaise No. 2" (Liszt).
- 9.10: Soprano—Miss Dorothy M. Sligo, (a) "The Second Minuet" (Bessey); (b) "Thoughts" (Fisher).
- 9.16: Trio—4YA Studio Trio, "Theme and Variations" (Tchaikovsky).
- 9.27: Recital—Mr. Angus Gorrie, "Byron" (Byron).
- 9.32: Tenor—Mr. Alfred Walmesley, (a) "Since First I Saw Your Face" (arrgd. Fox); (b) "Awake" (Pether).
- 9.37: Violin—Jascha Heifetz, "On Wings of Song" (Mendelssohn) (H.M.V.).
- 9.41: Contralto—Miss Mary Teviotdale, (a) "Brownie" (Frazer-Simpson); (b) "Half-Way" (Frazer-Simpson).
- 9.47: Trio—4YA Studio Trio, "Serenata" (Barmotina).
- 9.54: Baritone—Mr. William Ruffell, (a) "Cloud Shadows" (Rogers); (b) "Who is Silvia?" (Quilter).
- 9.59: Orchestral—Philadelphia Symphony Orchestra, "Danse Orientale."
- 10.3: God Save the King.
- Saturday, May 17**
- 1YA, AUCKLAND, (900 KILOCYCLES)—SATURDAY, MAY 17.**
- 2.45: Relay of Rugby football match from Eden Park. Announcer: Mr. Gordon Hutter.
- 4.30: (approx.) Close down.

- 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner session, "H.M.V." hour.
 Overture—National Symphony Orchestra, "Light Cavalry" (Suppe).
 Waltz—Chicago Symphony Orchestra, "Roses of the South" (Strauss).
 'Cello—Pablo Casals, "Moment Musical" (Schubert) (DA776).
 6.13 : Tacet.
 6.15 : Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihan Waltz" (Kela-kai); (b) "My Hula Love" (H.M.V. B2799).
 Medley waltz—The Troubadours, "Popular Songs of Yesterday."
 'Cello—Pablo Casals, "Le Cygne" (Saint-Saens) (DA776).
 6.27 : Tacet.
 6.30 : Waltzes—International Concert Orchestra, (a) "The Merry Widow" (Lehar); (b) "Luxembourg Waltz" (Lehar) (Zono. EF9).
 Violin and guitar—Giulietta Morino, (a) "Harlequin's Serenade" (Drigo); (b) "Could I?" (Poggis) (Zono. EE134).
 6.44 : Tacet.
 6.45 : Instrumental—New Light Symphony Orchestra, (a) "The Dancing Doll" (Poldini); (b) "At Dawning" (Cadman) (B2629).
 Wurlitzer organ—Jesse Crawford, "Carolina Moon" (Davis).
 Instrumental—Royal Opera Orchestra, "The Sleeping Beauty."
 6.58 : Tacet.
 7.0 : News and market reports.
 8.0 : Chimes.
 Relay of Municipal Band concert from the Town Hall. Auckland Municipal Band, under the conductorship of Mr. Christopher Smith.
 10.0 : Programme of Dance Music, "H.M.V." Hour.
 Foxtrot—Nat Shilkret and his Orchestra, "Nobody But You."
 Foxtrot—Jack Hylton and his Orchestra, "Orange Blossom Time."
 Foxtrot—Nat Shilkret and his Orchestra, "Your Mother and Mine."
 Foxtrot—The Rounders, "Jack Hylton and his Orchestra, "Singin' in the Rain" (Freed-Brown) (B5700).
 Foxtrot—The High Hatters, "Low Down Rhythm" (Klages-Green).
 10.15 : Waltz—Leo Reisman and his Orchestra, "Dance Away the Night."
 Humour—Norman Long, "Is it British?" (K. and G. Weston) (B2580).
 10.21 : Foxtrot—Henry Busse and his Orchestra, "Since I Found You."
 Foxtrot—Waring's Pennsylvanians, "Button up Your Overcoat."
 Foxtrot—Charles Dornberger and Orchestra, "May be Who Knows."
 Foxtrot—Waring's Pennsylvanians, "My Lucky Star."
 Foxtrot—Leo Reisman and his Orchestra, "Doing the Boom Boom."
 10.30 : Waltz—Henry Busse and his Orchestra, "Like a Breath of Spring Time" (Dubin-Burke) (EA648).
 Vocal—Norman Long, "I Think of You" (K. and G. Weston).
 10.42 : Foxtrot—Victor Arden, Phil Ohman and their Orchestra, "Love Your Spell is Everywhere" (Janis-Goulding) (EA642).
 Foxtrot—Nat Shilkret and his Orchestra, "You Made Me Love You, Why Did You?" (Lombardo Kippel) (EA647).
 Foxtrot—Leo Reisman and his Orchestra, "Look What You've Done to Me" (Conrad Mitchell) (EA652).
 10.51 : Waltz—Ben Pollack and his Park Central Orchestra, "You're Always in My Arms" (McCarthy Tierney) (EA646).
 Foxtrot—Ben Pollack and his Park Central Orchestra, "Sweetheart, We Need Each Other" (McCarthy Tierney) (EA646).
 Foxtrot—Charles Dornberger and Orchestra, "I Want to Meander in the Meadow" (Wood and Tobias) (EA651).
 11.0 : God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, MAY 17.

- 3.0 : Chimes. Selected studio items.
 3.30 and 4.30 : Sports results.
 4.55 : Close down.
 5.0 : Children's session, conducted by Uncle Toby.
 6.0 : Dinner music session—"Columbia" Hour.
 Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder Medley."
 Waltz—Symphony Orchestra, "Doctrinen" (Strauss) (02529).
 6.12 : Tacet.
 6.15 : Piano solo—Gil Dech, "Wedding of the Painted Doll" (Freed).
 Piano solo—Constance Mering, "So Dear" (Caesar) (01224).
 Waltz medley—Eddie Thomas Collegians, "Waltz Medley" (02904).
 Saxophone—Rudy Wiedoeft, "Minuet" (Beethoven) (01176).
 6.28 : Tacet.
 6.30 : Mandoline band—Circolo Mandolinistico, "La Traviata, Prelude Acts 1 and 4" (Verdi) (02566).
 Waltz—Symphony Orchestra, "When the Lemons Bloom" (Strauss).
 6.42 : Tacet.
 6.45 : Musical Art Quartet, "Mighty Lak' a Rose" (Nevin) (01506).
 Saxophone—Rudy Wiedoeft, "Valse Mazanetta" (Wiedoeft) (01176).
 Piano—Gil Dech, "I Kiss Your Hand, Madame" (Erwin) (01549).
 Eddie Thomas Collegians, "Beautiful Ohio" (Earl) (02904).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecture—Mr. H. G. Miller, M.A., Victoria College, a W.E.A. Lecture, "A Forgotten Humorist."
 8.0 : Chimes.
 Overture—2YA Salon Orchestra, "The Blue Danube Waltz" (Strauss).
 8.9 : Quartet—Melodie Four, "Stars of the Summer Night" (Anon.).
 8.13 : Novelty piano—Mr. Claude Bennett, (a) "Bride d'Ete" (Sanderson); (b) "Deep Henderson" (Rose).
 8.18 : Bass—Mr. W. W. Marshall, "The Floral Dance" (Moss).
 8.22 : Novelty Instrumental—Waltz—Salon Orchestra, (a) "Siamese Patrol" (Lincke); (b) "Wood Nymphs" (Coates).
 9.30 : Humour—Mr. Will Bishop will entertain at the piano.

- 8.40 : Soprano—Miss Anne Davies, (a) "June's First Rose" (Coates); (b) "If No One Ever Marries Me" (Lehman).
 8.46 : Novelty duo—Ville and Yeo in some of the latest popular hits.
 8.51 : Tenor—Mr. Sam Duncan, "Serenata" (Toselli).
 8.55 : Salon Orchestra, "Request Item."
 9.1 : Weather report and announcements.
 9.3 : Quartet—Melodie Four, "Request Item."
 9.7 : Novelty piano—Mr. Claude Bennett, "Loose Elbows" (Mayell).
 9.12 : Baritone—Mr. R. S. Allwright, "The Star" (Schmidt).
 9.16 : Musical comedy selection—Salon Orchestra, "The Blue Kitten" (Friml).
 9.24 : Tenor—Mr. F. Bryant, "Here's to Love" (Rubens).
 9.28 : Humour—Mr. Will Bishop will again entertain at the piano.
 9.38 : Novelty duo—Ville and Yeo, in further popular numbers.
 9.43 : Soprano—Miss Anne Davies, "A Little Tear and a Little Smile."
 9.47 : Record, organ with xylophone—Lew White, "Singin' in the Rain."
 9.50 : Quartet—Melodie Four, "Alabama Coon" (Starr).
 9.54 : Salon Orchestra, "Dance Novelities."
 10.4 : Dance programme—"Brunswick" Hour.
 Foxtrot—Red Nicholls and His Five Pennies, "I May Be Wrong."
 Foxtrot—Bob Haring and His Orchestra, "How Am I to Know?"
 Foxtrot—Irving Mills and His Hotzy Totsy Gang, "Can't We Get Together?" (Razaf) (4482).
 Foxtrot—Ben Bernie and His Hotel Roosevelt Orchestra, "Bottoms Up."
 10.12 : Vocal—Chester Gaylord, "Sing a Little Love Song" (Conrad-Gottler).
 Foxtrot—Colonial Club Orchestra, "When You're Counting the Stars Alone" (Russell-Rose) (4517).
 Foxtrot—Ray Miller and his Orchestra, "Moonlight and Roses."
 Foxtrot—Irving Mills and his Hotzy Totsy Gang, "Sweet Savannah Sue" (Razaf) (4482).
 Waltz—Carter's Orchestra, "On Miami Shore" (Le Baron) (4471).
 10.27 : Male duet—Billy Murray and Walter Scanlan, "The Whoopie Hat Brigade" (Siegel-Jaffe) (4513).
 Foxtrot—Earl Burnett and his Los Angeles Biltmore Hotel Orchestra, "If I Had a Talking Picture of You" (de Sylva) (4501).
 Foxtrot—Earl Burnett and his Los Angeles Biltmore Hotel Orchestra, "Doin' the Boom Boom" (Gottler) (4502).
 Foxtrot—Earl Burnett and his Los Angeles Biltmore Hotel Orchestra, "Sunnyside Up" (de Sylva) (4501).
 Foxtrot—Dan Russo and his Oriole Orchestra, "Because You Said 'I Love You'" (Sanders) (4502).
 Waltz—Carter's Orchestra, "A Little Love, a Little Kiss" (Ross).
 10.45 : Male duet—Billy Murray and Walter Scanlan, "Last Night Honey."
 Foxtrot—Red Nicholls and his Five Pennies, "The New Yorkers."
 Foxtrot—Colonial Club Orchestra, "The Boomerang" (Rose) (4527).
 Foxtrot—Ben Bernie and his Orchestra, "Bigger and Better Than Ever" (Friend) (4516).
 Waltz—Roy Fox and his Montmartre Orchestra, "I've Waited a Lifetime For You" (Goodwin) (4495).
 11.0 : Sporting summary.
 11.10 : God Save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, MAY 17.

- 3.0 : Afternoon session, Football relay.
 4.25 : Sports results.
 4.30 : Close down.
 5.0 : Children's hour—"Aunt Pat and Birdman."
 6.0 : Dinner session—"Parlophone" Hour:
 Selection—Edith Lorand Orchestra, "The Vagabond King" (Friml).
 Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss) (A4010).
 6.12 : Tacet.
 6.15 : Selection—Frank Westfield's Orchestra, "Chu Chin Chow" (Norton).
 Orchestral—Dajos Bela Orchestra, "O Sole Mio" (arr. Lindeman).
 Wurlitzer organ—Leslie Harvey, "Absent" (Metcalfe) (A2728).
 6.29 : Tacet.
 6.30 : Waltzes—Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art" (Lincke), (b) "Songs d'Amour Apres le Bal" (Czibulka).
 Instrumental—Dajos Bela Orchestra, "Humoresque" (Dvorak).
 6.42 : Tacet.
 6.45 : Dance orchestra—Dorsey Bros.' Orchestra, "Was it a Dream."
 Wurlitzer organ—Leslie Harvey, "Until" (Sanderson) (A2728).
 Waltz—Dajos Bela Orchestra, "Faust" (Gounod) (A4010).
 6.55 : Tacet.
 7.0 : News session.
 7.30 : Sports results.
 8.0 : Chimes. Vaudeville and dance programme:
 Orchestral—Herman Finck and his Orchestra, "Waldtenfel Memories."
 8.9 : Scottish song and patter—Mr. Jock Lockhart, (a) "The Waggle of the Kilt" (Lauder), (b) "Bits and Pieces" (arr. Lockhart).
 8.17 : Tickling the ivories—Miss Helen Macdonald, valse, "D'ye Love Me?" (Kern); foxtrot, "Wedding Bells" (own arrangement).
 8.22 : Soprano in popular song—Mrs. Ralph Sierokowski, "One Alone."
 8.26 : Novelty—Len Fillis Novelty Trio, "Heart of the Sunset" (Nicholls).
 8.29 : Vaudeville turn—Ron Shand and Lettie Craydon, "Song, Dance, and Patter" (MS.).
 8.44 : English concertina and ocarina—Mr. John Campbell, "Popular Melodies" (own arrangement).
 8.51 : Baritone—Mr. Leslie Stewart, "That's How the World Was Made."
 8.55 : Waltz—Ferera's Golden Hawaiians, "My Song of the Nile" (Bryan).
 Male quartet—Goodrich Silvertown Quartet, "Old Pals are the Best Pals" (Bates) (Columbia 01296).

- 9.3: Humour at the piano with patter—Mr. Jock Lockhart, "In the Land of Yamo Yamo" (Weston Lee).
- 9.8: Orchestral—Eddie Thomas's Collegians, "Waltz Medley" (Herbert).
- 9.12: Improvisations on the piano—Miss Helen Macdonald, waltz, "Let the Rest of the World Go By" (Ball); "High Up on the Hilltop."
- 9.18: Soprano in popular songs—Mrs. Ralph Sierokowski, "Some Day" (Friml), (b) "Smiling Irish Eyes" (Perkins).
- 9.25: Organ—Stanley MacDonald, "Was it a Dream?" (Coslow), "Nicolette."
- 9.31: Vaudeville turn—Ron Shand and Lettie Craydon, "Song, Dance, and Patter" (MS.).
- 9.46: English concertina and ocarino—Mr. John Campbell, "Potpourri of Well-known Airs" (MS.).
- 9.54: Baritone—Mr. Leslie Stewart, (a) "Lassie o' Mine" (Wall) (b) "Rose Time" (O'Hagan).
- Dance music until 11 p.m.—"Brunswick" Hour:
- 10.0: Foxtrot with vocal chorus—Bob Haring's Orchestra, "Louise" (Robin). Foxtrot—Colonial Club Orchestra, "Peace of Mind" (Dyrenforth). Foxtrot—Bob Haring's Orchestra, "Huggable, Kissable You" (Bibo). Foxtrot—Al Goodman's Orchestra, "Yours Sincerely" (Rodgers). Foxtrot—Colonial Club Orchestra, "The One in the World" (Little). Waltz with vocal chorus—Colonial Club Orchestra, "My Heart is Bluer than Your Eyes" (Bryan) (4364).
- 10.18: Male trio—Earl Burnett's Biltmore Trio, "Love Me or Leave Me." Foxtrot—Bob Haring's Orchestra, "Floretta" (Romilli) (4288). Foxtrot—Ray Miller's Orchestra, "In My Garden of Memory" (Buckley). Novelty Foxtrot—Anglo-Persians, "Dance of the Paper Dolls" (Tucker).
- 10.30: Foxtrot with vocal chorus—Ray Miller's Orchestra, "Moonlight and Roses" (Lemare) (4352). Waltz—Bob Haring's Orchestra, "Dream Boat" (Henry) (4288). Violin solo—Fredric Fradkin, "Nola" (Arndt) (4318). Foxtrot with vocal chorus—The Pleasure-Bound Orchestra, "Just Suppose" (Silvers) (4357). Waltz—Regent Club Orchestra, "Just Another Kiss" (Davis) (4357).
- 10.45: Tenor—Freddie Rose, "You Left Me Out in the Rain" (Rose) (4415). Foxtrot—Carl Fenton's Orchestra, "What a Day" (Woods) (4421). Foxtrot—Colonial Club Orchestra, "Leave Me a Beautiful Melody." Foxtrot—Carl Fenton's Orchestra, "Maybe, Who Knows?" (4421). Foxtrot—Colonial Club Orchestra, "Naughty Eyes" (Ford-Locke).
- 11.0: God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, MAY 17.

- 3.0: Chimes. Selected gramophone items.
- 4.25: Sporting results.
- 4.30: Close down.
- 5.0: Children's hour, conducted by Aunt Anita.
- 6.0: Dinner music—"H.M.V." Hour.
- Waltz—International Concert Orchestra, "Over the Waves" (Rosas). Orchestral—Paul Whiteman and his Orchestra, "High Water." Hawaiian—Hilo Hawaiian Orchestra, "My Hula Love" (Kealakai). Orchestral—Zonophone Salon Orchestra, "Simple Aven" (Thome).
- 6.13: Tacet.
- 6.15: Orchestral—Paul Whiteman and his Orchestra, "Mississippi Suite." Organ—Edward O'Henry, "Chant Sans Paroles" (Tschalkowsky). Orchestral—Zonophone Salon Orchestra, "Narcissus" (Nevin).
- 6.29: Tacet.
- 6.30: Waltz—International Concert Orchestra, "Danube Waves" (Ivanovici). Hawaiian—Hilo Hawaiian Orchestra, "Kawaihau Waltz" (Kealakai). Orchestral—Paul Whiteman and his Concert Orchestra, "Caprice Futuristic" (Malneck) (C1607). Organ—Edward O'Henry, "Ca Oest Madrid" (O'Henry) (B3094).
- 6.44: Tacet.
- 6.45: Orchestral—Hylton's Orchestra, "Good Old Songs" Selection (C1592). Orchestral—International Concert Orchestra, "Barcarolle." Orchestral—New Light Symphony Orchestra, "Cavalleria Rusticana."
- 6.59: Tacet.
- 7.0: News session.
- 8.0: Chimes.
- Relay of vaudeville programme from 3YA, Christchurch.
- 10.0: Dance session—"H.M.V." Hour.
- Foxtrot—Connecticut Yankees, "Where Are You, Dream Girl?" Foxtrot—Ted Weem's Orchestra, "Here We Are" (Warren) (EA602). Foxtrot—Connecticut Yankees, "Pretending" (Porter) (EA605). Foxtrot—Ted Weem's Orchestra, "Piccolo Pete" (Baxter) (EA602).
- 10.12: Vocal duet—Gladys Rice and Franklyn Baur, "You're the Cream in My Coffee" (de Sylva) (EA616). Foxtrot—Gus Arnheim's Orchestra, "Now I'm in Love" (Shapiro). Foxtrot—Jack Hylton's Orchestra, "Ever so Goosey" (Butler). Foxtrot—Ted Weem's Orchestra, "Am I a Passing Fancy?" (Silver). Waltz—Connecticut Yankees, "Underneath the Russian Moon." Waltz—Hilo Hawaiian Orchestra, "Sparkling Waters of Waikiki." 10.30: Tenor—Morton Downey, "The World is Yours and Mine" (Green). Foxtrot—Ted Weem's Orchestra, "What a Day!" (Woods) (EA606). Foxtrot—Connecticut Yankees, "The One That I Love Loves Me." Foxtrot—Jack Hylton's Orchestra, "The Toy Maker's Dream" (Golden).
- 10.43: Vocal duet—Billy Murray and Walter Scanlon, "Oh, Baby, What a Night" (Brown) (EA613). Foxtrot—Rudy Vallee and Connecticut Yankees, "I'll Be Reminded of You" (Heyman-Smith) (EA664). Foxtrot—Gus Arnheim's Orchestra, "This is Heaven" (Yellen). Foxtrot—All Star Orchestra, "Waiting at the End of the Road."

- Foxtrot—Gus Arnheim's Orchestra, "One Sweet Kiss" (Jolson). Waltz—Gus Arnheim's Orchestra, "Sleepy Valley" (Sterling) (EA583).
- 11.0: God Save the King.

Sunday, May 18

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, MAY 18.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
- 4.30: Close down.
- 6.0: Children's session conducted by Uncle Leo.
- 6.55: Relay of evening service from Strand Methodist Mission (Preacher, Rev. C. G. Scrimgeour; Song Leader, Mr. T. T. Garland).
- 8.30 (approx.): Overture—National Symphony Orchestra, "Orpheus in Hades" (Offenbach) (Zonophone EV16). Soprano—Miss Dorothy Lovelace Milne, "Three Green Bonnets." Cello—Miss Molly Wright, (a) "Romance Sans Paroles" (Davidoff), (b) "Album Leaf" (Wagner). Tenor—Mr. William Farrow, (a) "Sally in Our Alley" (Carey), (b) "Tom Bowling" (Dibdin). Instrumental—The Studio Trio, "Slavonic Dance No. 7" (Dvorak). Soprano—Miss Dorothy Lovelace Milne, (a) "Passing by" (Purcell), (b) "When Church is Out" (Jacobs-Bond). Chorus—Victor Chorus, "Pilgrims' Chorus" from "Tannhauser". Instrumental—The Studio Trio, "Scenes from an Imaginary Ballet" (Coleridge-Taylor). Tenor—Mr. William Farrow, "How Many Hired Servants" ("Prodigal Son," Sullivan). Instrumental—The Studio Trio, (a) "Dancing Doll" (Foldini), (b) "Barcarolle" from "Tales of Hoffman" (Offenbach). God Save the King.

2YA WELLINGTON (720 KILOCYCLES)—SUNDAY, MAY 16.

- 3.1: Selected studio items.
- 4.30: Close down.
- 6.0: Uncle George, assisted by the children's choir of the Kent Terrace Presbyterian Children's Choir, under M. S. C. Jack.
- 7.0: Relay of evening service of St. John's Presbyterian Church. Preacher: Rev. J. R. Blanchard, B.A. Organist and Choirmaster: Mr. C. W. Kerry.
- 8.15 (approx.): Relay from His Majesty's Theatre of the Band Recital of the Wellington Municipal Tramways Band.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, MAY 18.

- 3.0: Afternoon session—Gramophone recital.
- 4.30: Close down.
- 5.30: Children's Song Service by children of the Church of Christ Sunday Schools, conducted by Rev. A. E. Tebay.
- 6.15: Studio chimes.
- 6.30: Relay from the Church of Christ, Moorhouse Avenue (Preacher, Pastor J. Crawford; Organist, Miss E. Hepburn; Choirmaster, Mr. H. Ames).
- 7.45: Intermission from studio.
- Instrumental—Christchurch Broadcasting Trio, "Allegro con brio" from "Trio No. 3" (Beethoven).
- 7.55: Chorus with orchestra—Chause Souris Company, (a) "Round the Hay Wain." (b) "A Russian Barcarolle" (Varlamoff) (Columbia 02525). (Tschalkowski), (b) "Orientale" (Cui).
- 8.15 (approx.): Relay of programme from 4YA, Dunedin. God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, MAY 18.

- 3.0: Chimes. Selected gramophone items.
- 4.30: Close down.
- 5.30: Children's song service, conducted by Big Brother Bill.
- 6.15: Close down.
- 6.30: Relay of evening service from Hanover Street Baptist Church. Preacher, Rev. Tuckwell. Choirmaster, Mr. Desmoullins.
- 7.45: John Barbirolli's Chamber Orchestra, "Introduction and Allegro for Strings" (Elgar) (H.M.V. C1694/95). Philharmonic Choir, "Kyrie Eleison—Mass in G Major," "Gloria in Excelsis—Mass in G Major" (Schubert) (H.M.V. 1487). Marek Weber and Orchestra, (a) "Coeur Brise"; (b) "Menuett No. 1" (Gillet) H.M.V. B3026).
- 8.15: Programme of music to be rendered by the Kaikorai Band, under the direction of Mr. Thos. J. Kirk-Burnand, assisted by 4YA artists. Overture—The Band, "La Rose de Peronne" (Adams).
- 8.23: Contralto—Miss G. Burt, (a) "Sacrament" (McDermid); (b) "Crossing the Bar" (Willeby).
- 8.29: Violin with organ—de Groot and Terence Casey, "Cavatina" (Raff). Negro Spirituals—Paul Robeson and Lawrence Brown, (a) "Hear de Lam's a'Cryin'"; (b) "Ezekiel Saw de Wheel" (arrgd. Brown).
- 8.38: Processional march—The Band, "Silver Trumpets" (Vivian). Hymns—The Band, "Two Hymn Tunes" (Mendelssohn).
- 8.47: Bass—Mr. F. C. Cooper, "Arm, Arm Ye Brave" (Handel).

- 8.50: Soprano—Miss Gretta Don, (a) "Silent Noon" (Williams); (b) "Cradle Song" (Gretchaninov); (c) "The Maiden" (Parry).
 8.57: Overture—The Band, "The Bagdad" (Boieldieu).
 9.3: Weather report.
 9.5: Contralto—Miss G. Burt, "A Summer Night" (Thomas).
 9.9: Violin and organ—De Groot and Terence Casey, "Parted" (Tosti).
 9.13: Selection—The Band, "Great and Glorious is Thy Name" (Mozart).
 Prelude—The Band, "Prelude" (Chopin).
 9.20: Bass—Mr. F. C. Cooper, (a) "Last Call" (Sanderson); (b) "Mighty Deep" (Judd).
 9.26: Soprano—Miss Gretta Don, (a) "Two Little Dogs" (Ledger); (b) "Rest at Mid-day" (Hamilton); (c) "Si Mea Vers Avaient des Ailes" (Hahn).
 9.32: March—The Band, "Queen of the North" (Lithgow).
 9.35: God Save the King.

Next Week's Features

(Concluded from page 11.)

variety talent will be contributing. The artists will be Ron Shand and Lettie Graydon in song, dance and patter, Mr. Jock Lockhart (mainly Scottish humour). Mrs. Ralph Sierokowski (soprano, in popular songs), Miss Helen Macdonald (improvisations on the piano), Mr. Leslie Stewart (baritone), and Mr. John Campbell (English concertina and ocarina). The concert programme will be relayed to 4YA.

Gramophone and Radio

(Concluded from page 7.)

world-famous. What violinist is there who has not said: "Where is there anything to beat the Mendelssohn Concerto?" This great work was not finally completed until 1844, and played for the first time in public in 1845 by Ferdinand David, for whom it was written. David says in a letter sent to the composer: "May the great success of this work induce you to think of us poor fiddlers sometimes in the future."

At Mendelssohn's funeral, David, together with Hauptmann, Moscheles, and Gade, was pall-bearer.

Mendelssohn's activity was inexhaustible, which probably accounts for his early death at the age of 38. From 1830-1834 he had composed the Hebrides Overture, and "Walpurgis-nacht," together with the G minor concerto for pianoforte and orchestra, the Capriccio in B minor, as well as a good deal of church music and several songs. And he had also begun the great Symphony in A Major, which is always known as the Italian Symphony. This will be the symphony of the evening of the Wellington Symphony Orchestra concert on May 8, together with Fingal's Cave overture, and the Violin Concerto, with Mr. Leon de Manny as soloist.

On the second half of the programme, among other things, the "Rakoczy" march of Berlioz is billed. As these two men were contemporaries, it might be interesting to note what Mendelssohn's father says of his fellow musicians. "The composer of 'Faust' appeared to me agreeable and interesting, and a great deal more sensible than his music." How many of us would agree now with this pronouncement!

Our Mail Bag

"A Theory for Mushiness of 2YA."

UNDER the above heading, "Pioneer" (Waipawa) gives a very poor theory for 2YA's mushiness. If he were correct not only would the make of set be found in Wairarapa, Palmerston North, Waipawa and other places, but the tactics of the operator would need to be identical. "Pioneer" states the symptoms correctly when he says "2YA will be coming in as clear as a bell, then the reception at once becomes mushy." And that is the point, at which, like "Pioneer," I cannot follow the theory of 2YA's engineers re "back lash from the heaviside layer," for if they were correct, why should this mushiness come and go? Some nights it will only come on for a short time, and then clear up; another time it keeps coming on and off. More often 2YA will be "as clear as a bell" throughout, while our distance from 2YA will be the same all the time, and daylight will fade approximately the same each day. Then all agree that this mushiness is much worse of late. I have heard dozens of theories for this distortion, but except for an occasional fault from other stations, 2YA is the only offender.—T.T. (Dalefield).

1YA's Frequency.

STATION 1YA operates for a great part of the evening right on top of some American station, causing an annoying whistle which is far from pleasing to listeners who enjoy the Auckland programmes. As 1YA is our most consistent station, could not the frequency of the station be altered? I am sure others would agree. I am sure if this could be done it would be appreciated by many. I wish to congratulate the station on the excellent sporting service on race days; their racing announcer, I should say, must be a very energetic fellow, for I think 1YA is the only station that relays from the vicinity of a racecourse, giving a running description of each race. The other stations give the results from the studios. I am sure much extra time and expense must be incurred to give the results directly from the vicinity of the course. I say carry on 1YA with the good work: I am satisfied with this station alone.—Static (Nelson).

Band Balance.

RE the broadcast of the Port Nicholson Silver Band's second recital, to my idea it was completely spoiled by the lack of balance. The bass end, and right up to the horns, was hardly heard. The cornet end was all that could be heard well. The solo cornet

played beautifully, but what is the use unless we cannot have the band as well? Cannot something be done with the "mikes" to get better balance. I have noticed this same fault always with this band, but the broadcast in question was much worse. When in Wellington last October I attended a recital by this band and told the conductor of the weakness (over the air). It is not because the band is weak in the bass end; quite the reverse, as I found when listening to them in the Opera House.—E. W. Rose, Bandmaster, 8th Regimental Band, Blenheim.

"Saxophones and Theme Songs."

IN reply to Mr. Swiney, of Northland, I for one am very fond of an occasional relay of a good "talkie," and as regards introducing Americanisms, perhaps it would be a good thing if Mr. Swiney remembered that American is now just as much recognised as a language as ours is, and that most of the great composers whose names he reels off so fluently are, or were, foreigners. Their compositions are generally sung and were certainly written in their own language—he would not ban them, as regards the theme songs and jazz, which he condemns—I consider that 90 per cent. of the listeners will agree with me in wanting more of them, interspersed with the heavier items, which one gets a bit tired of, if always there.

As regards his attack on the saxophone, he does not know much of music or he would know that it is one of the leading instruments in all classes of music at the present day. I consider that the R.B.C. put on very fine programmes, and Mr. Swiney can always leave the offending station at 9.30 or 10, if he wishes to, and get somewhere else. Carry on with a certain amount of the "American abominations," R.B.C. In reply to "Pioneer" (Waipawa), I am approximately 150 miles from 2YA, there is no other set within five miles of mine, I have had experience in tuning sets for over five years, and a certain amount of technical knowledge, yet 2YA distorts badly at times, and fading is common—no doubt due to the "earth and air waves" theory which "Pioneer" apparently does not agree with.—E. W. Anglesey (Nelson).

This Sickly Sentimentalism.

I READ with much amusement Mr. Swiney's caustic comments on the jazz music broadcasts. His attacks on the American "theme songs" brought criticism from all members of the family, who wanted to know if Mr. Swiney could draw a line between good taste and narrow-mindedness. What, Mr. Swiney, do you find repugnant in the lilting strains of "Pagan Love Song," "When you Come to the End of the Day," and "Painting the Clouds with Sunshine"? to quote but a few of the theme songs I enjoy in the afternoon from 4.15 to 4.55 when your switch is in the "off" position. Mr. Swiney no doubt enjoys the dinner music. Does he, then, switch off his set when a saxophone solo, such as Rudy Wiedoeft playing "Melody" by Dawes, or "To a Wild Rose" and "Valse Inspiration" played by Chester Hazlett finds its way into the dinner music programme? No, I'll warrant. No, Mr. Swiney, there is nothing wrong with the sax, or the jazz. Just you turn over the switch to "on" when 2YA is putting on one of their splendid dance programmes, listen to the melody, and you will be-

come modern and like it! If the R.B.C. wants my license money they must let the programmes stay as they are; we are getting just the right proportion of classical and what Mr. Swiney calls "sickly sentimental," but what I think is the best part of the programme, theme songs, and jazz. And I think the above echoes the opinion of the majority of listeners-in. Rally round, "Attaboy!"—"Piccolo Pete" (Wanganui).

Power Interference.

IN the street in which I live there are three receiving sets; the interference at times is simply awful. I personally saw the radio inspector of this town and gave him all particulars, and he politely told me that he didn't have any gear at all to find any interference. He promised to come round to my house to listen for himself, but that is as far as he went. That is over ten weeks ago, so can you tell me what to do? I have interviewed the other two persons with sets and we have agreed that if we cannot get any service we are going to give our sets up. When my earth and aerial are disconnected the noise stops, which is of a crackling sound. Thanking you.—"Fed Up" (Hamilton).

Conversational Broadcasts.

I REALLY think that if the Broadcasting Co. could pick up a relay of the general conversations in buses, trams, trains or even concerts the listeners would be highly entertained. I recently visited Auckland and on my return via a suburban train two ladies registered a fine performance. From behind them and in front of them interested listeners craned and strained while the secondary school boy in the corner listened with mouth agape and fountain-pen poised over his science homework. At first conversation revolved over the little matter of "Charitable Aid." The ladies questioned as to which of them was the most deserving and various little tit-bits came our way. This led up to "Husbands—their earning capacity and other wise." There was a brief pause while a number of cakes were sorted on a seat. They were then put back in the bag with the creamy ones on the top. The conversation now became slightly embarrassing so the gentleman behind me rustled his paper and the schoolboy did a little homework. Then out of the blue I heard, "Bread and dripping and pickled onions." Wickedly I turned to my friend. "What are we having for supper?" I inquired. "Bread and dripping and pickled onions," was the response. Conversation across the aisle came to an abrupt stop and I felt rather than saw accusing glances. Sunday titters and then the boy sighed and continued with the science problem.—"Sue" (Frankton).

2HD, Newcastle

THE wave from 2HD, Newcastle, has a most pronounced hum which completely spoils speech and music. Time was when even some of the "A" class Australian stations would temporarily suffer from the same disability. On one occasion 2FC, Sydney, was so sorely afflicted that the Wellington Radio Society forwarded a report to that station which evoked a courteous reply admitting that trouble was being experienced and assuring the society that the matter would be rectified.



Optimum Use of Reserves

THE Auckland Electric Power Board, in addition to having financed its magnificent new building in Queen Street out of reserve funds, finds itself with a matter of £30,000 in hand, which it proposes to devote to the reduction of rates to consumers. As a contemporary remarks, spread over a large area the sum may not amount to much in the case of each individual consumer, but it is a decided step in the right direction, that is, the popularisation and inexpensive supply of electricity. Both the achievement and the decision to apply the surplus in this manner reflects great credit on the Auckland Power Board and its management.

The Function of Power Boards

AN example of how two "good men and true" can look at the same situation from an entirely different standpoint was evinced at a recent meeting of an up-country Power Board.

A member who was professedly anxious to serve the interests of the community and the ratepayers of the district, expressed the view that the Power Board, unlike local bodies, should aim at being a profit-earning concern. With this view the chairman disagreed, contending that any revenue over and above expenditure should be returned to the consumers by reducing charges for electricity.

We are entirely in agreement with the chairman on this point, since any profits accruing to a power board can be derived from only two sources, viz., from the pockets of the consumers or by undue exploitation of employees. In connection with the latter source, it should be stated once and for all, that power board employees are entitled to exactly the same remuneration for their services, no more and no less, as such services are worth to any private employer or trading company, and since power boards work on capital advanced by the Government (ultimately payable by the public itself) and upon revenue received from consumers, it is obvious that any excess of revenue over expenditure should be devoted to the same purpose, that is, of enabling as many as possible to enjoy the benefits of electricity as cheaply as possible.

The case is not analogous with that of a municipality, providing more than one public service to its ratepayers, when it is sometimes advisable that the profits of one undertaking should wholly, or in part, be devoted to the support or building-up of another, in the interests of the community.

Prize Poem Competition

THE prize of half a guinea this week is awarded to "Betty K." for an appealing "Fragment." This writer has sent further contributions of freshness and high hope, suggesting the quick impulses and wide-open eyes of youth. Selected for commendation are "Sardonyx's" poem of "Yesterday," this being somewhat slight in verbal texture to be a prize-taker; and "Night Magic," joyous lines anent Harlequin and Columbine, by "Oh, Mack," which just fail to reach the winning standard.

J.V.W. makes unsuccessful attempt at poetic phrasing of Maori legend. We like better "The Nest," which tunelessly regrets man's inhumanity to busy birds, toilsomely building, with stick and straw, those poor little homes so quickly demolished by some "muddled oaf" out birdnesting.

M.B. (Gisborne): "Thistledown" is a pretty scrap; but the second poem bewilders by its insistent reiteration of scarlet, while "And your admiration it earns" is a line entirely unflushed by the poetic Muse.

"Hibiscus," we judge, is a tyro in the art of the written word, but rushes in with astounding audacity where literary lions have gone before. Let her read, mark, learn, and digest their work.

A Fragment

*Silently, night that I love, you creep across
the hills,
And westward drive the dying ghosts of
light.*

*Your host of shadows circles you around;
soft spills
The dew of silence through the scented night;
And yet mysterious music fills the air,
Faint whisperings of sound are everywhere.*

*Tenderly, with a low tilt in his quaint quiet
crown,*

*The west wind stoops to kiss the upturned
flowers,*

*Then wanders onward, wistfully, alone. The
moon,*

*A gay gold crescent, dances with the hours,
The happy hours, star-spangled, kissed with dew;
Beloved hours of night, I love you too.*

*Beloved! 'Tis a word made purposely for you
Who wait me in this fair retreat of fowers;
For you, whose face is fashion'd out of dreams!
I knew*

*That I should find you here . . . Like April's
showers*

*Is the faint fragrance of your hair . . . Each tree
And flower leans near to hear . . .
Each star stoops low to see!*

"Betty K."

A Vigorous Personality

THE success of the great forward movement in the cause of electricity that has been so effective throughout Great Britain owes much to the energies and personality of Sir Harry Haward, who retired from actual office as Electricity Commissioner at the end of last March, on completion of his extended term of office.

With the approval of the Minister of Transport, very wisely, arrangements have been made to retain Sir Harry Haward's service in

The Quest

*I wandered east, I wandered west,
In search of one I'd love the best.
I wandered far through field and town,
Through city streets, through country
brown.*

*I wandered south, I wandered north,
Wondering when Love would come forth
To meet me. Then, one morn, I guessed
. . . And ended was my foolish quest.*

*I hastened home, for now I knew
That all the time Love was . . . just You!*

"Betty K."

a consultative capacity. Sir Harry, who is now 67 years of age, was one of the original five electricity commissioners appointed in 1920 under the Electricity (Supply) Act, 1919.

Prior to that appointment he held the office of Comptroller of the London County Council for 26 years, during which time he was actively engaged in the investigation of various aspects of the finances of the public utility undertakings of London, including those relating to electricity supply and financial problems connected with the supply of electricity in the London area. He received the honour of Knighthood in 1917.

A Presentation Lamp-post

WHO knows that Wellington has a presentation lamp-post? Such a thing does exist, and stands at the Union Bank of Australia corner, and bears the following inscription: "Presented by Samuel Brown, Mayor, in commemoration of the lighting of the city by electricity, 1888."

The actual lighting of the city by the new power did not take place until 1889, being carried out by the Gulcher Company, which used water power at first, and afterward steam. It was not until 1907 that the city acquired the electric light and power plant from the Wellington Light and Power Company, since when the plant has been wholly replaced. Now the bulk of Wellington's power is derived from the Government's hydro-electric plant at Mangahao.

Now — What Would YOU Do?



IN the first series of our "Trials in Tact" Competition, "Fiat Pax," Miss N. Johnston, and "Senga" tied for third prize, and were asked to solve the following special problem to decide honours:—

"Mrs. A. is staying on a long visit with Mrs. B. in a country town. At Mrs. B.'s house, Mrs. A. meets Mrs. C., a comparative newcomer to the neighbourhood. After being out one morning Mrs. A. comes in and remarks to Mrs. B.: 'Oh, I met Mrs. C. this morning, and she has asked me to go to tea at her house on Thursday.' When Mrs. A. returns on Thursday afternoon, Mrs. B. enquires: 'How was Mrs. C.?' Mrs. A. replies: 'Oh, quite well, but very disappointed that you did not go. The first thing she said was, 'Where is Mrs. B.?' I forgot to tell you the other morning that she asked you, too, so I said this afternoon that you were too busy to get away.' What should Mrs. B. say or do, or say and do?"

From "Fiat Pax."—"A long stay" presages an intimate acquaintance. Although Mrs. A. has sacrificed all her claims to further courtesies on the part of Mrs. B., it would be a pity to allow an episode of this kind to break an apparently good comradeship. To avoid such a breach, Mrs. B. must continue her good offices. A study of Mrs. B.'s face when she hears the news will probably serve as a sufficient rebuke for Mrs. A., and the former need only reply: 'Well, dear, I would not have been surprised if you had admitted forgetting the invitation to me, but it is difficult to understand your manufacturing an excuse on my behalf. However, I shall confirm what you said when I meet Mrs. C., and it will be all right.'"

From Miss N. Johnston.—"Mrs. A.'s rather inexcusable conduct has placed Mrs. B. in an annoying position. When next Mrs. B. and Mrs. C. meet, the latter is almost certain to express regret that Mrs. B. did not come with Mrs. A., and Mrs. B. might then be tempted to give Mrs. A. away and to tell Mrs. C. the truth. However, the wisest thing for her to do is to let Mrs. A.'s excuse for her absence stand, and to be particularly pleasant to Mrs. C., so that she will see that Mrs. B. wants to be friendly. Mrs. A. is evidently a close friend of Mrs. B., and what is more, she is Mrs. B.'s guest. Mrs. B.'s duty as her friend and hostess is to stand by her, even if she is in the wrong."

From "Senga."—"Mrs. A.'s deceit is very apparent. For some reason or another, best known to herself, it would appear that she did not wish Mrs. B. to accompany her to Mrs. C.'s house, so kept silent about the invitation, and when Mrs. C. expressed disappointment at Mrs. B.'s non-appearance, the only excuse she could make was that she was too busy to get away."

"Mrs. B. should ask Mrs. A. her reason for telling such an untruth, adding Mrs. C. will surely think she has come to reside among very unsociable people. She should continue by saying: 'I will most certainly make it known to Mrs. C. that you did not tell me that I was asked as well as you, and what is more, Mrs. A., if those are your feelings towards me, I would like you to understand that your room will be preferable to your company at my home in future. I feel that I cannot offer you my hospitality any longer.'"

Comments.—Our third prize-winners have not quite lived up to their reputations in dealing with this problem. The important point here, in my opinion, is that, whatever Mrs. A.'s motives may have been, Mrs. B. must not allow herself to be placed in a false position with Mrs. C., especially as they will probably continue to live in the same town. To leave a definite invitation unacknowledged, neither accepted nor declined, is to offer an affront.

As "Fiat Pax" truly says, "A study of Mrs. B.'s face when she hears the news will probably serve as a sufficient rebuke," but I think Mrs. B. can say, and even with a show of annoyance: "Well, it is extraordinary of you to forget that I was asked, but still more extraordinary to undertake to make excuses for me. I am afraid I cannot leave Mrs. C. under the impression that I ignored her invitation."

I think that she will wish to let Mrs. A. down as lightly as possible, and I do not think that she will wish to carry matters to the extent that "Senga" suggests, but when she next meets Mrs. C. (who, quite well, may feel too offended to mention the incident to Mrs. B., as Miss N. Johnston supposes), she should say: "I am sorry I was not able to go to tea with you the other day, but as a matter of fact, Mrs. A. forgot to pass on your invitation to me." If before Mrs. A., so much the better, as it will give her the opportunity of explaining her forgetfulness, and making the "amende honorable" to both ladies.

Since "Senga" is the only one who mentions the necessity of putting herself right with Mrs. C., she is awarded the third prize of 10/6.

"Fiat Pax" and Miss N. Johnston are thanked for their kind notes.

—Savoir-Faire.

WITH this issue begins the second series of this competition. It has aroused so much interest that we look forward this term to welcoming an increased number of competitors; many new ones, and, of course, all the old ones. Competitors are reminded of the importance of beginning with Problem No. 1 in order to attain a good score.

An every-day problem is set week-by-week, and readers are invited to send in their solutions, for which marks are awarded. Prizes are offered to those obtaining the most marks over a series of ten. First prize, £2/2/0; second prize, £1/1/0; third, 10/6, for each series.

In the event of any competitor, who has already taken a prize, winning another of the same value during the same year, such competitor will be expected to give way to the next highest score. For example, a second or third prize winner may take a first prize, a first prize may take a second or third, or a second prize winner may take a first or third, but not one of the same value during the same year.

Competitors may send in their own problems for publication and solution and a prize of 7/6 will be given for the best one sent in during each series, and 2/6 for each contributed problem used. Those sending in problems are, of course, entitled, with other competitors, to send in a solution of same. The right is reserved to publish part or the whole of any solution sent in.

A nom-de-plume may be used, but names and addresses must be sent. The same nom-de-plume must be retained throughout the series. All replies must bear a post-mark not later than the Thursday after the date of the journal in which the problem appears, and should be addressed to "Savoir-Faire," Radio Record and Electric Home Journal, P.O. Box 1082, Wellington.

Savoir-Faire's decision must, in every case, be accepted as final.

PROBLEM No. 1.

2nd SERIES.

Miss A. and Miss B. are friends. Miss B. is away from her home town for two years, then returns and some months later marries Mr. C.

He has previously offered marriage to Miss A. who refused him, but Miss B. (now Mrs. C.) knows nothing of this, and is continually inviting Miss A. to join parties and to visit her home. This embarrasses Miss A. because people who know of her former friendship with Mr. C. talk of her frequent appearances in his company. She has no reason to refuse her friend's invitation otherwise. Should she tell Mrs. C.?

—Suggested by "Natural."

Answers must be post-marked not later than May 5, 1930.

AUTUMN VACATION EXCURSIONS !

During School Holidays Cheap Rail Fares are

—available for ALL, from and to any station, from 8th to 17th May—return up to 14th June.

—6/- in the £ cheaper than ordinary fares.

—cheaper still for large families—only three whole tickets needed for father and mother and all their children under 16 years of age.

Full Particulars from any Stationmaster or City Booking Office.

Pulmonas
for PASTILLES
COUGHS and COLDS



Magic

THE other day we took little David, aged four years, to see his Grandma. Grandma used to live in the backblocks, like us, and had wood fires and kerosene lamps and candles. Now she has a small house in town, with electricity and all conveniences. We showed David the electric iron, the stove that cooked the dinner without a fire, and turned the electric lights on and off for his benefit. He looked at everything with serious attention, said little, and seemed rather dazed. But when we got home he said, "Oh, Dad, Grandma has a lovely house—it's all full of Magic!"—"Becky."

He Acted Literally

MY neighbour's boy—a lad of the "Sissy" type—is most certainly not a budding "All Black." He came home the other day and complained that "the boys kicked me, an' it was teacher's fault." Pressed for an explanation, he said: "Well, we were practising football and teacher ordered me to 'get into the scrum,' an' when I tried to crawl in the boys all laughed and started to boot me out."—"O. W. Waireki."

Proposals—To-day and Yesterday.

A CORRESPONDENT to a London paper laments the fact that we are witnessing the rapid decay of the solemn forms in which the last generation made their proposals of marriage.

Certainly the elaborate gestures, the poetic and stately phrases with which the great novelists of the past set the standard of courtship are remote enough from present practice, if we may believe all we see and some of that we hear.

But some unbelievers will doubt whether the change is as great as it seems. Not all the characters of eighteenth and nineteenth century real life commanded the magnificence of phrase wherewith they are endowed; not all knelt before their ladies, whereas there are, maybe, romantics even to-day. If we would make a fair comparison, we would set beside to-day's confessions the recorded proposals of some actual suitors of, say, 1880. Will some of the ladies now celebrating their golden weddings and some of the recent brides of the present age take us into their confidence?—"Romantic."

Worth Reading.

"OLIVER UNTWISTED," by M. A. Payne, is a book not only for teachers and social workers, but even more for the parents of ordinary children. An extraordinary account of idealism in action, with its successes and failures convincingly set forth, it makes the heart ache, but also nerves one to fight to the bitter end for a fair deal for children. This book should be read and passed on to others to read.—"Bookworm."

CONTRIBUTIONS or original matter of general interest to women and the home, if possible, but not essentially, associated with radio, electrical equipment or home-craft in the widest field, are invited for this page. Space rates. All matter must be brief and in ink, on one side only. Name or nom de plume. Contributors must claim payment for matter published by forwarding at the end of each month clipping, together with date of publication, to our Accountant. Address contributions, "The Editor," Box 1032, Wellington.

Who Wants Accountants?

HERE is an interesting item of the way in which bakers in some districts of rural France keeps accounts with their peasant clients. Many cannot read, and hence a system of tokens is employed. To check the bread account, the baker on his rounds carries a small stick for each customer. The customer has a mate for the stick. When a loaf is delivered, the two pieces of stick are put together, and a notch cut across the joint. At the end of the month settlement is made on the basis of the joint tally. The system avoids any room for argument, because one stick cannot be notched without its mate, or else there are explanations to seek.

This habit, a friend with a historical bent tells me, is a perpetuation of the old English tally employed for accounting between the King and his county sheriffs. The two-stick system was in vogue, and they were notched in accordance with the following definite plan.

Thousands were indicated by a notch the width of a palm, hundreds by a notch the width of a thumb, scores by a notch the width of a little finger, and pounds by the breadth of a barley-corn. That was the way accounts were kept before everyone could write and book-keeping came in.—Olive.

Who Will Try It?

I NOTICE a suggestion in an Australian paper that unsalted butter is a good hair tonic, particularly as a corrective for greying locks. It is claimed that in one district in Victoria all the matrons for miles around use this recipe, with a notable absence of grey hairs and the presence of shining, attractive tresses. With the slump in butter, will this offer an alternative consuming point for our surplus tons? Can any dairy farmer's wife give practical testimony? I know that milk is good for the complexion, but it is the first time I have heard that butter-fat is good for the hair.—Mary E.

Wheels Within Wheels.

LOVERS of Dickens will remember how, in "Bleak House," Messrs. Sheen and Gloss, the London silk mercers, were in the habit of whispering to wholesale firms that they knew the ways of women and could put over anything that was desired as the coming fashion.

If that were true of the Victorian age, it seems less true of 1930, for the Messrs. Sheen and Gloss of to-day are trying desperately to put over the new long trailing skirts for day as well as evening wear, but they are meeting with a resistance from the modern woman that threatens to paralyse their efforts, as far as day-time wear is concerned.

Mr. Sheen and Mr. Gloss are both scratching their heads and upbraiding the freedom of to-day, which finds expression in opposition to the fashions laid down by the world's famous couturiers as essential. It is in vain that fashion experts, in the newspapers and elsewhere, bully and scold the women of to-day for their persistence in adhering to sensibly short skirts for day-time wear.

The effect of the new styles on the "female form divine" adds to their unpopularity, especially among the middle-aged, who, until now, could choose their own waist-line, and with a loose belt deftly conceal deficiencies, or perhaps abundances, now only too apparent on the natural waistline.—"Mannequin."

Leaving Well Alone

AT an election for the Auckland Electric Power Board, all members of the old board were returned, which surely speaks volumes for the way in which consumers in the Queen City have been served.

Record Cooking Classes

WE are accustomed to hearing of things being done in America on the grand scale, whether it be a railway accident, or a religious revival, but surely a record was created recently when 20,500 women attended cooking class held for three days only in Birmingham, U.S.A.

Five thousand women stormed the doors of the Municipal Auditorium (one of the largest in the States) the first day of the school, 5500 the second and the third day 3500 women braved a tropical deluge that lasted throughout the day, flooding the lower sections of the city. The fourth and last session, held at night, was attended by 6500 women and men, and the auditorium was filled to overflowing.

A great tribute to the home-making qualities of the women of that city, who evidently appreciate the importance of ministering to the "inner man."

Radio Listeners' Guide, 1930 Edition.

Dealers and Booksellers 2/6, posted 2/8.
P.O. Box 1032, Wellington.
Available within a fortnight.



—she thinks he's wonderful during the evening programme—but when it comes to baking she'd sooner have a tin of ANCHOR SKIM MILK POWDER on the shelf than the finest radio going. A few spoonfuls added to every mixing means more delicious scones and cakes—higher food value—and a freshness that lasts for DAYS.

Just try it yourself. Ask your grocer for ANCHOR SKIM MILK POWDER. Price 1/2 tin.

For Free Folder of Tested Recipes, write NOW to "Anchor," Box 844, Auckland.

"Don't Lose Your Head"

Buying at Sale Time

SINCE sales of some kind seem to be continually in progress it may not come amiss to quote some advice that was recently given "over the air" in Great Britain, where women take their sale shopping very seriously.

It is a good plan to make a list before you start. Look through your clothes, through the household linen, the kitchen cupboards and the china closet and note down anything you need, or are likely to need, before you get another opportunity of buying cheaply, but by way of an object lesson first go through your piece bag and have a good look at the useless odds and ends you bought last time, in the hope that they would "come in" one day. It will have a most restraining effect if you are tempted at a foolish moment.

A plain tailored coat is always safe to buy, provided it is plain, and a beaded evening frock is always a good investment, for beads, in spite of having been popular for several seasons, continue to be so. A printed chiffon evening frock can be made doubly useful by the addition of a little coat, for which you may be able to pick up a remnant.

Stockings can be bought very economically at sales, if you do not lose your head, but it is necessary to look out for flaws. Flaws in silk stockings usually take the form of thick threads on the leg, not very conspicuous in themselves, but often meaning an extra thin thread next to them, where the silk has split, and a consequent ladder in a very short time. This is a matter for personal judgment, but it always makes for economy to buy two or more pairs of exactly the same colour and kind.

The remnant counter is where you really do get bargains, for there are always a large number of odd lengths left over in the materials department, and these are generally sold at half-price. The remnant with most possibilities attached is that which measures from a yard to two yards. A sleeveless jumper can be made from just over a yard. A remnant of silk will often make a half-lining for a coat or wrap, or a short length, slit in half widthwise, and the ends faggot-stitched together, will make an attractive scarf; a yard of crepe and a remnant of lace is enough for a dainty undergarment; a length of cretonne can often be picked up up cheaply to make a curtain for a corner cupboard. Small pieces of cretonne, if sufficiently handsome, are often useful, just to cut out the flowers or birds to apply to cushions and runners. A short length of net will make a curtain for the kitchen or bathroom, a thick piece of Turkish towelling, like that sold for bathrobes, bound with coloured tape, makes a bath-mat. A short length of tweed or woollen material, if not enough for a skirt nowadays, will make a beret, scarf and bag to match.

Shoe bargains are to be found among the samples if you are sure that they fit you. House linen and blankets show some very good bar-

A "Cotton Week"

TO give a much-needed impetus to the cotton trade, London is shortly to have a "cotton week," when only cotton materials will be displayed in the shops. The sympathies of prominent London actresses have been enlisted, who declare themselves so delighted with the sheen, texture and designs of the cotton materials they have been shown that they have promised to wear cotton dresses only throughout "Ascot Week."

Hope for the woollen trade is indicated too, as both London and Parisian dressmaking houses of note are making special features of light woollen dresses and costumes.

gains. Slightly damaged blankets are cheap and, darned with Angora wool, no one is the wiser.

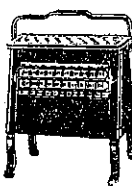
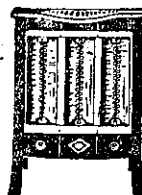
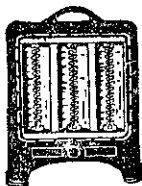
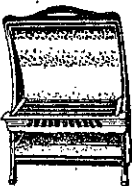
Standard and proprietary articles often go very cheaply, and stocks should be laid in of soap and soap powders—soap especially, as it improves by keeping. The most important thing to keep, however, is one's head, or the bargain may turn out to be "dear at any price."

A Sentimental Cynic

A LEADING woman journalist in America, Miss Helen Rowland, who specialises in writing cynically and devastatingly on love and marriage, discloses the fact, in a recent interview, that as with most cynics, a strong strain of sentiment and idealism underlies the crust of cynicism.

She deplores the fact that girls of to-day are cheating themselves of the old-fashioned love-match by feigning indifference, and adopting an attitude of equality to the opposite sex. She complains that they show themselves ready to dispense with love-making before marriage, in the beautiful old-fashioned sense that has inspired the masterpieces of the literature and drama of bygone days.

Much of what Miss Rowland says is unfortunately true, but happily she looks upon such conditions as a passing phase, and sees a new relation between the sexes arising, when women will, without the prudery of the Victorian era, yet wait to be wooed before being won. That, in these circumstances, men will again be found ready to do the wooing, she has no doubt, since the "just out of reach" will always seem the most desirable of attainments.—Isobel W.



Orders are Pouring in!

Electrical Stores all over the Dominion report a big demand for—

"CREDA"

Britain's Best

ELECTRIC FIRES

That's because the public quickly recognise that "CREDA" offers the smartest designs and finishes, ample heat on a low current consumption, and all this at a remarkably low first cost. Don't buy an electric fire until you've seen the new 1930 British "CREDA." If your electrical dealer cannot supply, write direct to—

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Branches:

AUCKLAND, DUNEDIN, CHRISTCHURCH.

Delicious Mock Cream Pudding

HEA**T** 1 quart of milk. Mix 3 table-spoons of cornflour with three-quarters of a cup of sugar and wet with a little cold milk. Stir into the boiling milk and let it cook slowly for 5 minutes. Flavour with vanilla. Beat the whites of 4 eggs until stiff and dry and stir them lightly into the hot mixture. Remove at once from burner and turn into a buttered mould and set away to cool and harden.

Make a soft custard with the yolks, 3 large tablespoons of sugar, pinch of salt, and 3 cups of milk. Cook on low heat until mixture thickens (do not boil); add $\frac{1}{2}$ teaspoon lemon essence and let cool. Turn the first mixture into shallow dish and pour custard around it.—O.

Friday Soup.

AN original recipe. Put 2 table-spoons butter into a pot and fry till brown (this is necessary for the proper nutty flavour which depends on the cooking of the butter); add two tablespoons of flour gradually and mix free from lumps; then pour very gradually enough boiling water to make a paste, stirring all the time; when this is quite free from lumps add 1 quart boiling water or milk—the writer prefers water. This makes the stock and any vegetables may be used—grated carrots, parsnips, turnips, artichokes and onions. I have used small quantities of fresh green peas, runner beans, silver beet, or cauliflower, also seasonings, including thyme, mint, or parsley, according to the vegetables.

New Ideas for the Cook

Can you cook? Yes, of course, every woman can cook. Then why not send in your favourite recipes for soups, pies, meat dishes, savouries, etc., as well as for sweets, preserves, and biscuits, now that the winter is coming on? Let us all share your good things. For the best and most useful recipe (preferably, but not essentially, adapt-

The quantity of vegetables vary, as some folk like plenty and others less; the same with the flour, more or less as each fancies. Usually 2 cups vegetables and 2 tablespoons flour suit most folk; for children add some pearl barley.—Farmer's Wife.

Simon Honey.

BOIL in slightly salted water four pounds of marrow, then drain and mash well. Add four pounds sugar, grated rind and juice of six lemons and half-pound of butter. Boil

ed for electric cooking) there is a prize of 5/- every week, and for all others published we will pay space rates, if the clipping, together with date of publication, is sent to the accountant (Box 1032) at the end of the month. Address recipes to "Electra, P.O. Box 1032, Wellington, and write on one side of the paper only.

20 minutes, stirring all the time. Bottle and cover just the same as jam.—Miss S. McIntosh (Otago).

Marmalade.

THIS is never a failure. Four pounds Seville or Poorman oranges, 2 lemons, 21 breakfast cups of water, 14lb. sugar (brewer's crystals). Slice fruit very thinly, cover with the water and soak 24 hours, then boil for one hour slowly without sugar; pour into basin and let stand another 24 hours; then add sugar and boil briskly for one hour, when it will set like a jelly.

Also soak pips and strain and add liquor.—Tulip.

Norwegian Galatine

THE prize of 5/- this week is awarded to Mrs. A. Boniface, 45 Avenue Road, Otahuhu, Auckland. She tells us that she finds our suggestions most interesting and useful, and shows the right spirit in passing on a recipe that has been found practical and enjoyable for a camping holiday, a tramp or a motor picnic.

Mince one pound of lean beef and half a pound of bacon. Put these into a basin and mix with one pound of sausage meat, six ounces of bread-crumbs, one small nutmeg (grated), pepper and salt to taste. Beat up two eggs and mix the whole well together. Form into a roll and tie in a well-floured pudding-cloth. Boil for two and a half hours. When cooked, press slightly until cold. Remove cloth and sprinkle over with chopped parsley or chives, or glaze it.

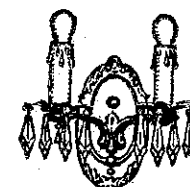
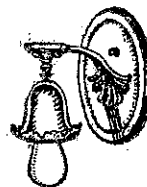
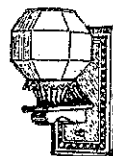
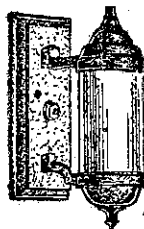
Quick Date Bread.

BEAT one egg with $\frac{1}{2}$ cup of brown sugar, add one cup of sweet milk, 1 teaspoon salt, 2 cups flour, 2 teaspoons baking powder, and 1 cup chopped dates. Let rise for 20 minutes and then put in oven at about 350 degrees; turn top off and bottom to low. Time $\frac{1}{2}$ to 1 hour. Sultanas or nuts can be added instead of dates, while dates and nuts or sultanas and nuts together make a delicious flavour.—"Cook" (Whangarei).



SYMBIOTIC LIGHTING FIXTURES

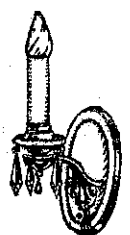
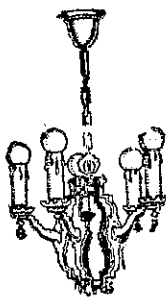
From 9.30 a.m. on Tuesday, May 4, 1930, all our branch showrooms will be prepared and ready to show to you fittings for electric lighting.



YOU have opened your eyes to the morning's sunrise, admired a lovely sunset, and you have noted the partnership of cloud and cloudless sky with reflected light beams. There are times when you have been awe-bound with the beauty, and you would have staked your life's assets that no artist could paint on canvas so lovely a spectacle.

To-day we copy, mechanically, such conjunctive lighting effect in your own residence. In each room of your home—light beams that are good for you—it is possible to blend the walls, ceiling and corners with the furnishings into lovely harmonious allies, all contributing to an atmosphere that you and your visitors need.

Now, look at your present electric lights, and ask yourself—are they parasites in your room? Do they dazzle and bring about the continuous changing of the pupils of your eyes, as your vision roves over the room? Then it is time you came to us and learnt of mutualistic symbiotic lighting.



TURNBULL & JONES LTD.

WELLINGTON, AUCKLAND, CHRISTCHURCH, DUNEDIN, HAMILTON

Suppliers of Electrical Fittings for the first Hydro Electric Scheme in New Zealand

Build your Home for Convenience

Electricity properly installed is Economical

THERE is to-day, undoubtedly, a revival of interest in home-making and those who are building or about to build a house, will be wise to remember that they are building for the future. Women are rapidly realising that efficiency in household work will be brought about only by the agency of electricity, and architects, builders and engineers will be obliged to conform to their demands.

It is of little use putting up a house to-day that will be out-of-date in ten years' time. Therefore, it behoves one to think and plan electrically. Fifty years ago, the "house-proud woman" prided herself on spending all or most of her waking hours in household duties. To-day, a woman can be equally "house-proud" and with greater reason, and get through her duties more efficiently in an hour or two.

The growing interest in the subject of electricity in the minds of all those women, who are about to be home-makers, in the best sense of the word, calls for thought as to how large a part it shall play in the new home.

Electric lighting will, of course, be a *sine qua non*, but not just the old, bald, necessary lighting, we hope. Soft decorative effects, without glare, at no extra cost (probably less) beyond the first cost of installation of a few extra points are obtainable.

But what of electrical cooking, heating, and water-heating, to say nothing of washing-machines, cleaners, and dish-washers? Is not this the time to instal them, and so save extra building costs? Are those of us now building going to be wise in time, or are we erroneously afraid of the bogey of expense? If so, a little consideration will show us that this bogey soon vanishes.

ELECTRICAL heating is cheap, cleanly and decorative; it can be adapted to any room. It does away with the expensive brick-work for chimneys and the need for storage-room for fuel. The elimination of fire-places alone, which, in the past, have dictated the position of doors, windows and furniture, gives entire freedom to new ideas of where fittings and furniture can be placed; a complete change-over can be effected to suit the fancy or convenience of the home-maker at any time.

The electric range, which will practically run itself, at a very small cost, will, of course, supersede the old fuel range, with its dirt, dust and ashes, and the need for continual stoking, in the kitchen. Here again, no chimney will be required for there will be no fumes or smoke to disperse.

Electrical water-heating once installed serves not only bath-room, kitchen-sink, etc., but will supply hot water for the electric washing-machine, which will surely be a feature of every up-to-date house. Apart from its labour-saving qualities, sufficient recommendations in themselves, the electric washing-machine will not only

save space, being conveniently tucked away beneath the kitchen cabinet when not in use, but it obviates the necessity for building the old-fashioned wash-house, and the costly copper, tubs, taps, etc.

AN electrical dish-washer fitted to the kitchen sink, worked by the press of a button, takes away all the horrors of washing-up, the thought of which spoils the enjoyment of many a meal, and an ironing machine, that is easily converted into a useful table, goes far to completing an ideal kitchen.

The electric vacuum-cleaner will, of course, take care of all the household work, besides accomplishing such odd jobs as cleaning the car, drying the hair after a shampoo, fumigating and so on, while it will also keep polished floors in perfect condition.

Minor appliances, such as kettles, coffee-percolators, toasters, and irons will literally enable all household operations to be performed by a turn of the switch, and it literally remains in the hands of the woman who is building a home to-day, to say whether those same hands shall ever be soiled and roughened by household tasks, as in the past.

WHILE the cost to the consumer of practically every other commodity has risen since the World War, the cost of electricity has steadily decreased and becomes less in proportion, the more it is used. A comparison of the cost of electrical energy with other every-day necessities of modern existence shows that for the work it does and the benefits it confers, electricity is by far the cheapest of them all.

It is available to nearly every home in this country, ready to do our bidding at any and all hours, and its time and labour-saving qualities place it among the absolute necessities of to-day. In the home, electricity more than pays its way, the minutes saved and the labour lessened by its application resulting in many hours of time being saved, which can be used to better advantage. Tedious tasks are disposed of quickly and easily by the use of proper electrical appliances, which are now obtainable to lighten almost every form of household work. Those who wisely take advantage of the low cost of electric power are saving time, money, and energy.

It is certain that not only with a growing army of women waking up to the very material influence it has upon their own and the family's well-being, but with girls now cultivating acquaintance with electricity during school life, learning how it works and what it will do to lessen labour in the home, that the time is coming when all homes with any pretence to being up to date will be entirely electrically equipped. It is not necessary, however, to wait until then. Electricity should be made your general servant now.

Answer to Correspondent

Novel Footwarmers

IGNORAMUS: The Sardonyx pronounced Sar-do-nyx, with the accent on the first syllable), is an onyx, containing layers of sard. Sard is a variety of quartz, like carnelian, but of very deep red colour, blood red by transmitted light. Both the sardonyx and the onyx belong to the agate family, which is popularly supposed to be the birth stone for the month of June. The sardonyx most valued by the ancients was that composed of alternate layers of black, white, and red, considered to be the symbolical of faith, purity, and martyrdom. It was largely used for carving cameos, and is still to be found in antique seal rings.

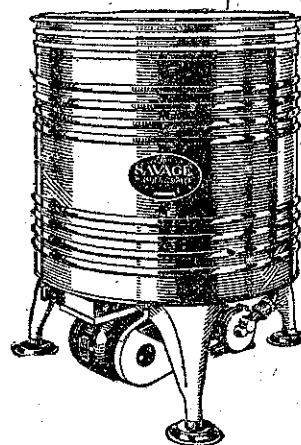
A HUNGARIAN shoemaker has invented a "heatable" shoe. An electric element is concealed between the inner and outer sole of the shoe, which the wearer may heat by attaching a connector in the heel to a wall-plug. Fathers in Hungary can now warm their slippers for themselves, and keep their feet warm, for the heat is retained for over an hour after detaching the connection from the plug.

Radio Listeners' Guide, 1930 Edition.

Dealers and Booksellers 2/6, posted 2/9.
P.O. Box 1082, Wellington.
Available in May.

Chosen by Miss E. CARGILL, Waitawa

Only the Savage
Wringerless can
bring you "Spin-
Rinse, Spin-Dry"



Price
£48/15/-

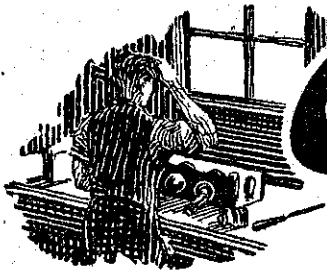
Miss E. Cargill, Waitawa, is the winner of the competition for an Electric Washing Machine, conducted by the "Radio Record and Electric Home Journal."

Miss E. Cargill has chosen the "Savage" Washer and Dryer. This selection was made after full investigation of all rival machines.

Agents:

STEWART HARDWARE Ltd.

COURTENAY PLACE, WELLINGTON



Questions and Answers



"S.J.B." (Canvastown) states that he has just installed a receiver, and is using an aerial just under 40ft. high, which passes over portion of an iron roof. There is a clearance of about 12ft. Would there be an advantage to have the aerial higher, and how many feet of clearance must there be in passing under or over another aerial?

A.: The higher the aerial can be erected so as to give greater clearance of the roof, the better. Fifty-feet high would not be excessive in a case such as this. Another aerial can be passed within 10ft. of the existing one.

"HEREKINO" asks the following questions concerning the use of the detector valve of "Round-the-World Two," as an adaptor.

1. Can the detector stage be used as an adaptor?

A.: Yes, quite well.
2. I have a .0005 and .00035 condenser—which is the best to use with the OC2?

A.: Your question is not quite clear. If you mean which is the better to use for reaction we would suggest .00035.

3. What number of turns will be required on the coils?

A.: If you are tuning with a .0002 it would seem that you must use the number of turns given in the article.

4. Would you advise removing some of the plates from the .00035?

A.: If for tuning, it must be brought down to a .0002 by the removal of nine plates.

"UNION" (Pukekohe) asks concerning the design of R.F. chokes.

1. Is it practicable to construct a radio frequency choke for use on all waves in an ordinary all-wave set?

A.: Not without making certain compromises. It is best to make a short-wave choke, and use this. A good short-wave choke consists of 100 turns of 30 gauge wire on a test tube.

2. I have a quantity of 40 gauge wire on hand. Could this be used?

A.: You could try it, but it would not be quite as effective as 30 gauge.

"AMATEUR" (Hawke's Bay) wants to know a few points about his factory-made receiver.

1. The aerial is 30ft. high and 114ft. long; is bare copper wire, while the lead-in is 7036 insulated. He has also a loop antenna and finds that if the two are connected in series he gets about 5 per cent. and upwards more volume from the stations on the dial beyond 35, while on the lower numbers the sensitivity increases.

A.: By seriesing the two aerials you are rarely increasing the length of your outside aerial. This will tend to give greater strength on the lower frequency station, but decreased sensitivity on the others. The aerial is really far too long, and would be improved by the addition of a small series condenser about .00025.

2. There are two small stations about 40 miles distant, and I can get them only at very low volume. Both operate on high frequency.

A.: This is due, no doubt, to the long aerial you are using.

3. I have never been able to receive an American station, but I get the Japanese at good speaker strength. Should I be able to get the American?

A.: Receiving American stations is not always possible. Very much depends upon the locality. Japan, on the other hand, can usually be well received on any set.

4. Would a short-wave adaptor give good results on my machine.

A.: It should do.

"L.R.S." (Invercargill) asks where he might find directions to make a single valve receiver at a minimum cost, and how far will it reach?

A.: We do not consider one-valve receivers to be worth while. They are capable of creating great interference, for their range is really quite small, and when they are pushed to get greater distance, they oscillate and disturb the neighbourhood. A two-valve set would be very much better. Build the radio and detector stages of the Brownings-Drake, and then at any time, you can add one, two, or three valves, and you will have a really good set. Directions of how to make this set were published in the last year's "Radio Listeners' Guide."

"NEW Reader" (North Auckland) asks concerning an accumulator:

1. Do you consider a 4 volt 50 amp. hour sufficient for a 5-valve set using quarter-amp. valves?

A.: If charged regularly, a 50-amp. hour accumulator would be all right. If you are using 4-volt valves. An 80 amp. hour battery would be better.

2. Would an accumulator give better results than dry cells?

A.: Yes, you will not be troubled by rapidly dropping voltages, which are the bane of dry cells.

3. My valves are A409, A425 and UX 120. Is this a good combination?

A.: For dry cells, yes; but A425 is generally speaking not a suitable valve to use in an American set such as this. UX 120 is quite a good valve to use in the last stage with dry cells, but if you get your accumulator, a 4-volt power valve would be better.

"R.G." (Wanganui) asks what batteries connect up to "P" and G+ in our diagram of "Round-the-World" Three.

A.: "P" is the maximum B+ voltage available. We do not know which terminal you are referring to when you say G+, for there is none marked in that manner. The terminals connect as follow:—

A—The negative of the "A" battery.
D B+ 22½.

AMP The next highest tapping, probably 45.

C—Grid Bias negative, 4½-9, according to the valve used in the last stage.

A+ The positive of the "A" battery. The connections of the batteries that do not go to the set are as follow:—A— to B— to C+ to earth.

"MONITOR THREE" (Wanganui) encloses a sketch of the position of his aerial, and asks if it might be improved upon. It is 90ft. long and 50ft. high, passing over the corner of a house 20ft. high.

A.: Under the circumstances, you appear to have selected the best position. An alternative would be a "T" aerial running the full length of your section with the lead-in coming from the centre. The effective aerial in a case such as this would be the lead-in plus half the total length of the aerial.

"E.H.B." (Christchurch) asks: (1) Is it necessary to have a separate license for a portable set. He has one for a cabinet set.

A.: If, when the portable is in use away from the location of the other set it will have to have a separate license. If you are using them both in your home, there is no need for another. If your

home set is not portable, the portable is taken away merely notify the District Radio Inspector that you are temporarily shifting the location of your receiving station.

2. Is mill-board suitable for the Bell-ringing transformer after it has been well shellaced?

A.: You do not state for what purpose it is to be used. If it is for spool ends, yes.

3. What weight of presspahn would be required?

A.: Moderately heavy gauge will do excellently, if it is for the spool ends.

Note.—There are certain other questions referring to a bell-ringing transformer. We have not described a transformer under this name. If it is one of our models, would the constructor state the name under which it appeared? If it is not one of ours, would he give us more particulars?

"PREISS" (Southbridge) asks certain questions, which are as follow:—
1. Is there anything worth hearing above 550 metres.

A.: Only commercial morse stations, and there is nothing particularly thrilling in listening to them.

2. How many turns of 28 d.c.c. wire on a 3½ in. former are required when a .00085 condenser is used for tuning?

A.: If you put on about 130 it will bring in all the morse stations you want.

3. In my short-wave set I have connected a .1 mfd. condenser in parallel with the R.F. choke. This improves the volume. Would a .5 mfd. be better?

A.: In effect, you are cutting out the high frequency choke, as the condenser merely gives a shorter passage for the high frequency current which has difficulty in passing through the choke. Try removing the choke and the condenser from the circuit. It seems as though it is slightly defective.

4. I am unable to get any short-wave stations on the speaker except 2ME.

A.: There are not many stations that can be heard on the speaker when a 3-valve set is used. Look to your choke, as this may be suppressing some of the volume.

5. Is a 4-megohm grid leak better than a 6 for short-wave work?

A.: No, as high as 8 megohms is the usual value for short-wave work.

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Details of Talkie Reproduction

From Film to Loud-Speaker

(By "MEGOHM")



WITH the advent of the moving pictures, the public had to become accustomed to seeing and enjoying dramatic presentations stripped of what had previously been considered an indispensable portion—the speech. Certainly the accompaniment of good orchestral music, the frequent helping-out of the plot by paragraphs of lettering, and at the same time a rapid improvement in the all-round technique of picture production, made the loss of an important item less noticeable. The result was that audiences soon settled down to accepting conditions as they were. But such a state of things would not continue indefinitely, and so the problem of adding sound to the films has engaged the attention of inventive minds for many years.

First Performances.

AS early as 1903, a few public performances were given in which a gramophone behind the screen was synchronised as far as possible with the projected picture, but practically no further progress resulted from this experimenting. At that time only a single gramophone could be used, so that the volume was small, and quality extremely bad, judging by present-day standards. The means of recording sounds certainly existed, but the means of reproducing those sounds with sufficient volume and quality for purposes of entertainment was lacking.

With the advent of radio, a few keen minds quickly realised that the means they hoped to discover had arrived. But in its early days the radio amplifier gave no more quality or volume than the gramophone, and thus the production of sound films had to await drastic improvements in the radio amplifier and accompanying loud-speaker. A certain stage of development was reached, and the talking picture appeared everywhere with almost startling suddenness.

Installations in General.

THAT an old-established and pioneer firm in matters pertaining to sound reproduction for telephones should have become deeply concerned in sound reproduction for moving pictures is not surprising, and for that reason a visit was paid to the head office of the Western Electric Co. (N.Z.) Ltd. in Wellington, to learn as much as possible about the portion of talkie reproduction that is of most interest to radio enthusiasts. There are already 61 installations of this system now operating in New Zealand.

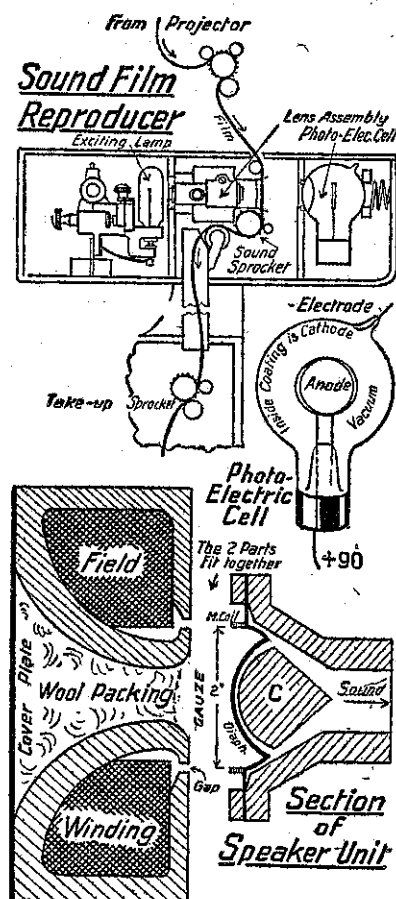
The equipment directly associated with the picture projector consists of a special turn-table, an optical system, together with a photo-electric sound-reproducing unit and its accompanying amplifier, a film take-up mechanism, and an electric motor. A constant speed of 1200 r.p.m. is required in the motor, which is kept steady by a vacuum tube regulator. To ensure accurate synchronism and absence of vibration, all gear wheels are cut by a highly-accurate method, but even then more drastic means must be employed to prevent interference, chiefly mechan-

ical, from reaching the amplifier or disc reproducer.

To effect this there are flexible couplings, mechanical filters of felt-covered springs, and a hydraulic damping action on the sound sprocket drive. The pick-up pivot is cushioned on rubber, and in addition the whole turn-table assembly is mounted on a soft rubber pad.

The whole of the apparatus mentioned is built compactly into the lower part of a metal stand, to the upper part of which any standard picture projector and arc-lamp may be attached.

In moving-picture reproduction it is necessary for the film to make a brief stop for each picture during the frac-



tion of a second in which it appears on the screen, whilst for sound reproduction a continuous steady forward movement is required.

The recorded sound occupies a narrow strip about 1/10in. wide at one side of the film, but instead of the sounds belonging to a particular "frame" of the picture being situated in the adjacent margin, the sound record is 14 1/2 inches ahead of the corresponding picture. Thus there is a small amount of slack film between the sound-reproducer and the projec-

tor, so that the jerky motion of projecting does not affect the steady movement of the sound reproducer, to which the film is fed by a smoothly-running sprocket-wheel.

A special turn-table incorporated in the machine has already been mentioned. This turn-table runs the "synchronous" disc records, which may be used when necessary to supply sound in place of a sound track record on the film. These disc records are different in many respects from the familiar type of record. They run at a speed of 33 1/3 revolutions per minute instead of the usual 78. They are 16 inches in diameter, and contrary to the ordinary custom, the record commences near the centre, terminating at the outside edge.

Ordinary or "non-synchronous" gramophone records are played upon a separate unit suited to the purpose, and wired to the controlling switch.

Two film-operating machines are invariably installed, so that there is no delay for the changing of spools.

Photo-Electric Track.

THE essential portion of the optical sound record is a track of varying photographic intensity, about one-tenth of an inch wide, running along one side of the film inside the sprocket holes, through its entire length. Owing to the number of pictures passing per second (24), the sound record is well stretched out, 3in. being thus only required to register the sound occurring during 1/24th of a second. This lengthening of the sound record favours great accuracy. Actually, the sound vibrations are represented by fine lines or bands across the recording strip.

A diagram illustrates roughly the appearance of the sound-track when magnified, but there is actually a more gradual shading than can be shown diagrammatically—a gradual photographic shading interspersed with dark bands. It should be noted that the lighter spaces represent the louder sounds, and that dark bands represent brief intervals of silence, because the photo-electric cell only passes current when there is at least a small amount of light.

Inspection of a number of enlargements shows a wide variety in the general appearance of the records. Single notes are represented by evenly-spaced dark lines between each vibration or cycle, with gradations in between representing the modulation.

When a strong light shines through the record and into a photo-electric cell, the latter passes current in proportion to the intensity of the light, so that when the current passed is amplified, the sound vibrations are reproduced. At this point it would be as well to describe briefly the photo-electric cell.

The Photo-Electric Cell.

THIS cell is a glass vacuum tube somewhat larger (for this particular purpose) than an ordinary radio receiving valve. In the centre is the anode, which is a circular ring of metal supported by two wires, and having a contact through the base. The other electrode or cathode is formed by first coating the inside of the bulb with magnesium, and over this a deposit of potassium salt, which is photo-sensitive.

Other light-sensitive alkali metals are lithium, sodium, rubidium, and caesium. A platinum connection through the upper part of the bulb contacts the silvered coating and thus the whole of the potassium lining. This electrode is connected to the negative of the battery supply, and the anode to the positive, in this case 90 volts. At one side of the bulb a clear glass space is left through which the operating-light may enter.

When no light enters the cell, no current passes, and when light enters, the current passed is directly proportional to the intensity of the light, so that doubling the strength of the light doubles the amount of current passed. It is this property that renders the cell so very useful for a number of purposes.

The current actually passing with a light of great intensity is extremely small—far less than that generated by a pick-up and too small to be heard in ordinary 'phones. Great amplification is therefore necessary, and in this particular system amounts to between one and two million times when it is delivered from the loudspeakers. The precise amount of amplification is decided by the size of the auditorium.

The action of the photo-electric cell depends upon the fact that when the anode or plate is positively charged, and the light-sensitive surface (cathode) on the inside of the bulb is negatively charged by connection to the respective poles of a battery, the negative electrons with which the cathode is charged cannot leave it until illuminated. The presence of light has the same effect as the heating of a valve filament, so that when the cathode receives a ray of light, electrons are driven off and rush to the positively-charged anode. This electron stream is exactly proportioned to the amount of light entering the cell.

Operating the Photo-Electric Cell.

AN exciting lamp is used to provide the light that passes through the sound record to the photo-electric cell. This lamp is specially made with a short, straight filament, and is rated at 50 candle-power. A miniature projecting system of lenses is provided in a tube about one inch in diameter. Near to the exciting lamp is the usual condensing lens which concentrates the light of the filament upon a narrow horizontal slit near the centre of the tube. The exciting lamp has adjustments in three directions, so that its correct position in relation to the slit may be easily found. In front of the slit is a small objective-lens which

focuses the image of the illuminated slit upon the sound-track on the film, which in turn communicates the sound vibrations to the photo-electric cell in the form of intermittent light rays of varying intensity and duration.

The feeble current passing even when the cell receives maximum illumination has already been mentioned, and now the process of amplification begins. The high impedance of the photo-electric cell works best with a resistance coupling followed by one stage of transformer coupling. This compact amplifier styled 49A, is fitted with non-microphonic sockets, while the rubberised base is suspended on four spiral springs in its metal housing, which rests on rubber, the whole being compactly stowed away in the lower portion of the machine stand.

Stepping-up the Amplification.

ALL that has so far been described takes place in the "machine" itself, but further amplification is carried out upon a convenient metal rack upon which the subsequent amplifiers and regulating gear are placed.

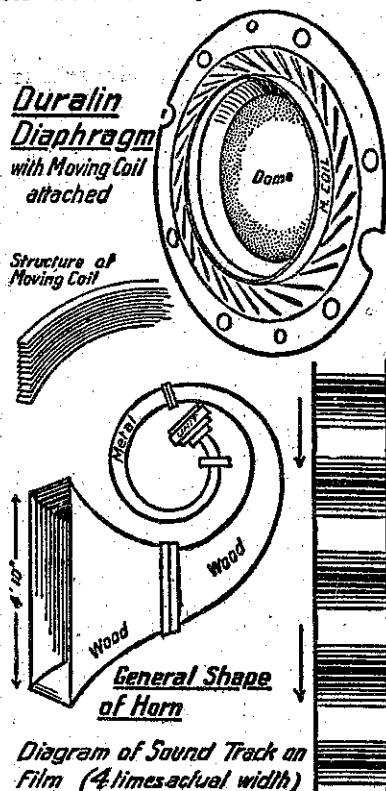
The output from the amplifier on the machine next passes through an "attenuator" or balancing resistances (wire-wound), their purpose being to balance the output of the two machines that are always installed, so that there will be no jump in volume when changing over from one machine to the other.

There is also a "fader," which is merely an electrical potentiometer, and is the main volume control for the loudspeakers. Then there is what is known as the "non-synchronous" panel, providing for switching on to the amplifier either the ordinary gramophone turntable or the switch on the machine which changes from synchronous disc to film record or vice-versa.

The first amplifier on the rack consists of three stages of resistance-coupling with "239" valves, having an impedance of 15,000 to 20,000 ohms and a 4-volt filament. A 12-volt accumulator is included in the plant, so the three

valves in this amplifier are wired in series to utilise the 12-volt supply and also obtain grid-bias from it, whilst the necessary plate current is drawn from the succeeding amplifier, which is entirely a.c. operated.

Here follows the "main gain control" which is really a volume control



with switch studs. Its use is to "calibrate" the theatre, or fix the available volume so that the "fader" has a range suited to the requirements of the building. Once set correctly, this control is not altered.

The next amplifier is known as the "42A," and consists of one stage of push-pull with a pair of 205D valves,

5-watt rating, with an impedance of 6000 to 7000 ohms (a valve approximately similar to the UX210). Two of these valves are also used as rectifiers, supplying a total of 57 m.a. to the two plates at 400 volts. The filaments take 1.60 amps. at 4 to 5 volts, or a mean of 4.4 volts. Special precautions in the form of filters and resistances are included to eliminate motor-boating and hum. This and succeeding stages are all transformer coupled, the transformer cores being made of "permaloid," a specially high-grade alloy suited to the purpose, and adding to the excellence of reproduction, whilst a further refinement is provided by allowing only the alternating component of the signal to traverse the primary windings of transformers, a coupling condenser being employed to divert the direct current through an audio choke or suitable resistance. This method applies to each push-pull stage.

The power output of this stage is 2.4 watts, and for a theatre containing 700 to 800 seats, is the final amplifier, completing the "2S" system.

For larger auditoriums a further push-pull amplifier known as the "43A" is required. This is also completely a.c. operated, and contains a pair of 211B valves as amplifiers, and another pair of rectifiers. The plate current taken by this stage is 125 m.a. The output now available to operate loudspeakers is 12 watts, and sufficient for the average theatre, being known as the "2SX" system.

For the largest theatres the 2SX system is used, with the addition of another 43A amplifier, which is wired in parallel with the one already provided, the output now being 24 watts, which operates six loudspeakers at full volume.

All the apparatus used is manufactured to suit a standard supply of 110 volts, so that where the supply is 230 or other voltage, a transformer is employed to supply 110 volts to the amplifiers.

An impedance-matching panel takes the output of the last amplifier in the system, which passes through an auto-transformer with tapings taken to switches on the panel. Each speaker unit is also connected to a switch, so that by selecting the correct tapplings the impedance of each unit—all units are in parallel—is matched against the impedance of the system.

This feature of matching impedances throughout the circuit from photo-electric cell to loudspeakers is a large factor in the success of the system.

In the next issue the writer will describe in detail the huge loudspeakers that complete the talkie equipment.

two very large permanent magnets. It is light, being only slightly heavier than a good cone. The cone is suspended somewhat similarly to the dynamic, and as a result of the lateral movement between the pole pieces there is fully 1/2 in. play. The cone is 10 inches in diameter, and it is intended to be placed behind a baffle, which can quite conveniently be that of a dynamic speaker. The delicate moving parts are enclosed so that they will stand hard knocks, and it appears not easy to put the speaker out of adjustment.

For our tests the speaker was placed behind a baffle, and fed in turn by a power amplifier and an ordinary two-valve amplifier, by weak and strong signals, and by constant frequency notes from 43 to 8000 cycles a second. It was compared with both our standard moving coil and magnetic speaker. As a result the following data has been acquired:—

1. It will take at least four watts without distortion or rattle. As comfortable room strength is one to two watts, depending on the size of the room, it will handle ample power for most general purposes. In fact, at one stage an amplifier such as that used with small sound film plants was employed and the Farrand stood up to the output without signs of overload.

2. It is almost as sensitive as a cone and slightly more sensitive than our standard moving coil. It works satisfactorily from a two-valve amplifier on both broadcast and gramophone reproduction. Even when 90 volts are on the plate the speaker performs well.

3. The frequency range is from below 43 to 8000, a range consistent with excellent reproduction. The curve is practically flat between 50 and 6000 cycles with very few peaks. A range such as this is very unusual. During the test at the lower frequencies the cone could be observed vibrating at least 1-8 inch, and yet there was room for further movement. We did not locate any resonance peaks.

4. The reproduction is both pleasing and natural, giving a freedom from boom and screech—a pleasing quality in these times when the tendency is grossly to over-emphasise the bass. Within the range, which includes that of all notes within the working musical range, there is even amplification. The instruments in both bass and treble are clearly defined, and there is an absence of mushiness.

The introduction of a speaker such as this will mean a great step forward in loudspeaker design.

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Laboratory Jottings

Farrand Inductor Dynamic Speaker

L. M. SILVER and Co. have secured the New Zealand agency for the Farrand Inductor dynamic speakers, the principle of which type was described last week. One of these speakers has been tested by our laboratory, and has put up a very creditable record.

In external appearance the Farrand resembles a magnetic cone unit with

Short-Wave News

Confirmation from UOR2, Vienna.

A CHRISTCHURCH correspondent recently received a letter from Vienna confirming his report on reception of UOR2. They state: "Our transmissions are experimental tests on 49.4 and 25.42 metres respectively, with a carrier power of 20 watts, and are performed on the following days, transposed to New Zealand time): Tuesdays, 9.30 p.m. to 11.30 p.m., on 49.4 metres; Wednesdays, 1.30 a.m. to 3.30 a.m., on 25.42 metres; Thursdays, 9.30 a.m. to 11.30 a.m., on 25.42 metres; Thursdays, 9.30 p.m. to 11.30 p.m., on 25.42 metres; Fridays, 1.30 a.m. to 3.30 a.m., on 49.4 metres; Sunday, 9.30 a.m. to 11.30 a.m., on 49.4 metres. The transmissions of Wednesday and Friday, 1.30 a.m. to 3.30 a.m., are omitted if bad atmospheric conditions do not make possible aerial change for 25.42 and 49.4 metres respectively. We hope you will further give our short-waver your attention, and a reply, when there is an opportunity, will much oblige.—Yours truly, Oesterr. Radioverkehrs A. G." (Signed, but undecipherable.)

Call of Marconi's Yacht "Elettra."

THE official call of this yacht recently heard in New Zealand is IDBK.

Daily News from Mexico.

THE Trans News Agency, of Mexico, announces that a daily news bulletin is transmitted at 8.30 a.m. New Zealand time, on a wavelength of 16 metres. The transmissions begin with QST in morse for five minutes.

More About NRH, Costa Rica.

THE writer has seen a "certificate of verification" issued by station NRH, Costa Rica, Central America. Besides photographs of the owner-operator, transmitter and building, the following is on the certificate: "Radio Perigonia, NRH, Heredia, Costa Rica, A.C. Extended to radio listener Mr. Commemorating the first year, May 4, 1928, to 1929, of our amateur broadcasting, 'doing it for fun just to please you,' and in behalf of culture and universal fraternity, the undersigned owner, operator and announcer of the NRH radio station, working with a wavelength of 30.5 metres, and using 7½ watts oscillator with its corresponding modulators on aero transmitter circuit set, as built by him, wishes you a full measure of pleasure and prosperity, for a better appreciation of his consistent phone radio work.—Amando Cespedes Marin."

Unidentified.

41.6 metres (about), Tuesday, Wednesday, Thursday, Friday, and Saturday.

REGARDLESS

of the make of Set you have we can fit

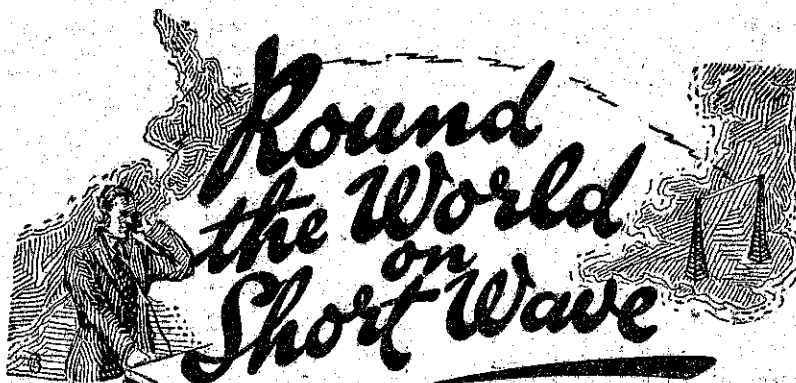
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Telephone 20-798.



31.6 metres (about), Wednesday and Thursday.
31 metres (about), Saturday.
30.5 metres (about), Sunday.
25.7 metres (about), Tuesday.
24.5 metres (about), Wednesday.

Log for the Week

Sunday, April 27.

WONDERING how 5SW comes in with their special news session from 4.25 a.m., I decided to be up early to find out. At 4.30 a.m. they were gushy at R6, every word was readable, but most of the news had appeared in the previous evening's paper, except sporting results throughout Great Britain which had taken place during Saturday afternoon. The news session concluded at 4.45 a.m. 5SW was again on the air at 5.30 a.m. for the evening programme from London. The first talk was one of a series of talks on "Holidays at home and abroad." This one was "Ramblings at home," by Donald Maxwell, who takes his listeners for a ramble on the Sussex and Kentish coasts around the old "Cinque ports." As the writer comes from one of them, Hastings, this talk was very interesting. A talk on "Gardening" was heard later. About 8 a.m. a relay was carried out of a reunion of soldiers of the Great War, some association. A man spoke whose name I

and music at R5 was heard at 4.45 a.m., but a morse station was too near to be able to hear a call.

W2XAD at 12.30 p.m. was R4, increasing to R8-9 by 1.15 p.m., but going off again after that time. W2XAF with the same programme was weaker than 2XAD at first, but soon was the stronger station. Static was troublesome. When closing at 4.50 p.m. the announcer reminded his listeners to put their clocks on one hour as daylight saving commenced that morning.

CJRX at 2.15 p.m. was R5, increasing to R7 by 3 p.m. A beam station spoiled reception.

NRH was very rough at R5 with slow fades. They were heard from about 2.20 p.m. till closing just after 3.30 p.m. W6XN came in at good strength till signing off at 7.33 p.m. This was a favourite of some novice who was squealing quite a lot at intervals. W3XAL was just audible at 3.30 p.m., increasing to R8 by 5 p.m., when they were very good with dance music from New Yorkers Hotel, New York. They signed off at 5.30 p.m. They announced that they were on from 11 till 1 a.m. each day (3.30 p.m. till 4.30 p.m.), our time, while they observe daylight saving.

W8XK on 24.4 metres this time; they were not audible on 48.86 metres. A special programme was on for Admiral Byrd. Strength at 4 p.m. was R7, very rough.

ZL4ZM was heard during the late afternoon at R7 with bad fades. Modulation was very poor. Something was said

Tuesday, April 29.

AT 6 a.m., W6XN was tuned in, when voices were heard at R5, but too gushy to be readable. Volume increased slightly later, when the call was heard.

5SW was very weak, being R1 at 6.15 a.m. (not audible before). By 7.30 a.m. strength was R7.

Zeesen was excellent at R8 when starting at 6 a.m. The 41.6 metre station was R2 at 6.10 a.m.

W6XN from 6.40 p.m. till 7.32 p.m. were very fine at R8-9, with music from Hotel St. Francis. "Hullo, London," on about 25.7 metres was heard at 6.45 p.m. at R4.

GBX at R8 and 2ME at R9 were both excellent at 6.45 p.m. ZL4ZM at 7 p.m. was R8, but very rough. Later a talk about Akaroa was quite clear. It was announced that they were going to relay from the Radio Exhibition at the Early Settlers' Hall, but this relay was so distorted that I gave them up as a bad job.

RA97 at 9.30 p.m. was R8, with medium static.

KIXR at 10 p.m. was R5 with gushiness.

Wednesday, April 30.

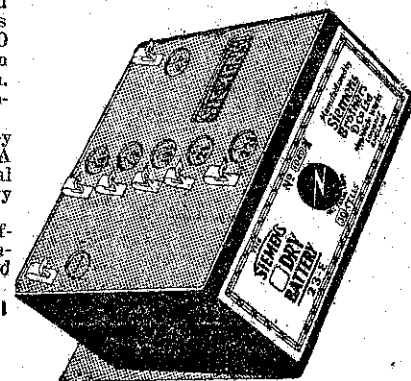
ABOUT 41.6 metres there was a station only just audible at 6.20 a.m.

GBX was excellent at R7, while 2ME at 6.30 a.m. was only just readable. 5SW at 6.30 a.m. was R6.7 at 6.30 a.m., with a strong gushy noise.

Zeesen was R7 at 7 a.m. A station just above Zeesen on about 31.6 metres, with singing at R5, was spoiled by Morse. The talk appeared to be German.

2ME and GBX at 6.45 p.m. were both R8-9.

(Concluded on page 32.)



Are You Satisfied?

Choose a British Battery to give you complete satisfaction. Siemens Batteries ensure perfect reception, giving you an evenness and clarity of tone that no other will do.

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45-VOLT STANDARD
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STATIONS HEARD DURING WEEK ENDED MAY 3

RA97, Siberia, 70 metres: Each evening.
W3XAL, New Jersey, 49.18 metres: Sunday.
ZL4ZM, Dunedin, 49 metres: Sun., Mon., Tues. and Wed.
W2XAF, Schenectady, 31.4 metres: Sunday and Saturday.
ZEESSEN, Germany, 31.38 metres: Each morning.
PCJ, Holland, 31.28 metres: Friday and Saturday.
NRH, Costa Rica, 30.5 metres: Sunday and Saturday.
VK2ME, Sydney, 28.5 metres: Twice daily.
GBX, England, 27.5 metres: Twice daily.
KIXR, Manila, 26.3 metres: Tues., Wed., Thur. and Friday.
CJRX, Winnipeg, 25.6 metres: Sunday.
G5SW, England, 25.53 metres: Each morning except Monday.
W8XK, Pittsburg, 25.4 metres: Sunday.
W6XN, California, 23.35 metres: Sun., Tues., Fri. and Sat.
W2XAD, Schenectady, 19.56 metres: Sunday and Saturday.

missed, but had many letters after it, who was referred to as our distinguished guest. Volume at this time was R8-9, but slight gushiness spoiled reception.

Dance music was heard later till 10.30 a.m., when Big Ben striking midnight concluded the first Saturday night transmission through 5SW. (These notes are being written on Sunday morning, May 4, with a background of dance music from the Mayfair Hotel, London, which has just concluded at 10.30 a.m.) Zeesen was, for a change, not nearly so good as 5SW, being only R5 at 6.30 a.m., with a noisy background. Volume increased to R8 later. On about 30.5 metres, talk

about it being a test transmission to do with a radio exhibition to be held at Dunedin.

GBX and 2ME were on duplex at 7 p.m.

RA97 or KIXR were not heard—went to bed early to make up for extra early rising.

Monday, April 28.

ZEESSEN starts at 6.35 a.m. at R9, slightly gushy.

GBX and 2ME at 7.15 p.m. R7 and R9 on duplex.

RA97, R9 at 9 p.m. Static medium. ZL4ZM on again, much better this time, but subject to severe fading.

Short-wave Topics

(Concluded from page 31.)

On about 24.5 metres at 6.50 p.m. a Frenchman was duplex at R4. The other station could not be located.

KIXR was R4 at 7.45 p.m., and R8-9 from 9.30 p.m.

ZL4ZM was just audible at 8 p.m.

RA97 at 10 p.m. was R9, with medium static.

Thursday, May 1.

ON 41.6 metres: Talk just audible at 6 a.m. Zeesen, with orchestral music, was R8-9 at 6.15 a.m. There was slight static.

5SW at 6.10 a.m. with talk was R6-7, being about 75 per cent. readable. Their musical programme commenced at 6.15 a.m. at slightly better strength and clarity. GBX at 6.20 a.m. was R7, while 2ME was not readable. Music was again just audible on about 31.6 metres at 6.30 a.m. 2ME R9, and GBX R7, at 6.45 p.m. KIXR was R8 at 9.45 m. RA97, at R7, was almost swamped by static.

Friday May 2.

AT 5.27 5SW was tuned in to their "tuning whistle." Big Ben at 5.30 was loud and clear. The first talk was about France. The second, from 6 a.m., was "Problems of Industry." A drama, "Robin Hood," was broadcast from 6.30 a.m. Strength was R8, talk being clear and steady.

Zeesen at 5.45 a.m. was R9, with choral music, which was very fine. 2ME and GBX were both R7 with plenty of static at 5.45 a.m.

The 41.6-metre stranger was R3 at 6 a.m. with foreign talk. PCJ commenced at 5.30 a.m., at barely R9, with slight fading and static. Volume remained about the same all through the transmission till 7.30 a.m.

2ME, R9, and GBX R8, were very clear at 6.30 p.m. W6XN at 6.30 p.m. were R8, decreasing to R6 by 7 p.m. KIXR were only R4 at 10 p.m. RA97, with an orchestra, at 10.15 p.m., were R8-9. Static, as usual, was bad.

Saturday, May 3.

FOR two hours PCJ were heard, being R8-9 at 5.30, to R7 when signing off at 7.38 a.m. "Phillips Short-Wave Synchro" entertained for a time; they are to be on again next week.

5SW were R8 from 5.30 a.m., with slight rapid fading. Talk was 100 per cent., but with difficulty. This was better by 7.30 a.m. Zeesen was very good, except for static, at R9. W6XN was R2-3 from 5.45 a.m. to 6.30 a.m., but were too gushy to be clearly readable.

GBX, R6, and 2M at R9, were on duplex at 6 a.m. The 41.6-metre station was R2 at 6 a.m. PCJ was in better form than recently for a Saturday afternoon, being R4 at 1.30 p.m., slowly increasing to R9 by 5.15 p.m. During the transmission they relayed an early Dutch morning farmyard scene. The fowls could be heard quite well, also roosters crowing. A special feature for next week will be a call to every listener in Australia and New Zealand who has sent in a report during the past few months.

The last item was the "Lonely Troubadour," after which Mr. E. Startz, the announcer, said: "We have been on the air for six hours, and so the 'Lonely Troubadour' is now signing off—Good morning, everybody."

W2XAF at 1.30 p.m. were gushy at R4, increasing to R8 by 3 p.m. After an hour's dance music from the Hotel St. Regis, till 3.30 p.m., they relayed a Western League team baseball game from De Moines, Iowa, between De Moines and Wichita. This it appears was something new, playing baseball by artificial light. They had six towers with lamps giving a candle-power of 50 million candle-power. It was estimated that 12,000 people were present.

NRH was not readable, being R1-2 at 3 p.m. W2XAD was R8 at 1.30 p.m., but rapidly went off in volume, being only just audible at 3 p.m. GBX and 2ME started duplex at about 5 p.m. RA97 at 11 p.m. was R9 with slight static. At 11 p.m., on about 31 metres, speech could be heard at R5, but modulation was too rough to be readable. There was not any sign of KIXR at 10 p.m.

From Short-wave Correspondents

ON Monday morning (April 14), at 8 a.m. N.Z. time, I received Roma testing 3RO on about 25 metres. Numbers were counted from 1 to 10. Then "Hallo, hallo, 3RO testing." Announcement: "There will now be an interval and a gramophone record will be played from the studio during the interval." 9 a.m. (N.Z. time), announcement: "Rome station, 3RO. The third act of grand opera now commences. We are now going over to the studio." The speech from this station was the clearest I have ever heard, and the music could be heard four chains from the loudspeaker. I also heard the news summary given out from 2FC, Sydney, 451 metres, at 1.25 p.m. on April 21.—Neil C. Gilchrist (Oamaru).

MR. SELLENS mentioned in last week's issue that he did not hear a sign of KDKA (W8XK) on their low wavelength, on Sunday, the 20th. I would like to advise that I received them on 25.4 metres from 3.30 p.m. until 5 p.m. at strength R8 right through, reception being excellent on their "Big Night Eastern Programme." On the same evening I logged W8XAL, Cincinnati, Ohio, with the programme of WLW from 7.25 p.m. until 8.40 p.m., when they signed off, giving their frequency as 8060 kilocycles (49.5 metres). Strength R6, static bad.—J. V. McMinn (Wellington).

STATION VK2ME, Sydney, was testing with W2XAF, Schenectady, New York, again last Tuesday night, 2ME signing off at 12.30 a.m. Wednesday morning. Further tests will be made between VK2ME and W2XAF on May 13. Mr. Farmer at 2ME remarked that the London broadcast stations 2LO, etc. (not short-wave stations), had been

heard occasionally in Sydney. (2LO has been heard in Wellington, but possibly not direct.) Mr. Farmer jocularly remarked that so far as record-breaking goes, "it is coming to this, records will have to come from crystal sets soon." Mr. Farmer also stated that Pittsburg was not heard in Sydney so clearly as 2XAF. This week the mothers of the Australian cricket eleven now in London will assemble, and speak from Sydney to their sons in London.

Alaska on Short-wave.

LISTENERS will remember a few weeks ago I forwarded to the "Radio Record" a report concerning reception of short-wave stations, etc. Included in my report I mentioned hearing an amateur phone station on the 80-metre band, call sign W7AMP, Alaska, and stated he must have a very good outfit to reach out to New Zealand. Little did I think at the time so much ink, paper, and time would be used concerning this station. I did not start the argument concerning this station. It was just a case of my reporting reception from it.

Mr. W. A. W. Stevens (Hawera) mentions in his note to "Radio Record" that I am "all at sea" (or words to that effect) regarding the call and address of W7AMP. Well, I find on looking up my log book this station was heard on February 6, 1930, at 7.20 p.m., New Zealand time. Station W6END, of Hollywood.

MANY broadcasting stations in Europe are taking advantage of the standard of perfection attained in present-day recording, and are devoting more and more time to the presentation of gramophone recitals. The scheme is an excellent one, for in many instances finances do not permit the maintenance of large orchestras or the engagement of first-class artists. It is also obvious that the greater the time spent in presenting gramophone selections, the more money there will be available for the engagement of well-known artists to entertain listeners for the remainder of the programmes. The plan is one which could be adopted by New Zealand stations to a far greater extent than it is at present.

California, was also heard on 80 metres band (coming in here at R7 to 8), calling W7AMP, Alaska. He made a long call of fully seven minutes, and there was no mistaking the call letters. At 7.30 p.m. W7AMP Alaska replied, conversing for a few minutes concerning modulation and strength from W6END. He then said, "W7AMP Alaska now going over for W6END Hollywood, California." They worked one another for quite a time, and both calls were heard a number of times.

I might state that on looking up an "amateur radio call book," December, 1929, it gave the address of W7AMP as A. B. Carten, Setka, Alaska. I have written to Mr. Carten concerning reception of his station. When a reply comes along I will send it along to "Radio Record" for publication.

Regarding "Ham" and his note, he states that many reasons could be presented why New Zealand ham phone is not reported in Alaska. A reply from W7AMP will settle that question. Also, I have written thirty or forty letters to "hams" in all States of America, reporting on their phone stations heard here. We will see what they have to say concerning reception of New Zealand ham phone there. "Ham" also writes that evidently I have formed an opinion with regard to the possibilities and limits of radio. I did write that it seemed impossible that ZL1BG could be heard in Siberia with the power of only 10 watts. There are such things as freak receptions. No doubt that for the reception of that 10-watt transmission, conditions were ideal. For me to write regarding its possibilities and the limits of radio. I will leave that to Mr. Edison or De Forest, although there are three things which will come to pass, and they are:—(1) Condenserless receivers; (2) cold vacuum

No Guesswork Here

Radio Statistics

THE big national advertisers in the United States who have been spending up to eight million dollars a year in time and talent for broadcasting over the air, in the hope of securing a commensurate return, are beginning to inquire definitely into the results secured from their public. They want to know whether they are getting value for the money they are spending, and the effect they are producing upon the public which listens to their programmes and announcements.

Arrangements have therefore been made to "take the guess" out of the position by employing field workers in 50 sections of the United States to interview owners of radio sets. The move is being made under the auspices of the Association of National Advertisers. It is intended that the field work will cover a full year, during which 52,000 interviews are to be reported. During one week of each month interviews will be gathered for every day of the week. The listening habits of listeners will be tabulated by sex, by age groups, by financial classes, and by other divisions.

It is hoped that the results secured will be of such value as to lead to a permanent organisation of broadcasting stations to provide an audit of radio listeners. It is difficult, however, to see how this can be done, having regard to economy.

valves; and (3) "old man static" put in the background. I thank "Ham" for the address asked for.

I trust the W7AMP business is now settled out of court. As far as I am concerned it is.—A. P. Morrison (Wellington).

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Notes and Comments

(By "Switch.")

BEGINNERS not infrequently are mystified over the measurement of a metre. A metre is approximately 40 inches. To convert metres into feet it is necessary to multiply the number of metres by 40, and divide the result by 12.

"**INQUIRER**" (Kelburn) has sent in a query as to whether it is possible to employ a loudspeaker separately in connection with a console receiving set employing a loudspeaker. The vendor could without much trouble insert connections for a separate loudspeaker.

STRANGE how insistent is the listener with the howling valve. The music of one of the New Zealand private stations heard in Wellington at midday is generally mixed up with piercing shrieks from some oscillating valve.

THE Japanese stations have returned lately, and after 11 p.m. can be heard through the static, not loudly, but are clearly audible from the loudspeaker. A Jap. station provides a faint background to 3LO, Melbourne, late at night.

A GIFTED children's entertainer is Miss Edith Harby. The other evening the writer was listening to the

Reception Table

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

2BL, Sydney	10
2FC, Sydney	8½
4QG, Brisbane	7½
3LO, Melbourne	7
2UE, Sydney	6½
3DB, Melbourne	6½
2GB, Sydney	6½
3UZ, Melbourne	5
3AB, Melbourne	3½
5CL, Adelaide	2
2HD, Newcastle	2
2KY, Sydney	1½

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

kiddies' session at 2YA, Wellington, when Miss Harby dropped in to the studio to give the juveniles a few of her own vocal compositions. Her items must have been a delight in many a home.

LATELY 2FC, Sydney, put on an unusual "act" in the form of an imaginary visit of two Australians to London. The Australians visited the theatres, a gambling den in Limehouse, and other places, and kept up a descriptive running commentary on what they saw. Music, including an excerpt from the opera "Carmen," provided by gramophone records heightened the illusion. The thing was decidedly well carried out.

THE heavy downpour of rain last week, which marked the breaking of the drought, ushered in a general improvement in long-distance reception. Static on some nights still maintains a ratio too high in proportion to reception of the Australian stations.

THE Sunday night band concerts relayed by 2YA, Wellington, are immensely popular. The opinion expressed by several listeners who have commented on these concerts to "Switch" is that Sunday is now a "red-letter" night. There is some pleasing psychological effect also to listen in to a public performance, apart from the merit of the concert.

SEVERAL listeners have asked "Switch" from where the raucous note heard late at night recently emanated. This was merely due to the efforts of the 2YA technicians to bring that station up to concert pitch again. The 2YA transmitter has developed trouble lately, and this had to be overcome.

OWNERS of particularly sensitive sets will find it an advantage to reduce the volume to at least half when reaching out for the Australian stations. In the case of the louder Tasman stations, there would still be ample loudspeaker volume with a marked decrease in the racket created by static.

THE past month has been quite a busy time for the Wellington radio dealers. The A.C. set has been a potent factor in popularising radio, as the former intricacies of batteries and tuning kept many people from becoming owners of sets.

A RECORD which made a lasting impression upon the kiddies who listen to the children's sessions of 2YA was "The Laughing Policeman." The other day "Switch" was asked by a family to urge that this mirth-provoking record, if possible, be revived.

THE writer finds it more desirable to use old valves when static is excessive, and thus save his newer valves for more favourable nights. After all, valves enjoy a lifetime measured by working hours, and they do not deteriorate in the slightest by being put away on the shelf. They can be put into work when static is weaker, and then their efficiency will be a delight to those who want to get the best out of the Australian stations.

FROM what "Switch" can gather, Wellington listeners on the average are entirely in accord with the strictures of the London "Radio Times," published recently in the "Record," regarding the banefulness of broadcasting advertising matter as in America. In Australia the minor broadcast stations are filling their air with advertising matter, and the trouble in particular annoying to listeners who have a difficulty in cutting out these stations owing to their proximity.

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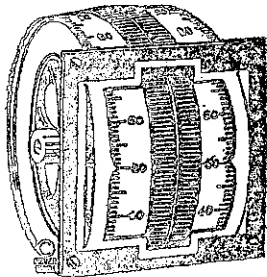
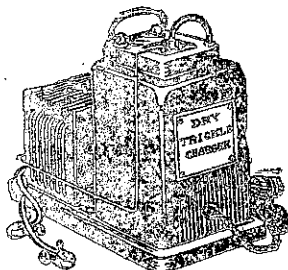
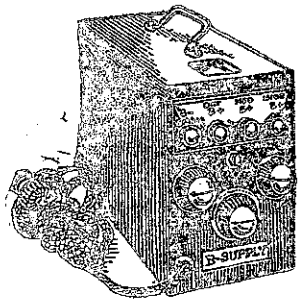
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