

PUBLISHED WEEKLY

THE RADIO RECORD

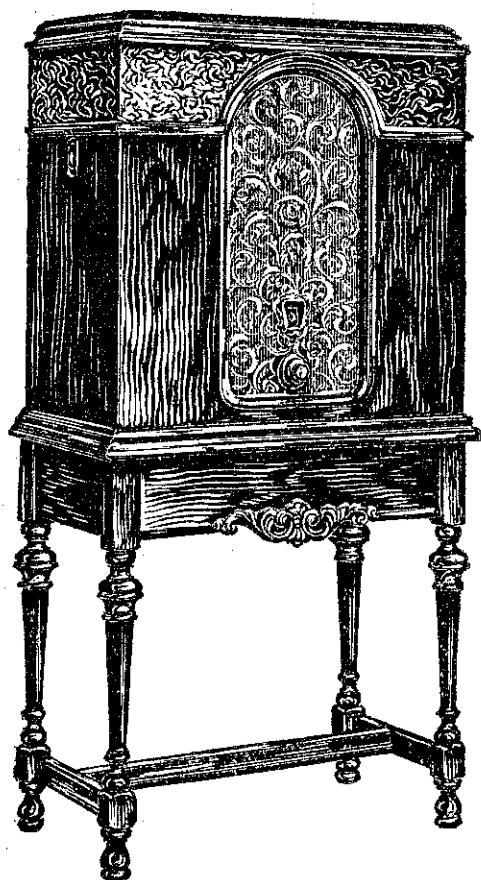
AND
ELECTRIC HOME JOURNAL

Vol. III., No. 31.

WELLINGTON, FRIDAY, FEBRUARY 14, 1930.

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WELLINGTON

THE business world is making a good deal of use of the wireless picture service recently inaugurated across the Atlantic. Two or three incidents have already occurred where forged documents have been detected when the service was used. For example, the Deutsche Bank in Berlin was recently saved £12,000 by being able to discover a forgery when a picture of a document was wirelessed across from New York.

GERMAN district post offices have been authorised to install on eight days' approval wireless receiving sets for traders. The trader must write to the local postmaster informing him of his intention to install a wireless receiving set at a certain address. As soon as the set has been installed the post office must be informed immediately, and within eight days—including the day the work is finished—a further communication must be sent, saying whether the installation is permanent or not. If it is not permanent, the set must be dismantled without any delay. On the other hand, if it is permanent, the post office will then forward a licence to the owner. The licence fee is chargeable from the first day of the month in which the completion takes place. No licence fees are payable for the eight days' approval period.

Radio News from all Quarters

HEADPHONES, to enable deaf people to hear the talking pictures, are to be supplied by the Western Electric Company in all kinemas in England equipped with their apparatus. Members of the audience who suffer from deafness will be placed in special seats, and ushers will provide each of them with a set. Each set will be clamped into a plug on the back of the seat in front. The plug will be connected with the operating box, and listeners will be able to adjust the volume of the sound for themselves.

THE installation of radio sets in motor-cars is now "all the rage" in America, and several automobile manufacturers are already building receivers into their cars. It is interesting to note that legislation has been passed forbidding the use of shortwave receivers for this purpose. This prohibition is intended to prevent any eavesdropping on the frequencies used by the police radio stations when communicating with their wireless vans while the latter are on patrol.

A FRENCH radio amateur has made use of wireless in a very interesting and practical way. His application of radio permits a motor-car driver to open the doors of his garage without leaving his seat. On approaching the garage the driver presses a button on the dashboard; this operates a small radio transmitter, the waves from which operate relays inside the garage. The doors swing open and the car passes in. This idea is even more ingenious than a similar American invention, which operates the apparatus inside the garage by means of a line circuit which is completed when the car passes over electrical contacts at the entrance.

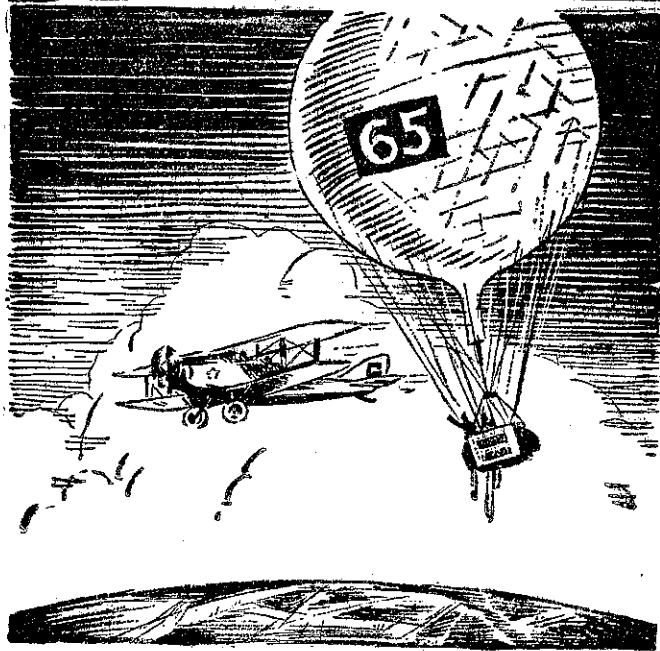
THE King recently made special preparations to ensure that he would hear the broadcast ceremony of the unveiling of a memorial to his mother, Queen Alexandria. The service was clearly received on the King's portable five-valve receiver, which was inspected by an expert the night before so that nothing might prevent perfect reception.

EIGHTY or ninety miles above the ground, three great belts of electric current are continually swirling like tidal floods above the earth, creating the equivalent of millions of horsepower. This conclusion was announced recently by Dr. E. O. Hulburt, of the Naval Research Laboratory in Washington, D.C., a laboratory which has been engaged for several years in studying the electric and magnetic properties of the earth which may affect radio transmission at sea. It was found that there are two daytime currents, one immediately above the other, one flowing eastward and the other westward. At night another current flows continually eastward. What effects these currents have upon the world at large can only be guessed at present. Experts of the laboratory say that they influence radio transmission at sea, produce variations of magnetic compasses, and alter the world weather. The currents cannot be compared to ordinary wire currents, but are rather like tremendous tides of electrified air atoms. The electrified atoms of neon gas through which flows the light-producing currents in the glass tubes of modern neon signs afford an analogy.

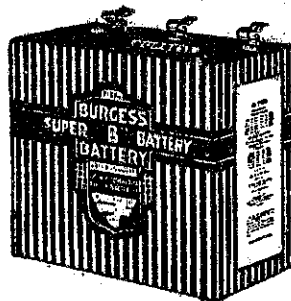
THE B.B.C.'s experimental short-wave station, G5SW, receives thousands of requests from all over the world for verifications of reception, and a great deal of time and trouble is spent upon research in connection with the details given. In connection with the above, a very humorous letter was recently received by the station from a correspondent in America. His request for verification took the following form:—"Dear Sir,—Would you please send me a verification of your station? First, we have a few fellows working with us that have a habit of bragging of how far their radios can reach, and a verification of a direct broadcast from you will surpass any claim they have. If you send one I'll never tell under any circumstances of how I received it. I have never heard your station, but have tried repeatedly. Hoping you will consider my request, and thanking you in advance, I am, yours truly, —"

FEARING the consequences of the abolition of the speed limit on roads outside towns and cities, police authorities in England are considering the formation of a new national force of motor police with full powers, including that of arrest. One plan, which in all probability will ultimately be adopted, is for the organisation of a force equipped with cars fitted with wireless. Communication will thus be effected with a central organisation in London working in conjunction with Scotland Yard.

EVERY blind person in the United Kingdom and Northern Ireland will have a wireless set if the goal of a committee representing British societies working for their welfare is reached. For some time the chief engineer of the British Broadcasting Corporation and members of the design staff have been co-operating with experts in the blind world in designing a wireless set for the easy reception by blind people of the forthcoming alternative programmes. The design has now been approved and hundreds of these special sets have been ordered so that delivery can be made when the alternative programmes from Brookman's Park begin in the New Year.



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BURGESS BATTERIES



Their Excellencies Farewelled



THE Town Hall had been beautifully decorated for the occasion. Rows of flags were suspended from the roof, great medallions dressed with flags hung on the supporting columns, a great array of flowers, foliage, plants and shrubs were on the platform, and the table at which the Mayor (Mr. G. A. Troup) presided was covered with a large silk Union Jack. The hall was crowded to the doors. A guard of honour of Boy Scouts and Girl Guides was formed along the centre aisle, and as Their Excellencies and suite entered amidst enthusiastic applause, all present stood while the first few bars of the National Anthem pealed out on the grand organ.

Their Excellencies proceeded to the platform, above which was suspended a large banner bearing the words: "Wellington bids Farewell and God-speed to Their Excellencies." Heavy applause broke out once more, but finally this died down and the speech-making, interspersed with musical items, commenced.

Most Able Representatives.

THE HON. G. W. FORBES (Acting Prime Minister) expressed regret that Sir Joseph Ward was not able to be present, but said they would be glad to hear that he was well on the way to complete recovery. He continued to speak of the remarkable way that Their Excellencies had won the hearts of the people, and of the ungrudging manner in which they had taken part

ON February 6th one of the most impressive broadcasts that has yet been arranged in New Zealand was consummated on the occasion of the farewell to Their Excellencies the Governor-General (Sir Charles Fergusson) and Lady Alice Fergusson. The scene of the ceremony was the Town Hall, Wellington, and the enthusiasm displayed by the huge gathering present was a splendid indication of the popularity and high esteem in which Their Excellencies are held by the people of New Zealand. The foresight of the Broadcasting Company in arranging for the whole proceedings to be broadcast was commendable.

in both the joys and the sorrows of the country. Their memories would always be cherished in the Dominion, and in tendering farewell on behalf of the Government he wished them good health and prosperity in the future.

Master of His Subject.

THE Chief Justice (the Hon. Sir Michael Myers) recalled the time when Sir Charles Fergusson first took office in succession to Lord Jellicoe, and said the Dominion was fortunate in having two such able men to fulfil the high office of Governor-General.

The popularity of Their Excellencies was not to be wondered at, particularly among the children, which was a natural response of the children to the kindness and sympathy shown to them.

They also appreciated the tactful manner in which he had spoken on matters of importance. They hoped it would not be the last time that they would visit New Zealand, and that in any case they would have very happy memories of the Dominion. If ever they did return they would be welcomed with open arms. (Applause.)

The Work of Her Excellency.

ADDRESSING Their Excellencies, the Mayor said the gathering was representative of the high esteem and affection in which they were held by the people of Wellington and surrounding districts. The people had feelings of thankfulness that they had had Sir Charles Fergusson as Governor-General during the past five years, and in Lady Alice Fergusson they had an example of all that was noble and good in woman. Whatever their circumstances, no section of the community had been neglected.

Mr. Troup said he could not pass without referring to the organisation of the League of Mothers in New Zealand founded by Lady Alice Fergusson, which would always be a monument to Her Excellency and her interest in the women and children of New Zealand.

The Mayor then presented the bound address and album enclosed in casket from citizens of Wellington and surrounding district and members of the Wellington Harbour Board, details of which have already been published.

This was followed by ringing applause from every corner of the hall.

The Address.

The address read as follows:—

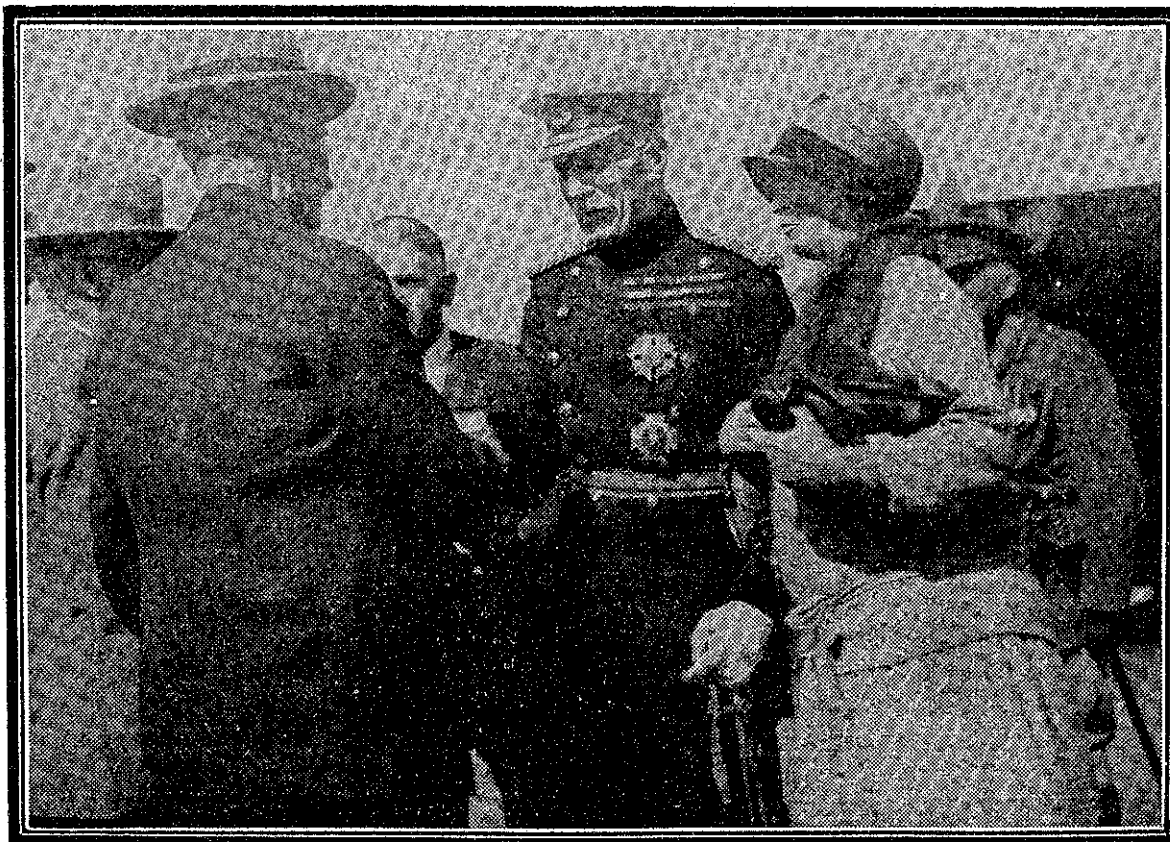
To His Excellency, General Sir Charles Fergusson, Baronet, L.L.D., G.C.M.G., K.C.B., D.S.O., M.V.O., Governor-General and Commander-in-Chief of the Dominion of New Zealand and its Dependencies.

May it please Your Excellency—

We, the Mayors, chairmen, councillors and people of Wellington and surrounding districts and the members of the Wellington Harbour Board, loyal and dutiful subjects of His Most Gracious Majesty King George the Fifth, on the eve of your departure from this Dominion desire to present to you in no perfunctory manner but in response to a genuine impulse of the heart some record of the debt of gratitude which we as New Zealanders owe to Your Excellencies for the great work which you have accomplished during your term of office, and of the personal loss which each of us will feel on your departure.

Family Tradition.

WE recall first of all that your father, Sir James Fergusson, served this Dominion as Governor, and also that the Earl of Glasgow, the father of Lady Alice Fergusson, served in the same capacity, and we feel that Your Excellencies have further strengthened the bonds of affection between the



Their Excellencies bidding farewell to the war veterans.

Photo, S. C. Smith.

citizens of this country and your distinguished families.

Time would fail us to recount the many and varied activities undertaken by you for the social and national advancement of the people of this country, the encouragement and example shown by you to all classes and creeds, to forsake things which are petty and pursue those things which enrich and ennoble life; but we would especially mention the initiative and foresight by which the League of Mothers was founded by Her Excellency.

Religion, literature, music and art in this country have all been encountered by Your Excellencies, and European and Maori alike have been helped to treasure those things which uplift and inspire.

First to Welcome—Last to Farewell.

AS the people of the Wellington district were the first to welcome you as Governor-General, and since then have regarded Your Excellencies as residents of Wellington, and therefore particularly their own, it seems fitting that they should be the last to bid you farewell, and they do so with feelings stirred to a realisation of the loss they are about to sustain.

We wish Your Excellency and Lady Alice Fergusson a pleasant voyage to your Homeland, and a period of relaxation after your arduous and exacting labours in this country.

We trust you will convey to His Majesty an expression of our devoted loyalty to his Throne and person, and of our thankfulness and joy at his restoration to health, which we sincerely hope will be permanent.

Signed on behalf of:

City of Wellington: Geo. A. Troup, Mayor.

The Wellington Harbour Board: J. W. McEwan, chairman.

The Borough of Lower Hutt: Alex. R. Roberts, Mayor.

The Borough of Petone: D. McKenzie, Mayor.

The Borough of Eastbourne: H. M. Jones, Mayor.

The Borough of Upper Hutt: P. Robertson, Mayor.

The County of Hutt: D. R. Hoggard, chairman.

The Town District of Johnsonville: A. A. Moore, chairman.

The County of Makara: Ernest Windley, chairman.

The Governor-General's Speech.

THAT part of the broadcast which provoked most interest among listeners was the Governor-General's speech. This, technically, was excellent, and every word came over with perfect clarity. For any who inadvertently missed part of the broadcast we reproduce the major portion of that memorable speech.

His Excellency on rising to respond was received with a burst of applause that must have been heard some distance from the Town Hall. To all those concerned in that expression of farewell on the termination of his term of office, His Excellency expressed his sincerest appreciation. Their expressions were beyond words and touched him and Her Excellency very deeply, he said. The would treasure them as among the many happy memories, which they would have of Wellington, the home of their childhood and the place so intimately associated with the past five happy years of their residence in New Zealand.

"It has been a happiness and privilege," continued Sir Charles, "to have entered in those five years into your daily life, and to have had some part in promoting with you the interests of this city and of the Dominion, and so build up with you the Empire to which New Zealand has always been proud to show her loyalty and give of her best. The renewed assurances of that loyalty to the King's throne and person which is expressed in your address I shall be happy to convey to His Majesty. (Applause.) We thank you greatly for this testimony of your kindly feeling towards us, and in bidding you farewell we assure you that we shall always retain the happiest memories of her people who have honoured us with their friendship and their confidence."

"We do Value Your good Opinion."

HIS EXCELLENCY expressed thanks for the combined farewell which had been arranged, which had saved a great deal of time and several visits

which he would otherwise have had to make. The kindly and generous expressions which had been used—beyond anything they deserved or could have deserved—were so sincere that they would cherish them to the end of their days.

"If, as you say, we have gained your confidence and your affection, then you say something which we greatly prize, because we do value your good opinion and we make no secret of it." (Applause.)

The sympathy and indulgence for which they asked on their arrival five years ago the people of New Zealand had never failed to give. Not long after their arrival in Wellington the marriage took place of their daughter here, and they would never forget the kindness lavished upon her and upon themselves on that occasion. They had gone on from one happy year to another without one unkind criticism, and their stay had been one of unalloyed happiness. They loved Wellington because they grew up with her as children, and with their second stay they had come to love her more and more. (Applause.)

Wonderful Progress.

THEY had seen wonderful developments; places like Seatoun, Miramar and Karori had extended widely, and there was the growth of the hill stations like Ngaio, Khandallah and Johnsonville, and Petone and the Hutt Valley spreading wider and wider. They had seen new roads, new activities of the City Council in every direction, a new aerodrome, and endless other things. In the harbour they had seen new wharves and appliances and new reclamations, testifying to the wonderful organisation and activities of the Harbour Board. And they had seen in the last few days the celebration of the jubilee of that port.

"We are now much to our regret leaving. I look back to that day 56 years ago when I left Queen's Wharf as it was then in a sailing ship—a big ship in its day of something like 750 tons. (Laughter.) We were on board nearly four months. The day after to-morrow we sail on a motor-vessel of 17,000 tons on a voyage which will take little more than as many weeks as it took months before."

Reflections.

HIS EXCELLENCY, continuing, said he was thinking that night of the wonders and beauty of New Zealand

lakes, mountains and bush, of Wellington Harbour in the bright morning sun and at sunset on such an evening as that when the setting sun lighted up the hills and the shadows deepened in the valleys; of the seasons when the clematis bloomed, the kowhai, the lupin in the riverbed, and even the much-despised gorse when in its morning glory. He was thinking of the happy children when he asked for a holiday for them, of the people they had seen working on the land, contributing largely to the prosperity of the country; of those who worked in the factories; of the miners North and South—coal and gold—of those who worked not only with their brains but those who toiled with their hands; of the people in the earthquake area, as they saw them in July, bearing their troubles bravely and making the best of them. He was thinking of the Public Works and railway men who restored the roads for the community in danger of their lives from landslips; of the gum-diggers in the north, the quarry workers of the south; the people of the islands and the welcome they gave which still rang in their ears; of the Chatham Islands, with nothing between it and the South Pole, and the gathering of school children there when they waved the Union Jack and sang the National Anthem as if in Wellington, a wonderful conception of the Empire. He was thinking of the settlers in the backblocks, of the memorials he had unveiled to the sacrifices New Zealand had made in the war, of those who came back from the war maimed, blinded and broken, of his comrades of the Great War and the South African War, the R.S.A., and the happy times he had spent with them, and their Maori friends and their history, poetry and legends. He implored the Maori people to hold fast to their language, their poetry, their old customs and traditions, and while he could not speak their language he would remind them of one of their brevities: "Union is strength, dissension is death."

Seeing the Future.

HIS EXCELLENCY recalled many happy gatherings at Government House, adding that he now came to what in some respects was the pathetic part. He would like to speak of how he

(Concluded on page 21.)

Mullard

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Wigram Air Pageant

3YA to Broadcast Description

THE second New Zealand air pageant, a miniature "Hendon," is to take place at the Wigram Aerodrome, Christchurch, on Saturday, February 15. 3YA will broadcast a description of the proceedings.

The pageant will make a splendid spectacle. A total entry of 35 planes has been received, and it is expected

WATCH FOR NEXT WEEK'S COMPETITION!

Next week a monster competition will be launched—one of interest to all—and some prizes of high value!

that the great majority will take part in the various events. There will be Moths, Avros, Spartans, Monocoups, Bristols, Avians and Grebes, dipping and diving, circling, zooming—and all the other things that airplanes alone can do. The list of events is most comprehensive. Headed by the principal contest, the Wigram Air Derby, there are landing competitions, a transport race, formation flying, balloon chasing, height estimating contest, slow race, bombing contest, and a host of novelty events.

By no means the least important of these is a spectacular parachute descent. Pilots from all parts of the Dominion will take part in the pageant, and as most of the best pilots in New Zealand are attending a refresher course at Wigram at the present time, some spectacular flying is anticipated. Commercial flying concerns are represented as well as most of the best-known private enthusiasts. Wing-Commander S. Grant-Dalton, Director of Air Services in New Zealand, will act as chief judge.

The Monocoupe, which will be one of the machines taking part in the pageant, is a monoplane of a type different from that usually seen. It is a light American machine equipped with a Velle 65 h.p. engine, with a cruising speed of 85 miles per hour, and a maximum speed of 100 miles per hour. It is a cabin-type machine with dual controls. The seats are side by side, and there is plenty of room for two in the cabin, with a space at the back for luggage. The cabin is free from noise, and conversation can be indulged in. There is no draught, and travelling in the cabin is said to be like travelling in a coupe car. There is no need for flying clothes. It has a cruising range of 500 miles, doing 20 miles a gallon on twenty-five gallons of petrol.

Bulgarian Singer at 4YA

AN interesting entertainer who appeared at 4YA recently was Miss Anka Lambreva. She recently arrived in New Zealand from Bulgaria. 4YA listeners were treated to an interesting talk and to the singing of Bulgarian and Turkish folk songs.

Relay from Aramoho

Many Distinguished Musicians to Participate

ON Sunday evening next, February 16, 2YA will carry out a relay from the Duchess Theatre, Aramoho, Wanganui. The entertainment is to be given by the choir of the local Methodist Church, which contains some splendid musical talent.

The choir is particularly fortunate in regard to the quartets, in which combinations the tone and balance are excellent. Each singer is a soloist of considerable ability. A very efficient orchestra will assist in all the choir items.

Miss Gladys Marshall, A.T.C.L., L.T.C.L., is a brilliant young pianist. That she is possessed of outstanding ability is shown by the fact that she has headed the list at all examinations and has succeeded in obtaining honours on each occasion. In competitions she has won first position on every performance. She has now taken up music professionally, and is proving to be a very gifted teacher.

Mrs. I. Brown is a young lady possessed of considerable musical ability, being an accomplished pianist in addition to being the possessor of a beautiful



Choir of the Aramoho Methodist Church, which is to give a concert on Sunday evening, February 16, to be broadcast on relay by 2YA. Mr. W. A. Grace, the organiser of the concert, is in the centre, slightly to the left of the front row. Miss Gladys Marshall, a talented young pianist, is the fourth from the right in the front row.

—Testla Studios, photo.

lyric soprano voice. Mrs. R. Senior-Partridge has a very full, rich soprano voice, and has delighted many audiences. She should be heard to advantage as a radio performer.

Misses Constance and Nita Ollett, though very young singers (the latter is still attending school), are possessed of voices full of promise. The former is a soprano with a great range, very sweet and powerful. The latter has a very rich contralto voice, amazing in one so young.

Programme.

Festival Hymn: "We Are Marching" Choir.
Pianoforte Solo: "Scherzo," by D'Albert.

Duet: "Garden of Your Heart" Miss Gladys Marshall, A.T.C.L., L.T.C.L.
Part Song and Chorus: "Will You Meet." Mesdames Brown and Partridge.
Soprano Solo: "Sing Joyous Bird." Choir.
Choral March: "For God and Right." Mrs. R. Senior-Partridge.
Hymn: "Steer Me, O Love Divine." Choir.
Mixed Quartet: "In Summerland."

Mesdames Partridge and Grace, Messrs. Smith and Grace.
Choral March: "Royal Standard." Choir.
Solo and Cornet Obligato: "O Dry Those Tears." Mr. and Mrs. I. Brown.
Duet and Chorus: "Hymn to Love." Misses C. and N. Ollett and Choir.
Solo and Chorus: "The Everlasting Arms." Mrs. R. Partridge and Choir.
Male Quartet: "When Storms Around."

Messrs. Black, Smith, Grace, and Hambly.
Duet and Chorus: "The Greater Gladness."

Misses C. and N. Ollett and Choir.
Choral March: "The Coming Conquest." Choir.
Double Quartet: "A Prayer for Light."

Mesdames Hambly, Grace, Buller and Miss Ashmore, and
Messrs. Black, Smith, Hambly and Grace.

Hymn: "The Unfailing Light" Choir.
Choral March: "Warriors of the Lord." Choir.

Across the Tasman

Impending Australian Broadcasts

ON February 13 a splendid programme of mirth and melody provided by the Humphrey Bishop Light Opera Company will be relayed by 3AR from 2FC Sydney. Many listeners are familiar with the delightful soprano numbers by Miss Thelma Trott, and the breezy humour of "Scratcher" Ross, who has entertained appreciative audiences all over the world. Some popular operative numbers find a place on this well-balanced programme, which caters for all classes of the listening public.

THE "Odd Men Out" will have a most interesting discussion from 3AR on February 15 on "The Old Plays were Good Plays." A novel feature in the debate will be introduced by Mr. James Madden, the well-known actor, who, while upholding the merits of old plays such as "Our Boys," "The Octoroon," and "Colleen Bawn," will read extracts from each.

AT 8 p.m. on February 14 a special programme of classical selections which will meet with the most discriminating taste of the music-lover is to be presented from 3LO. Weber's ever-delightful "Oberon" overture, which captures completely the elfin atmosphere of Shakespeare's "A Midsummer Night's Dream," will be followed by "Caro Nome," surely one of the most celebrated of operatic arias. Then will be played a movement from the seldom-heard "Emperor" quartette by Haydn, and the entertainment will conclude with the Allegro con Grazia from the "Symphonic Pathétique" by Tschalkowsky.

THE Marrickville Citadel Band, which has been delighting listeners for several years under the name of the Marrickville Silver Band, will present a well-chosen programme from 2BL on February 14. This will include the following numbers:—(a) March, "Departed Heroes" (Coles); (b) cornet solo, "Largo" (Handel); (c) fantasia, "Songs of the British Isles" (arr. Goldsmith); (d) waltz, "Otra" (Sutton); (e) selection, "Gems of Favourite Melody" (arr. Hawkes).

ON February 14, from 2BL, Dr. Harold Norrie, the popular speaker whom listeners know so well, will commence a series of talks on "Fighting the Invisible." The talks will deal with the ceaseless war between man and disease and the first will be "Ancient and Savage Peoples—their Ideas and Precautions." To the ancient man, death in the form of accident, war, execution or encounter with wild animals could be understood, but the insidious onset of disease was more mysterious. Many strange beliefs have been held and many varied have been the precautions taken to guard the human race from the deadly attacks of the invisible foe. The belief in an omnipotent and beneficent deity (or series of deities) responsible for the good things of life gave rise to a corresponding idea of demons which were accounted the cause of misfortunes. Health was no exception to the rule, hence we find primitive peoples throughout the ages propitiating the gods or casting out devils for the cure of the sick and the relief of pain.

The New Zealand Radio Record

—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

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

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

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

N.Z. RADIO PUBLISHING CO., LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, FEBRUARY 14, 1930.

IN THE EDITOR'S MAILBAG.

AN Editor's Mailbag is always interesting. He is a receptacle for the views of his readers on many topics and many angles. He necessarily does his best to sift the chaff from the wheat, and while appreciating to the full the spirit of helpfulness which actuates his correspondents, he must be guided in his decisions by consideration of the greatest good for the greatest number. This week we have received two letters from correspondents, making suggestions which it will be advantageous to discuss with a view to illuminating the purpose behind our conduct of the "Radio Record." The first letter, written at some length and in quite considerate fashion by a dealer, explained that his principal clientele consisted of practical constructors who liked to dabble in the experimental side of radio. His and their suggestion, therefore, was that it would be an advantage if the space devoted to programmes in the "Radio Record" was diverted to constructional matter; that, as the daily newspapers publish the radio programmes, it was unnecessary for the "Radio Record" to publish them; that not only the programmes, but much of the "piffle" referring to items given over the air, should also be eliminated in favour of "hard technical matter" for these enthusiasts.

THIS suggestion illustrates the fact that we all see things from our own point of view. It also indicates that these particular enthusiasts, living in the suburb of a large city, were not acquainted with one of the prime purposes of the "Radio Record," which is to give to distant country listeners, and even city listeners, the opportunity of learning a week beforehand the programmes for each evening, so that they can have the opportunity of selecting the programmes to which they will devote themselves, and perhaps invite friends to participate in their pleasure. That purpose obviously would be utterly defeated if publication of programmes ceased. While the daily newspapers do publish programmes on the day of rendition, that benefits only those who are reached by them on that day, and does not give the benefit of foreknowledge offered by the "Radio Record" in complete weekly programmes in advance.

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WELLINGTON - PALMERSTON
NEW PLYMOUTH

A FURTHER complaint by this contributor was that there was not enough constructional matter dealing with battery sets in the "Record." In this field we have to determine the relative interest of our subscribers. The constructor, we think it will be admitted, is not so numerous now as he formerly was owing to the arrival of the a.c. set. He is a relatively small section of the radio world—an important section and a voluble section, but not a main section. The biggest section of those who support radio comprise, we believe, those ordinary individuals who appreciate radio, not from the technical side, but from its service side—i.e., they like the music for the sake of the music, the speech for the sake of its news and information, and are not interested in the slightest degree in frequencies, power packs, and all the other paraphernalia dear to the heart of the constructor. Each of these people is, however, entitled to consideration and we have to do our best to determine the relative space values.

THE second correspondent also had some suggestions to make. He conceded the necessity for publishing the programmes, but he wished them to be placed at the end of the issue, so that they could be torn out and discarded when he was filing the news part of the paper. That attitude is complimentary to the value of the news and technical articles in the publication, but for principles in connection with make-up and journalistic value, we do not propose to adopt it. The programmes, we consider, constitute the heart of the "Record," and even at the risk of disobliging this correspondent—who, by the way, displayed rather magnificent eloquence—we are not able to comply with his suggestion. "Diogenes," for that was the pen-name he adopted, also wrote at length disapproving of the pink colour of our cover. In that respect we think his eloquence and sense of values misplaced and his name ill-chosen. We could not conceive the real "Diogenes" expressing perturbation upon so minor a point. Our correspondent might like a stronger pink, a pale blue, or a delicate shade of magenta, but the paper manufacturers have a limited scope of dyes within their economic range, and we are afraid we could not undertake the responsibility of arranging the colour of the cover to suit each individual subscriber.

CRITICISM was also directed against the new Home Section in the "Radio Record." Here again the interests of our feminine readers are ignored by the writer. We have received many letters from feminine readers complaining of the abandonment of the women's pages that were formerly incorporated. Women do play a most important part in all aspects of life, including radio. If the woman of the house does not like radio, heaven help the pleasure of the man in that sphere! On the other hand, a woman interested in radio and the pleasure it can afford, adds definitely to the happiness of the home. Therefore, women are entitled to some pages in the "Record." The new section is an addition to radio interests, and the support already given it shows, we think, that it meets a felt want.

Miss Edith Harrhy

Mr. Will Bishop

Return Visit to New
Zealand

English Entertainer at
2YA

THIS very popular entertainer, who toured New Zealand a year ago, and performed at all four stations, under engagement to the Broadcasting Company, will shortly be heard again on the New Zealand ether.

Miss Harrhy is a Welsh singer, and very talented pianiste, now resident in Sydney. She is a composer of high merit, and specialises in singing her own compositions. Her first broadcast during her coming visit will be from 1YA on March 28.

APPEARING on Saturday evening's programme (February 22) at 2YA will be a very interesting performer in the person of Mr. Will Bishop, a name well-known in the theatrical world in London. Prior to his arrival in New Zealand where he proposes to reside, he had considerable experience in broadcasting. He is also a song writer of repute, and writes all the songs (music as well as words) for the famous English variety artists, Tom Clare and Norman Long. He is still under contract to write for these two music hall performers.

The items which Mr. Bishop will present on Saturday evening, February 22, will be his own compositions.

"Good Morning, Bill"

Farce to be Produced by
2YA

THE next play to be produced at 2YA by Mr. Victor S. Lloyd will be P. G. Wodehouse's farce, "Good Morning, Bill." This is written in Wodehouse's best style, the dialogue being excellent, and the plot well worked out. The play deals with the adventures of one Bill Paradene, a lady doctor, Bill's golf-mad uncle, and a well-meaning friend in the person of Lord Tidmouth, known to his intimates as "Squiffy," although his conduct throughout is such as to suggest nothing but the behaviour of a gentleman. There is also a rather turbulent young person in Lottie Burke, who makes things a little uncomfortable for "Bill" at times, and the dialogue at the end of the play is bound to be of interest to dairy farmers.

The cast of principal characters will be:

Dr. Sally Smith .. Miss Elsie Lloyd
Lottie Burke Miss Susie Painter
Sir Hugo Drake .. Mr. E. R. Render
Lord Tidmouth .. Mr. R. A. Painter
Bill Paradene .. Mr. Victor S. Lloyd

This play is to be broadcast on Monday, February 17.

"Absolutely Correct"

Time Signals from 2YA

COMMENCING from Friday, February 14, 2YA will broadcast scientific time signals twice daily from the Dominion Observatory, Wellington. The times at which the signals will be broadcast will be 4, 4.1, 4.2, 7, 7.1, and 7.2. The signals will be of three seconds' duration.

It is, of course, the practice of 2YA to relay the striking of the clock in the Wellington Post Office, and while this time is correct for all ordinary purposes, there is a certain section of listeners, particularly those scientifically inclined, who require the time to within a second's error.

The signals to be broadcast from 2YA will be superimposed on the ordinary broadcast, but will hardly be noticed by listeners unless specially on the lookout. The new signals will in no way interfere with the present system, followed by 2YA of broadcasting the G.P.O. chimes, which is a particularly pleasing way of opening a broadcast programme. The new signals will, however, be scientifically correct, and as such will be very much valued by those listeners who require the extreme accuracy.

For the last eight years the Observatory has been sending out time signals through the Wellington Radio Station on a wave-length of 600 metres, the sending key at the radio station being automatically operated by the Observatory clock. This service has been greatly valued by shipmasters.

WANTED AND FOR SALE.

For column of casual advertisements see page 31.

Opening of Dunedin Town Hall

A Week of Musical Treats

EXTENSIVE preparations have been made with respect to the celebrations attached to the opening of the new Dunedin Town Hall. The entertainments which have been arranged are of a standard well in keeping with the magnificence of the building which is to be opened. These entertainments will commence on Saturday evening (February 15) and will continue during the following week.

Saturday Evening.

THE official opening ceremony takes place on Saturday evening at 8 o'clock. A procession headed by the Mayor, Mr. R. S. Black, will advance to the stage, when the National Anthem will be sung. Mr. W. G. Price (musical director) will be at the organ, Miss Meda Paine will be the soloist, and Dr. V. E. Galway the conductor. Then will follow an address by the Mayor and the singing of the festival "Te Deum," with accompaniment by an orchestra of stringed instruments, brass and organ. There will be a vote of thanks to the donors of the organ, the speech on behalf of the city being made by Councillor H. L. Tapley, C.M.G. A further vote of thanks to the Bristol Piano Company and Messrs. Chas. Begg and Company for gifts of concert grand pianos will be moved in a speech by Councillor J. J. Clark. After the singing of "Worthy is the Lamb" and "Amen," the evening's programme will close with the singing of the National Anthem.

Sunday Afternoon.

ON Sunday afternoon the opening of the new Town Hall will be celebrated by a service held under the auspices of the Council of Christian Congregations. The programme will include the singing of "Jerusalem" and the "Hallelujah Chorus" by the choir. There will be an address by the Rev. W. B. Hamblett, president of the Council of Christian Congregations.

Monday Evening.

MONDAY evening's programme will be presented by the combined male voice choirs of Dunedin (Royal Dunedin Male Choir, Returned Soldiers' Choir and Commercial Travellers' Association) and the Dunedin Orchestral Society.

The first half of the programme will be devoted to the rendition of the symphonic ode, "The Desert." The soloist will be Mr. Alf Walmsley. Dr. V. E. Galway will conduct. In the second half of the programme the Dunedin Orchestral Society, under Mr. Jas. Coombs, will play the "Grand March" from "Tannhauser," Ronald's "Garden of Allah," "Traumeri," "Chanson Triste" and "Moses in Egypt." Numbers by the respective choirs will include Buck's "Chorus of Spirits," "Swing Low Sweet Chariot," "Shenandoah," "Autumn Sea," "Martyrs of the Arena," and "Land of Hope and Glory," the last being by the combined choirs, under Mr. John T. Leech. The soloist in "Chorus of Spirits" will be Mr. W. Satterthwaite.

Organ Recital for Tuesday.

ON Tuesday evening the first organ recital by Dr. W. G. Price, of Melbourne, will be given. Assisting vocal artists will be Madame Winnie Fraser and Mr. John T. Leech, with the Dunedin Philharmonic Society, under the conductorship of Signor Squarise. The official accompanist will be Mr. Charles A. Martin, L.A.B. The programme to be presented will be a musical treat.

"Messiah" on Wednesday.

ON Wednesday evening Handel's "Messiah" will be presented by the combined choirs of the city, consisting of the Dunedin Choral Society and representatives from the Royal Dunedin Male Choir, Returned Soldiers' Choir, Commercial Travellers' Choir, Miss Ida White's Ladies' Choir, and Miss Meda Paine's Ladies' Choir. The soloists will be Miss Meda Paine, Miss Mary Pratt, Mr. Ernest Drake, and Mr. Lawrence A. North. The conductor will be Dr. V. E. Galway, and the chorus master Mr. H. P. Desmoulin. The opening number for the evening prior to the "Messiah" will be the singing of the National Anthem, as arranged by Sir Edward Elgar for choir, soloist, orchestra and organ.

Friday Afternoon for Children.

FRIDAY afternoon is set aside for a children's celebration, when pupils from all the schools in the city will take part. This will commence at 2 p.m. The singing of the National Anthem, a civic address and a brief organ recital will occupy 20 minutes. The entertainment of the children will comprise brass band and orchestral selections, part-songs and choruses, action songs, rhythmic dances, a violin solo, a playette, folk dances and a physical display.

The entertainments on Saturday, Monday, Tuesday and Wednesday evenings will be relayed to 3YA for broadcast from the Christchurch station.

Personal**MR. E. J. BELL.**

MR. E. J. BELL, who has for some years past been a valued contributor to 3YA programmes as a reviewer of books, will broadcast his final talk on Monday, February 17. Being public librarian in Christchurch, Mr. Bell not only has a great knowledge of books behind him but is the first to be introduced to all the latest prints, and he has had a very wide and appreciative circle of listeners, who will much regret that extreme pressure on his time has compelled him to give up the broadcast work for which he has such special qualifications. Mr. Bell is the self-same "Uncle Jack" who was such a popular radio personality with the children a few years back.

Afternoon Chats

Interesting Talks from
4YA

VERY instructive talks, presented in an entertaining manner, are Wednesday afternoon features at 4YA for the benefit of the lady listeners. These talks are being given by the Home Science Extension Department of the Otago University under the auspices of the 4YA Primary Productions Committee. The titles of the next talks are as follow:—

- February 19.—"Best Method of Dealing with Unpopular Tasks."
- February 26.—"Vegetable Dishes—Eat More Vegetables."
- March 5.—"How to Use Left-over Foods—Dainty Dishes."
- March 12.—"Everyday Tasks Made Easier—Are Your Working Surfaces the Right Height?"
- March 19.—"Fixed versus Movable Equipment."
- March 26.—"Diet for the Runabout Child—the Place of Milk in the Diet."
- April 2.—"Is Father's Food Fit for Baby?—Pace of Meat in Child's Diet."
- April 9.—"Sugar. Its Place in the Diet of Young and Old."
- April 16.—"Some Suggestions for Children's Parties."
- April 23.—"Rest, and Restful Pictures."
- April 30.—"What are Vitamins?—Why Are They Necessary?"

"The Desert"

To be Heard from Dunedin

ONE of the items on Monday evening's entertainment at the new Town Hall in Dunedin will be a symphonic ode, "The Desert," to be sung by the combined male choirs of Dunedin assisted by the Orchestral Society.

"The Desert" is a highly remarkable work of its kind. It is on this that the chief fame of the French composer Felicien Cesar David is founded. In it he has embodied the impressions of his life in the East. The ode consists of three parts subdivided into several vocal and orchestral movements, each introduced by some lines of descriptive recitation. The subject is the mighty desert itself, with all its gloom and grandeur.

On this background is depicted a caravan in various situations, singing a hymn of fanatic devotion to Allah, battling with the simoon, and resting in the evening by the fountain of the oasis. The vast monotony of the sandy plain, indicated by the reiterated C in the introduction of the opening prayer to Allah, the "Danse des Almees," the chant of the Muezzin, founded on a genuine Arabic melody—are rendered with a great vividness of descriptive power.

Perhaps you may not know much of loud-speaker theory, the why and wherefore of this and that, perhaps technical features baffle you—but you do know a good speaker when you hear one. Well, hear the M.P.A. Popular Cabinet. It will give you the thrill of your life, and, what's more important, it's priced so you can own one.

Auckland Notes

(By "Call Up.")

THE special broadcast by 1YA on relay of the concert which the Hamilton Orchestral Society were going to give on board a steamer moored in the Waikato, could not be carried out on Wednesday evening, as no boat was available. The 1YA authorities only received short notice of this, but arranged a studio concert in its place.

LOVERS of classical music who listen to 1YA will be pleased to hear that a series of nights devoted to individual composers has been arranged. The first will be a Schubert night on February 21; March 11 will be a Verdi night, and the evening of March 31 will be devoted to Haydn, that being the anniversary of his birth. 1YA hope to make a feature of famous composers' works on their anniversaries.

LAST Tuesday (February 4) evening, Uncle George (Rev. George Coats), was given a farewell by the other Uncles and Aunts of 1YA on the occasion of his last appearance before the microphone before his departure for a lengthy holiday abroad. Uncle George has been with 1YA for two years, and during that time has endeared himself to a large number of Auckland children.

CINDERELLA (Miss Palmer), of 1YA, will be away on a fortnight's holiday after February 15. Mr. Culford Bell, announcer, will resume on February 16.

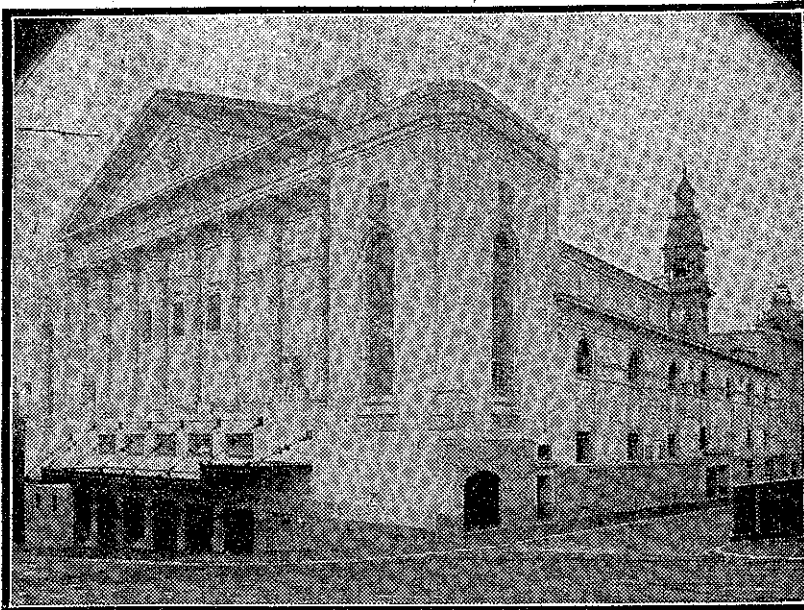
SEVERAL people have expressed their opinion to "Call Up" that the switches between the studios at 1YA leak, quoting as evidence the interference of an orchestra with the concert from the Lewis Eady Hall on Friday night (January 31). They believed that the interfering music came from the

1YA Orchestra practising in one of the station studios. There certainly was interference, but it came from the Majestic Theatre, where someone had thoughtlessly inserted a plug, so that the outside music was from the talking pictures.

MANY listeners would appreciate a fuller news service, but copyright restrictions prevent this. There is a suggestion that the Broadcasting Company should be admitted as a member of the New Zealand Press Association, and that each station should receive all the association's news, but this would mean a great deal of extra expense and labour for the station officials in editing and arranging the "copy." Another suggestion is that there should be a Sunday night news bulletin, as is given in England and elsewhere, but this is

impossible at present owing to the fact that no news is received on Sundays. The main weakness in the 1YA news service at present is that, with the silent night on Monday, country listeners hear no news between Saturday and Tuesday night, which provides some of them with a real grievance.

AN experienced Auckland electrical man, with a proved and tested eight-valve set assures "Call Up" that reception of 1YA is seriously interfered with in the south-eastern part of the province by the Coromandel Range, which contains heavy mineral deposits. He said that for several months recently he had his set in Morrinsville, and could never get 1YA satisfactorily, although southern stations came in excellently.



Dunedin's New Town Hall.

Photo, C. Collins.

Subscription Increased

OWING to the increased cost of production of the "Radio Record," due to enlargement and the addition of a coloured cover, it has been found necessary to increase the annual subscription to 12/6 in advance or 15/- booked.

Trade Personals

IT is not often realised just how much work is necessary before a new product is placed upon the market. Different appliances and accessories in the radio world come and go, some stay, and are successfully marketed, others just die. When a line has been thoroughly marketed, few consider just who is responsible for its success.

A comprehensive range of radio products has been introduced by Mr. E. R. Boucher, radio department of Spedding, Ltd., who created their radio business. In 1922 he introduced Burgess batteries, followed by Mullard valves and Brown loudspeakers, and in quick succession the Rola speaker, Polar Twin receivers, Federal battery receivers, Webster pickups and power amplifiers, Magnavox dynamic speakers and the Majestic electric radio receiver. Of the last-mentioned over 3000 were sold during last year. To keep posted with the latest developments, Mr. Boucher spent seven months abroad during 1928, studying radio conditions.

Mr. Richard Godby, who arrived by the T.S.S. Maheno on Friday from Australia, is to join the radio staff of Harrington, Ltd., Wellington. For some years prior to coming to New Zealand Mr. Godby was connected with the British-Australian Radio Co., of Melbourne.

Mr. G. C. Moses, who has been representing Messrs. Abel, Smeaton in Whangarei and the northern districts for some time has now been transferred back to their head office, and Mr. A. Temple has taken back his territory.

Can you solve a difficult problem?

See

"TRIALS IN TACT"

(on page 27 of this issue).



Saturday last 2YA broadcast a description of the athletic sports at the basin Reserve. The photo shows Dr. Peltzer winning the 880yds.

AN Australian "B" class station, operating on a wavelength of about 255 metres, must have annoyed many New Zealand listeners, for it was loudly audible after 11.30 o'clock one night last week, and yet no call sign was given. The items comprised gramophone records of an attractive order. The volume was surprising, and fading was never severe enough to render the music inaudible thirty feet from the loudspeaker.

STATION 2YA, Wellington, last week was heard echoing around the world through a remarkable "stunt" accomplished by means of 2ME, Sydney, which picked up 2YA's programme and re-broadcast it on a short wavelength to 2XAF, Schenectady, New York State. The latter station re-broadcast it so that probably many a short-wave listener in Great Britain and the Continent heard the music which emanated from the 2YA studios. Only a decade ago people of average intelligence would have considered the proposal of such a feat as absurd.

RESIDENTIAL flats in the American cities house the majority of the inhabitants, but in New Zealand a very minute proportion of the public dwell in flats. Therefore, in New Zealand loudspeakers are not so apt to become a nuisance to non-radio neighbours. In a letter to the forty-six magistrates in New York City, Chief Magistrate William McAdoo expresses the opinion that a radio loudspeaker, under certain conditions may be classed as a nuisance. His letter said: "As you know, there is a widespread complaint all over the city by people who are annoyed and kept from sleeping by the loudspeaker radios in apartments, tenement houses and other buildings. Many complaints come to this office urging me to ask you gentlemen to treat these cases seriously. The person who starts a loud-speaker under conditions where it is found to annoy and disturb other people and keep them from proper rest, in my opinion, is guilty of a disorderly act, and where it is persistent and annoys a considerable number of people, he or she can be charged under Section 1530 with maintaining a nuisance."

A SERIOUS error into which some novices fall is to connect their loudspeakers wrongly to their sets. They connect the plus side of their loud speakers to the negative terminal or negative side of the plug which is inserted into the set. They merely follow the principle adopted in connecting "B" batteries in series. This system, however, does not apply to connecting a loudspeaker to a set. In the latter case the instruction to be followed is plus to plus and minus to minus, or the loudspeaker will be damaged. In practically all a.c. sets there is no necessity to worry about the loudspeaker connections, as these sets have output units embodied in them which prevent damage to loudspeakers no matter which way they are connected.

A MELBOURNE writer stated recently: "The New Zealand Trio, each artist a soloist of repute, will be heard from 3LO on February 9 in some vocal and instrumental numbers. Frank Johnstone (cellist) and Myra Montague (pianist) are well known to listeners, and Syd Exton, the favourite broadcasting tenor, complete a trio which will provide many

delightful programmes. Frank Johnstone will be remembered as the leading 'cellist of New Zealand, and the organiser of a unique orchestra composed entirely of 'cellos, who gave many successful recitals. Myra Montague secured the gold medal as champion pianist for the whole of New Zealand at the age of fourteen, made her debut at the Christchurch Exhibition, and was associated with the famous composer Alfred Hill in recital and chamber concert work. Syd Exton, another New Zealander, has sung to appreciative audiences in France, England and Australia, and specialises in old-time numbers such as "Come into the Garden, Maude," and "Sally in Our Alley."

MANY listeners cannot obtain a short lead to the nearest water-pipe, and an "earth" lead more than 12 feet in length is undesirable. A sheet of old galvanised iron about 4 feet by 2 feet buried just below the surface of the ground makes a cheap and efficient substitute. The earth wire, if stranded, should be unwound and each strand carefully soldered to the sheet of iron at well-spaced points along the 4 feet edge. The sheet of iron should then be buried edge downwards, the edge to which the wires are soldered being uppermost and just covered by the soil. In dry weather a few buckets of water should be poured over the ground where the galvanised iron is buried.

NOVICES entertain some crude ideas concerning radio reception. A beginner proudly showed the writer, recently, his newly-erected aerial, which was attached to 45ft. masts. Unfortunately for him he had suspended his aerial over a tree, which reached within ten feet of the aerial, and thus greatly reduced its efficiency. If he had placed one mast in a better position, the aerial would have had the full benefit of its 40ft. height. It should be remembered that the efficient height of an aerial is the distance from the horizontal wire to the nearest grounded object, whether a building, a tree, hedge or fence.

"A. C." (Palmerston North) writes asking for advice on the care and operation of a "B" eliminator. (1) Always switch on the "A" battery before the eliminator, and always switch off the eliminator before the "A" battery. Failure to follow these instructions will eventually damage the eliminator. (2) The amplifier's bias battery voltage should be checked with a voltmeter about once a month. If the bias drops much below its correct value, greater current will be drawn from the eliminator. This will reduce the life

of the rectifying valve in the eliminator, and will damage the amplifying valves in the receiving set.

NEW Zealand radio enthusiasts are evidently still building their own sets. "Diagonal" (Upper Hutt) writes: "Kindly give me a hint on how to cut a front panel dead straight." The panel should be clamped between two pieces of strap iron, held firmly in a vice. The edges of the iron bars should lie along the line to be sawn, and the teeth of the saw should be continually pressed against them. The rough edge of the panel can be smoothed off with a fine flat file.

"ASTRA" (City) writes complaining that he has had several of his a.c. "heater" type detector valves burn out after a few days' use. This is clearly a case of too much voltage, which may be due to a breakdown of a transformer in the set or too much voltage on the household mains. Line voltage has given trouble in the past, but complaints concerning this trouble are rare nowadays.

A FRIEND has asked "Switch" whether a receiving set with a loud-speaker embodied in it or one which has a separate loudspeaker is the better. This is largely a matter of individual taste. The set with the loud-speaker embodied in it takes up less room, being more compact than the set which has an independent loud-speaker. On the other hand, a loud-speaker which is separate from a set can be placed in other rooms or out on a verandah, balcony or lawn, by the use of a long cord.

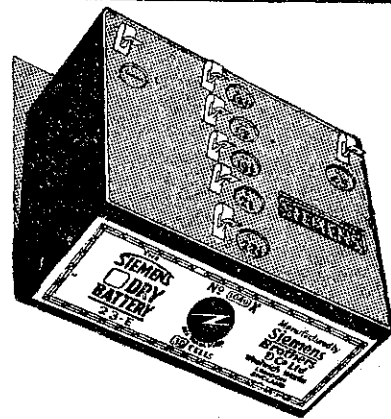
THE vagaries of long-distance reception continue to disappoint beginners and puzzle experienced listeners. Abnormal weather conditions have been recorded all over the world lately. Down in the Antarctic, Commander Byrd reports that, contrary to the rule, the ice-pack has not broken up this summer, and the relief ships have been unable to get within reach of the expedition. In North America the winter has been abnormally severe, and wolves have come within 30 miles of Chicago. In South Africa and Queensland there have been floods in mid-summer, and so on. No wonder the ether has been upset.

THE Japanese station operating on a frequency slightly higher, on a wave-length a little lower than 4QG, Brisbane, has been coming in fairly well after 11.30 o'clock at night. Only the other evening this Jap was audible 60 feet from the loud-speaker. The item being transmitted was a song by a male vocalist who had a guitar-like

instrument to accompany him. The item was of the usual dirge-like type with falsetto notes in abundance. The song occupied twelve and a half minutes, and then there was a "tacet."

A CORRESPONDENT, "Kilbirnie," (Kilbirnie), has asked "Switch" what is the power used for the public address system operated at the Kilbirnie motor-cycle speedway by Mr. "Geoff" Shrimpton, the well-known amateur transmitter. Mr. Shrimpton has informed the writer that the music is operated with 25 watts of undistorted power, and his announcements have 35 watts at the back of them.

THERE was plenty of enjoyment listening-in in the pre-"YA" days, before our four big stations went on the air, and those few misanthropists who now growl at our broadcast service should have heard the "broadcasting" in the early days. Many found far more interest in listening to the amateur transmitters chatting to each other and broadcasting records than listening to their local broadcasting station. The latter would perform creditably at times, but it would develop periods of poor transmissions and then listeners would protest. One night some bright youth rang up one of these prehistoric broadcasting stations and asked, "Would you kindly tell me when the saw-mill is going to close down?" He didn't wait for a reply.



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AUCKLAND.

Identification Wanted

COULD any listener give particulars of an amateur station which was on the air on Friday, January 31? Wave-length about 250 metres (1200 k.c.). Records were being played and the announcer was asking for reports on the transmission. The volume was very loud, but the reception was somewhat distorted. I couldn't understand the call, but it sounded like 4ZP, Invercargill. It was undoubtedly a New Zealand station.—Crosley (Petone).

[Probably station 4ZC, Invercargill. See reports under "Stations Identified."—Ed.]

ON January 31 at 8 p.m. I received the new Invercargill station, the call-sign of which I took to be 4ZC. Wavelength, about 256 metres (1170 k.c.). Also, on about 250 metres (1200 k.c.) I received a station announcing a call-sign of 2ZC. I think the announcer was a lady. I would like further particulars of these two stations if possible.—W. R. Dakers (Morrinsville).

LAST evening I was able to tune-in an American station, just below 2YA's frequency, but not loud enough for WLW, Cincinnati. This station was not loud enough for me to hear the call, so I hope some listener-in is able to identify it.—W. R. Dakers (Morrinsville).

COULD anyone identify a station broadcasting on February 5 at 9.30 p.m. about 2 degrees below 2KY, Sydney? — L. Dunedin, was the call. One number played was "There's a Rainbow Round My Shoulder." Strength, about R5.—"Monitor 3" (Wanganui).

[Probably 4ZL.—Ed.]

"N.Z. Radio Listener's Guide"?

Dealers and booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington. Available everywhere.

THE D.X. CLUB

Views and News.

Stations Identified

IN the "Radio Record" of January 24, Mr. S. Ellis, Okato, asks for the wavelength of 4ZI, Invercargill. I had this station on Saturday, January 25, about midnight, and he announced that he would commence transmitting at 10 a.m. Sunday. The call is 4ZC (not 4ZI) and his frequency is about 1150 k.c. (261 metres), the same as 2ZM, Gisborne.—Dynamic (Lower Hut).

WITH regard to questions asked by two listeners in the D.X. notes of your issue dated January 31, T. Pascoe (Epsom) writes of a station with a call sounding like 3LO near Kawau Island. This is station ZLO, owned and operated by the P. and T. Department, and is situated on Kawau Island. They work duplex telephony with the Post Office in Auckland. P. Circuit (Hastings) inquires as to the call of two U.S.A. "hams" on the 3500 k.c. band on January 17. According to my log-book, W6KT was the only American 'phone heard here on that date—the other station would probably be either W6BJQ or W6ABF. W6BJQ is the loudest U.S.A. 'phone station on this band at the present time.—Mark H. Churton (Auckland).

DX Topics

LAST night, February 5, at about 8.30 p.m., I received station KTM

at good volume. Wishing to make certain whether it was KTM or KGM, I listened to the call sign several times. I am now perfectly satisfied that this station's call-sign is KTM, Los Angeles. E.H.C. (Tokaanu) has probably hit the nail on the head in his letter in this week's issue. Formerly this station's call-sign was KTM, Santa Monica.—W. R. Dakers (Morrinsville).

AS several have inquired re the power, etc., of station WTIC, Connecticut, the following particulars may be of interest. The reception of this station was first reported by "Kauspanka"—I believe on August 29—and by myself on August 31, 1929. Volume was tremendous for such a distance, and at the beginning of November I received the verification I had sent for. There were four other reports, including one from "Kauspanka" and one from New Plymouth—also on a 4-valve set. This station is operated by The Travellers' Broadcasting Service Corporation, Hartford, Connecticut, and is owned by The Travellers' Insurance Company. Power, 50 kilowatts; frequency 1060 k.c. or 282.8 metres. They have worked on a power as high as 200 kilowatts. They were dividing time with WBAL, Baltimore, but they may be on full time now.—C.G.L. (Palmerston North).

ON the evening of January 28 I picked up, at 10.20 p.m., station 4ZP, operating from 155 Layard Street, North Invercargill. Wave length was approximately 253 metres (1175 k.c.). The station was testing when I first picked it up at fair volume, which increased till the station closed at about 11 p.m. The official opening of this station is, I have heard, on February 11, and it tests after 4ZI closes down on Saturday night. The operator also said he would be on test on Friday, January 31, at 7 p.m., and gave some information about his station. Has any other listener in the north heard 4ZP? I saw a reference to 4ZI in a recent issue (January 24, from Mr. S. Ellis, Okato), and I, too, would like some more information concerning both 4ZI and 4ZP; and the reported Hamilton station, 1FP. 4YA, Dunedin, has been heard on different hours (nights) since January 23 on 291 metres (1030 k.c.) testing after closing hours. The strength at which I was able to receive it on the new wave-length was a great improvement on its present wave-length. I have heard other listeners mention this fact, too, so I hope the change will be made permanent.—A. E. Allen (Avondale).

I HAVE added the following stations to my log this year: KMMJ, 740 k.c. (405 metres), Nebraska; KLX, 880 k.c. (341 metres), California; WMBI, 1070 k.c. (280 metres), Chicago; 4ZP, 1200 k.c. approx. (250 metres), Invercargill; JOCK, 810 k.c. (370 metres), Japan. I have also logged another two Americans, but I am not quite sure of them. The first I logged last

night (February 3) on about 1460 k.c. (205 metres). This came in at weak speaker strength, and I took the call to be WTHI, Chicago. The second I heard to-night, closing down at 9 o'clock. I picked it up at 7.50 p.m., but left it and came back later. This station sounded like KFB, —, California. It was operating on about 990 k.c. (303 metres), with volume enough to be heard nearly a hundred yards away. If any other listener heard the location of this latter station (I think it was Hollywood) would he please send in a report as I would like to get it verified. This station KFB is my ninety-ninth, and I hope to complete my century soon. I think the station on 780 k.c. (384 metres) which a few listeners have heard lately is KTM, not KGM.—Kauspanka (Hastings).

I WOULD like to thank readers who supplied information re Japanese stations and also 3LG, etc. Since writing I have been informed that station VK3LG, Newport, is an amateur in Victoria. Another amateur I have heard operating about 2.30 in the morning is VK3AM, Melvern, Australia. Have any readers heard these stations? To-night (January 5) I had station 2ZH, Napier, on a wavelength one degree above 2YB, New Plymouth, at volume R7, playing records till after 10.30 o'clock. Is this a new station? I had a station on same wavelength a few nights back and the call sounded like 2ZK. I thought it would be the Wanganui station on a different wavelength, but apparently it was this new station 2ZH. Or has 2ZK changed its wavelength? I have also had the new Invercargill station very loudly on several occasions.

Is the call-sign 4ZG or 4ZP? I can never get it distinctly as it is generally mushy and fading badly. It comes in on 3ZC's wavelength. Is there any other Californian station besides KNX operating on 2ZF's wavelength as I had one on February 4 about 8.30 p.m. I could only hear "California" during the announcements. Do the Majestic Radio people run a broadcasting station, as I heard an American recently on about 306 metres (975 k.c.). All I could hear was someone saying that they were glad to be back at the "Majestic —" etc. Transmission faded out after a few minutes, and I never heard it again. I have heard a very weak station lately—generally after 11.30 p.m. only—a little above 2YA and half a degree below WLW, Ohio. Would this be 6WF, Perth? I imagine the wavelength is rather low, though. Could you tell me the best time of the year for receiving American stations?—Westrad (Woolston).

[Conditions for long-distance reception generally improve during the winter.—Tech. Ed.]

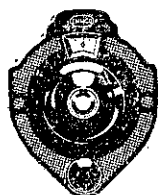
DURING the last week of January I received station KWKH two or three times, and I wish to point out that this station is situated at Shreveport, Louisiana, not at Shreveport, Indiana, as given in the "Listeners' Guide"; and not at Kennonwood, Indiana, as given in "All About the All-electric." Re station KBCA. Last night (February 4)—incidentally a very good night for American reception—I received two stations, either of which may be KECA. One was on about 205 metres (1460 k.c.) and the other on about 209 metres (1430 k.c.).

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Both were too weak to hear call letters.—W. R. Dakers (Morrinsville).

[All our lists of station call-signs are carefully prepared from the latest American call-book magazines to hand. As is the case with the error you indicate, the particulars given in different magazines are sometimes conflicting. Incidentally, the address of KWKH as given in the latest American call-book is Kennonwood, Louisiana.—Ed.]

I LOGGED my 101st station to-night, February 6. I bagged the hundredth last night with CKY or CKOI, Vancouver, British Columbia. I heard this at fair speaker strength on 730 kcs., with a request programme for somebody's ginger ale. My latest station is WJDX, Natchez, Mississippi. This station was heterodyning 2YB, but was just about two or three kilocycles higher, so that it was possible to cut most of the music out from 2YB. WJDX said they were testing out a new transmitter, and a request programme was on at good speaker strength. This station was still on the air when I tuned off at 8.15. I picked up CKY at 8.20 and it was still going after 9 p.m.—Kauspanka (Hastings).

[Congratulations. An excellent record.—Ed.]

2YA Broadcast

On Short-wave through 2ME

NEW ZEALAND has been brought into prominence again through the efforts of Amalgamated Wireless Australasia Ltd., this company's well-known short-wave station, 2ME, Sydney, having rebroadcast 2YA, Wellington, on to 2XAF, Schenectady, New York, last Tuesday night, February 4. The Sydney "Howlers" were included in the rebroadcast, and listening-in to 2ME volume from 2YA was fairly good, some of the items being clear except for extraneous noises picked up en route, plus Sydney static, and at times a few "howlers" in Sydney.

2ME operators (Mr. Farmer at the "Mike") were anxious for definite reports from 2XAF regarding the rebroadcast; and later 2ME announcer discussed at length with the announcer at 2XAF the possibility of arranging with 2YA to rebroadcast 4YA, Dunedin, and 2ME in turn rebroadcasting the rebroadcast on to 2XAF.

Mr. Farmer at 2ME stated that 4YA, Dunedin, was not heard in Sydney owing to the low power (evidently not the fault of the station at Dunedin), but that as 2YA occasionally rebroadcast 4YA, Dunedin, on special occasions, probably arrangements could be made for future rebroadcasts of 4YA by 2YA.

It will be obvious to all New Zealanders that such rebroadcasts will do a great deal towards the publicity boost which our fair Dominion richly deserves; and it appears fairly plain that apart from the fact that Commander Byrd is so well known to New Zealanders and Americans, coupled with the name of Dunedin city, the American stations will appreciate rebroadcasts from New Zealand, and in turn New Zealand will appreciate rebroadcasts of American stations.

2ME, whilst not fully satisfied with the rebroadcast last Tuesday owing to bad conditions at the Sydney end, kept the rebroadcast going until 2YA closed down at 11 p.m. No doubt 2XAF is anxious to secure a rebroadcast from 4YA, Dunedin, when Admiral Byrd returns from "Little America" at the South Pole.—R. Leslie Jones.

MR. H. F. ADCOCK writes: On Tuesday (February 4), 2ME, Sydney, was testing with 2XAF, Schenectady. Mr. Johnson spoke from Sydney to Mr. Hicks at New York. At 11 p.m. Mr. Hicks expressed the desire to hear 2YA, New Zealand, so 2ME rebroadcasted Wellington for him, and although at first it was rather gushy it soon improved, and was quite clear and steady. Reception from 2XAF was clear, though weak, and Wellington could be heard quite well through it.

Siberia on Short-wave

MR. CLODE (Southland) asks if anyone has heard RA97 on 35 metres. On November 11, I heard them on this wave-length when a lady announcer was reading news from different countries in English. The call, together with the two wave-lengths (35 and 70 metres), was given several times during the news. At 11 p.m. the correct Siberian time was announced as "19 o'clock and 20 minutes." Reports were asked for to be sent immediately to them concerning their 35 metre wave-length. I sent one, but have not received verification as yet. Does any listener know the location of WOO, referred to in last week's issue?—J. V. McMinn (Wellington).

Our Mailbag

AN extract from a letter from a Hawke's Bay listener to the Broadcasting Company reads:—"I am pleased to report that everyone appears satisfied with the programmes now being put over the air, and very few complaints are heard. Listeners now have the choice of 'picking' their favourite items from the four stations, particularly those in the country, which, in my opinion, is the common-sense method. Congratulations on the recent broadcast of the King's speech at the Naval Conference also of the rebroadcast by 3YA of the American WIENR, which met with general approval. These rebroadcasts when conditions are favourable are pleasing, and bring before the public's notice the wonderful opportunities that a set and 30/- per annum offer."

News Items

FLIES, cockroaches, and orchard insect pests killed by radio is a new marvel announced by the New Jersey Agricultural Experiment Station at New Brunswick, New Jersey, U.S.A. Recently Dr. Headlee, entomologist of the station, demonstrated how insects placed in a glass tube and exposed to powerful radio waves from a high-frequency transmitter, died in a few moments. The short waves, of

twenty-four metres wavelength generated heat within the bodies of the insects and killed them. The experimenters say that eventually radio may be used to fight insects in orchard and field—and perhaps in the home, too, to slay flies and other pests. That such experiments have already been made elsewhere was recently revealed when the Federal Radio Commission ordered a hearing to determine whether "radio bug-killers" operated by a Seattle, Washington, corporation created static and interfered with broadcasting reception. Seven-thousand-watt transmitters with which this concern claimed success in eradicating fruit insects have been ruled by the commission to come under regulations for broadcasting stations.

THE "British Australasian" contains an interesting paragraph illustrating the successful use of modern methods by the New Zealand Publicity Department in London. Special mention is made of the fine films sent overseas by the Department. Arrangements for the display of these through several European countries were recently consummated. The writer says

on this point: "Speeches and written articles all help towards making the Dominion better known to foreigners, but it is through the eye that people are most easily attracted. The showing of these beautiful films on the Continent will doubtless result in hundreds of fresh customers asking for good things that New Zealand can send them. To most foreigners New Zealand and Australia are mere names, conveying nothing but that they are big and far away. Now, through the magic of the kinema and the enterprise of the Publicity Department of New Zealand House, they are coming close to audiences, which will leave the theatre having learned more in an hour than many books could impart." While making full use of the kinema, the New Zealand Publicity Department, it may be added, is keeping a watchful eye on the use of talkies, but for the moment action is deferred till a measure of stability is reached in that department. Plans were made for the filming of "Aunt Gwen's" wedding recently by the Publicity Department, but unfortunately the plan was not successfully carried out.

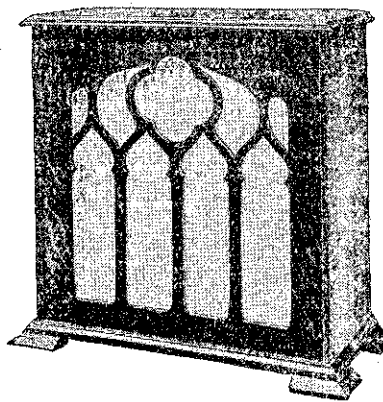
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Next Week's Features

1YA Features

ON Sunday evening the service from the Strand Methodist Mission will be relayed, the preacher being Rev. C. G. Scrimgeour and the song leader Mr. T. T. Garland. After the service there will be a relay from the Albert Park of the concert to be given by the Auckland Municipal Band, conducted by Mr. Christopher Smith.

ON Tuesday evening, at 7.15, Mr. Geo. Campbell will continue his talks on "Motoring."

During Tuesday evening's broadcast of an operative programme there will again be relays of selected items from the talking pictures at the Majestic Theatre. The vocalists for the studio concert will be three of Auckland's finest soloists, Miss Phyllis Hazel (contralto), Mrs. Laetitia Parry (mezzo-soprano) and Mr. Frank Sutherland (Bass-baritone). Mr. Sutherland will sing "The Colleen Bawn" (from "Lily of Killarney"), "In Happy Moments" (from "Maritana") and "The Cobbler's Song" (from "Chu Chin Chow"). The records will include some splendid chorus work. One of the numbers will be the famous sextette from "Lucia di Lammermoor" and the "Soldiers' Chorus" from "Faust." Instrumental items on the programme will be provided by the members of the Studio Trio. The usual weekly "Topical Talk" will be given by Mr. A. B. Chappell.

ON Wednesday evening, at 7.40, Madame Mabel Milne will give a talk on "Health and Diet."

Quartettes by Madame Mary Towsey's party on Wednesday evening will be "Silent Night" and "Fair Shines the Moon." Madame will sing "When the Dew is Falling" and "Matinata." Miss Aimee Clapham will sing "Soul of Mine" and "Fairy Pipers." "She is far from the Land" will be sung by Mr. J. McDougall and Mr. John Bree's baritone solos will be "By the Light of the Moon" and "To

Mary." The two male voices will be heard in a duet, "Army and Navy." Elocutionary items by Mr. J. F. Montague will include Masefield's dramatic "Gallipoli: The 8th of August," a theme of great interest to New Zealand Gallipoli veterans.

UNDER the auspices of the League of Nations' Union, Mr. John Cook will speak on Thursday evening at 7.40 on "Women and Children and War."

Making her debut as a soloist on Thursday evening will be Miss Chrissie Foster, soprano. She is a member of the 1YA Broadcasting Choir. Her items will be "I Love the Moon," "Comin' Through the Rye" and "Pale Moon." The Orchestral Octet, under Mr. Eric Waters, will present an interesting programme which will include the "Faust Suite" (by Lazzari). The ever-popular Asquiths will give another of their twenty-minute drawing-room entertainments, and the Waikiki Duo will be heard in Hawaiian airs. A dance music programme will follow, from 9.30 till 11 p.m.

"SCHUBERT" will be the subject of a lecture-recital by Mrs. Daisy Basham, assisted by Miss Millicent O'Grady and Mr. Len Barnes, on Friday evening. This will be a treat to all lovers of this great composer. One of the instrumental numbers to be played by the Studio Trio will have a dulcitone accompaniment. Popper's "Harlequin" will be played by Miss Molly Wright, cellist. On the same programme will be a lecture-recital by Mr. Karl Atkinson, "Chamber Music Without Yawns."

MISS EDNA PEACE (contralto) and Mr. Roger Errington (tenor) will be the vocalists on Saturday evening. The former will sing "A Dream Garden" and two of Morgan's Indian songs, "An Indian Squaw's Song" and "An Indian Lullaby." Three very popular numbers will be sung by Mr. Errington, "Annie Laurie," "Mother Machree" and "La Donna e Mobile." The popular Snappy Three will be heard in vocal trios and piano jazz numbers. The Or-

chestral Octet, under Mr. Eric Waters, will present a very entertaining programme, and there will be humour from Mr. T. T. Garland. The records will include a vocal quartet, "I've Gwine Back to Dixie," a duo by the "Happiness Boys," Venie Clements in a dialogue, comedy by Frank Leo and party, and "The Whistling Bowery Boy," for which Albert Whelan is the siffleur. Altogether it is an excellent Saturday evening entertainment.

2YA Features

THE service in St. John's Presbyterian Church will be broadcast on Sunday evening. The Rev. J. R. Blanchard will be the preacher. The relay of a concert to be given at Aramoho, Wanganui, will follow.

MR. H. C. SOUTH will continue his fortnightly book reviews on Monday evening.

On Monday evening a varied programme will be presented. The first half will consist of a brief studio concert by the 2YA Orchestra and assisting artists, Miss Ailsa Nicol (soprano), Mr. S. E. Rodger (baritone, singing sea shanties), Miss Hilda Chudley (contralto) and Mr. Trevor Fennicke (tenor). The last-named artist is at present in Wellington awaiting instructions to commence another tour with the Fuller circuit. Mr. Fennicke has made successful tours in musical comedy with this firm in the past. He will sing "Bird Songs at Eventide" and "For You Alone." Mr. H. Temple White will give a brief organ recital, his numbers being Elgar's "Idyll," Easthope Martin's "Even-song" and "The Chorus of Shepherds" (by Lemmens). The latter half of the programme will consist mainly of a special studio presentation of Wodehouse's play, "Good Morning, Bill."

ON Tuesday evening at 7.40 there will be the usual talk by a representative of the Agriculture Department, "For the Man on the Land."

On Tuesday evening a light popular programme will be given by the Salon Orchestra (under Mr. Mat Dixon), assisted by Miss Myra Sawyer (soprano), Mr. Peter Connell (baritone). The Shand and Austin Novelty Duo and Mr. Will Yates (entertainer). Following the studio concert, and prior to the dance music session, an H.M.V. "Theme Song" programme will be presented. The dance programme will commence at 10 p.m. and conclude at 11 p.m.

ON Thursday afternoon Miss Flora Cormack will give another of her interesting talks on the activities of the motion picture stars of Hollywood. On this occasion listeners will be taken around the kitchens of several stars in order that they may get an idea of how these folk arrange their culinary department. At 7.40 p.m. Hare Hongi will deliver his usual weekly talk on "Maori Pronunciation."

Thursday evening's programme will be given by the Band of the 1st Bat-

alion Wellington Regiment, under Lieutenant B. J. Shardlow, assisted by the Meistersingers Male Voice Quartet, Miss Lily Hambley (contralto), Mr. Norman Izett (pianist) and Mr. H. Painter (comedian). The band's programme will consist of the ever popular "Light Cavalry Overture," two fantasias by Rimmer, "A Melodious Revue" and "The Bells of Aberdovey," a cornet solo by Lieutenant B. J. Shardlow, a waltz and several marches.

A PROGRAMME of gems from grand opera and comic opera will be given on Friday evening. The 2YA Orchestra, under Signor A. P. Truda, will play "The Bohemian Girl Overture," Humperdinck's "Hansel and Gretel," a selection from Massenet's "Werther" and a concert waltz, "Soiree d'Ete." The assisting vocalists will be Miss Marjorie Bennie (soprano), Mr. L. Bent (baritone), Miss Mary Bald (contralto) and Mr. Charles Edwards (tenor). Mr. and Mrs. Albert Russell, the well-known entertainers, will provide the lighter portion of the evening's entertainment. The weekly relay from the Majestic Theatre of a "talkie" feature will also be an item of this programme.

ON Saturday afternoon there will be relayed at intervals resume descriptions of play in the Plunket Shield cricket match between Auckland and Wellington.

A bright vaudeville programme will be presented on Saturday evening. The vocal portion will be contributed to by the Melodie Four and Miss Ivy Stanton (contralto). The Salon Orchestra, under Mr. Mat Dixon, will play items in keeping with a week-end programme, and novelty instrumental items will be given by Mrs. Mildred Kenny's Mandolin Orchestra. A feature of the evening's programme will be items by Mr. Will Bishop, composer, recently arrived from England.

3YA Features

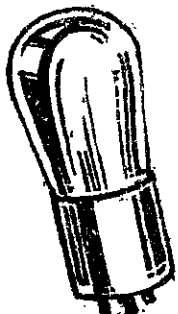
THE service in the Anglican Cathedral on Sunday evening will be broadcast by 3YA. There will be a studio after-church concert, the vocalists being Miss Merle Parry, Miss Doris Irvine, Mr. W. J. Trewern, and Mr. Dudley Wrathall. Mr. Wrathall will

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sing a number of negro spirituals. Recitations will be given by Miss Kathleen Brewins.

AT 7.15 on Monday evening Mr. E. J. Bell will review the latest books. On Monday, Tuesday and Wednesday evenings, 4YA's concert programmes will be relayed from 3YA.

MR. E. J. LUKEY, of the Live Stock Division of the Department of Agriculture, will give a talk to farmers on Thursday evening concerning "Sheep Dipping." This lecture is under the auspices of the 3YA Primary Productions Committee.

THURSDAY evening's programme will be largely of a classical nature. The vocalists will be the Grand Opera Quartet. Concerted numbers will be "The Wood Minstrels" and "Departure," both by Mendelssohn. The duets will include a fine song, "The Fisherman" (by Gabussi), which will be new to the great majority of listeners. The classical numbers will include favourites from Dvorak, Debussy and Mendelssohn. Among these will be "Oh Wings of Music." Other solos will be: "Green Hills o' Somerset," "Sunset," "The Arrow and the Song," "The Dream," "I Will Not Grieve," and "Tell Me, Charming Creature." Mr. W. H. Moses, elocutionist, will give by special request the dramatic recitation "The Highwayman" and also a poem from the pen of C. J. Dennis, "The Boon of Discontent." The supporting instrumental programme will be provided by the Studio Octet under Mr. Harold Beck.

DANCE music, with a vocal programme of popular numbers, will comprise Friday evening's entertainment. The singers will be Miss Lucy Fullwood, Miss Mary Taylor, Mr. T. G. Rogers, and Mr. E. J. Johnson. Concerted numbers will include "Oh, Hush Thee, My Baby," and "The Dear Little Shamrock." Among the solos will be "The Pipes of Pan," "The Splendour of the Morn," "There's a Land," "The Glory of the Sea," "Alice, Where Art Thou," and "Good Company." A tenor and bass duet will be "Love and War." The humour of the evening will be supplied by Mr. George Titchener. There will be cornet solos by Mr. Norman G. Goffin, late of Auckland and now of Christchurch. Cello solos will be played by Mr. Harold Beck and trios by the Christchurch Broadcasting Trio.

THERE will be a radio vaudeville programme on Saturday evening, a dance music session following. Two twenty-minute entertainments of mirth and melody will be given by the Chatterboxes. Solos and duets will be sung by Mrs. Ralph Sierkowski and Mr. Bernard Rannell. English concertina and ocarina solos will be played by Mr. John Campbell, one of the Campbell Brothers, well known on the vaudeville stage throughout Australia and New Zealand. Appropriate selections will be played by the Instrumental Octet under Mr. Harold Beck.

4YA Features

THE week will be mainly taken up with relays of special entertainments which have been arranged to

celebrate the opening of the new Town Hall. All these concerts will be of a very high standard of musical attainment.

ON Friday evening the studio concerts will resume. The instrumental portion of the programme will be provided by the Celeste Quintet. The vocalists will be Miss Molly Vickers, Miss Madge Clague, Mr. Wm. Ruffell and Mr. W. B. Lambert. Miss Clague will sing three songs by Brahms, "Sunday," "The Forge," and "The Sandman." Mr. Ruffell's items will be "Captain Mac," "Sylvia," and "The Windmill." Bass solos by Mr. Lambert comprise "The King Goes Forth to War," "Spanish Gold," and "The Carpet." Miss Molly Vickers will sing "My Rose," "Oh, No, John" and "Salaam."

ON Saturday evening 3YA's concert will be relayed.

Children's Sessions

AT 1YA.

THURSDAY, FEBRUARY 18.—Our new Uncle—"Uncle Dave"—takes charge this evening. Welcome to Radioland, Uncle Dave, may you spend many happy hours with the little radio folk.

WEDNESDAY.—Uncle Tom back into stride again, with many interesting tales to tell, cousins supplying musical items.

THURSDAY.—Peter Pan with a fresh supply of catches, jokes and puzzles—Cinderella busy trying to find the answers. Humorous sketches from Cousin Ruth.

FRIDAY.—Nod back from his holiday with fresh adventures to tell, Aunt Jean with more of her famous verses and something else quite novel, two boys holding a debate.

SATURDAY.—Saturday night always sees Cinderella in charge, and with her this time Cousins Joyce and Lois with duets and solos.

SUNDAY.—Children's song service coedited by Uncle Leo, assisted by Beresford Street Sunday School.

AT 2YA.

MONDAY, FEBRUARY 17.—Uncle Jeff to-night and Cousin Audrey is to recite. One item is all about a Fairy Market. There will also be two little musical cousins who are playing pianoforte solos and a duet.

TUESDAY.—Uncle Jim will send you birthday greetings to-night. Cousin Edna, who teaches very many girls and boys, will bring them all down to-night, to show how they can play and recite.

THURSDAY.—Jumbo is back again with his interesting children's stories. Cousins Dolores and Freda are coming, and will give three items.

FRIDAY.—Big Brother Jack will be assisted by Cousin Mary, who is bringing her little pupils with her to-night to play piano solos. Also, we have invited Cousins Roma, Mavis, Gladys and Winnie.

SATURDAY.—Here is Uncle Toby, the Pilot and aeroplane. Cousin Roma will sing songs and tell a story. This time it is "The Pirate." We are also going to have

some well-known Scott-Gatty songs, "We'll All Go A-Singing" and "He, She and It," with Cousins Merle and Roma taking part. **SUNDAY.**—The Children's Choir from St. Andrew's Presbyterian Church with Uncle George in charge, will be here this evening.

AT 3YA.

MONDAY, FEBRUARY 17.—Here is Scatterjoy with a host of interesting things to tell you about the quaint folk who live in Dalmatia. Cousin Kathleen singing some more of her pretty songs.

WEDNESDAY.—"Uncle John" is here to-night, and whom do you think he is bringing with him—why, "Mrs. Uncle John," of course. So you just listen-in and hear the good stories she has to tell you. Songs by Rhona Hill and recitations by Ivy Brown.

THURSDAY.—And to-night. "Uncle Frank" has "Lady-bird" here to help him entertain the little folk. Songs, stories and chit-chat for all.

FRIDAY.—To-night "Uncle Pete" takes charge, because "Aunt Pat" is away holiday-making. Now, Uncle Pete sings, you know, and so do Cynthia and Hilray—and then there will be stories for all. A happy night all together.

SATURDAY.—Who is it we have here to-night? Oh, yes, "Peterkin" and the boys, Derek and Desmond, so there is fun provided for all, with stories of adventure, and romance, too.

SUNDAY.—The Children's Song Service will be conducted by the Presbyterian Sunday School to-night.

"Cinderella" on Holiday

DURING the absence on holiday leave of Cinderella, from February 25 to March 11, Mrs. Daisy Basham will act as Children's Session Organiser at

Uncle Ernest

Now in Canada

THE following may interest some of the 2YA listeners, writes Mr. Selens, our shortwave correspondent. I received a letter from a correspondent located at Moose Jaw, Canada, who is connected with CJRX and CJRM, dated January 4, 1930. In concluding he says: "By the way, Uncle Ernest of 2YA, Wellington, is up here in Canada."

Uncle Ernest spoke at CJRM when passing through Canada on his way to England. Evidently he is back again in Canada.

"Uncle Dave," of 1YA

IN place of Uncle George, who has up till now conducted the Children's Session at 1YA on Tuesday evenings, Uncle Dave, otherwise Mr. D. W. Faigan, M.A., will be in charge. We feel that 1YA is particularly fortunate in securing Mr. Faigan's services, and would like to take this opportunity of welcoming him to Radioland, hoping that he will be very happy among the young folk whom he is setting out to entertain.

Pictures from Air

IN a report to the United States Department of Commerce, A. Douglas Cook, Assistant Trade Commissioner at Berlin, states that the German Luft Hansa, the largest air transport company operating in Europe, has undertaken the transmission of pictures from a Berlin transmitting station to aeroplanes of the company, in flight.

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Full Programmes for Next

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Sunday, February 16

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, FEBRUARY 16.

- 3.0 : Afternoon session—Selected Items.
- 4.0 : Literary selection by the Announcer.
- 4.30: Close down.
- 6.0 : Children's session, conducted by Uncle Leo.
- 6.55: Relay of Divine Service from Strand Methodist Mission. Preacher, Rev. C. G. Scrimgeour. Song Leader, Mr. T. T. Garland.
- 8.30: (approx.) Relay of Concert by Municipal Band, under the Conductorship of Mr. Christopher Smith, from Albert Park.
- 9.45: God Save the King.

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

- 3.0 to 4.30: Afternoon session.
- 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Island Bay Baptist Sunday School Choir.
- 7.0 : Relay of evening service of St. Paul's Pro-Cathedral. Preacher, Rev. Percival James; organist and choirmaster, Mr. Robert Parker.
- 8.15 (approx.): Relay from Aramoho, Wanganui, of concert by Aramoho Methodist Church Choir.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, FEBRUARY 16.

- 3.0 : Afternoon Session Gramophone Recital.
- 4.30: Close down.
- 5.30: Children's Song Service by children of the Church of England Sunday Schools.
- 6.15: Studio Chimes.
- 6.30: Selected Gramophone Items.
- 7.0 : Relay from Christchurch Anglican Cathedral. Musical Director and Organist: Dr. J. C. Bradshaw.
- 8.15 (approx.): Overture—Victor Symphony Orchestra, "Dance of the Hours" "From La Gioconda" (Ponchielli) (Zonophone EF12).
- 8.23: Mezzo-soprano—Miss Doris Irvine. (a) "In Autumn" (Pearl Curran); (b) "The Wind" (Spross).
- 8.29: Tenor—Mr. W. J. Trewern, "An Evening Song" (Blumenthal).
- 8.33: Quartet—Prisca String Quartet, "Minuet from Quartet in C" (Schubert) (Parlophone E10604).
- 8.37: Soprano—Miss Merle Parry, "Nightingale of June" (Sanderson).
- 8.41: Baritone—Mr. Dudley Wrathall, Negro Spirituals (a) "My Lord What a Mornin'" (arrgd. Hugo Frey); (b) "Somebody's Knockin' at Yo' Do'" (arrgd. Hugo Frey).
- 8.46: Recitation—Miss Kathleen Brewin, "The Passing of the Forest" (W. Pember Reeves).
- 8.51: Piano—Mark Hambourg, "Hungarian Rhapsody No. 2" (Liszt).
- 8.59: Mezzo-soprano—Miss Doris Irvine, "Morning" (Speaks).
- 9.2 : Tenor—Mr. W. J. Trewern, (a) "Resolution" (Lassen); (b) "A Farewell" (Liddle).
- 9.10: Quartet—Prisca String Quartet—"Allegro From Quartet in G Horseman" (Haydn) (Parlophone E10604).
- 9.14: Soprano—Miss Merle Parry, "Magdalen at Michael's Gate" (Lehmann).
- 9.18: Baritone—Mr. Dudley Wrathall, Negro Spirituals, (a) "Nobody Knows De Trouble I See" (argd. Baron); (b) "I Want to Be Ready" (argd. Baron).
- 9.23: Recitation—Miss Kathleen Brewin, "The Lesson of the Watermill" (Doudney).
- 9.27: Selection—Orchestra de l'Opera Comique, Paris, "Fete Boheme from Scenes Pittoresque" (Massenet) (Parlophone A4057).
God Save the King.

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

- 3.0 : Relay of service arranged by the Council of Christian Congregations, Dunedin, on the occasion of the opening of the New Town Hall, Dunedin. Relay from Town Hall.
- 5.30: Children's song service, conducted by Big Brother Bill.
- 6.15: Close down.
- 6.30: Evening service relayed from Moray Place Congregational Church. Preacher: Rev. Albert Mead, M.A. Choirmaster: Mr. Towns. Organist: Mr. McMillan.
- 7.45: Studio Programme.
Overture—Leopold Stokowski and the Philadelphia Orchestra, "Rienzi" (Wagner) (H.M.V. ED3-4).
- 7.57: Duet—Leider and Marherr (Wagner), (a) "Doch Hun Von Tristan"; (b) "Er Schwue Mit Fausend Eiden" from "Tristan and Isolde" (Wagner) (H.M.V. D1687).

- 8.5 : Instrumental—"De Groot, Bor and Calve, "Ave Maria" (Kahn).
- 8.8 : Bass—Peter Dawson, "The Curtain Falls" (D'Hardelot).
- 8.11: Selection—Leopold Stokowski and the Philadelphia Orchestra, Final to "Gottterdammerung" (Wagner) (H.M.V. ED4).
- 8.15: Relay of Programme from 3YA.
- 9.30: God Save the King.

Monday, February 17

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, FEBRUARY 17.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, FEBRUARY 17.

- 3.0 : Chimes. Selected items.
- 3.30 and 4.30: Sports results.
- 4.55: Close down.
- 5.0 : Children's session.
- 6.0 : Dinner music session—"Columbia" Hour.
Orchestral—Halle Orchestra, "Capriccio Espagnole" (Rimsky-Korsakov) (02812/3).
- 6.13: Tacet.
- 6.15: Orchestral—Menorah Symphony Orchestra, "Bar Kochba" Selection (Goldfaden) (02922).
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" (arrgd. 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—Folk Dance" (arrgd. Cecil J. Sharp) (01711).
Piano—Ignaz Friedman, "Berceuse" (Chopin) (04346).
Orchestral—Berlin State Orchestra, "Wiener Blut" (Strauss) (04837).
- 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), "Overture Solennelle" (Tschalkowsky).
- 8.9 : Soprano—Miss Ailsa Nicol, (a) "Ave Maria" (Kahn); (b) "Cradle Song" (Schubert).
- 8.16: Baritone—Mr. S. E. Rodger, A Group of Sea Shanties, (a) "Billy Boy" (arrgd. Terry); (b) "Rolling Down to Rio" (arrgd. Terry); (c) "Shenandoah" (arrgd. Terry).
- 8.26: Instrumental—2YA Orchestra, "Symphony Militaire in G Major" (Haydn).
- 8.34: Contralto—Miss Hilda Chudley, (a) "O Lovely Night" (Ronald); (b) "My Love is Like a Red, Red Rose" (Traditional).
- 8.41: Tenor—Mr. Trevor Fennicke, (a) "Bird Songs at Eventide" (Coates); (b) "For You Alone" (Geehl).
- 8.48: Relay of Organ Recital by Mr. H. Temple White, (a) "Idyll" (Elgar); (b) "Evensong" (Easthope-Martin); (c) "Chorus of Shepherds" (Lemmens).
- 9.0 : Weather report and announcements.
- 9.2 : Special studio presentation of the farce "Good Morning, Bill" (by P. G. Wodehouse):

Cast of Principal Characters.

Dr. Sally Smith	Elsie Lloyd
Lottie Burke	Susie Painter
Sir Hugo Drake	E. R. Render
Lord Tidmouth	H. A. Painter
Bill Paradene	Victor S. Lloyd

produced by Victor S. Lloyd.

Act One: Scene, the sitting-room in a private suite at a fashionable hotel on the south coast of England.

Act Two: Scene, the living-hall of the Manor, Woollam Chersey, Bill's ancestral home in Hampshire.

Act Three: Same as Act Two.

- 10.2 : Instrumental—2YA Orchestra, (a) "Serenade" (Chaminade); (b) "Non e ver" (Mattei).
- 10.19: God Save the King.

Week-all Stations-to Feb. 23

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3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, FEBRUARY 17.

- 3.0 : Afternoon session. Gramophone Recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's hour—"Scatterjoy."
 6.0 : Dinner session—"H.M.V." Hour.
 Instrumental—Reg King's Orchestra, "Garden in the Rain" (Gibbons).
 Instrumental—Reg King's Orchestra, "The Song I Love" (de Sylva).
 Waltz—International Concert Orchestra, "Gold and Silver" (Lehar).
 Instrumental—Victor Olof Sextet, "Cherry Ripe" (Scott) (B2697).
 6.12: Tacet.
 6.15: Waltz—International Concert Orchestra, "The Spanish Dancer" (Di Chiara) (Zonophone EF15).
 Orchestral—Victor Concert Orchestra, "Romance" (Tschalkowsky).
 Violin—Isolde Menges, "Salut D'Amour" (Elgar) (D1313).
 6.26: Tacet.
 6.30: Instrumental—Piccadilly Orchestra, (a) "Friend o' Mine" (Sander-son); (b) "None but the Weary Heart" (Tschalkowsky).
 Orchestral and Grand Organ—International Concert Orchestra, "My Treasure" (Becucci) (Zonophone EF15).
 Instrumental—Victor Olof Sextet, "Minuet" (Boccherini) (B2697).
 6.42: Tacet.
 6.45: Instrumental—Jack Hylton's Orchestra, "Melodious Memories" (Finck).
 Waltz—International Novelty Orchestra, "Emperor" (Strauss).
 6.57: Tacet.
 7.0 : News session.
 7.15: Talk—Mr. E. J. Bell, "Book Review."
 8.0 : Chimes.
 Special relay of 4YA, Dunedin, being relay from New Town Hall, Dunedin. Special programme presented by: Royal Dunedin Male Choir, Returned Soldiers' Choir, Commercial Travellers' Choir.
 God Save the King.

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

- 3.0 : Town Hall chimes.
 Selected gramophone items.
 4.25: Sporting results.
 4.30: Close down.
 5.0 : Children's hour, conducted by Uncle Allan.
 6.0 : Dinner session music—"H.M.V." Hour.
 Orchestral—Marek Weber and Orchestra, "Beggar Student" (Millocker) (C1528).
 Orchestral—Philadelphia Symphony Orchestra, "Carmen Entr'acte, Act 4" (Bizet) (E531).
 Piano—Wilhelm Backhaus, "Bohemian Dance" (Smetana) (DB1130).
 6.13: Tacet.
 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, "March of the Smuglers" ("Carmen") (Bizet) (D1618).
 Piano—Wilhelm Backhaus, "Caprice Espagnole" (Moszkowski).
 6.44: Tacet.
 6.45: Orchestral—Marek Weber and Orchestra, "My Darling Waltz" (Waldteufel) (C1630).
 Band—National Military Band, "Flying Dutchman Overture" (Wagner).
 Orchestral—Philadelphia Symphony Orchestra, "Carmen Entr'acte, Act 1" (Bizet) (D1618).
 6.58: Tacet.
 7.0 : News session.
 8.0 : Chimes. Special Opening Celebration Programme.
 Relay from New Town Hall, Dunedin, of programme of music rendered by the musical societies of Dunedin. (Royal Dunedin Male Choir, Returned Soldiers' Choir, Commercial Travellers' Association.)
 Part 1.—Ode, "The Desert" (David), Combined Male Choirs and Dunedin Orchestral Society. Conductor, Dr. V. E. Galway.
 9.0 : Weather report. Interval.
 Part 2.—(1) Grand March from "Tannhauser" (Wagner), Dunedin Orchestral Society (Conductor, Mr. Jas. Coombs); (2) "Chorus of Spirits" (Bach), Male Choir and Orchestra (Soloist, Mr. W. Satterthwaite. Conductor, Mr. J. Leech); (3) Suite for orchestra, "Garden of Allah" (Ronald) (Conductor, Mr. Jas. Coombs); (4) Part songs, "Swing Low, Sweet Chariot" (Traditional), "Shenandoah" (Traditional), "Sword of Ferrara" (Bullard) (Conductor, Mr. J. Leech); (5) (a) "Traumerel" (Schumann), (b) "Chanson Triste" (Tschalkowsky), Dunedin Orchestral Society (Conductor, Mr. Jas.

Coombs); (6) Part song, "Martyrs of the Arena" (de Rille) (Conductor, Mr. J. Leech); (7) Overture, "Moses in Egypt" (Rossini); (8) "Land of Hope and Glory" (Elgar), Male Choir, Orchestra and Organ (Conductor, Mr. J. Leech).
 God Save the King.

Tuesday, February 18

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, FEBRUARY 18.

- 3.0 : Afternoon session—Selected Studio items, and Literary selection by the Announcer.
 4.30: Close down.
 5.0 : Children's Session.
 6.0 : Dinner Session, "Parlophone" Hour:
 Overture—Berlin State Opera Orchestra, "Mignon" (Thomas).
 Instrumental—Grand Symphony Orchestra, "Tales of Hoffman-Barcarolle" (Offenbach) (A4061).
 6.12: Tacet.
 6.15: Fantasia—Edith Lorand Orchestra, "Faust" (Gounod) (E10579).
 Piano—Karol Szreter, "Fledermaus" (Strauss) (A4082).
 6.27: Tacet.
 6.30: Selection—Dajos Bela Orchestra, "La Tosca" (Verdi) (A4045).
 Cello—Orabio de Castro, "Nocturne in E Flat" (Chopin) (E10581).
 6.42: Tacet.
 6.45: Overture—Grand Symphony Orchestra, "Fra Diavolo" (Auber).
 Instrumental—Grand Symphony Orchestra, "Tales of Hoffman-Entr'acte and Minuet" (Offenbach) (A4061).
 6.57: Tacet.
 7.0 : News and Market reports.
 7.15: Talk—Mr. George Campbell, "Motoring."
 8.0 : Chimes.
 Excerpts from the Talkie Pictures from the Majestic Theatre, will be introduced into this programme.
 Overture—Columbia Symphony Orchestra, "Maritana" overture (Wallace) (Columbia 02672).
 8.15: Bass-Baritone—Mr. Frank Sutherland, "The Collen Bawn" from "Lily of Killarney" (Benedict).
 8.19: Soprano—Mrs. L. Parry, "Convien Partir" from "La Figlia del Reggimento" (Donzetti); (b) "Hindo Song," from "Sadko" (Rimsky-Korsakov).
 8.26: Instrumental Trio—Studio Trio, "Pas Des Fleurs" Intermezzo from the ballet "Naila" (Delibes).
 8.36: Talk—Mr. A. B. Chappell, M.A., Topical Talk.
 8.51: Piano—Mr. Eric Waters, "Scherzo B Flat Minor" (Chopin).
 9.1 : Contralto—Miss Phyllis Hazell, "Roberto Tu Che Adoro" (Meyerbeer).
 9.12: Band—Band of Garde Republicaine, "Carmen Entr'acte No. 1" (Bizet).
 9.16: Bass baritone—Mr. Frank Sutherland, (a) "In Happy Moments" from "Maritana" (Wallace); (b) "The Cobbler's Song" from "Chu Chin Chow" (Norton).
 9.23: Orchestral—Paul Whiteman and His Orchestra, "My Hero" ("The Chocolate Soldier") (Strauss) (Columbia 07502).
 9.27: Soprano—Mrs. L. Parry, "Sweet Spirit Hear My Prayer," from "Lurline" (Wallace).
 9.36: Chorus—La Scala Chorus of Milan "Sonnambula" (Bellini).
 9.40: Contralto—Miss Phyllis Hazell, (a) "Stird La Vampa" II Travatore, (Verdi); (b) "Quando a Te Lieta" (Gounod).
 9.47: Instrumental Trio—Studio Trio, Selection from the opera "Lohengrin" (Wagner-Alder).
 9.55: Band—Band of Garde Republicaine, "Carmen Entr'acte No. 2" (Bizet).
 10.3: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, FEBRUARY 18.

- 3.0 : Chimes.
 3.1 : Selected items.
 3.30 and 4.30: Sports results.
 4.54: Close down.
 5.0 : Children's Session.
 6.0 : Dinner Music Session, "H.M.V." Hour.
 Overture—H.M. Coldstream Guards Band, "Poet and Peasant" (Suppe).
 Orchestral—Symphony Orchestra, "Love the Magician" (De Falla).
 6.12: Tacet.
 6.15: March—United States Army Band, "Army and Marine" (Starke).
 Waltz—International Novelty Quartet, "Cuckoo" (Jonasson).
 Waltz—Jack Hylton's Orchestra, "Spanish Rose" (Pearson).
 Xylophone—Sam Herman, "Al Fresco" (Zonophone BE58).
 6.27: Tacet.
 6.30: Orchestral—New Light Symphony Orchestra, "In a Clock Store" (Orth) (H.M.V. C1308).

- March—Royal Opera Orchestra, "Marche Hongroise" (Berlioz).
Orchestral—Symphony Orchestra, "Spanish Dance" (De Falla).
- 6.42: Tacet.
- 6.45: Schottische—International Novelty Quartet, "Lena" (Mewes).
Pipe, organ, piano, trombone and harp, Shilkret's Rhythm Melodists,
"When You're With Somebody Else" (Gilbert) (EA336).
Waltz—Jack Hylton's Orchestra, "The Angelus Was Ringing" (Damarrell) (H.M.V. B5481).
March—United States Army Band, "American Spirit" (Buglione).
- 6.57: Tacet.
- 7.0: News session, market reports and sports results.
- 7.40: Lecturette—Representative, Agricultural Department, "For the Man on the Land."
- 8.0: Chimes.
Overture—2YA Salon Orchestra, Conductor Mr. Mat Dixon, "Crown of Diamonds" (Auber).
- 8.9: Soprano—Miss Myra Sawyer, (a) "The Nightingale and the Rose" (Thompson); (b) "Sing Joyous Bird" (Phillips).
- 8.15: Baritone—Mr. Peter Connell, (a) "Sincerity" (Clarke); (b) "When I Awake" (Wright).
- 8.22: Instrumental Trio—Messrs. W. Haydock, S. Chapman and M. Dixon, (a) "Salut D'Amour" (Elgar); (b) "Traumerel" (Schumann).
- 8.32: Humour—Mr. Will Yates, "A Radio Drama" (Original).
- 8.39: Novelty Duo—Shand and Austin, (a) "Louise" (Robin-Whiting); (b) "Smiling Irish Eyes" (Ruby and Perkins).
- 4.46: Soprano—Miss Myra Sawyer, "By the Waters of Minnetonka" (Lieurance).
- 8.50: Instrumental—2YA Salon Orchestra, Request Item
- 8.58: Weather report and announcements.
- 9.0: Baritone—Mr. Peter Connell, "Friend o' Mine" (Sanderson).
- 9.4: Selection—2YA Salon Orchestra, "A Dream of Egypt" (Woodforde-Finden).
- 9.12: Humour—Mr. Will Yates, "Asking the Way" (Original).
- 9.18: Instrumental—2YA Salon Orchestra, "Two Little Dances" (Finck).
- 9.24: Novelty Duo—Shand and Austin, (a) "My Sin is Loving You" (De Sylva, Brown and Henderson); (b) "I'm Just a Vagabond Lover" (Vallee).
- 9.30: Instrumental—2YA Salon Orchestra, "Shadow Ballet" (Bendix).
- 9.35: "H.M.V." theme song programme.
Foxtrot—Goldkette's Orchestra, "Tiptoe Thru' the Tulips With Me" from "Gold-diggers of Broadway" (EA628).
Song—Johnny Marvin, "Painting the Clouds With Sunshine" from "Gold-diggers of Broadway" (EA637).
Foxtrot—Jack Hylton's Orchestra, "Singing in the Rain" "From Hollywood Revue" (B5700).
Song—Johnny Marvin, "Orange Blossom Time" from "Hollywood Revue" (B3129).
Song—Gloria Swanson, "Love" from "The Trespasser" (B3168).
Band—Rio Grande Band, "Valentine" from "Innocents of Paris."
Song—Bebe Daniels (The star of the Radio Picture) "You're Always in My Arms" from "Rio Rita" (EA640).
Orchestral—Ben Pollock's Orchestra, "Sweetheart We Neew Each Other" from "Rio Rita" (EA646).
- 10.0: Dance Programme, "Brunswick."
Novelty foxtrot—Jesse Stafford's Orchestra, "Kewpie" (Rose).
Foxtrot—Jesse Stafford's Orchestra, "A Precious Little Thing Called Love" (Davis) (4249).
Foxtrot—Red Nicholls and His Five Pennies, "Roses of Picardy" (Wood) (4286).
Waltz—Pianoforte solo—Rosita Renard, "Blue Danube" (Strauss).
- 10.16: Vocal duet—Francis Luther and Jack Parker, "Carolina Moon" (Davis) (4202).
Foxtrot—Red Nicholls and His Five Pennies, "Allah's Holiday" (Friml) (4286).
Foxtrot—Gerunovich's Roof Garden Orchestra, "I'm Telling You" (Rose) (4190).
Foxtrot—Jungle Band, "Paducah" (Redman) (4309).
- 10.28: Soprano with novelty accompaniment, Marie Tiffany, "Little Grey Home in the West" (Wilnot) (15197).
Foxtrot—Gerunovich's Roof Garden Orchestra, "I Found You Out When I Found You In" (Ponce) (4190).
Foxtrot—Royal Creolians, "Third Rail" (De Mars) (7072).
Vocal duet—Francis Luther and Carson Robison, "You Can't Take My Memories From Me" (Davis) (4202).
- 10.41: Organ—Lew White, "Coquette" (Berlin) (4301).
Foxtrot—Ray Miller's Orchestra, "No One in the World But You"
Foxtrot—Brunswick Orchestra, "Dardanella" (Fisher) (4218).
Waltz—Regent Club Orchestra, "Poor Punchinello" (Lewis) (4206).
- 10.50: Soprano—Marie Tiffany, "Pale Moon" (Indian Love Song) (Logan).
Foxtrot—Brunswick Orchestra, "Redskin" (4218).
Waltz—Regent Club Orchestra, "Loneliness" (Pollack) (4206).
- 11.0: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, FEBRUARY 18.

- 8 p.m.: Special relay of 4YA Dunedin, being relay from New Town Hall, Dunedin, third concert.
First Organ Recital by Dr. Price, of Australia, assisted by vocal artists and the Dunedin Philharmonic Society.
God Save the King.

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

- 3.0: Chimes. Selected gramophone items.
- 4.25: Sporting results.
- 4.30: Close down.
- 5.0: Children's Hour, conducted by Uncle George.
- 6.0: Dinner music—"Columbia" Hour:
Band—Royal Italian Band, "Marcia Reale" (Gabetti) (01182).
Instrumental—Court Symphony Orchestra, "In Venice" (Sellars) (896).
Kinema organ—Stanley MacDonald, "Was it a Dream" (Coslow).
Band—Royal Italian Band, "Garibaldi's Hymn" (Olivieri) (01182).
- 6.12: Tacet.
- 6.15: Instrumental—Ketelbey's Concert Orchestra, "Sanctuary of the Heart" (Ketelbey) (02690).
'Cello—W. H. Squire, "Melody in F" (Popper) (04178).
- 6.26: Tacet.
- 6.30: Instrumental—W. H. Squire's Celeste Octet, "Mignon": (1) Introduction and Romance, (2) Polonaise (Thomas) (02749).
'Cello—W. H. Squire, "Silver Threads Among the Gold" (Danks, arr. Squire) (04178).
- 6.42: Tacet.
- 6.45: Band—H.M. Grenadier Guards, "Turkish Patrol" (Michaelis) (4111).
Kinema organ—Stanley MacDonald, "Nicolette" (Batten) (Regal).
Waltz—Jacque Jacobs' Ensemble, "Vienna Life" (Strauss) (02556).
Idyll—H.M. Grenadier Guards Band, "Smithy in the Woods" (Michaelis) (4111).
- 6.58: Tacet.
- 7.0: News session.
- 8.0: Chimes. Special Opening Celebrations Programme on relay from the New Town Hall. First Organ Recital by Dr. Price, of Australia, assisted by vocal artists, and the Dunedin Philharmonic Society, conducted by Signor Squarise.
- Overture No. 1 in C Minor (Foroni)—Dunedin Philharmonic Society, conducted by Signor Squarise.
 - Organ items—Dr. W. G. Price.
 - Orchestral—(a) "Souvenir de Venice" (Quinn), (b) "Andantino" (Lemare).
 - Vocal items—Mr. John Leech, (a) "The Message" (Blumenthal), (b) "Thou'rt Like a Lovely Flower" (Schumann), (c) "An Unfinished Picture" (Rimsky-Korsakoff).
 - Orchestral and organ, Marche Slav" (Tchaikowsky).
Interval.
 - Symphonic poem, "Finlandia" (Sibelius).
 - Organ items, Dr. W. G. Price.
 - Orchestral—"Invocation to the Sun" (Mascagni).
 - Vocal items—Madame Winnie Fraser.
 - Orchestral—"Slavonic Rhapsody" (Friedman).
God Save the King.

Wednesday, February 19

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, FEBRUARY 19.

- 3.0: Afternoon session—Selected studio items and 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 Bands, "Army and Marine" (Starke) (Zono.).
Selection—Piccadilly Orchestra, "The Waltz Dream" (Strauss) (B2684).
Jack Hylton's Orchestra, "My Inspiration is You" (Nicholls) (C1577).
- 6.12: Tacet.
- 6.15: Royal Opera Orchestra, "Sylvia Ballet Prelude" (Delibes) (C1417).
Salon Orchestra, "Chanson Boheme" (Boldi) (B2581).
Royal Opera Orchestra, "Sylvia Ballet Intermezzo" (Delibes) (C1417).
- 6.27: Tacet.
- 6.30: Jack Hylton's Orchestra, "A Room with a View" (Coward) (C1577).
Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).
March—San Francisco Symphony Orchestra, "Marche Militaire" (Schubert) (ED9).
- 6.42: Tacet.
- 6.45: Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier) (E522).
Balalaika Orchestra, "Shining Moon" "Russian folk song" (EA48).
March—U.S. Army Band, "American Spirit" (Buglione) (Zono.).
- 6.57: Tacet.
- 7.0: News and market reports.
- 7.40: Talk—Madame Mabel Milne, "Health and Diet."
- 8.0: Chimes. Overture—Band of H.M. Coldstream Guards, "Wedding of the Rose" (Jessel) (H.M.V. B3064).
- 8.3: Vocal quartet—Madame Towsey's Quartet, "Silent Night" (Barnby).
- 8.8: Violin—Mr. A. Gracie, (a) "Ave Maria" (Schubert), (b) "Liebesfreud" (Kreisler—Wilholme).
- 8.15: Tenor—Mr. J. McDougall, "She is Far from the Land" (Lambert).
- 8.18: Contralto—Miss Aimee Clapham, "Soul of Mine" (Sanderson).
- 8.23: Piano—Mr. Cyril Towsey, "Ballade in A Flat" (Chopin).
- 8.38: Baritone—Mr. John Bree, "By the Light of the Moon" (Loughborough).
- 8.41: Mezzo-soprano—Madame M. Towsey, "When the Dew is Falling" (Schnider).

- 8.45: Dramatic episode—J. F. Montague, "Gallipoli, the 8th of August" (Masefield).
 8.58: Violin—Mr. A. Gracie, "To Spring" (Grieg).
 8.57: Contralto—Miss Aimee Clapham, "Fairy Pipers" (Brewer).
 9.1: Evening weather forecast and announcements.
 9.3: Vocal duet—Mr. J. Bree and Mr. J. McDougall, "Army and Navy" (Cooke).
 9.7: Mezzo-soprano—Madame M. Towsey, "Mattinata" (Tosti).
 9.11: Intermezzo—Band of H.M. Coldstream Guards, "Hobomoko" (Reeves).
 9.14: Humour—Mr. J. F. Montague, (a) "Our Caravan" (Anon.), (b) "Kicking Strap's Race" (Wood).
 9.22: Baritone—Mr. John Bree, "To Mary" (White).
 9.25: Vocal quartet—Madame Towsey's Quartet, "Fair Shines the Moon" (Donizetti).
 9.30: Lecture-recital—A Commentator, "Gramophone Lecture Recital: Latest Recordings."
 10.0: God Save the King.

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

SILENT DAY.

3YA, CHRISTCHURCH (720 KILOCYCLES)—WEDNESDAY, FEB. 19.

- 8.0: Afternoon session, gramophone recital.
 4.25: Sports results.
 4.30: Close down.
 5.0: Children's Hour, "Uncle John."
 6.0: Dinner session—"Columbia" Hour:
 Orchestra—Orchestre Symphonique de Paris, "L'Arlesienne Suite" (Bizet): (1) Prelude, (2) Entr'acte—Pastorale, L'Etang de Vaccares, (3) Chœurs—Suiuant la Pastorale (01324-25).
 6.12: Tacet.
 6.15: Selection—Columbia Symphony Orchestra, "Faust" (Gounod) (02708).
 Violin—Toscha Seidel, "Chanson Arabe" (Rimsky-Korsakov) (09505).
 6.27: Tacet.
 6.30: Orchestral—Orchestre Symphonique de Paris, "L'Arlesienne": (1) La Cuisine de Castelet, (2) Minuetto, (a) Le Carillon, (4) Adagio (Bizet) (01326-27).
 6.42: Tacet.
 6.45: Orchestral—Orchestre Symphonique de Paris, "Farandole" ("L'Arlesienne" (Bizet) (01328).
 Band—Bande Garde Republicaine de France, "Carmen" Entr'acte (Bizet) (02747).
 6.56: Tacet.
 7.0: News session.
 7.30: Addington Stock Market Report.
 8.0: Special relay of 4YA, Dunedin, being relay from New Town Hall, Dunedin, Fourth Concert. Grand presentation of the oratorio "Messiah" (Handel) (conductor, Dr. V. E. Galway). The chorus will be composed of voices from Dunedin Choral Society, Dunedin Male Voice Choir, Returned Soldiers' Choir, Commercial Travellers' Choir.
 God Save the King.

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

- 8.0: Chimes. Selected Gramophone Items.
 3.15: Home Science Talk, "Best Methods of Dealing with Unpopular Tasks" from a speaker of the Home Science Extension Department, of Otago University. Under the auspices of 4YA Primary Productions Committee.
 4.25: Sporting results.
 4.30: Close down.
 5.0: Children's Hour, conducted by Uncle George.
 6.0: Dinner Session Music, "H.M.V." Hour.
 Light Orchestral—Marek Weber and Orchestra, "Lehariana" (Geiger).
 'Cello—Cedric Sharpe, "Air" (Pergolesi) (B3040).
 Band—Coldstream Guards, "Wedding of the Rose" (Jessel).
 6.14: Tacet.
 Orchestral—Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna" (Suppe) (C1667).
 Light Orchestra—New Mayfair Orchestra, "Five O'Clock Girl" (Ruby)
 6.27: Tacet.
 6.30: Orchestral—New Mayfair Orchestra, "Love Lies" (De Sylva).
 Band—H.M. Coldstream Guards, "Hobomoko Intermezzo" (Reeves).
 'Cello—Cedric Sharpe, "Twilight" (Friml) (B3040).
 Organ—Herbert Dawson, "Evensong" (Easthope Martin) (B2263).
 6.44: Tacet.
 6.45: Trio—De Groot (violin), A. Gibilaro (piano) J. Pacey ('cello), "O Sole Mio" (B2588).
 Organ—Herbert Dawson, "Idylle" (Edward Elgar) (B2263).
 Orchestral—Berlin State Opera Orchestra, "German Dances" (Mozart)
 6.57: Tacet.
 7.0: News session.
 7.40: Talks to Farmers—"Farmers' Organisations and Their Work." by Mr. S. P. Cameron, secretary Otago Provincial Branch N.Z. Farmers' Union, under the auspices of 4YA Primary Productions Committee.
 8.0: Chimes.
 Special opening celebrations programme from the New Town Hall, Combined Choirs, Dunedin Choral Society, and representatives

from the Royal Dunedin Male Choir, Returned Soldiers' Choir, Commercial Travellers' Choir, Miss Ida White's Ladies Choir, and Miss Meda Paine's Ladies' Choir.

1. National Anthem, arranged by Sir E. Elgar for choir, soloist, orchestra and organ.
 - 2 "Messiah" (Handel). Conductor: Dr. V. E. Galway Chorus Master: H. P. Desmoulins. The following have been suggested as soloists: Soprano: Miss Meda Paine. Contralto: Miss Mary Pratt. Tenor: Mr. Ernest Drake. Bass: Mr. Lawrence A. North.
- 9.30: Dance session, "Brunswick."
 Foxtrot—Colonial Club Orchestra, "Florella" (Bryan) (4312).
 Foxtrot—Swanee Syncopators, "The One That I Love Loves Me" (Turk) (4329).
 Waltz—With Whistling, Eight Radio Stars, "Always in My Heart" (Drew) (4312).
 9.42: Vocal duet—Lester McFarland and Robert Gardner, "Birmingham Jail" (Traditional) (293).
 Foxtrot—Tango, Colonial Club Orchestra, "Mi Amado" (Lewis).
 Foxtrot—Eight Radio Stars, "Under the Stars of Havana" (Coleman).
 Foxtrot—Swanee Syncopators, "Honest" (Tucker) (4329).
 Foxtrot—Eight Radio Stars, "A Happy Ending" (Brown) (4311).
 9.57: Vocal novelty—Al Bernard, "The Preacher and the Bear" (Arazonia).
 Foxtrot—The Capriviators, "Building a Nest for Mary" (Rose).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "I'm Walking Around in a Dream" (Lewis) (4337).
 Waltz—Copley Plaza Orchestra, "Pagan Love Song" (Freed).
 10.9: Orchestra and Chorus—Blue Ridge Ramblers, (a) "Who Broke the Lock on the Hen-house Door?" (Smith); (b) "She'll Be Comin' 'Round the Mountain When She Comes" (Trdl.) (310).
 Foxtrot—Los Angeles Biltmore Hotel Orchestra, "Until You Get Somebody Else" (Kahn) (4337).
 Foxtrot—Arnold Johnson and His Orchestra, "Breakaway" (Cottler).
 10.21: Vocal duet—Lester McFarland and Robert Gardner, "Go and Leave Me If You Want To" (Trdl.) (293).
 Foxtrot—Arnold Johnson's Orchestra, "Big City Blues" (Gottler).
 Foxtrot—The Clevelanders, "What a Girl, What a Night" (Sanders).
 Waltz—Regent Club Orchestra, "Just an Old Love Affair" (Kahn).
 10.33: Male Quartet—Ritz Quartet—"Come West, Little Girl Come West"
 Foxtrot—Ben Bernie and His Hotel Roosevelt Orchestra, "Baby-Oh Where Can You Be?" (Koehler) (4488).
 Foxtrot—Ray Miller's Orchestra, "That's a Plenty" (4224).
 Foxtrot—Ben Bernie and His Hotel Roosevelt Orchestra, "Out Where the Moonbeams are Born" (Davis) (4438).
 10.48: Male Quartet—Ritz Quartet, "I'm Bringing a Red, Red Rose" (Kahn).
 Foxtrot—The Six Jumping Jacks, "Olaf" (Bibbs) (4219).
 Foxtrot—Ray Miller's Orchestra, "Angry" (Brunies) (422).
 Foxtrot—Rhythm Aces, "Ace of Rhythms" (Smith) (7071).
 11.0: God Save the King.

Thursday, February 20

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, FEBRUARY 20.

- 8.0: Afternoon session—Selected Studio Items by Lewis Eady Ltd. and Literary Selection by the Announcer.
 4.30: Close down.
 5.0: Children's session, conducted by "Peter Pan."
 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) (H.M.V. DA776).
 6.18: Tacet.
 6.15: Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihau 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) (H.M.V. DA776).
 6.27: Tacet.
 6.30: Waltzes—International Concert Orchestra, (a) "The Merry Widow" (Lehar); (b) "Luxembourg Waltz" (Lehar) (Zonophone EF9).
 Violin and guitar—Giulietta Morino, (a) "Harlequin's Serenade" (Drigo); (b) "Could I?" (Poggis) (Zonophone EE134).
 6.44: Tacet.
 6.45: Instrumental—New Light Symphony Orchestra, (a) "The Dancing Doll" (Poldini); (b) "At Dawning" (Cadman) (H.M.V. B2629).
 Wurlitzer organ—Jesse Crawford, "Carolina Moon" (Davis).
 Instrumental—Royal Opera Orchestra, "The Sleeping Beauty" (Tschalkowsky) (H.M.V. C1469).
 6.58: Tacet.
 7.0: Book Review.
 7.15: News and market reports.
 7.40: Talk—Mr. John Cook, J.P., under the auspices of the League of Nations Union, "Women and Children and War."
 8.0: Chimes.
 Orchestral—1YA Orchestral Octet, conducted by Eric Waters, "May Day Overture" (Wood).
 8.10: Soprano—Miss Chrissie Foster, (a) "I Love the Moon" (Rubens); (b) "Comin' Through the Rye" (Burns).
 8.17: Hawaiian—Waikiki Duo, (a) "Kohala March" (Awai); (b) ukulele, "Hula Medley" (Tarera).

- 8.25: **Orchestral**—1YA Orchestral Octet, (a) "Carissima" (Elgar); (b) "Chanson Sans Paroles" (Tchaikowsky).
- 8.34: **Novelty**—The Asquiths, "Twenty Minutes Drawingroom Entertainment."
- 8.54: **Orchestral**—1YA Orchestral Octet, "Ballet Egyptian, Part 1" (Luigini).
- 9.3: **Evening weather forecast and announcements.**
- 9.5: **Orchestral**—1YA Orchestral Octet, "Faust Suite": On the Hill, Children's Song, The Laboratory, The Sorcerer, Marguerita, Garden Scene (Lazzari).
- 9.14: **Soprano**—Miss Chrissie Foster, "Pale Moon" (Logan).
- 9.18: **Hawaiian**—Walkiki Duo, (a) "Honolulu March" (Awai); (b) "Pagan Love Song" (Brown).
- 9.25: **Orchestral**—1YA Orchestral Octet, "Clovertown Selection" (Wood).
- 9.34: **Programme of dance music**—"Columbia."
- 9.34: **Foxtrot**—Ben Selvin's Orchestra, "Broadway Melody" (Brown).
Leo Reisman's Orchestra, "My Castle in Spain" (Friend) (01544).
Broadway Nitelites, "You Were Meant for Me" (Brown) (01491).
The Knickerbockers, "That's the Good Old Sunny South" (Ager).
- 9.42: **Entertainer**—Norman Long, "What Did the Village Blacksmith Say?" (Squires) (01533).
Foxtrot—Ben Selvin's Orchestra, "He, She and Me" (Lombardo).
Paul Whiteman's Orchestra, "Louise" (Whiting) (07022).
Foxtrot—Ipana Troubadours, "Deep Night" (Henderson) (01539).
Waltz—Paul Whiteman's Orchestra, "Blue Hawaii" (Baer).
Paul Whiteman's Orchestra, "My Angeline" (Wayne) (07020).
- 10.0: **Duet**—Flotsam and Jetsam, "We Never Know What to Expect" (Flotsam and Jetsam) (01530).
Foxtrot—Piccadilly Players, "Make Believe" (Kern) (01408).
Jan Garber's Orchestra, "Guess Who" (Davison) (01489).
Piccadilly Players, "Why Do I Love You?" (Kern) (01408).
Paul Specht's Orchestra, "My Annapolis and You" (Weinberg).
- 10.15: **Organ**—Frederick Curzon, "For Old Times Sake" (de Sylva).
Foxtrot—Gil Dech's Syncopators, "My Mammy" (Lewis) (01520).
Stellar Dance Band, "If I Had You" (Shapiro) (Regal G20456).
Reser's Syncopators, "Here Comes the Show Boat" (Rose) (01533).
Harry Reser's Syncopators, "Where Did You Get That Name?" (Klein).
- 10.30: **Entertainer**—Norman Long, "Overture 1929" (Carlton) (01533).
Foxtrot—Gelder's Kettner Five, "Shout Hallelujah, 'Cause I'm Home" (Dixon) (G20476).
Paul Whiteman's Orchestra, "Nola" (Arndt) (07022).
Stellar Dance Band, "How About Me?" (Berlin) (Regal G20456).
Geoffrey Gelder's Kettner Five, "Happy Days and Lonely Nights" (Rose) (Regal G20476).
Waltz—Paul Whiteman's Orchestra, "Coquette" (Berlin) (07021).
- 10.48: **Vocal duet**—Flotsam and Jetsam, "When I Grow Old, Dad" (Flotsam and Jetsam) (01530).
Foxtrot—Stellar Dance Band, "Flower of Love" (Dreyer) (Regal).
Paul Whiteman's Orchestra, "Chinese Lullaby" (Bowers) (07020).
Waltz—Gil Dech's Syncopators, "I'll Always be in Love with You" (Ruby) (01520).
Waltz—Stellar Dance Band, "Marie" (Berlin) (Regal G20486).
- 11.0: **God Save the King.**
- 2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, FEBRUARY 20.**
- 3.0: **Chimes.** Selected items.
- 3.30 and 4.30: **Sports results.**
- 4.40: **Lecturette**—Miss Flora Cormack, "A Day in the Kitchens of Hollywood."
- 5.0: **Children's session.**
- 6.0: **Dinner music session**—"Columbia" Hour.
Waltz—Symphony Orchestra, "Artists' Life" (Strauss) (02577).
Instrumental—Columbia Symphony Orchestra, "Al Fresco" (Herbert).
Foxtrot—La Nuova Orchestra, "Di Napoli" (Romani) (01490).
Band—H.M. Grenadier Guards, "La Paloma" (Yradier) (0987).
- 6.13: **Tacet.**
- 6.15: **Instrumental**—Ketelbey's Orchestra, "In a Monastery Garden" (Ketelbey) (02688).
Waltz—Jacque Jacob's Ensemble, "Over the Waves" (Rosas) (02556).
- 6.27: **Tacet.**
- 6.30: **Instrumental**—Columbia Symphony Orchestra, "Bandinage" (Herbert).
Waltz—Royal Serbian Tambouritza Orchestra, "Kosovo" (01490).
Waltz—Symphony Orchestra, "Tales from the Vienna Woods" (Strauss).
March—H.M. Grenadier Guards Band, "Twist and Twirl" (Kottau).
- 6.43: **Tacet.**
- 6.45: **Waltz**—Royal Philharmonic Orchestra, "Blue Danube" (Strauss).
Waltz—Jacque Jacob's Ensemble, "Espana" (Waldteufel) (02560).
- 6.57: **Tacet.**
- 7.0: **News session, market reports and sports results.**
- 7.40: **Lecturette**—Hare Hongi, "Maori Pronunciation."
- 8.0: **Chimes.**
Studio concert by the Band of 1st Battalion Wellington Regiment (Conductor, Lieut. B. J. Shardlow), assisted by 2YA Artists.
Overture—1st Battalion Wellington Regimental Band, "Light Cavalry" (Suppe).
March—"Territorial" (Blankenburg).
- 8.13: **Quartet**—The Meistersingers Male Voice Quartet, "O Peaceful Night" (German).
- 8.17: **Tenor**—Mr. Sam Duncan, (a) "A Spirit Flower" (Campbell-Tipton); (b) "Somewhere a Voice is Calling" (Tate).
- 8.23: **Pianoforte**—Mr. Norman Izett, (a) "Variations on Kathleen Mavourneen" (Beyer); (b) "The Fountain" (Smith).
- 8.31: **Humour**—Mr. Harry Painter, "Little Jack Horner" (Travesty Homily) (Ganthony).
- 8.38: **Cornet solo with band accompaniment**—Lieut. B. J. Shardlow, "Annie Laurie" (Air Varie) (Rimmer).
- 8.44: **Contralto**, Miss Lily Hambley, (a) "One Fleeting Hour" (Lee); (b) "A Request" (Woodforde-Finden).
- 8.50: **Duet**—Messrs. E. W. and W. J. Robbins, "Here's to the Maiden" (17th century air) (arrgd. Newton).
- 8.54: **Waltz**—1st Battalion Wellington Regimental Band, "The Old Abbey" (Rimmer).
- 9.0: **Weather report and announcements.**
- 9.2: **Bass**—Mr. W. L. Burch, (a) "Hats Off to the Stoker" (Arundale); (b) "Good Night" (Eastman).
- 9.8: **Novelty Instrumental**—Green Bros. Marimba Novelty Orchestra, "Underneath the Blue Hawaiian Skies" (Wossermann) (Regal).
- 9.11: **Tenor**—Mr. E. W. Robbins, (a) "Drink to Me Only" (Quilter); (b) "Until" (Sanderson).
- 9.17: **Fantasia**—1st Battalion Wellington Regimental Band, "A Melodious Revue" (Rimmer).
- 9.27: **Humour**—Mr. Harry Painter, "The Furniture Remover" (Weston).
- 9.34: **Duet**—Messrs. S. Duncan and W. L. Burch, "Larboard Watch" (Williams).
- 9.38: **Contralto**—Miss Lily Hambley, "My Dear Soul" (Sanderson).
- 9.42: **Fantasia**—1st Battalion Wellington Regimental Band, "The Bells of Aberdovey" (Rimmer).
- 9.50: **Baritone**—Mr. W. J. Robbins, "The Song of the Bow" (Aylward).
- 9.54: **Quartet**—The Meistersingers Male Voice Quartet, "The Three Chafers" (Trulin).
- 9.58: **Foxtrot**—1st Battalion Wellington Regimental Band, "Just a Night for Meditation" (Ord Hume).
March—"The Gladiator's Farewell" (Blankenburg).
- 10.7: **God Save the King.**
- 3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, FEB. 20.**
- 3.0: **Afternoon session**—Gramophone Recital.
- 4.25: **Sports results.**
- 4.30: **Close down.**
- 5.0: **Children's Hour**, conducted by Uncle Frank.
- 6.0: **Dinner Session**, "H.M.V." Hour.
Orchestral—Berlin State Opera Orchestra, "Polonaise" (Liszt).
Violin—Isolde Menges, "Nocturne in E Flat Op. 9 No. 2" (Chopin).
- 6.13: **Tacet.**
- 6.15: **Band**—H.M. Coldstream Gaurds, "La Fille Madame Angot" (Lecocq).
Piano—Mark Hambourg, "Rakoczy March" (Liszt) (C1439).
Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music" 1st Movement (Mozart).
- 6.29: **Tacet.**
- 6.30: **Orchestral**—John Barbirolli's Chamber Orchestra, "Little Night Music 2nd, 3rd, 4th Movements." (C1655-6).
Piano—Mark Hambourg, "On Wings of Song" (Mendelssohn) (C1439).
- 6.44: **Tacet.**
- 6.45: **Quartet**—Virtuoso String Quartet, "Londonderry Air" (Arrgd. Bridge).
Violin—Isolde Menges, "Air on G String" (Bach) (D1288).
Quartet—Virtuoso String Quartet, "The Emperor" Quartet Op. 76, No. 3 (C1470).
- 7.0: **News session.**
- 7.30: **Lecturette**—Mr. E. J. Lukey, Live Stock Division, Department of Agriculture, "Sheep Dipping," arranged by 3YA Primary Productions Committee.
- 8.0: **Chimes.**
Classical and Miscellaneous programme
Instrumental—Studio Instrumental Octet, "Conductor Mr. Harold Beck, "Three Dances" (German).
- 8.8: **Quartet**—Grand Opera Quartet, "The Wood Minstrels" (Mendelssohn).
Soprano—Madame Gower-Burns, (a) "Naught to My Heart" (Dvorak).
(b) "Like to a Linden Tree Am I" (Dvorak).
- 8.18: **Instrumental**—Trios, De Groot Bor and Calve, (a) "Mirage" (Coates) (H.M.V. B3028); (b) "I Zingari" (Leoncavallo).
- 8.24: **Duet**—Tenor and Baritone, Grand Opera Male Duo, "The Fisherman" (Gabussi).
- 8.28: **Bass**—Mr. Jas. Filer, "I Will Not Grieve" (Burns).
- 8.31: **Instrumental**—Studio Instrumental Octet, Three Songs, (a) "Hindoo Song" (Bemberg); (b) "At Evening" (Debussy), (c) "Open Thy Blue Eyes" (Massenet).
- 8.40: **Dramatic Recital**—Mr. W. H. Moses "The Highwayman" (Noyes).
- 8.47: **Mezzo-contralto**—Miss Mavis Spiller, "Green Hills o' Somerset" (Coates).
Tenor—Mr. Ernest Rogers, "The Dream" (Rubinstein).
- 8.54: **String Quartet**—Studio String Quartet, "Andante from String Quartet" (Tchaikowsky); (b) "Moment Musicale" (Schubert).
- 9.1: **Weather report and Announcements.**
- 9.5: **Organ and Cornet**—R. Arnold Grier, "Softly Awakes My Heart" from "Samson and Delilah" (Saint Saens) (Zonophone A309).
- 9.11: **Soprano**—Madame Gower-Burns, Aria, "The Sad Years Roll By" from "L'Enfant Prodigue" (Debussy).
- 9.15: **March**—National Military Band, "Tannhauser March" (Wagner).
- 9.18: **Bass**—Mr. Jas. Filer, "The Arrow and the Song" (Balfe). Contralto, Miss Mavis Spiller, "Sunset" (Coates).
- 9.25: **Instrumental**—Studio String Octet, concerto in A Minor for violin and orchestra, Miss Irene Morris and Octet, (Accolay).

- 8.35: Recitation—Mr. W. H. Moses, "The Boon of Discontent" (from "The Back Blocks Ballads" (C. J. Dennis).
- 9.40: Duet soprano and mezzo-contralto—Grand Opera, Ladies' Duo, "Farewell to Summer" (Noel Johnson).
- 9.44: Organ—Arthur Meale, "March on a Theme by Handel" (Guilmant).
- 9.47: Tenor—Mr. Ernest Rogers, (a) "On Wings of Music" (Mendelssohn); (b) "Tell Me, Charming Creature" (Lane-Wilson).
- Quartet—Grand Opera Quartet, "Departure" (Mendelssohn).
- 9.55: Instrumental—Studio Instrumental Octet, (a) "Scene de Ballet" (Tscherepinne); (b) "Vecchio Minnetto" (Sgambati).
- God Save the King.

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

SILENT DAY.

Friday, February 21

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, FEBRUARY 21.

- 3.0 : Afternoon session—Selected studio items and literary selection by the Announcer.
- 4.30: Close down.
- 5.0 : Evening session.
- Children's session, conducted by "Nod" and "Aunt Jean."
- 6.0 : Dinner session—"Columbia" Hour:
- Orchestral—Mengalberg's Concertgebouw Orchestra, "Oberon" Overture, Parts 1 and 2 (Weber) (04347).
- Octet—Squire's Chamber Orchestra, "L'Arlesienne Suite": Intermezzo (Bizet) (02984).
- 6.13: Tacet.
- 6.15: Orchestral—Menorah Symphony Orchestra, "Shulamith" Selection.
- Band—B.B.C. Wireless Military Band, "Indian Queen" (arr. C. Sharp).
- Octet—Squire's Chamber Orchestra, "L'Arlesienne Suite": Minuet (Bizet) (02984).
- 6.29: Tacet.
- 6.30: Orchestral—New Queen's Hall Orchestra, "Slavonic Dance in G Minor" (Dvorak) (04348).
- Band—B.B.C. Wireless Band, "Helston Furry Processional" (02981).
- Orchestral—Classic Symphony Orchestra, "Classical Memories" (arr. M. Ewing) (G30024).
- 6.44: Tacet.
- 6.45: Octet—Squire's Celeste Octet, "Ave Maria" (Bach) (02569).
- Orchestral—B.B.C. Wireless Symphony Orchestra, "Il Trovatore" (Verdi) (G30025).
- Octet—Squire's Celeste Octet, "On Wings of Song" (Mendelssohn).
- 7.0 : News and market reports.
- 8.0 : Chimes. Relay of concert from Lewis Eady Hall.
- 8.30: Instrumental trio—Studio Trio, "Scherzo from Trio, Op. 50" (Reissiger).
- 8.36: Lecture-recital—Mrs. Daisy Basham, assisted by Miss Millicent O'Grady and Mr. Len Barnes: "Schubert."
- 8.51: 'Cello—Miss Molly Wright, "Harlequin" (Popper).
- 8.59: Evening weather forecast and announcements.
- 9.1 : Instrumental trio—Studio Trio, "Gavotte, Louis XIII" (with dulcitone) (Volkmann).
- 9.8 : Lecture-recital—Mrs. Daisy Basham, assisted by Miss M. O'Grady and Mr. Len Barnes: "Schubert."
- 9.23: Instrumental trio—Studio Trio, "Scenes from the Musical Picture Book": In the Mill; By the Sea; The Cuckoo and the Traveller" (Volkmann).
- 9.30: Recital—Mr. Karl Atkinson, "Gramophone Lecture-Recital": Chamber music without yawns.
- 10.0: God Save the King.

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

- 3.0 : Chimes. Selected items.
- 3.30 and 4.30: Sports results.
- 4.55: Close down.
- 5.0 : Children's session.
- 6.0 : Dinner music session—"H.M.V." Hour:
- Orchestral—New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai) (H.M.V. C1260).
- Waltz—Marek Weber's Orchestra, "Moonlight on the Alster" (Fetras).
- 6.12: Tacet.
- 6.15: Intermezzo—New Light Symphony Orchestra, "Hearts and Flowers" (Tobani) (Zono. EF20).
- Waltz—Marek Weber's Orchestra, "Wine, Women, and Song" (Weber).
- Wurlitzer organ—Reginald Foort, "By the Blue Hawaiian Waters" (Ketelbey) (C1459).
- 6.26: Tacet.
- 6.30: Orchestral—New Light Symphony Orchestra, "The Glow-Worm Idyll" (Lincke) (Zono. EF20).
- Orchestral—Victor Salon Orchestra:
- "Indian Love Call" ("Rose Marie") (Friml) (EA186).
- "The World is Waiting for the Sunrise" (Lockhart) (EA186).
- Orchestral—De Groot and his Orchestra, "When Summer is Gone" (Harrison Wilhite) (H.M.V. B2035).

6.43: Tacet.

- 6.45: Orchestral—De Groot's Orchestra, "The Merry Widow" (Lehar).
- Wurlitzer organ—Reginald Foort, (a) "Leave Me Alone," (b) "Song My Mother Taught Me" (Dvorak) (C1459).
- 6.57: Tacet.
- 7.0 : News session—Market reports and sports results.
- 7.40: Lecturette—Mr. R. Howard Taylor, "Foot Health."
- 8.0 : Chimes.
- 8.1 : Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "The Bohemian Girl" (Baife).
- 8.13: Soprano—Miss Marjorie Bennie, "Mignon's Song" (Thomas).
- 8.17: Baritone—Mr. L. Bent, "Eri Tu," from "Masked Ball" (Verdi).
- 8.21: Selection—2YA Orchestra, "Hansel and Gretel" (Humperdinck).
- 8.33: Entertainers—Mr. and Mrs. Albert Russell, (a) "Yawning" (Weston), solo, (b) "Shadows" (Finck), duet, (c) "Green Hills of My New Zealand" (Wallace).
- 8.45: Contralto—Miss Mary Bald, "Caro Mio Ben" (Giordanni).
- 8.49: Tenor—Mr. Charles Edwards, "On with the Motley," from "Pagliacci" (Leoncavallo).
- 8.53: Selection—2YA Orchestra, "Werther" (Massenet).
- 9.3 : Weather report and announcements.
- 9.5: Soprano—Miss Marjorie Bennie, "Ave Maria" from "Cavalleria Rusticana" (Mascagni).
- 9.9 : Pianoforte—Miss Adelaide Long, "Reverie" (Chaminade).
- 9.16: Baritone—Mr. L. Bent, "One Alone," from "Desert Song" (Romberg).
- 9.20: Band—National Military Band, overture, "The Flying Dutchman" (Wagner) (Zonophone A369).
- 9.28: Entertainers—Mr. and Mrs. Albert Russell, (a) "Twenty Thousand Scotchmen" (Weston), (b) "Pretty Poll" (Monckton).
- 9.36: Contralto—Miss Mary Bald, "In Questa Tomba" (Beethoven).
- 9.40: 'Cello—W. H. Squire, "The Prize Song" from "The Meistersingers" (Wagner, arr. Squire) (Columbia 04267).
- 9.44: Tenor—Mr. Charles Edwards, "Ah! Moon of My Delight" (Lehmann).
- 9.48: Concerted with orchestra—Light Opera Company, Vocal Gems from "Maritana" (Wallace) (H.M.V. C1693).
- 9.56: Concert valse—2YA Orchestra, "Soiree d'Ete" (Summer Evening) (Waldteufel).
- 10.4 : Close down.
- 3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, FEBRUARY 21.
- 3.0 : Afternoon session—Gramophone recital.
- 4.25: Sports results.
- 4.30: Close down.
- 5.0 : Children's Hour, "Storyman."
- 6.0 : Dinner session—"Columbia" Hour:
- Selection—H.M. Grenadier Guards Band, "New Sullivan Selection" (arr. Godfrey) (02731).
- Waltz—Court Symphony Orchestra, "Destiny Waltz" (Baynes) (564).
- 6.12: Tacet.
- 6.15: Orchestral—Columbia Symphony Orchestra, "Idilio" (Lack) (1076).
- Suite—New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (1) La Caprice de Nanette, (2) Demande et Reponse (02588).
- 6.26: Tacet.
- 6.30: Suite—New Queen's Hall Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (1) Un Sonnet d'Amour, (2) La Tarantelle Fretilante (02589).
- 6.42: Tacet.
- Wurlitzer organ solo—Terence Casey, "I'm Lonely" (Coates) (01501).
- 6.45: Dance suite—H.M. Grenadier Guards Band, "Neil Gwynn Dances" (German): (1) Country Dance, (2) Pastoral Dance (01329).
- Orchestral—Columbia Symphony Orchestra, "Spring Song" (Mendelssohn) (Columbia 01076).
- Waltz—Symphony Orchestra, "Morgen Blatter" (Strauss) (Col. 9218).
- 6.58: Tacet.
- 7.0 : News session.
- 8.0 : Chimes. Overture—Paul Whiteman and his Orchestra, "Liebestraum" (Liszt, arr. Bargey) (Columbia 07150).
- 8.9 : Quartet—Valencia Quartet, "It was the Time of Roses" (Robertson).
- Soprano—Miss Lucy Fullwood, "The Splendour of the Morn" (Sanderson).
- 8.12: Cornet—Mr. Norman G. Goffin, "Zanette" (Percy Code).
- 8.18: Baritone—Mr. E. J. Johnson, "There's a Land" (Allitsen).
- 8.21: 'Cello—Mr. Harold Beck, (a) "Chant d'Amour" (Casella), (b) "La Danza" (Rossini).
- 8.27: Soprano—Miss Lucy Fullwood, "The Pipes of Pan" (from "Arcadians") (Monckton).
- 8.34: Humour—Mr. George Titchener, "I'm So Spiteful When I'm Wild" (Merson).
- 8.39: Instrumental—Christchurch Broadcasting Trio, (a) "Intermezzo" (Mathais), (b) "Humoresque" (Widor).
- 8.49: Miss Mary Taylor, "The Glory of the Sea" (Sanderson).
- Tenor—Mr. T. G. Rogers, "Alice, Where Art Thou?" (Ascher).
- 8.56: Cornet—Mr. Norman G. Goffin, "Wendouree" (Percy Code).
- 9.1 : Weather report and announcements.
- 9.3 : Quartet—Valencia Quartet, "The Dear Little Shamrock" (Jackson).
- 9.7 : 'Cello—Mr. Harold Beck, "Dance of the Gnomes" (Popper).
- 9.11: Humour—Mr. George Titchener, "Would You Mind Passing the Salt?" (George Brooks).
- 9.16: Duet, tenor and bass—Toledo Duo, "Love and War" (Cooke).

- 9.20: Instrumental—Christchurch Broadcasting Trio, (a) "In the Woodland" (Oeki-Albi), (b) "La Coquette" (Translatour).
- 9.30: Tenor—Mr. T. G. Rogers, "Good Company" (Stephen Adams).
Quartet—Valencia Quartet, "O Hush Thee, My Baby" (Sullivan).
- 9.34: Dance music—"H.M.V.":
Foxtrot—Vallee's Connecticut Yankees, "Heigh Ho! Everybody, Heigh Ho!" (Woods) (EA614).
Foxtrot—Shilkret's Orchestra, "Hittin' the Ceiling" (Gottler) (B5662).
Foxtrot—Weems' Orchestra, "Good Morning, Good Evening, Good Night" (Lewis) (EA615).
Shilkret's Orchestra, "Sing a Little Love Song" (Gottler) (B5662).
- 9.42: Vocal duet—Dora Maughan and Walter Fehl, "That's Just What I Thought" (B3000).
Foxtrot—Vallee's Connecticut Yankees, "S'posin'" (Razaf) (EA582).
Foxtrot—Arnheim's Orchestra, "Lovable and Sweet" (Clare) (EA608).
Foxtrot—Olsen's Orchestra, "Out Where the Moonbeams are Born" (Davis) (EA611).
Foxtrot—Reisman's Orchestra, "When You Come to the End of the Day" (Westphal) (EA581).
- 9.57: Piano duet—Arden-Ohman, "Ragamuffin" (Greer) (EE166).
Foxtrot—Shilkret's Orchestra, "Junior" (Donaldson) (EA599).
Foxtrot—Waring's Pennsylvanians, "When My Dreams Come True" (Berlin) (EA592).
Foxtrot—Reisman's Orchestra, "Gay Love" (Clarke) (EA625).
Foxtrot—Waring's Pennsylvanians, "My Sin" (De Sylva) (EA592).
- 10.12: Humour—Leonard Henry, "What did the Village Blacksmith Say?" (Henry) (B3013).
Foxtrot—Shilkret's Orchestra, "Used to You" (De Sylva) (EA587).
Foxtrot—All Star Orchestra, "My Dream Memory" (Clare) (EA608).
Foxtrot—Shilkret's Orchestra, "Why Can't You?" (De Sylva) (EA587).
Waltz—The Troubadours, "My Heart is Bluer than Your Eyes" (Bryan).
- 10.30: Piano duet—Victor Arden, Phil Ohman, "Dance of the Paper Dolls" (Tucker) (EE166).
Foxtrot—Vallee's Connecticut Yankees, "Miss You" (Tobias) (EA614).
Foxtrot—Reisman's Orchestra, "Ain't Misbehavin'" (Razaf) (EA612).
Foxtrot—Vallee's Connecticut Yankees, "The One in the World" (Little) (EA582).
- 10.42: Foxtrot—Geo. Olsen and His Music, "Reaching for Someone" (Leslie).
Vocal duet—Dora Maughan and Walter Fehl, "Eggs, Toast, and Coffee" (Merrill) (B3000).
Foxtrot—Hylton's Orchestra, "You're the Cream in My Coffee" (De Sylva) (B5650).
Foxtrot—Vallee's Connecticut Yankees, "Every Moon's a Honeymoon" (Wimbrow) (EA581).
Foxtrot—Hylton's Orchestra, "To Know You is to Love You" (De Sylva) (B5650).
Waltz—Reisman's Orchestra, "Evangeline" (Rose) (EA615).
- 11.0: God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, FEBRUARY 21.

- 2.0: Chimes.
- 2.1: Relay from New Town Hall of Children's Entertainment. Programme (a) National Anthem, Civic Address, and Organ Recital by Dr. Price. (Limit to twenty (20) minutes).
- 2.30: (b) Children's items (Limit to five (5) minutes each):—1. Brass Band selection, Albany Street. 2. Rhythmic Dance, Archerfield. 3. Unison and Chorus, Christian Brothers. 4. Folk dance, Normal. 5. Chorus, North East Valley. 6. Violin solo, St. Dominics. 7. Playette, Anderson's Bay. 8. Physical Display, St. Kildas. 9. Part song, High Street. 10. Dance, St. Clair. 11. Brass Band selection, St. Joseph's. 12. _____, 13. Part song, George Street. 14. Action song, Caversham. 15. Folk dance, Macandrew Road. 16. Orchestral selection, St. Philomena's. 17. Part song, Columbia. 18. Recitation, Moray Place. 19. Rhythmic dance, Arthur Street. 20. Action song, St. Patrick's. 21. Anthem (with organ), Kaikorai.
- Close down.
- 5.0: Children's Hour, conducted by Aunt Sheila.
- 6.0: Dinner music, "Columbia" hour.
Overture—Basle Symphony Orchestra, "Der Frieschutz" (Weber).
- 6.12: Tacet.
- 6.15: Instrumental—J. H. Squire's Celeste Octet, "The Grasshoppers' Dance" (Bucalossi) (3608); (b) "The Butterfly" (Bendix).
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) "Amoureuse" valse (Berger); (b) "Valse Bleue" (Margis) (3643).
- 6.42: Tacet.
- 6.45: Instrumental—J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein) (02581).
'Cello—W. H. Squire's "Sarabande" (Seilzer) (04283).
Instrumental—J. H. Squire's Celeste Octet, "Perpetuum Mobile" (Weber, arrgd. Crooke) (Columbia 02581).
- 6.57: Tacet.
- 7.0: News session.
- 8.0: Chimes.
Overture—Columbia Symphony Orchestra, "Poet and Peasant" (Suppe) (Columbia 02618).

- 8.9: Soprano—Miss Molly Vickers, "My Rose" (Lacy).
- 8.13: Selection—The Celeste Quintet, (a) "Commedietta" (Gurlitt) (b) (Coronation March" (Knetschmer).
- 8.23: Recital—Miss Anita Winkel, "Two Irish Poems" (Winifred Letts).
- 8.29: Baritone—Mr. William Ruffell, (a) "Captain Mac" (Sanderson); (b) "Sylvia" (Speaks).
- 8.37: Instrumental—The Celeste Trio, "Trio in C Minor 1st Movement" (Turner).
- 8.46: Male Choir—Male Voice of Vienna, "Die Nacht" (Schubert).
- 8.50: Bass—Mr. W. B. Lambert, "The King Goes Forth to War" (Koeneman).
- 8.54: Instrumental—The Celeste Quintet, (a) "Valse Triste" (Sibelius); (b) "Dans La Foret" (Gillet).
- 9.2: Weather report.
- 9.4: Contralto—Miss Madge Clague, three songs from Brahms. 1. "Sunday"; 2. "The Forge"; 3. "The Sandman."
- 9.15: 'Cello—Miss Marjorie Smith, (a) "The Preislied" from "Die Meistersingers" (Wagner); (b) "A Memory" (Goring Thomas).
- 9.21: Recitals—Miss Anita Winkel, "More Irish Poems" (Letts).
- 9.26: Baritone—Mr. William Ruffell, "The Windmill" (Nelson).
- 9.31: Instrumental—The Celeste Quintet, "Three Waltzes by Carse" (Carse).
- 9.41: Soprano—Miss Molly Vickers, (a) "Oh, No, John" (trdt.); (b) "Sal-aam" (Lang).
- 9.48: Piano—Mrs. C. Drake, "Moonlight" (Palmgren).
- 9.53: Bass—Mr. W. B. Lambert, (a) "Spanish Gold" (Fisher); (b) "The Carpet" (Sanderson).
- 9.59: Instrumental—The Celeste Quintet, "Turkish March" from "The Ruins of Athens" (Beethoven).
God Save the King.

Saturday, February 22

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, FEBRUARY 22.

- 3.0: Afternoon session—Selected Studio Items, and Literary Selection by the Announcer.
- 4.30: Close down.
- 5.0: Children's Session, conducted by Cinderella.
- 6.0: Dinner Session, "Columbia" Hour.
Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder Medley" (Lauder) (02750).
Waltz—Symphony Orchestra, "Doctrinen" (Strauss) (02529).
- 6.2: Tacet.
- 6.15: Piano—Gil Dech, "Wedding of the Painted Doll" (Freed) (01549).
Piano—Constance Mering, "So Dear" (Caesar) (01224).
Waltz—Medley—Eddie Thomas' Collegians (02904).
Saxophone—Rudy Wiedoeft, "Minuet" (Beethoven) (01176).
- 6.28: Tacet.
- 6.30: Mandoline Band—Circo Mandolinistico, "La Traviata-Prelude Acts 1 and 4" (Verdi) (02566).
Waltz—Symphony Orchestra, "When the Lemons Bloom" (Strauss).
- 7.42: 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 and Market Reports.
- 8.0: Chimes.
Orchestral—1YA Orchestral Octet, conducted by Eric Waters, "Artist's Life" (waltz) (Strauss).
- 8.10: Vocal Quartet—Hayden Quartet, "Isa Gwine Back to Dixie" (White).
- 8.13: Tenor—Mr. R. Errington, (a) "Annie Laurie" (arrgd. Lehmann); (b) "Mother Machree" (Ball).
- 8.20: Humour—Mr. T. T. Garland, "Humour."
- 8.24: Accordion—Fomeen Trio, "Oriental One Step" (Fomeen).
- 8.27: Contralto—Miss Edna Peace, "A Dream Garden" (Phillips).
- 8.31: Vocal Trio—The Snappy Three, (a) "If I Had My Way" (Green); (b) "Junior" (Donaldson).
- 8.37: Dialogue—Venie Clemens, "Humorous Stories About Children Pt. 1."
- 8.40: Orchestral—1YA Orchestral Octet, "Ball Scene" (Nicode).
- 8.48: Comedy—Frank Leo and party, "Arry and Family at the Zoo," Pts. 1 and 2. (Leo) (Zonophone 1533).
- 8.56: Evening Weather Forecast and Announcements.
- 8.58: Orchestral—1YA Orchestral Octet, "Callirhoe Ballet" (Chaminade).
- 9.6: Tenor—Mr. R. Errington, "La Donna E Mobile" (Verdi).
- 9.70: Siffleur—Albert Whelan, "The Whistling Bowery Boy."
- 9.13: Contralto—Miss Edna Peace, (a) "An Indian Squaw's Song" (Morgan); (b) "An Indian Lullaby" (Morgan).
- 9.20: Vocal Trio and Piano Jazz number—The Snappy Three, (a) "Blue Night" (Rollins); (b) "Just Like a Melody" (Donaldson); (c) "Piano Number-Selected."
- 9.30: Novelty—Victoria Trio, "La Sorella" (Gallini) (Zonophone A342).
- 9.33: Orchestral—1YA Orchestral Octet, Three Cradle Songs, (a) "Berceuse" (Kargenoff), (b) "Berceuse" (Sibelius) (c) "Berceuse" (Schumann).
- 9.41: Humour—Mr. T. T. Garland "A Fireside Chat."
- 9.48: Novelty—Victoria Trio, "The Prince Waltz" (Zonophone A343).
- 9.51: Orchestral—1YA Orchestral Octet, Selection, "Bits and Pieces" (arrgd. Baynes).
- 10.0: Programme of Dance Music. "H.M.V." Hour.
Foxtrot—Connecticut Yankees, "Where Are You Dream Girl?" (Davis).

- Ted Weem's Orchestra, "Here We Are" (Warren) (EA602).
 Connecticut Yankees, "Pretending" (Porter) (EA605).
 Ted Weem's Orchestra, "Piccolo Pete" (Baxter) (EA602).
 10.12: Vocal duet—Gladys Rice and Franklin Baur, "You're the Cream in My Coffee" (De Sylva) (EA616).
 Foxtrot—Gus Arnheim's Orchestra, "Now I'm in Love" (Shapiro).
 Jack Hylton's Orchestra, "Ever So Goosey" (Butler).
 Ted Weems' Orchestra, "Am I a Passing Fancy?" (Silver) (EA606).
 Waltz—Connecticut Yankees, "Underneath the Russian Moon" (Kendis) (EA565).
 Waltz—Hilo Hawaiian Orchestra, "Sparkling Waters of Waikiki" (Davis) (EA574).
 10.30: Tenor—Norton Downey, "The World is Yours and Mine" (Green).
 Foxtrot—Ted Weems' Orchestra, "What a Day!" (Woods) (EA606).
 Connecticut Yankees, "The One That I Love, Loves Me" (Turk).
 Coon Sanders' Orchestra, "The Flippity Flop" (Coslow) (EA610).
 Jack Hylton's Orchestra, "The Toymaker's Dream" (Golden).
 10.45: Vocal duet—Billy Murray and Walter Scanlon, "Oh, Baby, What a Night" (Brown) (EA613).
 Foxtrot—Gus Arnheim's Orchestra, "This is Heaven" (Yellen).
 Foxtrot—Gus Arnheim's Orchestra, "One Sweet Kiss" (Jolson).
 Foxtrot—Park Central Orchestra, "True Blue Lou" (Robin) (EA610).
 Waltz—Gus Arnheim's Orchestra, "Sleepy Valley" (Sterling).
 11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, FEBRUARY 22.

- 3.0: Chimes. Relay description of the Plunket Shield Cricket Match, Wellington versus Auckland, played at the Basin Reserve, interspersed with studio items. (Narrator, Mr. A. Varney.)
 5.0: Children's session.
 6.0: Dinner music session—"Columbia" Hour:
 Selection—Debroy Somers' Band, "The Desert Song" (Romberg).
 Waltz—Eddie Thomas's Collegians, "Moments With You" (Shilkret).
 Mandolin Band—"Turn to Surriento" (de Curtis) (01210).
 6.12: Tacet.
 6.15: Waltzes—International Concert Orchestra, (a) "Over the Waves" (Rosas), (b) "Danube Waves" (Ivanovici) (Zonophone EF3).
 Hawaiian—Hilo Hawaiian Orchestra, (a) "Kawaihau Waltz" (Kealakai), (b) "My Hula Love" (H.M.V. B2799).
 6.27: Tacet.
 6.30: Wurlitzer organ—"Merchant of Venice" Suite (Rosse): (1) Prelude, (2) Intermezzo, (3) Oriental March (02796).
 Mandolin Band—"Stephanie Gavotte" (Ozbulka) (01210).
 Saxophone—Rudy Wiedoeft, "Serenade" (Drigo) (01180).
 6.42: Tacet.
 6.45: Waltz—International Concert Orchestra, "Gipsy Love" (Lehar).
 New Light Symphony Orchestra, (a) "Barcarolle" ("Tales of Hoffman"—Offenbach), (b) "Cavalleria Rusticana—Intermezzo" (Mascagni) (B2377).
 Waltz—International Concert Orchestra, "Sweetheart" (Strauss).
 6.59: Tacet.
 7.0: News session—Market reports and sports results.
 7.40: Lecturette—Mr. W. M. Jackson, "Gladioli and Kindred Gardening Subjects."
 8.0: Chimes. Overture—2YA Salon Orchestra (Conductor, Mr. Mat Dixon), "Tosti's Popular Songs" (arr. Godfrey).
 8.9: Quartet—Melodie Four, "Comrades in Arms" (Adam).
 8.13: Mandolin Orchestra—Mrs. Mildred Kenny's Mandolin Orchestra, (a) "I'd Like to Steal Away to Hawaii and You" (Walker), (b) "Salome—Intermezzo" (Lorraine Kennedy).
 8.30: Tenor—Mr. Frank Bryant, "Maire My Girl" (Aitken).
 8.24: Contralto—Miss Ivy Stanton, "I Wonder if ever the Rose" (Slater).
 8.28: Selection—2YA Salon Orchestra, (a) "Trovatore Paraphrase" (arr. Lange), (b) "Dance of the Tea Dolls" (Schmidt-Hagen).
 8.36: Humour—Mr. Will Bishop will entertain with some of his own compositions, (a) "You're in Love" (Bishop), (b) "The Very Early Pre-Historic Days" (Bishop).
 8.43: Bass—Mr. W. W. Marshall, "The Lute-Player" (Allitsen).
 8.47: Quartet—Melodie Four, request item.
 8.51: Instrumental—2YA Salon Orchestra, request item.
 8.59: Weather report and announcements.
 9.1: Tenor—Mr. Sam Duncan, "Charmaine" (Rapee-Pollack).
 9.5: Vocal—George Sorlie, (a) "Tiptoe thru' the Tulips with Me" (Dublin-Burke), (b) "Painting the Clouds with Sunshine" (Dublin-Burke).
 9.11: Mandolin orchestra—Mrs. Mildred Kenny's Mandolin Orchestra, (a) "O'er the Lagoon" (Paroletti), (b) "The Cadet's Dream" (Lansing).
 9.18: Baritone—Mr. R. S. Allwright, "The Midshipmite" (Adams).
 9.22: Selection—2YA Salon Orchestra, "The Little Dutch Girl" (Kalman).
 9.30: Humour—Mr. Will Bishop in some fewer numbers of his own composition, (a) "We Grin and Bear It" (Bishop), (b) "A Fishy Fishing Story" (Bishop).
 9.38: Organ—(a) "Mill in the Black Forest" (Ellenberg), (b) "St. Petersburg Sledge Drive" (Ellenberg) (Parlophone A2810).
 9.44: Contralto—Miss Ivy Stanton, "Come—for 'tis June" (Forster).
 9.48: Quartet—Melodie Four, "The Evolution of a Quartet" (original).
 9.52: Instrumental—2YA Salon Orchestra, Dance Novelties.
 10.2: Dance Music Programme—"H.M.V." Hour:
 Foxtrot—Rhythmic Eight, "Don't be like that" (Gottler) (Zono.).
 Foxtrot—Jack Hylton's Orchestra, "Sweetheart of All My Dreams" (Fitch) (EA540).

- Foxtrot—Arcadians Dance Orchestra, "Pokee-okee-oh" (Butler).
 Foxtrot—Jack Hylton's Orchestra, "I lift up My Finger and say 'Tweet, Tweet'" (Sarony) (EA540).
 10.12: Wurlitzer organ—Jesse Crawford, "A Precious Little Thing called Love" (Davis) (EA536).
 Foxtrot—Geo. Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn).
 Foxtrot—Nat Shilkret's Orchestra, "One for All, All for One" (Trent).
 Foxtrot—Heidt's Orchestra, "I'm ka-razy for You" (Jolson) (EA539).
 Waltz—Arcadians Dance Orchestra, "Anita" (Pollack) (Zono. EE154).
 Waltz—Arcadians Dance Orchestra, "That Old-time Organ Melody" (Carlton) (Zonophone EE155).
 10.40: Contralto—Lupe Velez, "Mi Amado" (EA535).
 Foxtrot—Geo. Olsen's Music, "Come West, Little Girl, Come West" (Kahn) (EA537).
 Foxtrot—Nat Shilkret's Orchestra, "I'm Thirsty for Kisses, Hungry for Love" (Davis) (EA528).
 Foxtrot—Nat Shilkret's Orchestra, "Some Sweet Day" (Shilkret).
 Foxtrot—Waring's Pennsylvanians, "My Mother's Eyes" (Gilbert).
 10.45: Wurlitzer organ—Jesse Crawford, "Carolina Moon" (Davis) (EA536).
 Foxtrot—"Kassels in the Air, 'He, She, and Me'" (Newman) (EA532).
 Foxtrot—Park Central Orchestra, "Sally of My Dreams" (Kernell).
 Waltz—Connecticut Yankees, "Coquette" (Berlin) (EA532).
 Waltz—Shilkret's Orchestra, "Lady Divine" (Shilkret) (EA531).
 11.0: Sporting summary.
 11.10: Close down.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SATURDAY, FEBRUARY 22.

- Results of Races, Canterbury Jockey Club's Meeting at Riccarton, interspersed with gramophone items.
 5.0: Children's Hour—"Peterkin."
 6.0: Dinner session—"Columbia" Hour:
 Orchestral—Herman Finck and his Orchestra, "Waldteufel Memories."
 Cello—W. H. Squire, "Gavotte" (Mehul) (03646).
 Orchestral—Sandler's Orchestra, "One Kiss," from "The New Moon" (Hazlett) (01753).
 6.13: Tacet.
 6.15: Band—B.B.C. Wireless Military Band, "Dance of the Tumblers" (Korsakov) (02893).
 Octet—Squire's Celeste Octet, "Funeral March of a Marionette" (Gounod) (01713).
 Saxophone—Chester H. Hazlett, "Valse Inspiration" (Hazlett) (01627).
 Orchestral—Plaza Theatre Orchestra, "Pearl o' Mine" (Fletcher).
 6.28: Tacet.
 6.30: Waltz—New Concert Orchestra, "Nights of Fragrance" (Ziehrer).
 Quartet—Squire's Celeste Octet, "Air on G String" (Bach) (01713).
 Saxophone—Chester Hazlett, "To a Wild Rose" (MacDowell) (01627).
 Orchestral—Plaza Theatre Orchestra, "Bal Masque" (Fletcher) (01638).
 6.43: Tacet.
 6.45: Selection—Sandler's Orchestra, "Softly as in a Morning Sunrise" (Romberg) (01753).
 Band—B.B.C. Wireless Military Band, "Golliwog's Cake Walk" (Debussy) (02893).
 Cello—W. H. Squire, "Madrigale" (Simonetti-Squire) (03646).
 Waltz—New Concert Orchestra, "Vienna Maidens" (Ziehrer) (02979).
 7.0: News session.
 7.30: Sports results.
 8.0: Chimes. Vaudeville and Dance Programme.
 8.1: Instrumental—Studio Instrumental Octet (conductor, Mr. Harold Beck), musical comedy selection, "Sally" (Kern).
 8.13: Soprano—Mrs. Ralph Sierokowski, "Neapolitan Nights" (Zamecnik).
 8.17: English concertina and ocarino—Mr. John Campbell, (a) "Il Bacio" (Arditi), (b) "Saxophobia" (Wiedoeft), (c) "Killarney" (Balfe).
 8.23: Popular song—Mr. Bernard Rennell, "The Song of the Waggoner" (Breville Smith).
 8.27: Instrumental—Studio Instrumental Octet, "Andantino" (Lemare), (b) "Hungarian Dance" (Delibes).
 8.37: Twenty minutes of mirth and melody by the Chatterboxes: Sketch, "The Cure" (French); song, "Ukulele Dream Girl" (Lowe); sketch, "The Recruit" (MS.).
 8.57: Novelty—Len Fillis Novelty Trio, "Heart of the Sunset" (Nicholls).
 9.0: Weather report and announcements.
 9.2: Instrumental—Studio Instrumental Octet, (a) "Magic of Love" (Vanis), (b) "Aubade Printaniere" (La Combe).
 9.10: Duet, soprano and baritone—The Dandy Duo, "Come, Sing to Me" (Thompson).
 9.13: Waltz—Ferera's Golden Hawaiians, "My Song of the Nile" (Meyer and Bryan) (Regal G20588).
 9.16: Soprano—Mrs. Ralph Sierokowski, (a) "Charmain" (Rapee), (b) "Just a Cottage Small" (Hanley).
 9.22: Popular song—Mr. Bernard Rennell, "That Tumbledown Shack in Athlone" (Monte Carlo).
 9.26: Instrumental—Studio Instrumental Octet, (a) "Serenade d'Amour" (Von Blon), (b) "Pizzicato Polka" (Strauss).
 9.33: Twenty minutes of mirth and melody by the Chatterboxes: Sketch, "The Difference" (French); humorous song, "Pottering Along" (Scott and Saunders); sketch, "Cohen Phones for a Phone" (Hayman).
 9.53: English concertina and ocarino—Mr. John Campbell, (a) "Double Eagle March" (Wagner), (b) "Rag Medley" (MS.), (c) "La Paloma" (Yradier).

- 9.59: Duet, soprano and baritone—The Dandy Duo, "The Girl and the Duck" (Newton).
- 10.2 : Instrumental—Studio Instrumental Octet, "All Alone Waltz" (Stothart).
- Dance Music—"Brunswick" Hour:
- Foxtrot—Red Nicholls and his Five Pennies, "I May Be Wrong" (Ruskin-Sullivan) (4500).
- Foxtrot—Bob Haring and his Orchestra, "How am I to Know?" (Parker-King) (4495).
- Foxtrot—Irving Mills and his Hotsy Totsy Gang, "Can't We Get Together" (Razaf) (4482).
- Foxtrot—Ben Bernie and his Hotel Roosevelt Orchestra, "Bottoms Up" (Friend-White) (4516).
- *0.12: 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" (Le-mare) (4352).
- Foxtrot—Irving Mills and his Hotsy Totsy Gang, "Sweet Savannah Sue" (Razaf) (4482).
- Waltz—Carter's Orchestra, "On Miami Shore" (Le Baron) (4471).
- *0.27: Male duet—Billy Murray and Walter Scanlan, "The Whoopie Hat Brigade" (Siegel-Gaffe) (4513).
- Foxtrots—Earl Burnett and his Los Angeles Baltimore Hotel Orchestra, "If I Had a Talking Picture of You" (De Sylva) (4501); "Doin' the Boom Boom" (Gottler) (4502); "Sunnyside Up" (De Sylva).
- 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" (McCarthy-Monaco) (4513).
- Foxtrot—Red Nicholls and his Five Pennies, "The New Yorkers" (Yellen-Ager) (4500).
- Foxtrot—Colonial Club Orchestra, "The Boomerang" (Rose) (4517).
- Foxtrot—Ben Bernie and his Hotel Roosevelt 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 : God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, FEBRUARY 22.

- 3.0 : Chimes. Selected gramophone items.
- 4.25: Sporting results to hand.
- 4.30: Close down.
- 5.0 : Town Hall chimes.
- 5.1 : Children's Hour, conducted by Aunt Anita.
- 6.0 : Dinner music—"Parlophone" Hour:
- Waltz—Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde), (b) "Mignonette" (Nicholls) (Parlophone E10571).
- Instrumental—Dajos Bela Orchestra, "Eldgaffeln" (Landen) (A4009).
- 6.12: Tacet.
- 6.15: Instrumental—Frank Westfield's Orchestra, "Classica" (arr. Tilsley).
- 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) (A4074).
- Waltz—Dajos Bela Orchestra, "The Sphinx" (Poppy) (E10592).
- 6.42: Tacet.
- 6.45: Instrumental—Orchestra Mascotte, (a) "The Flowers' Dream" (Trans-lateur), (b) "Whispering of the Flowers" (Von Blon) (A2559).
- Organ—Sigmund Krumgold, "Gipsy Love Song" (Herbert) (A2339).
- Instrumental—Dajos Bela Orchestra, "Electric Girl" (Helmburgh-Holmes) (A4009).
- 6.58: Tacet.
- 7.0 : News session.
- 8.1 : Relay of vaudeville programme from 3YA, Christchurch.
- 10.0 : Dance session—"H.M.V." Hour:
- Foxtrot—Arcadians Dance Orchestra, "Fascinating Eyes" (Snyder).
- Foxtrot—Jack Pettis and his Pets, "A Bag of Blues" (Goering).
- Foxtrot—Ambrose and his Orchestra, "Try to Learn to Love" (Coward).
- Jack Pettis and his Pets, "Freshman Hop" (Goering) (Zono. E1138).
- Waltz—Arcadians Dance Orchestra, "Ah, Sweet Mystery of Life" (Herbert) (Zono. 5249).
- 10.15: Humour—Leonard Henry, "The Tale of the Talkies" (Henry) (B2916).
- Foxtrot—Arcadians Dance Orchestra, "Our Canary" (Butler) (Zono.).
- Foxtrot—Ambrose and his Orchestra, "Dance, Little Lady" (Coward).
- Arcadians Dance Orchestra, "Dreaming of To-morrow" (Pole) (Zono.).
- Geo. Olsen's Music, "Old Man Sunshine" (Dixon) (EA422).
- Foxtrot—Park Central Orchestra, "Then Came the Dawn" (Dubin).
- Waltz—Troubadours, "Diane" (Rapee) (EA269).
- *0.56: Wurlitzer organ—Leslie James, (a) "Just Imagine" (De Sylva), (b) "Lily of Laguna" (Stuart) (B2902).
- Foxtrot—Arcadians Dance Orchestra, "The Man I Love" (Gershwin).
- Foxtrot—"Sentimental Baby" (Palmer) (Zono. E1144).
- Foxtrot—Arcadians Dance Orchestra, "A Room with a View" (Coward).
- 10.51: Humour—Leonard Henry, "General Post" (Henry) (B2916).
- Foxtrot—Nat Shilkret's Orchestra, "Nagasaki" (Dixon) (EA412).
- Foxtrot—Geo. Olsen's Music, "Doin' the Raccoon" (Klages) (EA422).
- Waltz—Nat Shilkret's Orchestra, "Till We Meet Again" (Egan).
- 11.0 : God Save the King.

Sunday, February 23

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, FEBRUARY 23.

- 3.0 : Afternoon session—Selected studio items and literary selection by the Announcer.
- 4.30: Close down. Evening session.
- 6.0 : Children's song service, conducted by "Uncle Leo."
- 6.55: Divine service, relayed from the Baptist Tabernacle. Preacher, Rev. Joseph Kemp. Choirmaster, Mr. A. E. Wilson.
- 8.30: (approx.) Relay of concert by Auckland Municipal Band, conducted by Mr. Christopher Smith from Albert Park.
- 9.45: God Save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, FEBRUARY 23.

- 3.0 to 4.30: Afternoon Session.
- 7.0 : Relay of Evening Service from St. Paul's Pro-Cathedral. Preacher: Rev. Percival James. Organist and Choirmaster: Mr. Robert Parker.
- 8.15 (approx.): Studio Concert by Wellington Artillery Band, Conductor Capt. T. Herd, assisted by 2YA artists.
- Hymn—Wellington Artillery Band, "Lead Kindly Light" (arrgd. Herd).
- Overture—"The Golden Cross" (Greenwood).
- Soprano—Mrs. Dorothy Ross, "There is a Green Hill" (Gounod).
- San Francisco Symphony Orchestra, "Rosamunde-Entr'acte" (Schubert) (H.M.V. D1568).
- Bass—Mr. G. Madigan, "Alma Redemptoris" (Mozart).
- Descriptive—Wellington Artillery Band, "In the Chapel" (Ellenberg).
- Selection.
- Serenade—"Summer Breezes" (Beyer).
- Mezzo-Contralto—Miss Mollie Fenton, "A Prayer to Our Lady" (Ford).
- Tenor—Leonard Gowings, "Angels Guard Thee" (Godard).
- March—Wellington Artillery Band, "Invicta" (Greenwood).
- Weather report and announcements.
- Soprano—Mrs. Dorothy Ross (a) "Spring" (Tosti); (b) "The Boat Song" (Ware).
- Bass—Mr. G. Madigan, "The Windmill" (Nelson).
- Fantasia—Wellington Artillery Band, "A Summer Day" (Greenwood).
- Mezzo-contralto—Miss Mollie Fenton "Ships of Arcady" (Michael Head).
- Tenor—Leonard Gowings, "Murmuring Breezes" (Jensen).
- Cornet and Euphonium duet—Bandsmen Bolt and Garry, "Oh Mari-tana" (Wallace).
- Duet with chorus and Orchestra—Mavis Bennett and John Turner, vocal gems from "Il Trovatore" (Verdi).
- Concerted with orchestra, Grand Opera Company, vocal gems from "Il Trovatore" (Verdi) (H.M.V. G1692).
- March—Wellington Artillery Band, "Star of the Desert" (Thomas).
- Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, FEBRUARY 23.

- 3.0 : Afternoon session. Gramophone recital.
- 4.30: Close down.
- 5.30: Chimes.
- Children's song service, conducted by the Rev. A. McMaster, assisted by the children from the Presbyterian Sunday School.
- 6.15: Chimes from studio.
- 6.30: Specially selected gramophone items.
- 7.0 : Relay of evening service from Knox Presbyterian Church, Bealey Avenue, Christchurch. Preacher, Rev. T. W. Armour. Organist, Mr. Alan Welbrock. Musical Director, Mr. A. G. Thompson.
- 8.15: (approx.) Relay of studio programme from 4YA, Dunedin.
- 9.30: (approx.) God Save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, FEBRUARY 23.

- 3.0 : Town Hill chimes.
- 3.1 : 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 Church Service from Trinity Methodist Church, Moray Place. Preacher, Rev. H. E. Bellhouse. Choirmaster, Mr. Simpson. Organist, Miss E. Hartley.
- 8.15: Studio concert by the Woolston Band, under the conductorship of Mr. R. J. Estall.
- March—The Band, "Thin Red Line" (Alford).
- Overture—The Band, "Poet and Peasant" (Suppe).
- 8.27: Contralto—Miss Irene Hornblow, L.R.A.M., "Negro Spirituals," (a) "Steal Away" (Burleigh); (b) "Deep River" (Burleigh).
- 8.31: Tenor with orchestra—Tudor Davis, "Prize Song," from "The Mastersingers of Nuremberg" (Wagner) (H.M.V. D758).
- 8.35: Concert solo with band—Bandsman R. Ohlsen, "Nightingale Polka" (Moss).
- 8.40: Baritone—Mr. Les. Stubbs, "The Curfew" (Gould).
- 8.44: Chorus—"Finale of Opera, 'The Mastersingers of Nuremberg'" (Wagner) (H.M.V. D758).

- 5.52: Piano—Mr. T. J. Kirk-Burnnand, (a) "Prelude and Fugue in A Major" (Bach); (b) "Chopin Valse in A Flat, Op. 69" (Chopin).
 9.2: Selection—Band, "Mignon" (Thomas).
 9.12: Contralto—Miss Irene Horniblow, L.R.A.M., "The Mantle of Blue" (Bridge).
 9.16: Grand organ—R. Arnold Grier, F.R.C.O., "Aubade" (Grier).
 9.19: Trombone solo—Bandsman E. Williams, "Winning Spirit" (Moss).
 Suite—Band, "Ballet Egyptian, Nos. 1 and 2" (Luigini).
 9.24: Baritone—Mr. Les Stubbs, (a) "Not Understood" (Houghton); (b) "My Prayer" (Squire).
 9.31: Choir and organ—Choir of Mormon Tabernacle, "Behold, God the Lord" (Mendelssohn) (Zonophone EF14).
 9.35: Air Varie—Band, "Simeon" (Rimmer). March, "Dunedin" (Alford).
 God Save the King.

Excellencies Farewelled

(Continued from page 2.)

would like to see the future of New Zealand.

He would like to see the children of New Zealand grow up preserving that naturalness, that simplicity and gentleness which had always characterised the people of New Zealand. He would like to see the parents, by precept and example, bring up their children with a love of brotherhood, to serve God, to honour the King (applause), bringing up their children to be sober, God-fearing people, praying, steadfast and sympathetic. He would like to see them apply the principles of Christianity to all their dealings with their fellow-men, to preserve the fundamentals of citizenship as handed down by their forbears, having courage, endurance, self-reliance, loyalty and a strong religious faith. New Zealand had often been described as "God's Own Country," and well might it be called that, though they could take no credit for it, but what they could strive to be was "God's own people." (applause.)

"Is it a dream?" asked His Excellency. "I don't see why it should be. It might be a reality, and I have faith in the people of New Zealand to believe that, in the words of Lord Rosebery, 'they will not shrink from

any sacrifice in the fulfilment of their mission." (Loud applause.)

"Good-bye."

It now remained to say good-bye, and he hoped the people of New Zealand would believe how grateful they were for the kindness, sympathy and consideration shown to them. At present their feelings of sorrow at leaving were paramount. The joy and pleasure of going Home would come later. To the end of their lives they would have the happiest memories of the "land of the long white cloud," and the people who were their friends. (Applause.)

A Native Gift.

AT the conclusion of the proceedings a huge basket of New Zealand berries and foliage gathered from nearly all the great national parks was presented to Her Excellency by Sir Alexander Roberts on behalf of the Maoris in recognition of the great interest she has always shown in the Dominion's native flora and fauna. In accepting the gift, Lady Alice Fergusson was greeted with thunderous applause, which lasted for some time. The Mayor, in replying on her behalf, referred to her great love of our native bush, flowers and shrubs.

The proceedings concluded with the singing of the National Anthem. During the evening songs were sung by Mrs. Amy G. Woodward, Mrs. Winifred Andrews, Mr. Harison Cook, and

5SW through 2YA

A LISTENER at Blackheath, New South Wales, reports how he listened in to G5SW through 2YA. He writes as follows:—"I feel I must write a few words of congratulation to your station 2YA on your rebroadcast of the Naval Powers' Conference through G5SW and the National Broadcasting Company. Reception on this side was very bad indeed. I tried first of all on my own short-wave set, but found it impossible to get anything intelligible at all. Then one after the other I tried the rebroadcast of 2FO Sydney, 4QG Brisbane, 3LO Melbourne, and 3AR Melbourne, with no better results. I then decided to tune in 5OL Adelaide and in doing so I discovered that your station 2YA was still on the air and curiosity prompted me to listen to you as it was past your usual hour of closing, and, to my delight, I found that you were also rebroadcasting G5SW, and, what was more, were doing it quite successfully. I was using a 3-valve screen-grid set and heard you with quite good strength on the loud speaker. My one regret is that I didn't tune you in till 10.55 p.m. and therefore lost quite a lot of the speeches (12.55 a.m. your time). In closing, I would like to say that I frequently enjoy listening to your station and would like to congratulate you on the Maori concert you transmitted to the Byrd Expedition at the South Pole some months ago. It was really a treat."

The first of what is to be a series of rebroadcasts of the Chicago short-wave station W9XP was carried out by 3YA on the evening of Sunday, January 26. Despite the static, reception was loud and clear and the programme was of particular interest to New Zealand listeners.

a cello solo was rendered by Mr. Claude Tanner, Mr. Bernard F. Page, City Organist, being the accompanist.

These rebroadcasts are the outcome of negotiations between the general manager of the Broadcasting Company through the company's expert consultant in America, Mr. Edgar Felix, and the Great Lakes Broadcasting Company of Chicago, for the broadcasting of special programmes for the people of New Zealand.

The programme which had been arranged was essentially a New Zealand one, even including the "New Zealand National Anthem," composed by Mr. J. J. Woods. This Dominion received an exceptional advertisement throughout America for the Chicago announcer had a lot to say concerning this country. Songs were dedicated to some of our leading towns and messages were sent to prominent men, including Sir Joseph Ward. Even the sheep farmers in the back country of Canterbury were mentioned. It was evident that the programme organiser was acquainted with New Zealand or had the advice of someone who knew this Dominion very well. In any case, he did his work remarkably well and the presentation of the programme was handled with great skill. At intervals there were tacets of half a minute in order to give 3YA the opportunity to make the necessary announcements concerning the nature of the rebroadcast. In one instance a slip by the American announcer was detected. He spoke of the Maoris as "May-ories," but a little later on, no doubt as the result of a telephone ring from a New Zealander in Chicago, he gave the pronunciation as "Mow-rees."

The artists who contributed the items, both vocal and instrumental, were performers of marked ability, and had the background of static been absent the rebroadcast would have been remarkably successful. As it was, New Zealand listeners were provided with a great treat and had the pleasure of hearing a complete American programme.

Chicago is distant about 7000 miles from Christchurch. The date of the next rebroadcast will be duly announced.

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I HAVE just had the privilege of visiting the home of a friend who is electrically minded. This home is newly built, and in its electrical equipment shows forethought in providing for the full use of electricity in every aspect of home comfort. As I passed through the various rooms, and noted the adequate provision made for utilising electricity, I could not but admire the result achieved and reflect upon the sad lack of foresight being shown in far too many homes now being built. Our builders and architects, in numerous cases, are still five years behind the times, and are making the gross mistake, for the future comfort of their inmates of providing too little electrical facilities. The result of this deficiency of preparation is that, when it is desired to utilise electrical apparatus for greater comfort, considerable difficulty is experienced in providing the points for power and extra lighting.

THE lighting facilities struck me first of all. Gone is the day when a room was considered well lit with only one central light which hurt the eyes wherever one sat. That central light is still required (without glare), but modern comfort demands that each cosy nook shall be provided with a light, that reading lights should be available for the ease of the eye and fullest comfort in posture. In this home, therefore, I was delighted to see that in the big living-room there were, in addition to the large central light, at least six other wall and standard lights round the room, each with its individual control system, so that if the man of the house were spending a quiet evening at home, he could place himself in his pet arm-chair (with his feet in the position of utmost comfort), and enjoy himself to the full with his favourite book and one light cosily placed behind his left shoulder.

THEN in power points a far-seeing architect can do much to provide for the future comfort of his clients. Electricity is responsible now for the control of our gramophone and radio set either separately or in combination, the electric fire in winter and the electric fan in summer, and for sanitary purposes the inevitable cleaner. In the

case of the gramophone and radio and the electric fire, these are frequently wanted at one and the same time. One power point only in the living-room, therefore, is an immediate disability, which restricts the use of electricity and therefore creates annoyance. In the dependence of the modern home upon music the radio and gramophone has first call upon the power point. But what of those evenings when the atmosphere is chilly

Appreciated

THE secretary-manager of an important rural power board writes acknowledging the first issue of the "Radio Record" containing the "Electric Home Journal." He adds: "We feel sure that this section will be very much appreciated, both by your readers and by the electrical supply authorities. I have no doubt at all that certain members of the Board will contribute to the publication individually. The writer himself is placing an order for its supply weekly."

This is only a typical specimen of many such letters received. We are glad that our new departure is meeting with popular approval, and will spare no effort to give further service.

enough to demand an electric fire, and yet not chilly enough to induce the extra trouble of creating a real blaze in the good old-fashioned fire-place, with which most homes still dabble for the psychological effect of watching the play of the flames. Under these conditions the choice must lie between culture and comfort. But that hard choice can be avoided by the simple provision of an extra power point when building the house. In this admirable room, therefore, which was certainly of large size and unusual shape, adequate provision was made with four power points, so that never would the occasion arise when lack of facilities would prevent either comfort or culture being secured.

IT must be confessed that the electrical trade themselves are to blame in some respects for the deficiency of electrical points provided in many homes. While the man of the house, in planning his home, is well seized of the necessity for providing adequate cupboard room, good views, plenty of window space and all other facilities in the home, how often the lighting and power facilities are absolutely ne-

glected. Moreover, as this is generally one of the last items to be provided in a home, it is frequently noticed that a desire for economy is manifested (possibly due to the uncanny habit of prices out-running estimates in other items). The general outcome, therefore, is that a little parsimony is applied in connection with the electrical equipment. This is wholly a mistake. A very few pounds extra in initial outlay will afford untold extra convenience throughout a lifetime of occupancy. I was recently astounded, on inspecting a magnificent set of flats erected in Wellington, to find but two power points in each flat, one in the kitchenette and one in an immense living-room. There was no power point in the bedroom, none in the hall; so that for cleaning purposes a 60ft. flex was required. This in an electrical age is sheer idiocy, and no congratulations are due the architect or the builders of those flats upon their acumen. On the other hand, some blame is attributable to the electrical trade itself for not aggressively educating builders, architects, and the public generally on the need for adequate provision of power points in building homes. Think of the comfort of an electric fire in the bedroom in cold winter nights, even for the few minutes spent in undressing and dressing; and in the case of illness it is absolutely indispensable. Yet in these "modern" flats there is no power point there.

THE remedy lies first with the electrical trade, and secondly with the public. It is the part of the vendors of electrical apparatus to see that adequate provision is made for the full use of the wares they have for sale. This is another illustration of the need for and value of advertising. An educational campaign aimed directly at architects and builders is urgently required, and should be steadily prosecuted.

The Electric Eye

Some Remarkable Properties

THOSE who have studied the structure and functions of the human eye rightly consider it a marvellous construction. A ray of light falls upon it, we see the face of a friend and instantly a chain of memories rushes into our consciousness. Again, we look upon a beautiful picture or a

lovely landscape, and our inner emotions are so stirred that we are perhaps almost moved to tears.

What then shall we say of the electric eye? A ray of light falls upon that and what happens? It seizes the ray and makes it work for us in endless ways. This electric eye—a little glass bulb called a photo-cell—is playing an important part in the world's work to-day. When the cell sees a ray of light, electrons fly from its walls and their passage sets up a current of electricity.

One of the most remarkable properties of the electric eye is that the electric current produced is exactly in proportion to the strength of the light it perceives, so that it can be regulated and measured. It is so sensitive that it can sense a star so feeble and so distant that no human eye can see it. Placed in a telescope instead of the usual lens, the astronomer can by its aid measure the exact brightness of a star by registering just what electric current it is generating. It can register the passage of a star across the heavens.

The mere fact of a man entering a doorway will darken the amount of light falling through the doorway on to the cell, and an electric current can be set up which will ring an alarm bell. In this way the most remarkably trustworthy burglar alarms have been made for banks and other places.

It will register shades of colour and merchandise can be graded by it. Cigars, for instance, of a given brand are largely sold according to colour, and must be uniform. Passed on an endless moving band or belt beneath the electric eye, the moment one either too light or too dark appears, the equilibrium of the electric eye is upset, and it throws into operation a mechanical hand which flicks the offender off the band into a rejection basket. This is only one example of its power to act as guardian of uniformity.

Where light treatments are being taken, too, it can determine the amount and strength that the patient can usefully assimilate. It can send a picture by wireless, will make television possible and helps to make talking pictures.

The heat of a furnace can be measured by it, and it lights up buoys at sea. Certain automatic buoys light up at sunset and go out at dawn, and work for many weeks without attention. The electric eye, which is charged with activity as long as there is daylight, holds open the switch or key which controls the light. When twilight comes, the cell no longer operates because the light is not strong enough, and the local current, which has been holding open the control of the lamp, is cut off.

Electric Washing Machines

Electricity for Ease, Economy, and Efficiency



ELECTRIC washing machines, with no rubbing, no scrubbing, no handling of wet, heavy clothes, have reached the perfection stage, and make for endless saving in time, trouble and expense.

No thinking man should be content to allow his wife to wear herself into premature old age, when with a machine, a tubful of hot water, and some soap, the whole process can be accomplished in an hour.

Much thought has been brought to bear upon the subject, and there are now many types of washing machines to choose from, all infinitely superior to the bad old way. In some cases, the wringer has been entirely dispensed with, and the clothes are spin-rinsed and spin-dried; in others, wringers are attached to the machines and the pressure of the rollers automatically adjusted. An important feature of one good model is that the height can be adjusted to that of the operator. In every case the modern electric washer makes the clothes dry easier and quicker than any other method.

Boiling is Unnecessary.

AN objection that is often raised at the outset is that washing-machines do not boil the clothes. It is unnecessary. No more beautiful washing is done, although at the cost of considerable energy, than in those countries where clothes are still washed in the running streams, and where boiling has never been practised. This is exactly the principle upon which washing machines work, but they supply the energy and do the work in a fraction of the time. Clothes are boiled to ensure purity of colour, but frequently dirt and stains are boiled in instead of out. The machine first washes the clothes clean, and then a scalding rinse or spray is used to bleach and sterilise. This method ensures whiteness, without the wear and tear of boiling, so injurious to many fabrics, and cleanses woollen goods, which need to be so carefully handled, to perfection.

How Cheap, Too.

BESIDES time and labour, washing machines are money-saving. The first cost need not be considered prohibitive, as small monthly instalments are all that it is necessary to find, the amount in many cases being less than the amount the housewife has been in the habit of paying for hired help, and the cost of running is

but a few pence weekly, less than that of fuelling the old-fashioned copper, with all its smoke, ashes, and dirt.

Where people are building a new home, or re-modelling an existing one, money and space can both be saved, the wash-house, copper, tubs, taps, etc., being entirely dispensed with. The machines take up little space, are not unsightly, and can be obtained in different sizes. Nor is any mechanical knowledge required on the part of the operator. The mechanism is simplicity itself, a couple of levers con-

course, be soaked, because of the danger of fading or turning.

Brightly-coloured articles should not be washed for the first time with other goods, as they often obtain a surplus amount of dye, which comes away at the first wash, leaving the garment quite fast afterwards.

If you are obliged to use hard water, use a water-softener with it, as you will require less soap, and put two tablespoonsful of diluted blue into the washing suds. It will not be necessary to blue the rinsing water, two of which

in those that were first hung and fold them.

All really hard work has been done for you, and now, instead of having the copper to clean out and the wash-house to clean up, as is the case at the end of an ordinary wash, all you have to do is to allow the machine to drain out, give it a rinse with clean water, and wipe it out with a clean cloth.

Does it not sound too good to be true? Let some or all of the makers demonstrate to you, and put them through their paces, and we shall be surprised if you ever have another bad old washing-day.

"A FRESH mind keeps the body fresh. Take in the ideas of the day, drain off those of yesterday."—

Bulwer-Lytton.

Says Thackeray: "An intelligent wife can make her home pretty well what she pleases," and surely there are few wives so unintelligent to-day who do not feel that there is something wrong about the drudgery of standing over steaming wash-tubs, rubbing and scrubbing for a whole day or more every week; nor need one go to the expense of sending clothes away to be washed, with the attendant risk of loss and damage entailed. The answer is "The Electric Washer." Ask your nearest dealer for a demonstration.

In Lighter Vein

First Boy: What's a quire of paper?
Second Boy: Choir of paper? Oh, it must be one of those music rolls for a player-piano.

The doctor told Mr. Meek not to stay out late at night.

"You think the night air is bad for me, doctor?"

"No," said the doctor, "it isn't that. It's the excitement after getting home that hurts you."

trolling all operations, nothing to go wrong or get out of order.

Think of washing-day over in an hour; no resulting backache or fatigue, and the rest of the day free—in fact, washing-day a holiday instead of one to be dreaded. How much a week would that be worth to you?

All makers will give you a demonstration free in your own home, if you wish it, and service afterwards, if required. It costs you nothing and will bring you much in added leisure, health and wealth.

Some Practical Points.

SOME people still like to soak their clothes before the actual washing process although it is really not necessary with the high efficiency of modern machines. In any case, do not soak in aluminium containers, as a slight scum will be created. However, experience is your best guide. If soaking is desired no extra vessel is necessary for this operation, nor need the clothes be put in soak overnight. Put the white clothes into soak in the machine, when you begin to sort out the wash, and run off the soaking water before you begin. Time will be saved, because a large portion of the dirt will have been removed and all of it loosened. Coloured clothes should not, of

should leave the clothes perfectly free from both soap and blue.

Silks, rayons and woollens should be washed, of course, in water that is cool enough to bear the hand in easily. For white clothes, the hotter the water the better. Any small mending jobs should be done before washing, with the exception of stockings, which are necessarily darned afterwards, although "ladders" in silk or rayon stockings and underwear should be attended to beforehand.

Starching Facilities.

STARCHING, too, can be carried out in the machine. Two ounces of starch dissolved in a pint of warm water, to which 3½ quarts of boiling water is added, makes a gallon of starching solution. To this should be added one gallon of cold water, which reduces the temperature sufficiently, and when it has been stirred well, the clothes put in and the machine put in operation for a few moments. By this means the whole of the starching is done at one operation.

Machine-washed clothes are easy to hang out because they are light, fluffy and nearly dry, without folds or creases. As soon as the last pieces are on the line, it is often possible to take



Cook's opinion of a broadcaster!

—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.

HOME-CRAFT

GLEANINGS

By "GADABOUT"

At Your Service

If you are needing information or advice regarding electrical equipment, "Gadabout" is here to help you. Correspondence will be welcomed. Replies will appear in the next issue that goes to press, or sent by post if a stamped addressed envelope is enclosed, so do not hesitate to write.—"Gadabout," "Radio Record and Electric Home Journal," P.O. Box 1032, Wellington.

The Glue-Pot

"A MERE MAN" writes thanking me for the necktie hint, published in a recent issue, and asks me if I know anything about electric glue-pots. Yes, I do, and have sent him the information by post. They are excellent, inasmuch as they keep the glue at a workable heat, do not allow it to boil over, and the glue does not deteriorate.

A Salad Tip

IF you want to keep a lettuce fresh, either cut or uncut, place it in a dish or bowl, covered with water, and in the water also place a stainless steel knife, and it will keep as fresh as if just cut for an incredible time.

To Avoid Burns

SOME nasty little burns can be had from hot fat spitting when it is in the pan, but if you drop in a pinch of salt it will cease at once.

Ye Daughters!

WHICH of you has not scoffed at some time or other at the twenty years old photograph of your mother, or rather at the clothes she wore. Let me tell you that you will soon be going to them for inspiration. Blouses tucked in at the waist, ribbon trimmings, frills and furbelows.

Washing Machines

WE have received so many inquiries that we have decided to deal with this subject in a special article. A washing-machine is found in nearly every home in Canada, and the signs are that we are not for long going to be content to be behind our Canadian sisters.

Table Decorations

DID you see the strings of coloured electric lights which were sold for illuminating Christmas trees? They are excellent for table decoration all the year round. Delightful effects can be obtained by making paper figures, animals or plants, and inserting the coloured bulbs. The strings are inexpensive and use very little electricity.

Pots and Pans

TALL iron saucepans, iron frying-pans, etc., should not be used for cooking by electricity, as they take too long to heat through. A good make of enamel-ware is best.

Cafe au Lait ou Noir?

COFFEE is not such a popular drink in this country as it should be, probably because to make it well is a good deal of trouble. Electric coffee percolators make it in the French way, allowing the boiling water to percolate through the coffee, and keeping it hot without allowing it to boil. They are really handsome, in good de-

'Ware Moths

A SCENT-BAG which will prevent moths injuring clothes and is not unpleasant is made by grinding together one ounce each of cloves, caraway seeds, nutmeg, mace, cinnamon and Tonquin beans, and as much orris-root as all the rest put together. Place in little silk bags.

and then, before it dries, put the brush without cleaning into another colour, and splash that on. Don't be concerned at the colours running one into the other, as that is the way the artistic effect is obtained.

Doctor's Orders

IF you have been ordered olive oil by your doctor (and it often prevents a serious operation) and find it difficult to take, try it with cheese—the two crushed together.

Wicker Work

WICKER-WORK is so fashionable for chairs, settees, tables, and so on, both indoors and out these days, but it does seem to delight in secreting dust where it cannot be got at. Try using the blower on the vacuum cleaner.

Colour Washing

IF you would like to colour-wash a small room, and are trying to work out a colour scheme, make a pint of boiling starch, add a quart of boiling water in which a packet of dry soap has been dissolved, and one or more packets of dye, to get the colour required. Add this mixture to as much whitening as will be required to do the job. This wash will not fade or rub off.

For the Invalid

IF you have an invalid in the house, who finds time hang heavy on her hands, try putting a bird-bath outside, where it can be seen from the window. It will prove an unfailing source of interest.

Oddments

EVERY frock and every coat sports a belt these days, and you can wear it where you like, high or low. The whole ensemble will benefit, however, by giving the matter a few minutes' study before the mirror, as there is a right height to place it on every figure.

LIGHT leather handbags have an irritating way of becoming grubby and scratched whilst still good in themselves. Try giving them a thorough dubbing with brown boot polish, rub well in, and polish hard next day. A few minutes in the open will remove any odour of the polish.

Splash Painting

I SUPPOSE in every house there are little empty cream jars, pots, etc., that one hesitates to throw away, many of them of quite quaint shapes. Invest in a few tiny tins of bright enamels and splash paint them, when they will be welcomed as presents. Dip the brush into any bright colour, and simply splash it on to any part of the article;

EQUAL parts of eau-de-cologne and lavender water mixed together make a refreshing and somewhat elusive perfume, which, above all, does not stale.

EXPERIMENTAL cooks have found that the favourite angel-food turns out better if week-old eggs are used. Angels, evidently, are not particular.

... Fundamentals ...

(By Grace Noll Crowell).

What makes a home?
I asked my little boy,
And this is what he said,
"You, mother, and when father comes,
Our table set all shiny,
And my bed;
And, mother,
I think it's home,
Because we love each other."

You who are old and wise,
What would you say
If you were asked the question?
Tell me, pray.

And simply,
As a little child, the old
Wise ones can answer nothing more;
A man, a woman and a child;
Their love
Warm as the gold hearth-fire
Along the floor;
A table, and a lamp for light,
And smooth white beds at night;
Only the old sweet fundamental things.

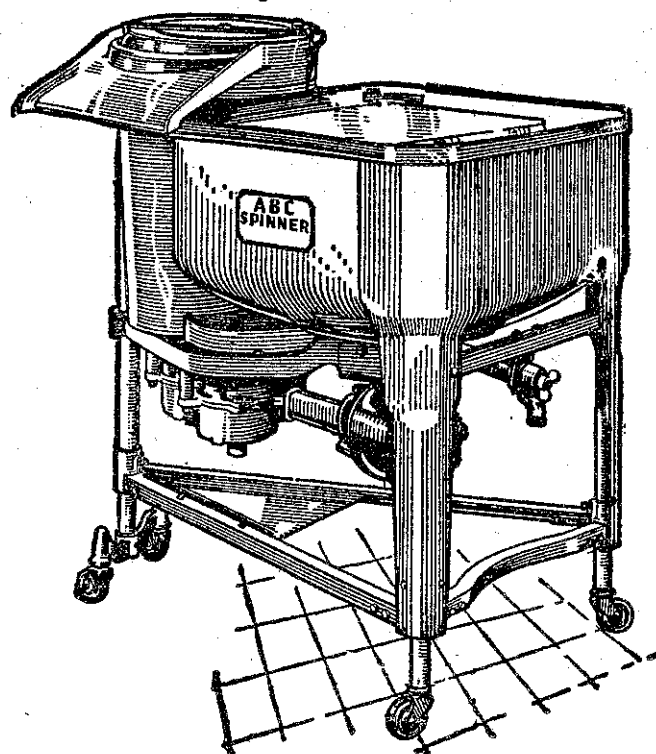
And long ago I learned
Home may be near, home may be far,
But it is anywhere that love
And a few plain household treasures are.

signs, and make most acceptable as well as useful presents.

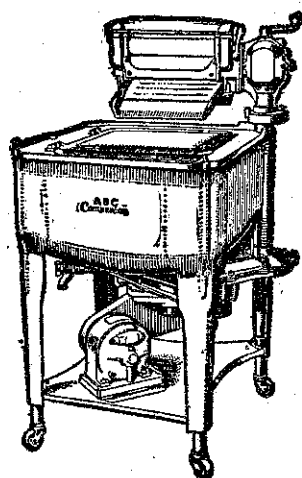
Umbrellas to Match

GOOD silk umbrellas, in delightful colourings, brown, blue and green, that can be used for rain or sun, are on sale at reasonable prices and add a distinctive note to a smart outdoor toilette.

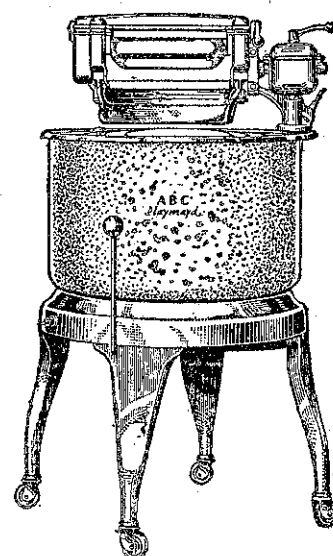
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The HOME KITCHEN

By "ELECTRA"

The Bachelor Cook

Bachelor Cookery

THE number of bachelors of both sexes, who set out to do their own cooking increases daily, and a remarkably good job they make of it, as a rule.

The most fertile brain, however, sometimes finds itself wondering "What can we have to-day?" Perhaps then a few suggestions for easily prepared dishes will be welcome.

A heating-point and some sort of small, electric cooking appliance is practically a necessity, especially where time is a consideration, as it will begin work at once, and is always clean and light to handle.

Happily, there are hosts to choose from. The simplest is, of course, the ever-useful ring, which will boil and make good toast also. Then there is a toaster and griller, which will boil and grill at the same time, say, potatoes on top, chops and steak beneath, or eggs poaching above, while toast is being made below. This neat-looking and useful contrivance has three difference heats, will accomplish an astonishing amount of cooking on "low," and when not required for cooking, can be placed on end, when it serves as a radiator. In short, it will do everything except bake.

For those who aspire to cooking pies, scones and cakes, there is an oven which will stand upon a table or bench, with top and bottom heat, and a boiling ring above, which will really do all that the larger electric ranges will do, of course in smaller quantities, and still work from a heating-point.

An electric kettle is, of course, invaluable for tea-making and the quick supply of boiling water for cooking vegetables, etc., or where expense is an object, the small immersion heaters that can be placed in a pan or jug of water and boil it quickly, answer the purpose for smaller quantities.

MENTION must be made, too, of the fireless cooker, an invention on the hay-box principle, which, however, only takes up the room required for a saucepan or steamer. Into this a whole dinner, meat, vegetables and pudding can be placed and cooked at one time. It is placed on a ring or stove to get thoroughly hot, the heat is then turned off, and the contents left to go on cooking. The beauty of this utensil is that no matter how long it is left without further attention, the meal will always be found hot and un-

Dishes for Bachelors

Plain Omelette.

A clean, thick pan, which should not be washed before putting away, but scoured with paper and salt. Four eggs, one ounce of butter, pepper and salt, and a tablespoonful of milk or water. Break the eggs into a basin, add the salt, pepper and milk or water, and beat them with a fork. Long beating is not necessary, but just sufficient to blend the yolks with the whites of the eggs. Put the butter into the pan over a sharp heat, tip it, in order to grease the whole of the pan. As soon as the butter is really hot (this is important), and changing to pale brown in colour, pour in the mixture and cook quickly, moving the pan backwards and forwards sharply, and stirring the contents of the pan lightly. As the mixture begins to set, tilt the pan away from you to allow any raw egg to cook. Fold in the top and bottom edges to form an oval, have a warm dish in your left hand, and, taking the pan in the right, turn it upside down so that the omelette drops on to the dish. The whole process takes only about three minutes, and the dish can always be made more nourishing by adding a little chopped kidney, ham or any left-overs, before folding over in the pan.

Fried Cheese Sandwiches.

Out bread in slices about a quarter of an inch thick and spread liberally with grated cheese, seasoned with salt and pepper, and moistened with a little milk or cream. Put slices together and dip each sandwich in slightly beaten egg. Fry in hot fat and serve at once.

Cinnamon Toast.

Dip narrow strips of toast, first in melted butter, then roll in cinnamon mixed with fine sugar, and place in slow oven to melt coating, and serve hot.

Provençal Tomatoes.

Out firm, whole tomatoes in halves; spread thinly on each a mixture of melted butter, bread crumbs, chopped onion, minced parsley or other herbs at hand. Season with pepper and salt and grill.

Corned Beef Loaf.

While two cups of rice are boiling make a white sauce by stirring half a cup of flour into half a cup of good fat or salad oil, stir until smooth, adding by degrees about a cup of milk. Drop a teaspoonful of salt into the rice. Dig out the contents of a tin of corned beef into small pieces, stir

it into the rice, add the sauce, and pop the whole concoction into a dish and bake for ten minutes. If handy, grate some cheese or chopped onion over the top, but very good without either.

Baked Fish.

Place as many slices of fish as required in a piedish and dredge them well with flour. Add some small pieces of butter, all over, and then some chopped onion and parsley. Bake in a moderate oven for 20 minutes.

Welsh Rarebit.

Cut 4 ounces of cheese into small pieces, place them in a pan with $\frac{1}{2}$ an ounce of butter, 2 tablespoonfuls of milk, $\frac{1}{2}$ a small spoonful of mixed mustard, and some pepper, and cook slowly until it resembles thick cream. Turn on to hot, buttered toast, and serve quickly.

Ham (or any Other Meat or Left-overs) Croutes.

Fry an eschalot or onion in butter until slightly browned, add the ham or other meat, finely chopped, and stir over the fire until hot. Now put in the yolks of two eggs, a little milk, salt and pepper, and stir until the mixture thickens. Serve on rounds of fried bread or toast.

Salads for All

New Salad Dressing.

1 egg,
2 tablespoonfuls of sugar,
 $\frac{1}{2}$ teaspoonful of salt,
2 teaspoons of dry mustard,
 $\frac{1}{2}$ teaspoonful paprika,
 $\frac{1}{2}$ cup of vinegar,
 $\frac{1}{2}$ cup of oil,
1 cup of water,
4 tablespoonfuls of corn flour.

Put egg, seasoning, vinegar and oil in mixing bowl, but do not stir. Put the cornflour in a cup and make into a paste with half the water, add the rest of the water gently and cook over slow fire until it boils up, stirring constantly. Add to the ingredients in mixing bowl, beat well and cool before serving.

Fish Salad with Sardine Dressing.

SEPARATE cooked fish into flakes while hot. When cold sprinkle a pint of the fish with half a teaspoonful of salt, a dash of pepper and five or six tablespoonfuls of oil. Mix with a fork and spoon, then again mix and add two or three tablespoonfuls of vinegar, and, if at hand, two tablespoonfuls of crushed capers, some finely chopped olives or cucumber pickles. Cover the fish and set it aside to become seasoned and chilled. Drain three to four sardines or wide

Readers of the "Radio Record and Electric Home Journal" who have cooking difficulties or require help with recipes for electric cooking, or desire special hints in connection with their electric ranges, may write to "Electra," P.O. Box 1032, Wellington. Replies will be published either in these columns or in urgent cases sent direct, provided a stamped addressed envelope is enclosed.

them on a cloth. Remove the skin and bones and pound the flesh with the cooked yolks of three eggs to a smooth paste. Add salt and a dash of pepper, and then beat it alternately, and, little by little, add three tablespoonfuls of vinegar and five of oil. Drain the fish, which has been set aside, mix with a dressing and turn onto a bed of carefully washed and dried lettuce leaves. Lay sardine fillets (halves of sardines freed from skin and bone) on the top of the salad, and serve at once, unless it can be kept in a refrigerator.

Curried Banana Salad

(Specially for bachelors.)

ONE-THIRD of a cup of almonds,
Half a pimento,
2 teaspoonfuls of minced Spanish onion,
2 bananas,
2 tablespoonfuls of cold boiled rice.
Blanch and chop the almonds and shred the pimento. Add minced onion, sliced banana and rice. The rice should be flaky. Toss the ingredients lightly, and pour over the dressing which is made as follows:—
Half-teaspoonful of curry powder,
Quarter of a teaspoonful of salt,
Half a teaspoonful paprika,
One teaspoonful of lemon juice,
Same of orange juice,
Same of vinegar,
Few drops of Worcestershire sauce,
Three tablespoonfuls of salad oil,
beaten together until smoothly blended.

Cauliflower and Red Cabbage.

$\frac{1}{2}$ onion, cut fine,
 $\frac{1}{2}$ 2 tablespoonfuls of fat,
Small red cabbage,
 $\frac{1}{2}$ cup of vinegar,
1 cup of water,
2 tablespoonfuls of brown sugar,
Salt, pepper and cinnamon,
Medium size head of cauliflower,
2 tablespoonfuls of butter.
Brown the onion slightly in the fat, add the shredded cabbage, water, sugar and seasoning. Cover closely and cook until tender. Cook the cauliflower in salted water. Place it in the centre of a platter and pour the melted butter over. Around this, arrange the red cabbage.

HAVE you seen the competition, "Trials in Tact," appearing on page 27? There is a chance of winning a handsome prize, while much pleasure will result from an attempt to solve the little difficulties which make the competition.

"N.Z. Radio Listener's Guide"?

Dealers and Booksellers 2/6; Post Free 2/9—P.O. Box 1032, Wellington. Now Available.

First Electric Lamp Invented by Sir Joseph Swan

JUBILEE festivals were carried out with great felicitations in America, lauding Mr. Edison, the great inventor, as the creator of the first electric incandescent lamp, and a picture is now being shown in this country, where Mr. Edison is receiving the congratulations of President Hoover on that score.

Great inventor as Mr. Edison is, and none would wish to belittle his achievements, this honour is, intentionally or unintentionally, claimed for him in error.

October, 1879, was the date of Mr. Edison's first incandescent electric lamp, but it was not the first in the field, Joseph William Swan having exhibited a successful carbon filament lamp at Newcastle-on-Tyne in 1878.

When Sir Joseph Swan was interviewed in 1914 he was 85 years of age, but the white hair which stood high from his broad forehead was as thick as in the days of his youth; his eyes were bright with intellectual energy, and his voice had the ring of an intense vitality.

He it is to whom we owe the incandescent lamp and many of the inventions which have made photography an art.

He was born before Queen Victoria came to the throne, was grown up when he travelled by stage-coach, and heard the watchman call the hours of the night as he lay in bed. He was an inventor before Darwin published "The Origin of Species"; and on the banks of the river Wear, he had watched nails being hammered into the walls of the old wooden ships of Old England.

Yet he lived in full possession of his great faculties, on to that catastrophic year of 1914, and as though he foresaw what was to come, he spoke in the January of that year of the madness and wickedness of war.

SPEAKING of Christianity and its message of goodwill to men, its promise of peace to mankind, he suddenly exclaimed that the civilisation of the world was threatened not by its most backward nations, but by the foremost Christian nation of enlightened Europe.

He said that the peril of war existed in Europe because Europeans do not love truth as the man of science loves it. "Science sets an example to philosophy, to religion, and to politics," he said. "Science has no prejudices, no superstitions. It desires trust and is willing to accept its consequences. Truth is the greatest thing of all except love."

From his youth up, Sir Joseph Swan loved truth more than his own ease. He was born in humble circumstances, had at first but a poor education and was early put to work. But he loved truth, and striving valiantly in her service he rose to high honour and comfortable wealth.

Surely it is significant that the greatest contribution made to human happiness by this devoted disciple of truth came in the form of light, light for our darkness, and we think his name should be remembered both for the work he did and the high example he set.

Trials in Tact or What Would You Do? (Conducted by Savoir-Faire)

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

Competitors may send in their own problems for publication and solution and a prize of 10/6 will be given for the best one sent in during each series, and 5/- for each contributed problem used.

Problem No. 2.

Mrs. A. and Mrs. B. live in the same country town and have been friends for some years. Mrs. A's husband is one of the two dentists in the town, neither of whom is making a very good living.

Mrs. B., who is badly needing dental treatment, hears that Mr. A's work is not satisfactory, but hesitates to hurt Mrs. A's feelings by consulting the other dentist. What do you advise Mrs. B. to do?

Suggested by Savoir-Faire.

(Answers must be postmarked not later than February 13, 1930.)

Problem No. 3.

One afternoon Miss A. receives an invitation by telephone from Mrs. A. to have dinner at Mr. and Mrs. B's house that night. Having good reasons for not wishing to go, but no legitimate excuse, Miss A. pleads indisposition.

She is later asked by Mr. C. to go to the pictures that evening and accepts his invitation. After they are seated, but before the pictures begin, Mr. and Mrs. B. come in and are shown to the seats immediately behind Miss A. and Mr. C. What should Miss A. do or say to Mrs. B?

Suggested by Miss N. Johnston.

(Answers must be postmarked not later than February 20, 1930.)

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 postmark dated 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.

Solution of Problem No. 1.

May I first say how gratified I am at the interest that is being taken in this competition, and the pleasure it has given me to note the high standard of feeling most competitors adopt towards such a situation.

My opinion is that Mrs. A. should call on Mrs. B. (although as "Radex" says it would call for the exercise of more than a little courage) and ask in a dignified way, in friendship's name, for an explanation of Mrs. B's recent conduct.

I do not think it necessary for Mrs. A. to apologise for anything she may have done to offend Mrs. B. before matters are explained, and still less do I think it desirable that she should take a present of fruit or flowers from her garden, as one competitor suggests. My feeling is that at the moment Mrs. A. is the injured party, and by going to see her, is meeting Mrs. B. more than half-way.

Probably "A Trier's" suggestion that "it is possible an innocent remark of Mrs. A's about Mrs. B. to someone has been misconstrued and repeated to Mrs. B." will be found to be at the root of the matter, or something that can equally well be, and should be cleared up. Mrs. B. is not called upon to suffer such an affront without an explanation.

I cannot adjudge wrong those who suggest writing to Mrs. B., although it does not seem to me to be so good; but it would be hard for any quondam friend to resist the very nice letter "Listener-in" proposes. Still less do I like the idea of enlisting the aid of a third person, as some competitors suggest, although it still shows a laudable desire to have the matter cleared up. I derived great amusement from "Arabella's" humorous letter, but she herself, must feel as I do: that it would be more likely to widen the breach than to heal it.

Correspondents are asked not to read more into the problem than it states, but to deal with it as it stands; nor should they go on to eventualities, which are often further problems in themselves. Replies should be as brief as is consistent with clarity, and in future, alternative solutions cannot be considered. For this problem only, I have awarded marks for the best of any alternatives sent, but have deducted one mark from those gained, on that account.

Awards are therefore as follows, the possible 6 being granted for what I consider the best method of attacking the problem:—

A Trier, 4; Absolve meam animam, 3; Arabella, 0; Anon, 4; Bonza, 4; Clara, 3; Duplex, 4; Equity, 2; Fiat Pax, 5; Frances, 4; Miss Rhoda Green, 4; Grace, 3; Haven, 2; Irene, 4; Jean, Te Puke, 5; Miss N. Johnston, 3; Jonquil, 3; Kia Ora, 5; Kummel, 2; Listener-in, 4; Leon, 3; Lucid, 4; M.A.B., 5; Mrs. Mason, 5; Mary, 4; Myra, 0; Mayflower, 3; Natural, 4; Nomen, 5; Olivia, 3; Priscilla, 4; Pumpkin, 2; Query, 4; Radex, 5; Radio, 0; Rosa, 4; Senga, 5; Scylla, 0; Summit, 3; Thames, 0; Tuner, 3; Topaz, 4; Undine, 2; Viola, 0; Verity, 4; Wynward, 4; Weaver, 4; Xylonite, 1; Xerxes, 4; Yum-yum, 4; Zenobia, 4; "Pack" 5.

The Smoke Nuisance Are You Guilty?

New York City is waging war on the smoke nuisance, which is not only detrimental to health and vegetation, but costs the tax-payers ninety-six million dollars a year. It has been definitely discovered that owing to smoke, and the resulting soot and dirt in the atmosphere, New York City receives only about three-quarters of the sunshine that pours down upon it, and life therefore is not as healthful as it might be.

What is true of New York is true of all cities where smoke-producing fuel is used, and in this country a great step forward will be made when electric stoves and water heaters replace coal furnaces and boilers.

A False Alarm

Efficiency of Water-Heater

THE superlative efficiency of an electric water-heater was responsible for quite a little excitement at Upper Hutt on a recent evening. At half-past six an alarm of fire rang out, and the fire brigade, the officers of the Town Board, the Mayor of Upper Hutt, and many others rushed hastily to the scene, near Quinn's Post Hotel. For three-quarters of an hour a constant stream of motor-cars, speeding cyclists and others was concentrated on the spot. In all some hundreds gathered; but after all the rush and excitement it was found there was no need for the services of the brigade. The cause of all the fuss was simple. Dense clouds of steam were issuing from the roof of a house, but upon investigation it was found there was no fire, but simply the electric water-heater had been left on, and the water was boiling furiously.

Style versus Fashion

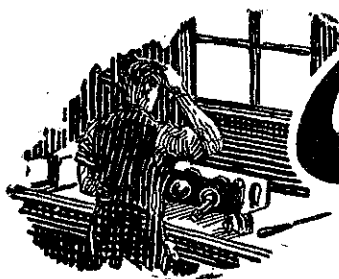
How Determined

AN American writer differentiates between Style and Fashion. Style, he states, can refer to any period, but Fashion is only that which is being worn by the majority at the moment. In New York fashion reporters are now sent out with counting machines to gauge the popularity of any particular style, according to the number in which it is being worn or used.

A young woman dashing between automobiles in the middle of the city at the right time may be unconsciously adding to the statistics on what is being worn at the moment.

A firm of fashion advisers will send one reporter to a fashionable restaurant, another to the races, another to meet a liner arriving from Europe, and another to a popular seaside resort with the object of noting which are the most popular styles.

Men's fashion reporters keep a watchful eye on sports gatherings, college functions, first nights at the theatre, and so on.



Questions and Answers



Power Transformer Problem.

WHY is it, writes H.M. (Wanganui) that I cannot draw more than 15 milliamps from a transformer that I have built for an eliminator? I am using an old core filled with 38 gauge wire for a choke.

A.: We suspect the choke; it should be of a coarser wire, say, 34. It is possible that the condensers have broken down or at the least are leaking. You should have stated what the voltage drawn at this drain was. The windings would have better had they been on one leg instead of two; construct a choke such as described in the Radio Listeners' Guide.

Screen Grid Short-wave Set.

WOULD it be possible to construct a four-valve a.c. screen grid short-wave set using the same speaker that is used with a broadcast receiver?

A.: Short-wave screen grid sets are difficult to construct and difficult to handle. We would not advise any amateur to undertake the task.

Trouble after Rebuilding.

I have rebuilt my receiver, but find that although results are good, the condenser controlling the radio coil is not tuning as it ought to.—C.G.L. (Palmerston North).

A.: Is the dial moving the condenser? The writer has found this quite a common cause of trouble with this stage. The redispersion of the parts might have introduced stray capacities that might have altered the capacity of the coil and condenser, and thus altered the resonance points. This is not unusual and it is quite likely the difficulty in this instance. It cannot altogether be altered unless the set is rebuilt and if it is giving satisfactory service there is no point in changing.

Pentode's Crystal and Amplifier.

I HAVE had good results with the crystal set and amplifier described by Pentode, writes Carborundum (Wellington), but I have had trouble with the reaction. This I cannot get to function,

though I have tried the usual methods of attack. Would I be able to embody condenser controlled reaction?

A.: See the description of the "Tetrode" crystal and amplified in our issue of August 9, 1929, and use the same method of applying reaction in the "Pentode" circuit. In fact, the "Tetrode" set is the same as the "Pentode" with the exception of the condenser controlled reaction and the tetrode valve.

Short-wave Problem.

I AM building a short-wave adapter and am employing a .0001 tuning condenser. Can I use a grid condenser of .00025 mfd. and a leak of 3 megohms?—"J.P.B." (Patea).

A.: The grid condenser is all right, though for the very best results you should try several to see which functions best in your circuit. We are afraid that the grid leak is a little too small; usually eight megohms are required for efficiency.

Short-wave Circuit.

I SHOULD like your views on the enclosed circuit, writes "Crystalline" (Wellington). What is meant by the numbers on the coils?

A.: The circuit is one designed specially for English conditions and, we are afraid, would not meet with the approval of the Post and Telegraph Department. The coil numbers refer to coils specially designed for English sets and which are not generally obtainable in this country. The wavelengths are usually greater than those to be received out here, with the result that the coils are much larger than required here. American sets are usually more suitable for our conditions.

Applying "C" Battery.

I AM operating a factory-built receiver and want to apply the correct amount of bias in the right place, states "Radio Fan" (Levin). One post is marked C—0—40 and the other C—0—6, but this latter is joined to the C+ terminal. I have two "C" bat-

teries with tapings at 4.5 and 3 volts. What is the best arrangement for the tapings?

A.: It all depends on the type of the valve in the last stage. You should have noticed what this was and then we could have given you some material help. As it is, we can only approximate. Join the two "C" batteries together so that the positive of one is to the —4½ of the other. Connect the remaining C+ to the C+ post of the set. Disconnect the connection between C—0—6 and take a lead to this from the intersection of the two batteries. If this arrangement does not give the required quality, try varying the taps. If the last tapping (—9) for the last valve (0—40) tap gives the best results, but is yet not good enough, obtain another bias battery and add this in the manner already described (the last negative tap of the existing combination, —9, to the positive on the new battery), and take the lead to the 0—40 terminal on the set.

2: I have seen many "Umbrella" aerials. Are these superior to the usual L or T type?

A.: No, they are usually a compromise when cramped for space.

Defective Speaker.

I CAN obtain good phone strength from my set, but it will not operate a speaker from which there is not the slightest sound. Is the speaker inoperative?—C.M. (Granity).

A.: Probably. You do not state the make or type, so that we can only guess. Of course, it cannot be expected that the speaker will be as sensitive as the phones.

Adding Another Valve.

I HAVE a six-valve commercially made receiver and I wish to add another valve and later turn it into an electric set by adapter harness. I shall then combine my gramophone with it. I propose to use 201A valves with the harness.—L.H. (Mercer).

A.: We do not advise you to attempt to add another valve to the existing combination as the whole set is designed round the valves and there is probably no room for the extra one. As for the conversion, there is probably a mistake regarding the valves. It is evident that you imply 226 type when you say 201A for these latter are not suitable for an a.c. set. Furthermore, the 226 is more or less out of date and the results are not equal to those of the 227, for the use of which we do not know any harness. Before purchasing the harness try it out (your dealer will probably co-operate here) and compare the result with an a.c. receiver of an equal number of valves. The life of valves under proper conditions and with ordinary care should last 1000 hours of continuous service.

2: I have a magnetic speaker. Would it be essential to use the dynamic with the electric combination?

A.: No, the dynamic can be used with either d.c. or a.c., likewise the magnetic (Musicon), but in each case the dynamic is the better.

Neutralisation Difficulties.

WOULD you answer the following questions relative to a five-valve kit set that I made up? asks B.P. (Hokitika).

1: The neutralising condenser makes no difference and I cannot advance the rheostat without the set bursting into oscillation.

A.: It is presumed that you have carefully examined the neutralisation circuit for possible opens or breaks, and that this condenser is in the position specified by the manufacturers of the kitset. Try one of the new vertical mounting neutralising condensers, a 201A valve in the first socket, radio sockets. It is probably the fault of the neutralising condenser.

2: Is there any difference in the way the primary of the r.f. transformer is connected?

A.: Yes, reverse the connections till the best results are obtained.

3: Could I attach a screen grid booster to my small set (diagram enclosed)?—Yes.

Bell Ringing Transformer.

I WISH to make a bell-ringing transformer. What are the particulars? asks E.H.B. (Opawa).

A.: See Listeners' Guide "Transformer Construction" for constructional details. You will require a core of 1½-inch stallo, primary winding 1070 turns of 36 gauge wire, secondary 64 turns tapped at the 52nd. Use 22 d.c.c. for this.

D.C. Eliminator.

WOULD you give me the particulars of a d.c. eliminator to work from d.c. lights?—H.G. (Hammer Springs).

A.: There have been several requests for a circuit of this type, so we shall publish one in the course of a week or so.

"ELIMINATOR" (Auckland) asks some questions for a d.c. eliminator, but we shall defer answer of these in view of the publication of the full constructional details in a future issue.

Radio as a Career.

DOES radio as a career offer any prospects? asks J.B. (Palmerston North), and what is the best way of learning it?

A.: Radio is passing from the hands of the amateur into those of the skilled engineer and as such you should have a good opportunity for progress. Wireless operating aboard ship provides an excellent chance for you to see the world. For full particulars as to study, write the Director, Johnston's Wireless School, Brandon Street, Wellington.

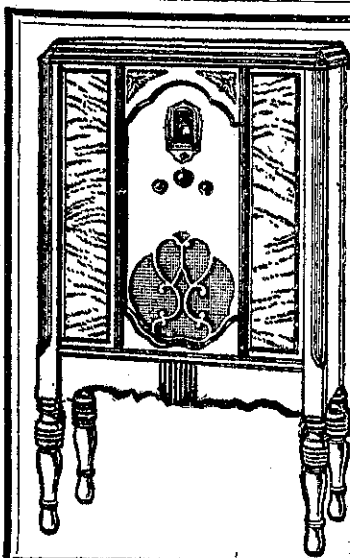
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Power Output Calculation

The Pentode Valve



THE reader should now have a fairly comprehensive grasp of the principles governing the calculation of power output, and, bearing this in mind, it is both possible and permissible to treat the pentode and push-pull operation in less detail.

In broad outline to the pentode, which will be treated first, the same methods of calculation are applicable as those for the triode. There are, however, certain considerations additional to those already discussed, and

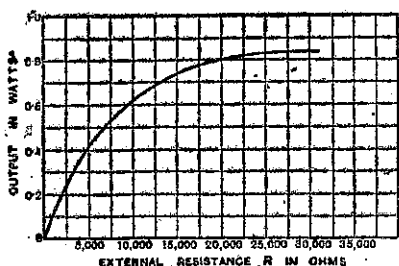
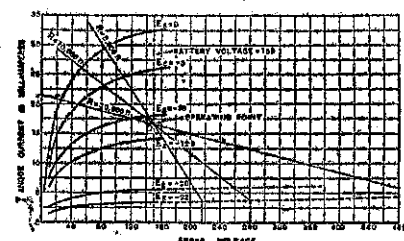


Fig. 1 (upper).—Anode voltage-anode current curves for a typical pentode. Owing to the horizontal nature of these curves a dangerously high anode peak voltage may be developed. (A3.)

Fig. 2.—Power output curve for the pentode. (A4.)

these are such as to modify considerably the results which might otherwise be expected.

The internal structure of the pentode will be familiar to most readers. It retains the high amplification factor and high impedance of the four-electrode or screen-grid valve of which it is a development, the development consisting of the interposition of an earthed electrode (making five electrodes in all) between the screen-grid and the plate; the purpose of the earthed electrode is to prevent secondary emission from the plate reaching the screening grid.

The high amplification factor associated with the pentode renders more than one audio stage unnecessary for most purposes; it is, in fact, a matter of no little difficulty to induce a pentode to be friends with a prior audio stage unless the most elaborate precautions are taken. Still, the use of a pentode does undoubtedly simplify the audio channel of a receiver, and in a short-wave receiver, where more than one audio stage is apt to bring up the "background" too much, the five-electrode valve is an unqualified boon.

The high impedance of the pentode is a direct inducement to abuse it. The loudspeaker enthusiast, remember-

ing that, with a triode, undistorted power output is a maximum when the external load is double the internal impedance of the valve, dreams of speakers possessing impedances of innumerable ohms. His enthusiasm whetted still more by the knowledge that the power corresponds to the current squared times the effective resistance of the speaker, his dreams become nightmares connected with the winding of countless thousands of turns on absurdly diminutive moving coils.

Seriously, though, it does seem at first sight as if the pentode demands for efficient operation a speaker having a much higher impedance than is standard. It is a fact that a speaker of somewhat higher impedance than usual can be employed with advantage, but to attempt to "match" the valve with a speaker having a vast number of turns (to arrive at an impedance twice that of the pentode) is likely to end in disaster, and will certainly not be productive of the results anticipated.

In Fig. 1 there is shown a group of anode-voltage and anode-current curves of a typical pentode. It is at once apparent that the form of these curves differs considerably from that of the curves associated with a triode. The curves for the pentode show a marked tendency to become flat-topped at the higher anode or plate voltages—in other words, a considerable change in anode voltages is productive of only a miniature increase in anode current, or, conversely, a small change in current corresponds to a very large change in plate voltage.

It is this fact which limits the load which can usefully be employed in the anode circuit of the pentode. It was explained in connection with the triode that, with an inductive load, the momentary voltage at the plate can be appreciably higher than that of the battery or other source from which it is derived, this phenomenon being due to the collapse of flux when the current through the inductance is reduced. With a pentode operating on the flat-topped portion of its curve, quite a small reduction in plate current is associated with a substantial increase in the momentary voltage at the anode, this momentary voltage perhaps reaching a dangerous figure.

On the group of anode-voltage anode-current curves of Fig. 1, there have been inserted three "load lines" corresponding to loads of 5000 ohms, 10,000 ohms, and 30,000 ohms respectively. The normal operating point is located at a spot corresponding to an anode and screen voltage of 150 and a negative grid bias of 11 volts. The plate current under these conditions is just short of 17 milliamperes. Assuming the whole of the available grid bias is used, the peak negative grid voltage will be 22.

Examining the "load line" corresponding to a load of 30,000 ohms, it will be seen that this does not cut the curve corresponding to a negative grid voltage of 22 until the anode peak volts are in the region of 500. The import-

ance of this cannot be over-estimated, as such large peak voltages are very liable to start a gas discharge inside the valve if it is even a trifle soft and lead to destruction of the electrode system. The electro-static forces between electrodes also become considerable with voltages of this order.

The fact that these instantaneous peak voltages do occur in practice may be verified by using a rectifying valve in conjunction with an electro-static voltmeter to form a peak voltmeter. The effect of the speaker is stimulated by a resistance coupled to the anode circuit by a 1 to 1 ratio output transformer. By varying the resistance the effect of different loads on the peak voltage may be readily seen, the input to the rectifier valve (derived from a sine wave oscillator) being kept constant.

It will be clear from fig. 1 that high peak voltages are not the only disadvantage of using too high a load resistance. There is revealed also a serious degree of rectification or har-

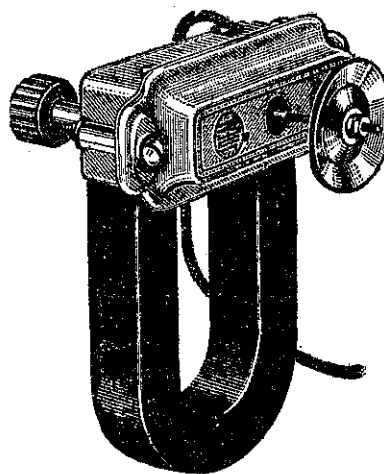
monic distortion in the load line corresponding to 30,000 ohms.

Fortunately there is no need to incur either of these disadvantages of the pentode. In fig. 2 has been plotted the power output with a typical pentode and varying load resistance up to 30,000 ohms. It will be seen that the power output is very high for load resistance round about 10,000 ohms, and with a load of this value there is little danger of running the peak volts above about 300, which a well-made valve should stand.

Once a suitable load line has been decided upon, and inserted, the process of output power calculation does not differ from that applicable in the case of the triode, so that there is no necessity to repeat this part of the subject again.

It has been assumed that the speaker is coupled to the output valve by a transformer or choke-condenser filter. The effect of disconnecting the speaker while the pentode is operating is to replace the normal load by a load of very high inductive value and thus again incur the dangers of excessive peak voltages. Thus it follows that the speaker should not on any account be disconnected from the pentode while the filament of this is alight—always switch off the pentode before changing the output circuit.

(To be continued.)



The "BLUE SPOT"

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Armature,

Driving Unit

TYPE 66K

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66K is essentially a completely discharged 4-pole magnet unit which drives the cone spindle through a perfectly straight line movement. The special steel used for the magnet permits of an enormous flux, thus making the unit exceptionally sensitive. The armature—the only part liable to give a natural resonance—has been carefully damped and is to all intents and purposes dead silent in action. The unit reproduces all audio frequencies from 50 to 7,000 cycles without giving undue prominence to either end of the register. 66K has a special adjuster for regulating the gap between the butterfly piece and the four poles of the magnet.

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Polarity Indicators

F. R. S. (Roseneath) writes: "Further to your article in the current number of the Radio Record on methods of finding polarity; a simple and reliable test, which does not need any elaborate mixing of chemicals, etc., can be performed by wetting

a small piece of ordinary blue-print paper and placing the two bared wires in close proximity thereon. The negative wire will immediately turn the paper white. I have found this method extremely handy on impromptu occasions, when other means of testing are not available, for there is nearly always a piece of an old blue print about which will suffice for the test.

Unique Sound Recording

Music on Reels of Wire

(By "Megohm.")

AS early as 1923, particulars were published of a new system of sound recording that gave great promise of superseding the phonograph and gramophone, at least for some purposes.

Briefly stated, the invention of Valdemar Poulsen, of "Poulsen Arc" fame, consists in magnetically recording sound upon a steel wire, which may be stored in spools and used for reproduction of the record at any time.

Owing to the possibility of employing large-sized spools, lengthy records could be made without a break. The

the poles of a magnet having a field of varying intensity, such variations will be impressed upon and retained by the steel wire.

By arranging fine windings of wire in series with a microphone, it is a comparatively simple matter to obtain the variable field strength of the magnet, with the result that a record of the voice or music at the microphone is recorded upon the wire in a semi-permanent form which will remain for several months.

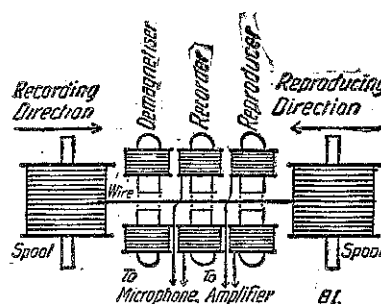
Reproduction is effected by passing the prepared wire in front of a second magnet similar to that used for recording, but in this case the windings are connected to a suitable amplifier. The lines of magnetic force radiating from the wire induce currents in the magnet windings which, when amplified and passed into a loudspeaker or radio transmitter, give an accurate repetition of the original performance in front of the microphone.

A useful phase of the system is that it is possible to use a length of wire for another record when the original matter is no longer of use. This is accomplished in a very simple way, by passing the wire near a magnet that is arranged to demagnetise the wire, thus removing all traces of previous records. The wire then passes the recording magnet to receive the new record.

THE principle of the apparatus is shown in the accompanying diagram, in which the three magnets are seen in line, their opposite poles facing, and the wire passing between. When the demagnetiser is not required, no current will be passed through, and it will have no effect. Guides for the wire, stop-work and turning mechanism for the spools are not shown. In practice it could be arranged that a record would rewind upon another spool ready for a repeat, at the same time that another record of a different subject was being made. In this respect there is the same condition which attaches to picture films, which must be rewound before they can be used again.

Poulsen called his apparatus the "Telegraphone," but the writer believes that "Pallophone" was another name given to similar apparatus. Just why the invention was used so little is not clear, but no doubt the great hold obtained by the gramophone obscured what was in some ways, perhaps, a rival.

Now that the talking film has arrived, it appears quite possible that a use may still be found for this system, especially on account of the long lengths which can be recorded without a break.



great value of the invention, so far as broadcasting is concerned, would be in the ease with which a complete studio programme could be recorded, for reproduction at some subsequent time, or on several occasions. It would thus be a simple matter for a studio to put on a previous evening concert at any time, and considerable additional variety could thereby be introduced into the afternoon or other sessions. Complete concerts could also by this means be obtained from leading broadcast studios and utilised at a later date by distant or less favourably situated stations. It would thus be possible, under suitable arrangement, for New Zealanders occasionally to enjoy without interference of any kind, a complete evening session from, say, 2LO, London, broadcast from one of the YA stations.

The whole process of recording and reproducing is effected by means of comparatively simple apparatus. The principle depends upon the fact that when a steel wire is brought near to

RADIO DIRECTORY

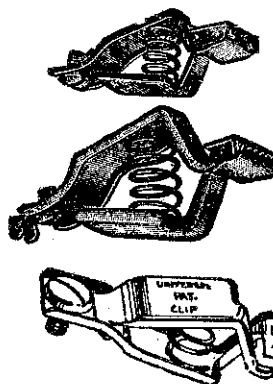
What to Buy and Where

CITIES

- | | |
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| AERIAL MASTS | Domestic Radio Co., Ltd.,
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| ALTONA & HAMMARLUND-ROBERTS SETS. | Johns, Ltd.
Chancery Street, Auckland. |
| AMPLION LOUDSPEAKERS . | All Radio Dealers. |
| BURGESS RADIO BATTERIES, | All Radio Dealers. |
| CROSLEY RADIO RECEIVERS | G. G. Macquarrie, Ltd.,
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| CROSLEY RADIO | Abel, Smeeton, Ltd. Rep.: G. MOSES,
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| CROSLEY RADIO | Abel, Smeeton, Ltd.,
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| EMMCO RADIO PRODUCTS | Johns, Ltd.,
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| EMMCO RADIO PRODUCTS | Thos. Ballinger & Co., Ltd.,
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| EMMCO RADIO PRODUCTS | L. B. Scott, Ltd.,
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| KING RADIO RECEIVERS | F. J. W. Fear & Co.,
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| MAJESTIC RADIO RECEIVERS | Kirkcaldie & Stains,
Chief Wellington Agents, Lambton Quay. |
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| PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and ATWATER KENT SETS | Harrington's, N.Z., Ltd.,
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40-42 Willis St., Wellington. |
| RADIOLA RECEIVERS and | Farmers' Trading Co., Ltd.,
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| Expert Radiola Service. | |

COUNTRY TOWNS

- | | |
|---|--|
| CROSLEY RADIO | J. C. Davidson,
Main Street, Pahiatus. |
| CROSLEY SETS | Abel, Smeeton, Ltd. Rep.: C. Buscoe,
409 Devon Street, New Plymouth. |
| CROSLEY RADIO | D. A. Morrison & Co.,
Victoria Avenue, Wanganui. |
| MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS | Radio House, Hamilton.
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404 Worcester St., Christchurch

MR. R. T. STANTON (Christchurch) reports hearing UOR2, Vienna, on 49.4 metres after 11.30 p.m., average strength R5, very clear and steady. This is probably the station heard by Mr. Morrison.

The station that Mr. R. J. Eatwell (Greymouth) refers to on about 35 metres, calling WOO, will be the s.s. Olympic using the call-sign G2GN. English is spoken, but I have found them very difficult to understand.

The following particulars of Germany's international short-wave transmitter will be of interest, as this station is the best heard here at present during the early morning, and will improve as the days become shorter.

"World Broadcasting" From Germany.

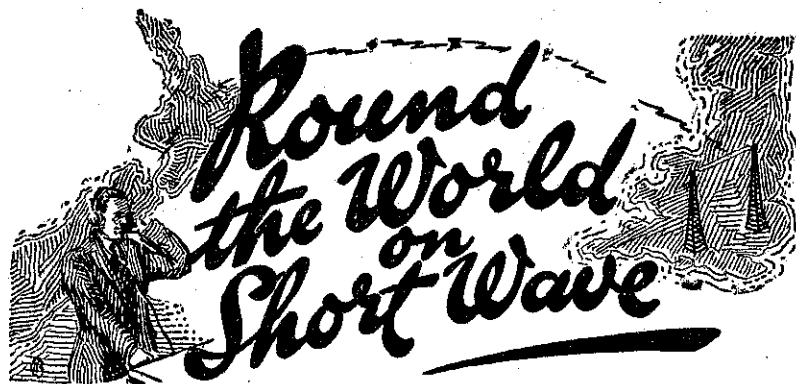
Germany's short-wave "world" broadcasting station at Königswusterhausen (Zeeseen) has now begun testing. In external design the short-wave plant strongly resembles the Telefunken Company's standard long-wave transmitters for wireless telegraphy, while in technical construction it is similar to that of the two high-power short-wave transmitters used on the Nauen-Buenos Aires service.

The new transmitter has a single wire aerial about 180ft. long, which is suspended from one of the masts of the long-wave plant. The mean aerial energy, i.e., carrier wave without modulation, is 8 k.w., and the wavelength is 31.38 metres.

The transmitter consists of seven units, with crystal modulation on the first. The short-wave is obtained by making use of the harmonics of a comparatively low frequency in the crystal-controlled oscillator. Suitable filters and amplifiers in the ensuing stages produce the desired reduction of wavelength and power when the final stage is reached.

The valves in the individual stages are accordingly arranged to give a successive increase in power. The first stage functions with one valve of the power-amplification type, while the second stage embodies a small transmitting valve of the 0.75 watt class. Two similar valves in parallel make up the third stage, and three in parallel comprise the fourth stage. The fifth stage contains a single transmitting valve of average power (about 1500 watts), and the succeeding stage contains two valves of the same type in parallel. The seventh and final functions with two 20 k.w. water-cooled valves in push pull. Modulation on the well-known grid principle takes place in the sixth stage with the aid of three modulating valves connected in parallel.

This arrangement of valves, of course, necessitates separate supplies of power. A high-tension D.C. dynamo of 50 k.w. 10,000 volts is used for feeding the anodes in the last stage; the valves in the fifth and sixth stages are fed by means of a 4000-volt D.C. machine of 5 k.w. In the second, third and fourth stages the anode current is supplied from a common source, viz., a 2000-volt D.C. dynamo of 2 k.w., whilst the crystal stage is fed by a 220-volt machine. For filament heating in all except the last stage a 20 v. 2 k.w. D.C. generator is used. A 40 v. 5 k.w.



THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs of general interest.

generator heats the water-cooled valves in the final stage.

The filaments of the modulating valves are heated by an alternator of high periodicity. Grid bias for the water-cooled valves in the last stage needs to be of a high value, taking into consideration the size of the valves and the high anode current, and is supplied by a special converter of 750 v. 2 k.w.

All machines are started by means of push-buttons on the switchboard, which is built into the lower portions of the transmitting panels. The supply current for the converter is derived from the transformer already in use at the station connected with an overhead electrical distribution system.

Besides the actual transmitter there is also a low-frequency amplifier dealing with the speech currents arriving from the land-line, and the anode circuit of this amplifier is fed by an additional small converter.

The entire installation is equipped with measuring apparatus enabling the performance of every portion of the transmitter to be checked.

Reception during Week ending February 8, 1930.

RA97, Siberia, 70 metres, is still received at good volume, but with a very great proportion of talk.

W9XF, Chicago, 49.83 metres, can be relied upon for a good programme till 8 p.m., when they sign off with a cheery "Good morning, everybody, lots of luck. We hope to hear from you—we mean it, yes we do." Special programmes are to be given each Thursday, featuring the various States. California is to head the list.

W2XAF, Schenectady, 31.4 metres.—On Sunday R7-8 was the best volume which was reached by 5 p.m. Strength was only R5 at the loudest on Saturday.

PCJ, Eindhoven, Holland, 31.4 metres.

A high-frequency hum spoilt reception on Friday morning. Volume from 6 a.m. till 7 a.m. was R8, decreasing to R6 by 7.30 a.m. Reception on Saturday morning was about the same, with a little less hum. Until 5 p.m. on Saturday afternoon volume was too weak to be readable. At 5 p.m. strength was R3, increasing to R7 by 6 p.m. The last half-hour was devoted to dance music for the ladies of the Antipodes. Mr. E. Startz, the announcer, stated that he would be absent from PCJ till the end of March, as he was going for a trip to Spain.

Zeeseen, Germany, 31.38 metres.—This is the best station received here at the present time. Tuesday from 6 a.m., orchestral selections at R9; Wednesday, R8-9 from 6 a.m., with a very fine choir; Thursday, R9, orchestra, commencing at 6.15 a.m.; Friday, R8-9 choir from 6 till 6.30 a.m.; Saturday, no sign till 6.30 a.m., when their programme commenced with a piano solo, received at R8-9. Not only is the volume good, but reception is near perfect in all ways.

7LO, Nairobi, 31 metres.—This station appears to be approaching the season when it will not be audible. Early in the week signals were very weak, while

on Friday and Saturday they were not audible.

VK2ME, Sydney, 28.5 metres, is to be heard testing with GBX nearly every morning and evening at good strength. On Friday morning records were transmitted which GBX rebroadcast, being received back again in Australia quite clearly, so 2ME reported. "Hullo, Discovery" was called between items. After signing off with GBX, Sydney said they were going to play two more records for the "Discovery."

GBX, England, 27.5 metres (about) testing with 2ME, Sydney.

KZRM, Manila, 24.4 and 48.8 metres.—This station has gone off with the change of frequency.

5SW, Chelmsford, England, 25.53 metres.—Volume is increasing now when 5SW opens at 7 a.m., but gushiness as a rule spoils readability. Saturday morning, the best of the week, volume at 7 a.m. was R7. After Big Ben, it was announced that the third talk on careers for boys and girls would be on aviation by Major —? The talk was 100 per cent. readable.

KDKA, Pittsburgh, 25.4 metres, was reached. Volume was R8 by 5 p.m. No sign of them was heard on Saturday afternoon.

W6XN, Oakland, California, 23.35 metres.—Sunday afternoon very weak. Tuesday at 7.45 p.m. R4 with noisy background. Friday R8 at 7.30 p.m. with plenty of noise, signing off at 8.2 p.m. after giving the weather forecast.

WOO, America, 23.1 metres (about).—This new station has been heard each evening during the past week between 7.30 and 8 p.m., reading for GZGN (Olympic) and carrying out word tests, viz., "Write down." Volume is as a rule about R7-8, but signals are seldom clear enough to hear all that is said.

G2AA, England, 23.4 metres (about).—This is another station heard calling the Olympic and conducting word tests. I heard G2AA on Tuesday at 7.45 p.m., R7, and again on Friday morning at 5.30 a.m. Readability was poor each time. The latest Call Book gives G2AA as Radio Communication Co., Ltd., Slough, Buckinghamshire. WOO could not be found in the same book.

W2XAD, Schenectady, 19.5 metres.—R2-3 on Sunday and Saturday afternoons was the best I could manage.

PLE, Java, 15.74 metres, were heard with records on Friday and Saturday evenings. Volume and quality was excellent.

DGW, Germany, 14.83 metres, were R7 with reading at 6 a.m. on Monday morning.

Unidentified Stations.

THE list of stations under this heading is steadily growing.

35.5 metres (about) on Sunday at 7.35 p.m., R5, word test, and on Saturday 11.30 p.m., R3, with music.

46 metres (about).—First heard at 7 p.m. on Saturday with records at R7. Closed just after 7 p.m. for one hour. Started promptly again at 8 p.m. with more records. A call was given several

times in a good English voice. The last letter appeared to be O and I think he said Canada. At 8.10 p.m. I heard "Closing down till—Eastern Standard Time." Volume was about R7 all through, but talk was mushy.

34.5 metres (about).—Wednesday, 3 p.m., an American voice, but not readable.

33.4 metres (about).—Saturday, 7.25 p.m., foreign talk at R5. Closed down at 7.30 p.m.

31.5 metres (about).—Nearly every morning at 6 a.m. a foreigner has been heard talking at R7-8. Volume and clarity has been very good. The language, I think, is German.

31.4 metres (about).—An American was tuned in about midnight, Saturday, at R4-5. Records were being transmitted. "Constantinople" was heard about 12.15 a.m. The call was not heard, a morse station spoiling reception.

24.4 metres (about).—Thursday, 6 a.m., foreign talk at R8, with rapid fade, and again at 10 p.m. the same day.

Interesting Correspondence

Mr. Rodgers, of Newtown, writes:—The following are copies of letters received from 7LO, Nairobi, and VOR2, Austria: "We beg to acknowledge receipt of your letter dated October 28 last, containing a report on reception of our short-wave station 7LO, for which we thank you. We transmit on a wavelength of 31.1 metres with a power of approximately half a kilowatt, and our times of transmission are from 1600 to 1900 G.M.T. daily, including Sundays. Yours faithfully, M. Wenn (from Shannon, Manawatu). Kia Ora. How's Day's Bay?"

The manager apparently is a New Zealander and knows Wellington.

The Austrian station VOR2 transmits on the following days, Tuesdays, Wednesdays, Thursdays, and Saturdays, using a carrier power of 20 watts only. The experimental tests from VOR2 are carried out on 49.4 and 24.7 metres.

Letters from D.H.C. and Radio Königswusterhausen have been received, but unfortunately are written in German. I have also received one from FSGC, Radio L.L., Paris, but cannot gain any information regarding the station, as the letter is typed in French.

[Send them along and we shall do our best.—Ed.]

Can you solve a difficult problem?

See

"TRIALS IN TACT"

(on page 27 of this issue).

FOR SALE OR EXCHANGE

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

CHENILLE FRINGE, just arrived, newest colourings, from 2/3 per yard. Wire Frames and Gold Braid. MacQuarries, 120 Willis Street.

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5-VALVE Neutrodyne Set, complete, as new. "Sonora" Loudspeaker, three wet batteries, "B," each 50 volts, 6-volt "A" battery and battery charger. Cost £55. Price £25. "Neutrodyne," Box 422, Wellington.

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The Technique of the Pick-up, the Reproducer and the Record

IN case the word "technique" in the title might frighten some of our readers who wish to know a little more than that necessary to turn a switch and change a record, let me say from the onset that this is not a technical talk, but one that proposes to delve just sufficiently below the surface to impart to readers information that will be vital if they wish to obtain the best results from their combination. We all know that the modern instrument is simplified to a degree that renders superfluous a knowledge of anything but the simple operations necessary to playing the combination, but there is still a very large number of music-lovers who have a separate pick-up in combination with their radio receiver. In these cases such considerations as the adjustment of the pick-up and the amplifier of vital importance and our chat this week will be largely devoted to cases that fall under this heading.

But the owner of the commercial combination must not feel that for this week, at least, he is left out of the question. There are very many rules of thumb that he must observe if he wants his records to last well, and if he will obtain a superficial knowledge of their construction he will keep his records in a better state than knowing nothing he does no more than to follow common sense, which may or may not be good sense.

SO, having introduced our subject to all, let us look for a few moments at the pick-up itself. Wherein does it differ from the head of the gramophone? A pick-up is almost the reverse to a speaker. The vibration imparted to the needle causes it to move between two magnets around which are coils of wire connected to the amplifier. The needle in moving causes a fluctuation in the lines of force surrounding it, and this is transferred down the wire to the amplifier, where the weak impulses are strengthened up and sent to the speaker, which reverses the proceedings and transforms the electrical vibrations into movements in the air which we call sound. And that is the "technique" of the pick-up; simple is it not?

The ordinary gramophone reproducer transforms the mechanical movement of the needle to movement of the tight diaphragm which moves the air. The moving is audible if the ear is close enough. To amplify the sound it is sent down a long passage and due to the shape of this the sounds are strengthened. The magnets of the pick-up are very much more sensitive than is the diaphragm, so that tones and overtones, impossible with the ordinary gramophone, are quite everyday occurrences with the pick-up and

the amplifier. This makes possible greater quality and volume—it imparts realism.

The Record.

TO make a record an artist or combination of artists perform very much as though before an audience (bows and encores excepted), and a microphone or microphones are placed in positions that give the best balance when all the impulses are collected. This is much the same procedure as in the broadcasting studio, and as here the sounds collected are amplified, but when a recording is being taken the sounds are passed to an instrument which reverses the action of the pick-up and transforms electric movement to movement of the needle, and this impresses a specially prepared wax disc which is revolving at 78 revolutions a second.

The sounds result in a horizontal movement of the needle and a groove which varies in width from side to side is made. It can be seen that the distance between the grooves widens and narrows according to the frequency of the sound; the deeper it is the smaller the distance between them.

This is an important point to grasp, as it will be alluded to later when we consider adjustment of the pick-up, needles, and the care of records.

Correct Adjustment.

FOR the gramophone enthusiast who adds a pick-up to his receiver we cannot stress too forcibly the necessity to correctly adjust the pick-up both with reference to the angle of the head and the sweep of the arm. If the slope of the head is not correct the grooves of the record do not get a fair chance, as the thicker part of the needle is pressed too close to them and forces them open, with the result that the record loses much of its power of supplying undistorted music to the reproducer.

If, too, the sweep of the arm is not correct there is a drag on the grooves on one or the other side with the same result. Adjustment is absolutely necessary, and here the writer must diverge to tell an incident that has come within his ken.

An enthusiast installed a pick-up without reading the instructions—he trusted to common sense. Everything went well until one or two of the records began repeating suspiciously several bars. The records were wearing badly, and, naturally, the pick-up was blamed for being hard. However, the writer happened to see this apparatus, and—now the records are not wearing out so quickly. Just a few adjustments and quite simple ones, too.

It would require too much space here to reiterate what has already

REALIZING the growing popularity of the gramophone and radio combination we are devoting this section to the gramophone side of the combination. It is hoped to discuss in non-technical language some of the oft-asked questions, "Do pick-ups shorten the life of records?" "What type of needles should be used?" "How do pick-ups vary?" "Why is the Pick-up superior to the ordinary gramophone?" and a host of other interesting and important points that concern the owner and the prospective owner of the combination or the electric gramophone. Further, the most important releases will be reviewed in brief and from time to time short biographies of the better known composers and artists will appear.

Celebrities

Peter Dawson

THERE is, perhaps, no better performing artist than Peter Dawson, the fine bass-baritone who sings for the H.M.V. He has made a number of records greater than that of any other artist, and he is still making them. They are all welcomed and absorbed by the music-lovers the world over. Dawson has the rare gift of being able to impart character and atmosphere into practically every kind of song within the range of his voice, whether it be grand opera, ballad or lyric. His voice is extremely flexible, and because of this he is able to give tone and colour to every note. He never forgets that in singing ballads he is also telling a story, and the listener never loses a word. This alone is a rare accomplishment of a recording artist.

He was brought to prominence in the old recordings, but in the new electrical methods of recording and reproduction all the fine qualities of his voice are brought out. Every word is a recreation of the original performance.

Among his wide repertoire of recordings are the following that should appeal widely. These have all gone over the air, and will probably do so again in the near future, so listeners should look for a musical treat when any of these are announced:—"Drake's Drum," "Bedouin Love Song," "When the Sergeant-Major's on Parade," "O Star of Eve," "Floral Dance," "Song of the Volga Boatmen," the Toreador's Song from Carmen (frequently broadcast), and "The Boys of the Old Brigade." New recordings by electric methods, better even than the former recordings, are "Bedouin Love Song," "The Bando-lero," "Star of East," and "The Garden of Allah." These may be obtained from any music house, but be certain to specify "electrical recording."

been published in this respect. The writer can do no better than refer those who use a separate pick-up to "All About the All Electric," where this problem is treated very fully.

Although we have only skimmed the surface of the subject of technique we have finished, for we wish to give practical talks and not vague theory in this column. Next week we shall deal with the all-important subject of needles.

New Recordings

A New Ketelbey Recording.

KETELBEY'S new work, "In a Chinese Temple Garden," an Oriental phantasy, is offered by Columbia this month. It is played by the Ketelbey Orchestra, whose finely descriptive playing is well-known to gramophone-lovers, gives a beautiful and authoritative rendering, and the work should soon become as warm a favourite as the composer's other works, such as "In a Monastery Garden." The composer's own intention is happily conveyed by the well-balanced playing, and this with the soft, quaint chanting has secured the exactly right atmosphere. These compositions are frequently broadcast, and figured largely in the repertoire of the former 2YA orchestra. The record is also made on the H.M.V. by the Albert Hall Orchestra. "In a Persian Market" is on the reverse.

Selections from "Maritana."

A NEW vocal record likely to be highly popular is a selection of vocal gems from Wallace's "Maritana." The artists are Clara Serena, Francis Russell, Dennis Noble, and Doris Vane, all well-known to gramophone lovers, with the support of a fine chorus, and orchestra. The numbers given include "Scenes That Are Brightest," "In Happy Moments," and "Let Me Like a Soldier Fall." And many other hits from the opera. (Columbia 06007.)

Band Music.

THE band of H.M. Coldstream Guards, universally recognised as one of the world's best in "The Belle of New York" (Kerker), and "The Geisha" (Jones). H.M.V. C1703.

A magnificent full-toned record of selections from two of the great musical comedies of all time—the ever-popular "Belle of New York" and "The Geisha." This latter will be presented from 4YA on Monday, February 10, and the recording of "The Geisha" will open the programme. The full value of this record can be obtained only through an electrical (or re-entrant) reproduction.

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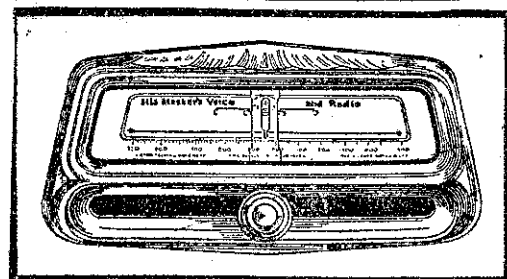
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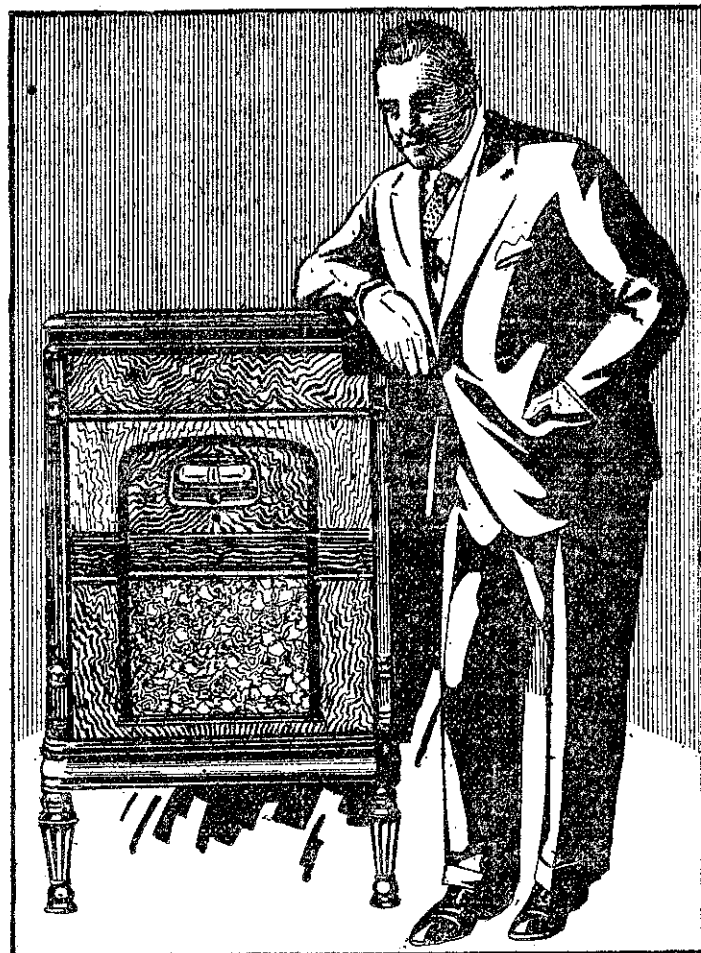
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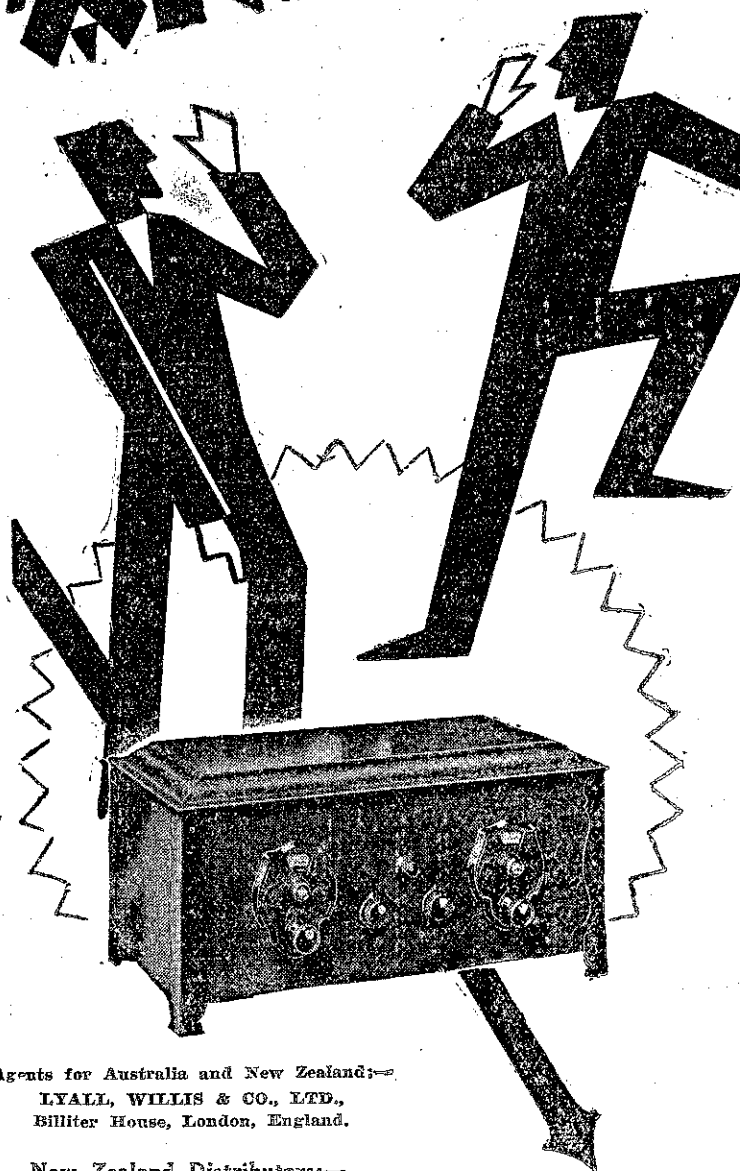
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