

THE RADIO RECORD

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(Price, 3d.)

Brilliant Orchestra for 2YA



On page 3 is published a photograph of the orchestra which has been formed by Signor A. P. Truda and engaged to appear twice a week at 2YA. It will be seen

from the personnel that this is a brilliant combination and its advent on the air will be keenly looked forward to. It will give performances on Monday and Friday evenings, the operatic and classical nights respectively at 2YA.

Every member of the orchestra, which will play under the baton of Signor Truda, is an outstanding artist and soloist. The engagement of this orchestra is another progressive move by the Broadcasting Company. As was intimated by the general manager, when he officially announced the engagement of new instrumental combinations at the stations, the advent of the "talkies" has released from their orchestral engagements in the theatres some of the best professional players, and the opportunity thus presents itself of further developing the musical side of the service.

The Conductor, Signor A. P. Truda, A DISTINGUISHED musician with a long record as a successful conductor is Signor A. P. Truda. He is a man of genial personality and tact, and is universally popular. As a conductor he has an extraordinary sense of orchestral balance. In Wellington he is well known as conductor of the very efficient choir of St Mary of the Angels. At the Golden Jubilee celebrations of Archbishop Redwood, Signor Truda had the high honour of conducting the fine performance by the massed choirs. Throughout Australia and New Zealand Signor Truda is well known as a flautist and as a conductor. He has played and conducted in all the leading theatres and concert halls in the Commonwealth and the Dominion, having been associated with some of the world's most famous singers—Madame Calvé, Blanch Arrol, Lidia Lipov-

Signor A. P. Truda Forms a Strong Combination

ska, Rosina Buckman and numerous others. His flute solos and obligati have charmed many great audiences.

It was at the request of his brothers that Signor Truda came to Australia. His first appearance in Sydney was at the Philip Newbury and Madame Spada concerts. He secured the season's engagement after he had been selected from nine first-class

flautists. In the musical world Signor Truda has won an eminent place as a flautist. Before leaving Europe he played first flute in operatic and symphony orchestras under such renowned conductors as Lombardi, Barrella, Grandini

and Marzano, from whom he derived an invaluable fund of knowledge and experience.

As may be imagined, Signor Truda comes from a distinguished musical family. At the early age of ten he commenced his musical studies in the Principe Umberto College, at Salerno. At the age of twelve he was one of twenty boys chosen from the college to sing in the boys' chorus in the opera "Carmen." The choirmaster was the celebrated organist, Rossi, and the opera conductor was none other than Lombardi. Among the leading performers were Enrico Caruso, Pignataro and others. This was the youth's introduction to grand opera.

Signor Truda continued his musical studies for six years at Salerno under Professor Genovesi, studying the art of flute playing in all its branches. To continue his studies further, he was sent to Naples for three years to the flute virtuoso and composer, Professor Casi (protege of Briccialdi) with whom he studied harmony and orchestration. He then equipped himself with a concert repertoire of flute solos and the art of playing them.

Under such a conductor as Signor Truda, listeners in to 2YA may expect some delightful entertainment from the orchestra.

Miss Ava Symons.

MISS Ava Symons, the unusually-gifted violinist, is a New Zealander. She showed exceptional talent during her early studies with Max Hoppe, when she won the first prize at the Napier Competitions, and also attained a similar distinction at the

—Continued on page 2.



SIGNOR A. P. TRUDA.

Brilliant Orchestra for 2YA

(Continued from front page.)

Auckland Competitions in the open class in the same year (1911). Her first orchestral experience was obtained at the age of 15, when, as a member of the Sheffield Orchestra, she toured New Zealand. Miss Ava Symons was the only non-professional member of the orchestra.

Whilst in Italy, where she received special tuition from Maestro Poltronieri, principal violin master of the Milan Conservatoire of Music, a great privilege was extended to this gifted violinist in that she was permitted to attend all rehearsals of the Poltronieri Quartet (string).

In England she entered the Royal Academy, and studied there under the well-known violinist and exponent of the Auer School, Mr. Spencer Dyke. In 1919 Miss Symons in London was fortunate enough to receive tuition from the famous French violinist Mlle. Rene Chemet. It was this great artist who was responsible for Miss Symons securing the beautiful "Grand Nicola Amati" violin which she now possesses.

Since her return to the Dominion, Miss Symons has been heard at many concerts, and has given recitals with Mr. Frank Hutchens, Miss Constance Leatham, and a series of most success-

ful sonata recitals in Wellington. Her fame and ability are beyond question.

Mr. J. W. Glennie, Trombonist.

BORN in Invercargill, Mr. Glennie commenced his musical career at an early age, first learning the cornet and later on taking up the study of the trombone. His perseverance over a lengthy and varied period has placed him among the most prominent artists on the trombone in Australasia. In competition with the best trombonists of New Zealand and Australia he has had considerable success, having won the honour of champion on several occasions, as well as many other prizes. In orchestral playing he also has a high reputation. He was soloist with the Wellington Professional Orchestra for many years and until recently was constantly engaged in the principal theatres of Wellington, including vaudeville and pictures. Mr. Glennie won his first competition at the age of sixteen. Prior to taking up residence in Wellington Mr. Glennie was engaged as solo euphoniumist with a prominent North Island band, and attended several contests as such with great success.

Mr. A. H. Wright, Clarinet.

Mr. A. H. F. Wright who was born in Surrey, England, has had consider-

able experience in theatre orchestral work. In Wellington his ability is familiar to patrons of most of the leading theatres—the King's, Queen's, Paramount, Regent and Majestic—also as clarinet soloist in the Wellington Symphony Orchestra. He will also be remembered as clarinet player for the first twelve months of the old 2YA Orchestra, which he left to go to the Majestic. He also has had considerable military band experience in England. Mr. Wright's work is notable for a remarkable beauty of tone, artistic interpretation, and truly sympathetic treatment.

Mr. Sydney H. Bernard, Trumpet.

MR. BERNARD has had a wide experience in the musical and theatrical spheres, having performed in many parts of the world, notably Australia, U.S.A., Canada and New Zealand. He has earned the reputation of being an artist on the trumpet, both as a soloist and in ensemble work. He studied the trumpet under Frank Ariola, trumpet virtuoso of the San Francisco Symphony Orchestra, and other teachers of repute in the United States. His musical knowledge also embraces the pianoforte, harmony and orchestration, which he studied at the Zoellern Music Conservatoire, Los Angeles. Mr. Bernard is an Australian by birth.

Mr. C. S. Martin, Contrabass.

MR. C. S. MARTIN, Wellington's leading contrabass player, is well known. He is an accomplished player and has appeared before the public continuously for the past twelve years as a member of the King's and De Luxe Theatres' orchestras, at the former for seven years and at the latter for five years.

Mr. W. E. McLean, Violin.

MR. W. E. McLEAN, violinist, late Temple Theatre (Dudley), De Luxe (Chester), and the Cinema House (Birmingham), has had eight years of orchestral experience under renowned conductors. He acquired his musical education at the Birmingham Conservatoire, where he studied under Professor Hytch, also Mr. Max Mossell. While in Wellington, Mr. McLean has been engaged in the capacity of leader violinist at the Paramount and other principal theatres.

Mr. Claude Tanner, 'Cellist.

SINCE his return to New Zealand a few months ago, Mr. Claude Tanner has been broadcast several times by 2YA, always with widespread appreciation of his refined style and flawless technique. He has proved himself an artist of exceptional ability. At the early age of 22 he had the unprecedented honour of being appointed sub-professor of the Royal Academy of Music, London, where he was successful in securing the L.R.A.M. degree and the highest honour obtainable at the Academy, "honourable mention." Mr. Tanner is now well known on the London concert platform as a soloist, his numerous appearances, both in concert and recital work, bringing him very appreciative notices from the London Press on every occasion.

A feature of his work has been the invaluable experience in orchestral

playing gained with Sir Henry J. Wood, giving him a thorough knowledge of orchestration in all its branches. In addition, he has devoted considerable time to the study of pianoforte, chamber music (under the direction of the famous Lionel Tertis), musical interpretation, harmony, counterpoint, and the elements of music. Mr. Tanner has travelled extensively on the Continent and has also paid visits to North and South America.

Mrs. G. P. Aldridge, Pianist.

MRS. G. P. ALDRIDGE, better known in musical circles as Miss Phyllis Hanify, and as one of the star pupils of the late Baxter Buckley, is a pianist of outstanding ability, having had considerable experience in both solo and orchestral work, and as an accompanist to local and leading visiting artists. At an early age Mrs. Aldridge acquired all letters in both musical colleges, winning several special medals. In the sphere of competitions she won several championships. During periods of her career, Mrs. Aldridge has been employed by J. C. Williamson, Ltd., and has had charge of orchestras in various Wellington theatres, both vaudeville and pictures.

Mr. Wm. Boffa, Flautist.

AS flautist of the combination, Mr. Boffa is a strong link. His professional engagements have taken him on several tours in New Zealand. He has just completed a most successful period with the "Rio Rita" Company. His place in the photograph was taken by another of Signor Truda's pupils.

Navigation by Wireless

THE navigation of a ship from Finis-terre to Liverpool through fog solely on wireless bearings, is reported in a communication from the master of the motor-vessel Athelking.

The Athelking carries a Marconi Direction Finder, and, commenting upon the efficiency of coastal wireless beacon installations used in conjunction with the ship's direction finder, the captain states that he was able to take the usual four points' bearings for some distance off in spite of the fog. The report again emphasises the valuable aid rendered to navigation by wireless beacon stations, two more of which have recently been completed by the Marconi Company for Trinity House.

Installed at Cromer and Dungeness lighthouses, they will prove a very useful addition to the facilities available in the Channel and North Sea to ships equipped with wireless direction finders.

A WELL-ARRANGED choke output not only insulates the loudspeaker from the high-tension supply, but it reduces the possibility of losing high-tension voltage by leakage between the output leads.

IF you are using choke output for a short-wave set to obviate threshold howl troubles, remember that a large L.F. choke is quite unnecessary and that an old L.F. transformer secondary will generally be found perfectly O.K. for the purpose.

RADIO LISTENERS' GUIDE.

1929-30 Edition of the Guide has been well received and repeat orders are coming in rapidly.

The "Guide" is of more than passing interest—it is AN AUTHENTIC REFERENCE WORK that can be called upon to answer all those questions that trouble the amateur wireless enthusiast.

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Please post me immediately.....copy [ies] of your 160-page illustrated reference work "The N.Z. Radio Listeners' Guide, 1929-30" at 2/9 per copy posted. I enclose herewith postal notes for..... (Add exchange to cheques).

Signed.....

(Write address clearly).....

Trade Development

Courier Radio

News from Across the Tasman

Impending Australian Broadcasts

MESSRS. J. Wiseman and Sons, Ltd., Auckland, makers of the "Courier" Radios, upon encountering an unforeseeable structural defect in one of their all-electric models, promptly called in from all parts of the country at their own expense every receiver of the type which had left the factory prior to the discovery. Although the defect had not evidenced itself in many of the receivers recalled, the manufacturers do not regret their action, since they held the opinion that decreased efficiency from this cause "might" have occurred at some future time. The defect encountered had been a peculiar one, arising through unwonted pressure on the cabinet front affecting the alignment of the ganged band pass condensers, this throwing the receiver out of adjustment. The new method of internal mounting adopted has completely overcome the trouble. Seizing the opportunity for turning their experience to account, the manufacturers have now designed metal cabinets with an embossed relief panel in coppered bronze to be incorporated in all future containers of the model in question. This panel, whilst adding markedly to the attractiveness of the cabinet, affords greater rigidity and general immunity from strain. The new "finish" is also a great improvement, being much harder and distinctive than before.

SUBJECT to ratification by Wireless Pictures, Ltd., Amalgamated Wireless (Australasia), Ltd., who own the majority of important broadcasting stations in Australia, have concluded with the Fulgraph agents in that country a five years' contract for a still-picture service. Transmissions from Melbourne are expected to begin shortly, and all short-wave enthusiasts in New Zealand will hope that 3LO, the 31.5 metre (9525 kilocycle) Melbourne station, which is now temporarily "off the air," will shortly recommence, and broadcast still pictures.

SINCE the inception of the A.B.C., twenty-six church services have been broadcast. In future, no denomination will have two services in one day. In this way an endeavour will be made to spread the interests of followers of various church services. Commencing on Sunday night, October 13, two church services will be given each alternate Sunday night.

ON each Saturday evening until further notice, there will be a broadcast through station 2BL from the Speedway Royal, Moore Park, at 8.45 to 9.5 p.m. and 9.50 to 10.10 p.m.

FOLLOWING many applications received from country districts that the main events in the Spring Racing Carnival should be broadcast through both stations, the A.B.C. has now made arrangements that these requests will be acceded to. The Derby, Epsom, Metropolitan and the big classic weight-for-age races will therefore be broadcast through both 2FC and 2BL stations, so that interested listeners in New Zealand will have the opportunity of tuning in the station which gives them the most satisfactory daylight service.

THE effective way in which the material of "The Jazz Spider" is handled will count for a great measure of the success which this unusual play is certain to achieve. For thrills and dramatic surprises, "The Jazz Spider" surpasses many stage plays, but the method of treatment is entirely different to anything that has ever been broadcast. The first instalment will be broadcast from 2FC on October 9, and experts have predicted that this commencement will make or mar the serial. It is written by James Donnelly, and everyone knowing his reputation as a writer will certainly endeavour not to miss it.

A NOVEL broadcast to take place on October 19 through 2FC will take the form of a "Night on Sydney Harbour." A special launch will be chartered by the A.B.C., and will ply the harbour with a group of singers who will treat listeners to a number of plantation melodies. There will also be some comedians on board, and incidents of the trip will be described by the 2FC evening announcer.

LYNN SMITH, an enterprising pianist of great versatility, is well known in Australia and New Zealand as leader of his jazz band. He will infuse plenty of "snap" into the "snappy revue" which will provide listeners with entertainment on October 10.

THE National Broadcasting Orchestra, which will be heard through both stations 2FC and 2BL on Monday and Friday nights, under the conductorship of Horace Kents, has been considerably strengthened by the inclusion of six additional members. The personnel now comprises thirteen musicians, as well as an organist and pianist.

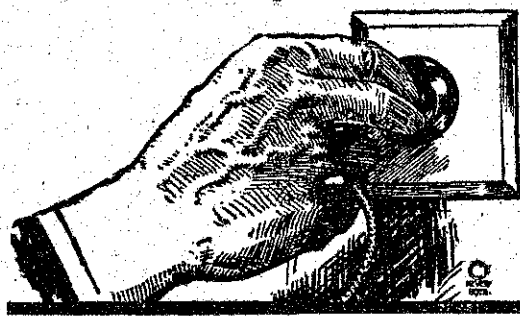
TWO actors who have won a name both on the legitimate stage and on the air are Goodie Reeve and Jack Lumsdaine, who will broadcast a novel little sketch on October 10. The play is of rather an unusual nature, as the setting is unique, and the sound effects are elaborate and require special expert management. This should prove one of the most interesting experiments yet broadcast, and it should be well worth the attention of listeners who are looking for entertainment of an unusual nature.



2YA ORCHESTINA.

Back Row: Mr. W. E. McLean (1st Violin), Mr. Wm. Boffa (substituted), (Flute); Mr. A. H. F. Wright (Clarinet), Mr. J. Glennie (Trombone), Mr. C. Martin (Double Bass).
Front Row: Mr. Claude Tanner (Cello), Miss Ava Symons (Leader Violin), Signor A. P. Truda (Conductor), Mrs. Phyllis Aldridge (Pianist), Mr. Sydney Bernard (Trumpet).

Gordon Webb, photo.



SOCKET POWER

And its Relation to Radio

Is fully dealt with in the "All About the All-Electric" Handbook to be published shortly, in fact everything in Radio that has any connection with A.C. is fully dealt with and explained. Numerous diagrams of circuits and illustrations of the different apparatus described, are to be found in the—

"All About the All-Electric" Handbook

SOME OF THE ARTICLES

Choosing an All-Electric Set.
Power and A.C. Valves.
A. B. C. Battery Eliminators.
A.C. Crystal Set and Amplifier.
How to Convert your Set.
Pick-up Adjustment.
How to build an A.C. Browning-Drake.
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Speakers for All-Electric Sets.
List of Stations.

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Please post me, upon publication.....copy [ies] of your 60-page illustrated reference work, "All About the All-Electric" at 1/9 per copy posted. I enclose herewith postal notes for..... (Add exchange to cheques).

Signed.....

(Write address clearly).....

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Encouragement of Horticulture

Attractive Lecture from 3YA

ANOTHER of the series of lectures arranged by the 3YA Productions Committee was given from 3YA on October 3, entitled "Aims and Objects of Horticulture Societies." The speaker was Mr. O. W. B. Anderson, chairman of committee, Canterbury Horticultural Society, who gave a fascinating exposition of garden lore, from artistic, decorative, and commercial standpoints.

Introducing his talk by remarking that the society's aim was a tall order, the lecturer explained that horticulture is concerned not only with cultivation of flowers and fruit, but also embraces soils, manures, insects, hybridisation, and also the scientific side. Its advancement, he emphasised, calls for educative work that is practical and also scientific, and for the collection of experimental results in handy form for the average man.

In outlining the work of the Canterbury Society, Mr. Anderson mentioned its desire to encourage people to grow flowers, vegetables, and trees, because of the immense pleasure to be derived therefrom. There were many, of course, who wished to grow products that were finer than others, and exhibitions were therefore necessary for competitive purposes. Shows of this kind had educative value, and provided a meeting ground where those with new, rare, well-grown flowers could put them on view. The society carries on its work in a series of lectures, where competent speakers impart knowledge, and non-competitive exhibits are on view. In the future the society proposes to break new ground, which may become semi-scientific; and in this connection its journal, "The City Beautiful," disseminates knowledge concerning new plants, its pages proving a meeting-place for the scientific man, the semi-scientific, the practical horticulturist, and the keen observer of nature. The opportunity provided in those pages for botanist, hybridist, and practical man to exchange views, Mr. Anderson believes, will prove the fore-runner of conferences in years to come. Can anyone estimate the value to the country, he inquired, in thus uniting efforts of those continually striving to give the earth's products a greater market value, larger yields, longer periods of usefulness, improved size and quality, and greater immunity from disease?

This useful society encourages the hybridist to produce better plants and flowers, cups and donations being received for new daffodils, lilies and chrysanthemums; and any enthusiasts belonging to it can rely upon assistance on application to members who are more experienced than themselves.

Mr. Anderson cited his experience as a sweet pea grower, mentioning that he found seeds raised in Central Otago better than those received from England or America. In his opinion there is no reason why New Zealand should not become one of the premier seed and plant-producers of the Empire. Much money has been spent by the Government in this direction, with beneficial results to the whole community. When it is considered, however, that agriculture deals with but a few dozen varieties of plants, whereas the horticulturist treats many thousands from all over the world, varying in requirements of treatment, soil, pruning, and so on, the conviction is forced that much greater help should be given to this art and the development of the seed and plant industry. A large amount of capital is invested in the nursery business, the nurseryman on his part owing obligation to the society and to the public to keep up-to-date in every respect, supply plants well-grown and healthy, and in planting new gardens strive to achieve a big show at the earliest possible moment.

Gardening is one of the oldest of the arts, being in existence over 2000 years ago. Our early pioneers brought with them a love of gardening, many trees and shrubs of great beauty testifying to the industry and knowledge of our fathers.

In deploring the gradual disappearance of large gardens, the lecturer said that since the system of rating upon unimproved value has been in vogue, the holding of large sections has become expensive, and it has been possible to retain only a small area, where little can be attempted in the way of layout. In passing, Mr. Anderson spoke of the station gardens, which he felt sure were admired by the travelling public, who appreciated the efforts of station-masters and their staffs, who cultivated their plots with such success.

In a resume of possible future activities, the speaker thought that facilities for horticultural education should be extended, careful thought being necessary in this direction. He suggested that for reserves and parks an adequate glass-house system is required for propagation of plants, making it possible for practical training to be given to promising gardeners, with at the same time arrangements for scientific teaching, the ideal being to have ground fit for educational work, and also experiments and investigations. Mr. Anderson concluded: "We are a brotherhood of kindred tastes, we are all aiming at higher standards for the future, for which we hardly know how to aspire. But horticulture is useful, elevating, healthy and progressive, and it is our whole aim and object to help all who are engaged in the work."

"All About the All-Electric"

New Radio Publication to be On Sale Shortly

WITHIN the next few weeks the "Radio Record" will be publishing a comprehensive handbook under this promising title. As its name suggests, it is devoted to the all-electric receivers and their concomitant features. Several major features of great interest to the intending purchaser, the constructor, and the A.C. set operator, will be presented. The style of the terminology is the non-technical "Radio Record" style (with the exception of one or two articles specially prepared for the more advanced who wish to know more about the technicalities of the All-Electric). The matter has been written by experts on the "Radio Record," "Cathode" and the Technical Editor. There is another illuminating article from the pen of one of New Zealand's foremost radio authorities, Mr. W. M. Dawson, A.M.I.R.E., M.I.W.T.

The special features are: Points in purchasing an all-electric; the A.C. Browning Drake (with subsequent amendments); full construction details of the change-over to A.C.; an A.C. amplifier for a crystal set (one and two valves); an A.C. power amplifier; A.C. valves; and numerous other helpful articles.

The handbook will contain some 60 pages, and will have an attractive cover. It will be well illustrated.

This useful little book will sell for 1s. 6d., and copies should be ordered early.

WANTED AND FOR SALE.

For column of casual advertisements see page 32.

A SOUTH AFRICAN scientist has recently been conducting experiments in connection with the adaptation of radio as a rain-maker. He propounds the theory that transmitting stations set up powerful artificial gravitation areas which affect the surrounding atmosphere to such an extent that rain and rough weather result. He prophesies that in the course of time the etherical stress will result in atmospherical violence of such a nature that within two years the Beam system in its present form will have to be abandoned.

IT is reported that ships returning from the Arctic have brought reports of reception conditions in the most northerly parts of Canada, and it is pointed out that there are now very few trading posts there not possessing wireless sets. The post at Bernard Harbour, in the North-west Territories, holds the record for good reception conditions. Seven British broadcasting stations are received regularly at good loudspeaker strength. The Japanese station, JOAK, and Brisbane, Australia—at a distance of 9000 miles—have also been received clearly.

WATCHES may soon be set automatically by radio if the plans of an America timepiece manufacturer are successful. There is a race between this firm and a German concern to produce the first radio-regulated timepiece suitable for general use. If this is accomplished, the watch of the future will keep observatory time as long as it is running.

THE B.B.C. are taking prompt steps to track down an unknown "pirate" transmitting station which has been annoying listeners by broadcasting vulgar songs and jokes. As there are several thousands of amateur transmitters in England, the field has to be narrowed down, and thus a special van fitted with a direction-finding apparatus has been commissioned to trace the offender.

THE introduction of colour into television transmissions was recently carried out successfully in America. It is claimed that it is now possible to add colour without complication, and, while the size of the pictures are still limited to that of a postage stamp, it is stated that it would not be difficult, though more expensive, to reproduce coloured pictures on a larger screen.

THE Paris-Orleans Railway has temporarily abandoned the idea of establishing a regular service of broadcast reception on express trains. Experiments have been conducted since 1923, but it is now realised that atmospherics and other extraneous noises have still to be overcome before a reliable service is possible.

THE city of Moose Jaw, Saskatchewan, recently held their first annual Rodeo to bring back bygone days when six-shooters, cowboys, and sayuses abounded. This exhibition was arranged by the local radio station, from which the sports announcer gave a running commentary on the bronk riding, calf roping, and steer riding, which made up the three days' programme.

PAUL ROBESON, the famous coloured artist, well known in New Zealand for his popular gramophone recordings of negro spirituals, is said to

be numbered among the few performers who have signed a four-figure contract with the British Broadcasting Company. Though circumstances have made him both actor and singer, he was originally a lawyer by profession, and once played for the All-American Rugby team for two seasons.

TWENTY-FIVE years after taking Scott to the Antarctic for the first time, his stout little barque, the "Discovery," is again there. But with what a different equipment! Wireless, a direction finder, and an aeroplane. The radio apparatus includes a 1½ kilowatt "quenched spark" transmitter and a special shortwave set.

THIRTY complete trains, ten carriages to a train, recently left Chicago with 15,000 employees of the Majestic Radio Company. The occasion was that of the company's annual picnic, and over 30,000 people in all travelled by train. 10,000 others also made the trip in 900 automobiles and charabancs. Athletic events, concerts, boxing matches, baseball games, and other events of interest were arranged for the entertainment of this huge multitude. The whole outing was carried through to a very successful conclusion, and was unanimously voted the most enjoyable ever held by the company.

THE recent death of Welsbach, the inventor of the gas mantle of that name, recalls Dr. Lee de Forest's statement that it was the effect of the discharge of his spark coil on an incandescent Welsbach mantle which caused him to begin the investigation which led to his utilising a "grid" in a valve. The first "grid" was not a "grid" at all, but a piece of tinfoil wrapped round the outside of the valve. In later models it migrated to the inside and assumed the gridiron form, which has led to its name. A strange coincidence was that De Forest's first experimental bulbs were made by a lampmaker named McCandless!

IN order to provide revenue for the broadcasting services, a decree has been made in Spain imposing license fees upon listeners. The fees are not heavy, but are probably commensurate with the value of the programmes. On a crystal set the Don will have to pay the equivalent of 2s. 8d. per annum. He may pay this sum in quarterly instalments. We wonder what will happen when the Don adds a valve amplifier to his crystal!

AN American company are perfecting a high-frequency apparatus for sterilising the eggs of the codlin moth and other insect pests. Aerials are strung above the infected areas, and the plant surfaces subject to egg deposits are charged for a few moments

each morning. The high-frequency current is also claimed to stimulate growth. The aerial system is energised by a 3 kilowatt rotary spark transmitter operating on a frequency of 101 kilocycles. When one considers the increase in radio activities towards the close of summer, one wonders if the above is not a satisfactory explanation of that well-known mystery concerning the unknown destination of the flies in winter time.

YET another test has been made to discover whether it is possible for a person to convey his thoughts to others at a distance, merely by concentrating his mind on some object or idea. This time the optimist was a former pupil of Houdini, the "hand-cuff king." He sat before the microphone and concentrated on a name, a number, and a diagram. The result is not yet known, but it can be guessed.

DURING the present year six lightships and nine lighthouses round the Irish coast have been equipped with radio receivers, and seven sets have been placed at similar points round Scotland and England. Statistics show that the average daily number of hours these sets are used is six for lightships and four for lighthouses. Letters received from the keepers express a deep appreciation for these installations, and sincere gratitude for the tremendous difference radio makes in their lonely lives.

IT is reported that a scientist has been receiving radio signals from the human body, as high-frequency electrical fields are alleged to result from muscular contraction. It is to be wondered whether if all the Boy Scouts at the recent Wellington Jamboree had contracted their biceps simultaneously the resultant "field" would have jammed 2YA.

AN important contract has been secured recently by the Marconi Wireless Company for the large extension of the Polish broadcasting organisation, which, following the British example, is to be remodelled to provide alternative programmes. The new equipment will comprise a 120-kilowatt aerial input broadcast transmitter, two high-power regional stations with 16 kilowatts aerial input, and three local relay stations. When the work is completed it is confidently anticipated that Poland will possess one of the most modern and efficient broadcasting services in the world.

THE number of "lookers-in" on television broadcasts in America has been estimated at twenty thousand. The manufacture of receivers for this purpose is increasing rapidly, and the daily schedule of visual image transmissions are becoming much more frequent. The art of television at its present stage of development may be compared with the progress attained by sound broadcasting in 1920. Probably, however, the technique of visual transmission will advance more rapidly than in the case of sound broadcasting, since many of the difficulties solved in the case of the latter, are applicable to the former.

Have you obtained your copy of the
"N.Z. Radio Listener's Guide"?

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

Available everywhere.

Labour Day 1929

CHEAP TRAIN TRIPS FOR ALL

Labour Day falls conveniently on a Monday—make the most of the summer week-end break.

Cheap railway fares will be available for all, from and to all stations, from 25th to 28th October. Return up to 23rd November.

Go by Rail - The Safe, Sure Way

The New Zealand Radio Record

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

Published Weekly. Price 3d. Subscription Post Free in advance, 10s. per annum; booked 12s. 6d.

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

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, OCTOBER 11, 1929.

THE PUBLIC UTILITY OF BROADCASTING.

AN extract from the well-known publication "John Bull," which we publish in another column, supplies an interesting sidelight on the situation in England in regard to broadcasting. Some few months back we recorded a batch of some seven resignations from the headquarters staff of the British Broadcasting Corporation, and reproduced some part of the comment indulged in by a leading radio journal, this being to the general effect that an undue atmosphere of bureaucracy characterised the administration of the British Broadcasting Corporation. It was represented that officials, inspired by ambition and initiative, found a difficulty in securing prompt acceptance of their ideas, and that accordingly they had no alternative but to accept defeat in the conflict between their ideals and bureaucracy.

FOLLOWING on that point, it would seem that a definite wave of criticism spread throughout the English Press, and a degree of controversy developed out of all proportion to the importance of the subject. According to the extract from "John Bull," this controversy has extended from the daily Press into periodical journals, and has obtained a degree of severity out of proportion to the initial occasion. "John Bull" goes so far now as to say that the reason for this extreme Press antagonism lies in the fact that "certain powerful interests are out to wrest the control of broadcasting from its present stable and well-defined authority. They want control in their own hands, and they want it because broadcasting is likely to become pre-eminently more powerful than any other means of dissemination." This is a very important and far-reaching statement to make. We are not in a position to discuss the probability of the definite charge made, nor to hint at the identity of the interests affected. With the further comment of the British journal, however, as to the effect of years of steady high-quality broadcasting, we find ourselves in agreement. It is pointed out that the public, by reason of the direct, intimate contact given by broadcasting with high-class music, intellectual debates, original lectures by authoritative lecturers, and talks on topics of moment and interest, is becoming very well educated and capable of forming independent judgment on matters of importance. Hitherto the printing press has been the main moulder of public opinion. Largely through its work, the past one hundred years has witnessed

the most remarkable expansion in all phases of modern civilisation. The Press has served to distribute news of modern inventions, has disseminated scientific truths, has discussed public policies, and has in a word educated the people to a general degree of culture never hitherto possessed by democracy. Broadcasting now carries that spread of culture further. It in some degree lifts the lid off censorship, and permits leaders of the nation's thought to speak direct to the people, instead of through the medium of the printed word, with its sometime sifting of views to suit the policy of those controlling the Press medium.

DEVELOPMENT of that line of thought does suggest occasion for effort to command the new medium on the part of those concerned with public power. Modern life has produced tremendous interests. In the nature of things those handling huge public utilities are given enormous power. Responsibility for the wise use of that power is colossal. It is, therefore, we take it, the definite duty of the State to protect the public in its inalienable rights to knowledge, education, and access to those things of cultural value. There has just been consummated the huge amalgamation of the cable and radio interests—one of the most tremendous organisations ever conceived, and presented with a power for good in the facilitation of means of communication that is incalculable. That power must be exercised in the interests of the public. Equally the public interest must be the predominant interest in the control of broadcasting. Whether the objective is attained by private enterprise under public control, or by a directly controlled State organisation, the end must be the same—the highest good to the public.

License Numbers Rapidly Mount

Now in Excess of 47,000

THE following is a summary showing the total number of radio licenses issued as at August 31, 1929. It will be observed that this very pleasing total has been reached in six months following renewals. This emphasises the strong appeal wireless is making in this country. Not a little to do with this is the trouble-free receivers and the general high standard of the service:—

	Receiving.	Dealers.	Trans- mitting and receiving.	Broad- casting.	Experi- mental.	Special.	Free licenses
Auckland	15,089	259	58	2	—	2	87
Canterbury	8,246	187	32	1	—	—	49
Otago	3,793	143	22	4	—	—	28
Wellington	18,800	405	57	3	1	—	38
	45,928	994	169	10	1	2	202

Grand total: 47,306.

Chamber of Commerce Scrap Books

1YA Relay of Luncheon 4YA Children's Committee

ON Tuesday, October 15, from 1 p.m., a luncheon for the delegates of the Associated Chamber of Commerce will be held in the Auckland Town Hall.

At this meeting Mr. W. J. Holdsworth, M.P., will be the principal speaker. Mr. Holdsworth is well known as an excellent speaker, and has taken a prominent part in public life in Auckland. He is a past member of the council of the Auckland Chamber of Commerce, chairman of the Auckland Electric Power Board, and a member of the Local Bodies' Loans Board. This meeting will be of some national interest, as a number of business men from all over New Zealand will be present.

BIG BROTHER BILL, of 4YA, has been conducting a Scrap Book Competition. It aroused very great interest and has been very successful. There were over 100 entries and the work done was very beautiful indeed.

The winner was Olga Bezett, of 224 Highgate, Maori Hill. The second prize was awarded to Tui and Colin Rutherford, of 4 Harrington Street, Port Chalmers.

The whole of the entries were exhibited in the window of Mr. Allan Young, Lower Octagon, Dunedin.

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Dinner Sessions

To Commence at 4YA
on October 17

THE opening of the new station for 4YA will see the inauguration of a dinner session in the programmes of the Dunedin Station. The first dinner session programme will be broadcast on Thursday, October 17.

"The Secret Station"

"AUNT PAT," of 3YA, recommends a "stunning" book for boys. It is called "The Secret Station," and is by Ellersley Hall (who, by the way, is "Peterkin," of 3YA). The story of the adventures of two lads and their thrilling experiences in discovering a secret radio station, which cripples the local stations in some mysterious way. A splendid book for boys, especially those interested in wireless and broadcasting.

Auckland Radio Exhibition**Much Public Interest**

CONSIDERABLE public interest is being evinced in the forthcoming exhibition promoted by the radio interests of Auckland, and this will be held in the Auckland Town Hall from October 30 to Saturday, November 2. The exhibition will open each day at 10.30 in the morning, and continue till 10.30 in the evening. The official opening ceremony will be held at 7.30 on the evening of Wednesday, the 30th. It is hoped that the Postmaster-General, the Hon. J. B. Donald, will be able to attend, accompanied by the Mayor and Mr. H. W. Holdsworth, chairman of the Auckland electrical trade. The stallholders are sparing no effort to produce stands that will be creditable to themselves and of outstanding interest to the public. The whole of the space available has been taken up, and it is certain that the show will compare more than favourably with that held in Wellington, as the advantage of having the latest models from America and England is with the Auckland people. Full co-operation on the part of the Radio Broadcasting Company is assured. The central stage will be fitted up as a temporary studio for the occasion, and leading artists and a band will be in attendance each evening. Children's sessions will be conducted from the hall, and altogether the arrangements made are so comprehensive that the show will be an outstanding feature of Auckland radio life. The members of the committee, Messrs. W. J. Smeeton (chairman), J. L. Davies (advertising), C. A. Tucker (stalls and recreation), H. S. Hartle (lighting and decorations), H. F. Garland (programmes), G. M. Bowles (general) are sparing no efforts to achieve successful results.

Studio Acoustics**Waitomo Relay Arouses Much Interest**

THE recent relay of a concert from Waitomo Caves created great interest among listeners. Owing to the acoustic qualities of the caves, the concert was looked forward to by very many as an opportunity for making comparisons between the effect of broadcasting from a cave and from a specially prepared studio. The result was that the station manager at 1YA received many letters from listeners who expressed their opinion and discussed the relative merits of studio and cave broadcasts.

A listener in North Auckland reported on the relay as follows:—"This was looked forward to generally as a promising novelty. I regret that actually the result did not justify the trouble. The acoustic effect on the microphone was curious, and probably attributable to the size and damping effect of the walls of the cave. A vocalist singing loudly appeared quite normal, especially a male voice. Singing softly, it was almost inaudible, and the soprano appeared very thin and reedy, as if the bulk of the sound were lost. Not a trace of any echo was noticeable. There is little doubt that a military band at full strength would have come over quite satisfactorily. The same effect—loss of body—was observed with the piano solo, as if most of the minor sound waves were lost, before they could affect the microphone. Actually, the concert might have been set out from a very poor studio acoustically. Some items were omitted from the programme."

In connection with this, the chief engineer of the Broadcasting Company, Mr. J. M. Bingham, has prepared a brief memorandum, as follows:—

"The various remarks received by the station director at 1YA from listeners in respect to the relay from Waitomo Caves concerning acoustic effects

apply not so much to actual acoustic effect as to the echo.

"Under certain conditions a slight echo effect is not only desirable, but can be used with good results. At the same time when endeavouring to obtain this particular effect a large number of conditions have to be taken under consideration.

"The governing factor is really what is termed the 'reverberation time,' that is, the time that a note will continue to sound till it dies away to negligible intensity. The permissible time period for good audio quality depends directly upon the cubic content of the studio or auditorium. It will thus be seen that a much higher time period can be permitted, for instance, at Waitomo Caves, than in a relatively small studio as is the case at 1YA.

"If an attempt is made to obtain an echo in the studio merely by the removal of the drapings, trouble will probably be encountered through the resultant interference caused by undue accentuation or diminution of certain tones, as well as a tendency to blurr on speech. There are always certain spots in a studio where such effects are more noticeable than in others, and these positions can only be found by experiment; but in practically every case they may be avoided by placing the microphone relatively close to a wall, taking care that a certain amount of draping is placed behind, below, and overhead. This method of microphone placing is practically standard in the large broadcasting and gramophone studios in the United States.

"In the case of a studio the size of that at 1YA a desirable reverberation time would be approximately one second for best results, and as the studio is built with hard plaster walls a certain quantity of draping will always be necessary."

The Waitomo Relay**Unfounded Rumours**

A NEWSPAPER paragraph in circulation reads as follows:—

"A northern paper, commenting on the fact that the recent relay from Waitomo Caves was, for some unknown reason, cut short, and that 1YA returned to a studio broadcast, suggested as a possible reason that the cold and damp were too much for the artists. It further states that the announcer of that evening has since died of pneumonia."

Whatever may have been the technical achievement or failures of the relay from the caves, it is quite evident that the occasion aroused very great interest, as has been evident from the rumours contained in the above paragraph. The facts were that a relay line could be made available only for an hour, and the health of no artist suffered. To say so is a libel on the magnificent caves.

Weather Reports**Special Afternoon Broadcast**

FARMERS will be interested to hear that the broadcasting of weather reports during the afternoon is to be a regular feature. This is to be made possible by the co-operation of the Meteorological Office.

Recently a special report prepared by Dr. Kidson forecasting the advent of a southerly gale was broadcast and served as a very valuable warning to stock owners.

In future, therefore, 2YA will broadcast a weather report every afternoon (except on Wednesday) at 3.30 (4 p.m. summer time). On Wednesday afternoons the report will be broadcast by 3YA.

Mr. Justice Macgregor**To Speak from 2YA**

MR. JUSTICE MACGREGOR, of the New Zealand Supreme Court Bench, will deliver a lecture from 2YA at 8.44 on Monday evening, October 14. His subject will be "The Art of Public Speaking."

Hawera Concert**An Unqualified Success**

LISTENERS throughout New Zealand testify to the excellent concert which was recently relayed from Hawera. Not only was the programme splendid, but the reception that evening was all that could be desired. The relay line from Hawera to Wellington, 190 miles, was perfect and reflected great credit on the Post and Telegraph Department.

Among the letters received is one from a listener in the Ohinemuri district. He writes as follows:—

"I desire to express my appreciation of the concert relayed from Hawera last evening. It was simply wonderful, reception being perfect and the items all that could be desired. I've listened-in for some years, but have never heard anything approaching last evening. That concert alone was worth the annual fee. In fact, I would like to express my appreciation of the service right through. It is wonderful, and I think that instead of adverse criticism the company deserve unstinted praise."

ON the shelf of every Radio Listener should be found the

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Sir Edward Elgar

IYA Honours Famous Composer

ON the evening of Tuesday, October 15, IYA is to present an "Elgar Night," when the programme will consist of works composed by the great musician.

Sir Edward Elgar is now 72 years of age. He is recognised as England's foremost composer and one of the greatest composers of modern times. A whole concert devoted to his music is happily no unusual thing. No other British composer's works have so commended themselves to musicians and to the public as to earn this distinction, and few men have given us so much rich music of noble and human appeal.

It was comparatively late in life, however, that Elgar came to be recognised as a composer of the first rank. His early days were a tale of hard work and little reward. He had no academic training at a recognised institution; he was taught rather by his own experiences as an amateur player of various instruments and by his own researches in the practice of composition.

It was with the "Enigma" Variations (1899) for orchestra, and the oratorio "The Dream of Gerontius" (1900) that Elgar took his place among the great. Since then he has written a series of mighty works that place him in the foremost rank of living composers. These include the oratorios, "The Apostles" and "The Kingdom," two symphonies, "Falstaff," a violin concerto and a violincello concerto.

Elgar was knighted in 1904, and in 1911 the Order of Merit was conferred upon him. In the programme to be presented at IYA on Tuesday are many of the finest of his works. The orchestral selections include "The Cockaigne Overture," "Chanson de Matin," "Chanson de Nuit," and "Pomp and Circumstance," all conducted by the composer, while Herbert Dawson will be heard in an organ solo, "Idylle."

Elgar wrote many fine songs, and these will be represented by "Pleading" and "Rondel," to be sung by Miss Gwenda Weir, soprano; "Where Corals Lie" from "Sea Pictures," and "The Poet's Life," contralto solos to be rendered by Miss Hinemoa Rosieur, a new performer at IYA. From "Caractacus" Mr. Dudley Wrathall has chosen the famous "Sword Song" in which Caractacus calls on his sword to help him in the coming strife with the invading Romans. Mr. Wrathall will also sing the baritone number, "The Pipes of Pan."

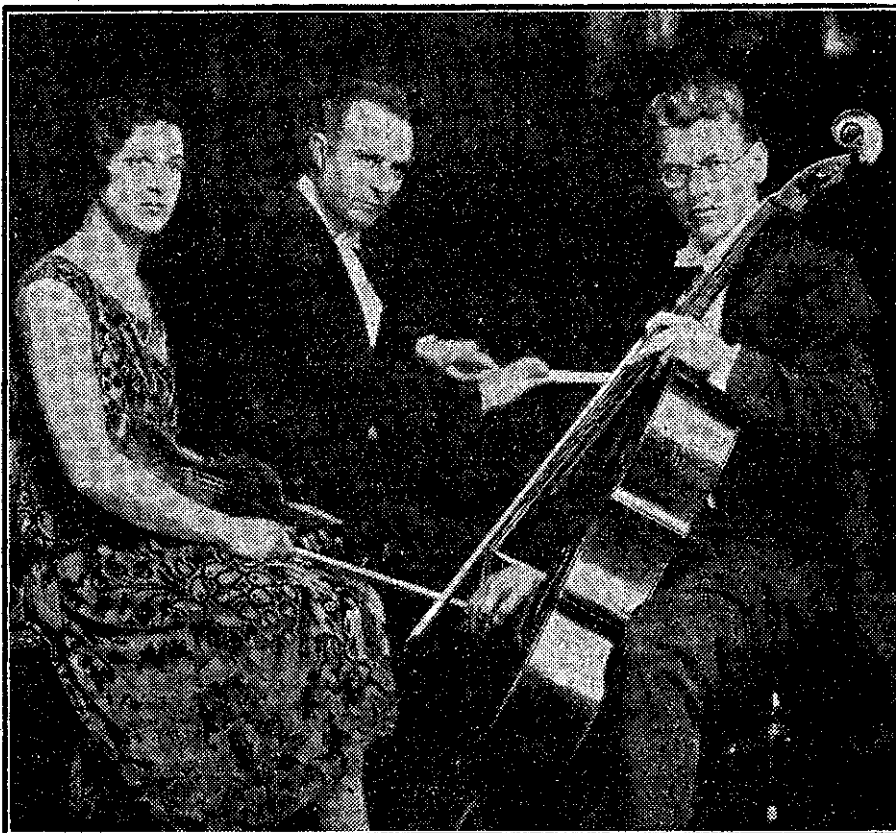
The IYA Broadcasting Choir, under the baton of Mr. Len Barnes, will make a further appearance before the microphone, with an increased personnel, the full strength now being forty singers. The choir will render five numbers from choral songs from the "Bavarian Highlands," the words imitated from Bavarian Volkslieder and Schnadahupfer by C. Alice Elgar. This is a particularly fine group of numbers—"False

Symons-Ellwood Short Trio

Selected Broadcasts by 2YA

ITEMS from a concert to be given by the Symons-Ellwood-Short Trio in the Concert Chamber on Monday, October 14, will be broadcast by 2YA. Listeners-in will remember with great pleasure the delightful classical music played by this well-known combination of artists when contributing regularly to 2YA programmes.

Short extracts to be broadcast on Monday evening will include the Rachmaninoff Trio, one of the mightiest conceptions in chamber music, a work of surging vitality and the elemental force of the Russian nation. Beethoven selected a humorous song from an opera, "The Sisters of Prague," by W. Muller, as the theme for a set of variations for trio. These are full



Miss Ova Symons, violin (left), Mr. Gordon Short (piano), and Mr. George Ellwood, cello (right).

—S. P. Andrew, photo.

of quaintness and simple fun, and give each instrument effective solo opportunities. Another item will be a movement from Dvorak's quintet, in which the trio will be assisted by Mrs. Eric Meier and Mr. Frank Crowther. This quintet is one of the most brilliant works for any small combination, and is another striking example of the pure tunefulness and captivating rhythm of this great Bohemian composer.

Mrs. B. B. Wood, a singer of fine vocal and musical qualities, will be the vocalist. One of her numbers, "Sapphic Ode," by Brahms, will be broadcast.

Love," "On the Alm" (the Alm is a and the Dragon at Sylene. The solo-high mountain pasture), "Lullaby" (in ist in this number will be Mrs. Freda Evans. The choir will conclude the programme with Elgar's setting of "God Save the King." The Studio Trio will play "Carissima" and "Salut d'Amour," and Mr. Eric Waters will render the pianoforte solo, "The Organ Grinder's Song" from "The Starlight Express." Altogether this should prove a most interesting and enjoyable evening.

Broadcasting in England

Disparaging Criticisms

FOR some time past, English newspapers have contained an increasing amount of destructive and unjust criticism levelled against the British Broadcasting Company's varied policies in maintaining the high standard of their nation-wide service (states a contributor to "John Bull," a well-known English weekly). Unfair programme criticisms, innuendoes concerning recent staff resignations, and many other similar incidents, have been probed into and given purposely-distorted publicity. In the past, however, attacks were confined to spasmodic articles of a disparaging nature appearing in the daily newspapers, but recently almost every periodical has entered the controversy.

This latter is out of all proportion to the cause, and a reason for this extreme antagonism is not hard to find. Until now, one side only, that savouring of Press propaganda, has been made public. It is now fairly patent that certain powerful interests are out to wrest the control of broadcasting from its present stable and well-defined authority. They want control in their own hands, and they want it because broadcasting is likely to become pre-eminently more powerful than any other means of dissemination.

Because of the B.B.C.'s music, its debates and lectures, and its talks, the public is unconsciously absorbing a new outlook on life and on the things that matter, and is able to visualise for itself the true value of newspaper opinions. The policy of the B.B.C. has always been to let the public commend or condemn its efforts, and it has always to give of the best. This is why no real opinion from anybody of outstanding importance in the world of science, music, art, or literature, has ever been secured to back up these unjust attacks. The tremendous power of the microphone has never yet been invoked to reveal the ulterior motives of the enemies of broadcasting, and in adopting this course the B.B.C. has acted wisely.

The B.B.C. cannot be killed at the bidding of vested interests, however strong those interests imagine themselves to be. Its work and development, however, can be affected and hampered; and this is what will happen so long as the true motives underlying these continuous attacks are not properly appreciated by the British public.

A New Term

"SAY, 'Rastus, why do you call your old woman 'Radio'?" "Well, Bo, it's like this. Befo' I bring her home I have to get a license, and then I find she picks up all the local news, and she talks and talks, and if I lay a finger on her dial she howls—so I ses 'Rastus, you sho' got a radio.'"

Station 4YA Comes into Line

New Station Characterised by Many New Features



EXT Wednesday evening, October 16, will see the official opening of the new station for 4YA, Dunedin. The speakers will be the Hon. J. B. Donald, Postmaster-General, and Mr. R. S. Black, Mayor of Dunedin. The official opening will be performed by Mr. Donald, either in person in the studio or by relay from Wellington.

In order to complete the change-over to the new premises and give the company's technicians the opportunity to test and make the necessary adjustments to the plant, 4YA will be off the air from the closing down at 11 o'clock on Saturday evening until 8 p.m. on Wednesday, October 16.

Fine Programme Arranged.

THE concert programme which will mark the occasion will be one of outstanding merit. While of all-round variety, there will be a decidedly Scottish atmosphere attaching to it. To this the Dunedin Pipe Band will in no small measure contribute, while the humorist of the evening will be the well-known 3YA performer, Mr. Jock Lockhart. The vocal programme will be of a high standing, some of Dunedin's leading singers having been engaged. These include Miss M. Matheson, Miss Meda Paine, Miss Mary Pratt, Mr. F. C. Cooper, Mr. Ernest Drake, Mr. F. M. Tuohy, Mr. John Leech and Mr. W. Ruffell.

Duets to be sung include "Calm, Silent Night" and "Solenne in Quest Ora." Quartets by the Four Aces will be "The Trumpeter" and "Drink to Me Only With Thine Eyes." Among the solos will be heard "The Pipes of Pan," "How Changed the Vision," "A Soft Day," "Star of Eve," "King Charles," "All Hail, Thou Dwelling," and "Do Not Go, My Love." There will be a humorous sketch by Miss Anita Winkel and Major F. H. Lampen, "Wavelengths." Mr. Frank Parsons will play a violin solo with orchestral accompaniment, "Romanza Andalus." Novelty instrumental numbers will be played by the Dunedin Tango Trio, and there will be a trombone novelty, "The Joker." Selections by the Studio Orchestra will include the "Egmont" Overture and "Lilac Time." The popular St. Kilda Band, which won the New Zealand championship at the last contest, has also been engaged for the evening. The band will play "Poet and Peasant," a selection from "The Pirates of Penzance," "Wedding of the Painted Doll," and Hume's march, "Twentieth Century."

Dunedin—Birthplace of N.Z. Radio.

DUNEDIN may be looked upon as the birthplace of radio broadcasting in New Zealand, for it was here that enthusiastic amateurs made the first attempts to supply a service, and it was here that the Radio Broadcasting Company commenced operations. During the exhibition a regular service was given, and has been maintained ever since.

Dunedin now has one that is almost

up-to-date in every respect. In the equipping of the new 4YA all the experience gained from the other New Zealand stations has been concentrated, and there is now no better-appointed or more efficiently equipped station of its power in the world than the new 4YA.

Choosing the Site.

WHEN it was decided to erect a new station for 4YA, various sites were considered. The Broadcasting Company was fortunate in securing the top floor of the new "Evening Star" buildings as the location of the station. This spacious floor of approximately 93ft. by 52ft. has lent itself to admirable adaptation for the purposes of a broadcasting station. It has provided space not only for capacious studios, lounges and offices, but also for rooms for the transmitting plant. In no other station in New Zealand is everything on the one floor in this way. It adds materially to ease and efficiency in working.

Plate-glass plays a very important part in the partitions. Plate-glass is a feature of all the YA stations, providing plenty of light and enabling everyone to see all that is going on in any of the rooms. It is at the same time sound-proof. Thus, visitors and artists in the lounges while watching the performers can chat and laugh without distracting artists in the studios. Of added importance is the fact that the operator in charge of the transmission room at 4YA has also a clear view of the two studios, and the efficiency of a very complete system of electrical signals is thus considerably reinforced.

Station Layout.

NOTHING more convenient could have been planned than the layout which has been effected, and the furnishing and decorating have been carried out with great taste. At the stairhead a visitor receives his first favourable impression, and that impression is added to as he looks around and visits the studios and lounges.

Directly off the stairway landing are the public offices admirably appointed. From the landing, also, ornamental swing doors open on to a central lounge which gives access to the large studio at the end of the building, to the small studio on one side, as well as to another lounge on the other side and to the transmitting rooms.

At the stairhead two large leadlight windows, depicting modern means of communication, and a smaller leadlight with a monogram of the station call sign, "4YA," allow the light to filter softly through to the foyer. A black and white tessellated floor and furnishings of antique oak, together with a fine stag's head, make the foyer a fitting entrance to the studios and lounges.

In the spacious central lounge a deep piled carpet in tones of soft blue and mole with furniture upholstered in embossed velouré combine to make this a handsome and comfortable room.

At the further end of the main lounge is the grand studio, 30ft. by 35ft., the decoration of which is car-

ried out in a scheme of pale jade green and silver. Shimmering jade velvet curtains, surmounted by an ornamental silver and jade frieze, cover the entire walls. The furniture here is of rosewood upholstered in hand-made French tapestry; standing on a beautiful chintz patterned carpet, an ebony piano and many beautiful palms in antique brass bowls provide an atmosphere of charm and refinement.

In the smaller studio, 27ft. by 17ft., an uncommon scheme of flame and grey has been artistically outlined. Flame velvet hangings drape the walls, and these are offset by the perfectly plain grey floor covering and furniture, while the colour note is repeated in the carpet in the shape of a large flame coloured butterfly.

Delicate rose upholstered furniture on a cream ground chintz carpet forms the basis of the furniture in the ladies' lounge, and with window hangings of old rose and palms on their handsome stands a charming ensemble is achieved.

Mrs. J. M. Bingham, wife of the Broadcasting Company's chief engineer, is to be commended for the very artistic manner in which she has arranged the furnishing and decorating of the rooms. Mrs. Bingham, it may be added, was also responsible for the artistic furnishing of the other stations.

The Transmitting Plant.

THE transmitting plant is similar to that at 1YA and 3YA, being of the same power, but the various units

have been differently placed and accessories have been added.

Some interesting new features are to be observed. As mentioned previously, as the operator sits at the control panel he has a clear view of what is happening in both studios. A very complete electrical signalling system has also been devised by the company's chief engineer. Even without the observation which the operator has of the studios this signalling system would be thoroughly efficient. It is so arranged that it is not possible for performances in the two studios to clash in any way. Lights on the little switchboards, in each studio denote which studio is on the air. One studio cannot go on the air while the other is in use, and each studio must switch itself off or on; the other cannot interfere in any way. The master control is in the transmitting room. The operator there can switch either studio on or off at will, should the occasion require it. This piece of signalling apparatus, though apparently so simple, is very ingenious mechanism.

Though the transmitting plant consists of the usual equipment, some special reference may be made to the amplifiers. These are intended for three purposes. The first is the amplification of the delicate electrical current which carries the studio concert from the microphones. This current is amplified to bring it up to a sufficiently high level to operate the transmitter.

Then there are amplifiers for monitoring. The operator in charge of the station by means of the most sensitive instruments compares the quality of the broadcast with the quality before entering the transmitter. In this way he knows what should go, and does go, on the air.

A further purpose of the amplifiers is in connection with relays, as for in-

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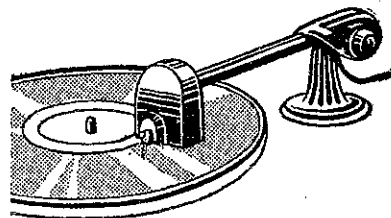
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stance, when a Dunedin programme is relayed to Christchurch. On such occasions the strength of the current requires considerable "boosting" up in order that it may override minor noises picked up en route, and reach Christchurch with sufficient power to be handled by 3YA. There is also equaliser equipment for correcting any undesirable characteristics which may be present in the case of programmes sent over land line. There are, of course, the usual motor generators.

The microphones for general use will be of the condenser type. They are different from the carbon type hitherto used at 4YA. There is no background hiss and practically perfect frequency characteristics. In cases, however, when there is liability for rough handling, as for instance when sporting events are being described, the carbon microphones will still be used.

The 4YA towers, which are erected on the roof of the "Evening Star" building, are of steel, and similar to those at the other stations. The aerial, which is a single wire, is about 150 feet from the ground. The Broadcasting Company's chief engineer, Mr. J. M. Bingham, has been responsible for the installation of the whole of the transmitting equipment.

Power Valve Distortion

MANY listeners have now installed power valves in their receivers with the idea of improving their tone quality, but through neglecting to increase the plate voltage on the power valve in the last stage, have been disappointed with their results. It should be noted that an extra terminal should be included as by merely connecting another battery in series will result in distortion caused by working the other valves at the wrong points of their characteristic curves.

With modern improvements in receiver and valve design, and with the increased power of transmitting stations, the grid swing applied to the last valve in any set using more than two valves, is so great that ordinary "general purpose" valves cannot deal with it adequately, and poor tonal qualities result. With sufficient anode voltage, the power valve, when proper grid bias is applied, is designed to handle a large grid swing, and when used, greatly improved reception follows.

Usually it is best to work with as high a grid bias value as possible without weakening reception, but manufacturers always provide working data with their valves, and this should always be followed.

Antarctic Exploration

The "Discovery's" Equipment

THE barque Discovery, now on a new voyage of exploration, is equipped with an up-to-date Marconi wireless installation to enable her to keep in touch with the outside world. The expedition, under the leadership of Sir Douglas Mawson, has been specially equipped for scientific and survey work, and the comprehensive wireless equipment will play an important part in maintaining communication with the scientific world.

For ordinary inter-ship and ship-to-shore communication a $1\frac{1}{2}$ kilowatt quenched spark transmitter, and a ship's receiver of the latest pattern have been installed. For special communications from the heart of the Antarctic, many hundreds of miles from civilisation, a short-wave telegraph transmitter is employed. In conjunction with this transmitter a short-wave receiver is fitted.

A wireless direction-finder also forms an important part of the navigational equipment of the Discovery. The direction-finder has already proved of great value in Arctic and Antarctic navigation, and is widely used by whalers and other vessels engaged there.

The Moth aeroplane carried by the expedition is also equipped with a Marconi installation. The aeroplane is to be used for scouting purposes within a range of 100 miles of the Discovery, and is fitted with the new Marconi transmitting and receiving set specially designed for light aeroplanes.

During scouting expeditions the pilot will thus be able to keep in touch with the base ship, which, by use of its direction-finder, will be able to locate the aeroplane's position. In case of a forced landing, an emergency aerial can be rigged on the aeroplane and the generator normally driven by airscrew can be hand-operated. With the power thus supplied, a special automatic code sender will enable those on the ship to locate the missing plane.

ONE of the best checks upon the condition of an "A" battery is the specific gravity of the electrolyte.

USE distilled water to make good any loss by evaporation in your accumulator, and never allow the level of the liquid to fall below the top of the plates.

THE D.X. CLUB

Views and News.

Identification Wanted

STATION heard Friday, September 27, at 11.30 p.m., on about 240 metres (1475 k.c.). Call letters sounded like 3EX. I am certain of the 3, and also heard the announcer say Melbourne.—"Query" (Te Awamutu).

[Probably 3GX, Melbourne—a new station.—Ed.]

CAN anyone identify these two stations: (a) Between 215 and 220 metres (approx. 1380 k.c.); this station is in New Zealand, and often relays programmes from 2YA. Too weak to hear call sign. (b) About 495 metres (605 k.c.); probably in Australia.—"New Ohum" (Morrinsville).

SHORT-WAVE station KIO, an American transmitting on approximately 24 metres (14,750 k.c.). I wish to know its location. This station was conversing with KES, approx. 28 metres (10,710 k.c.), between 5 and 6 p.m., September 26. The announcer stated that it was station KIO, of (Co-u-cu). At least that is what I took it to be.—E. Bullough (Rotowaro).

Stations Identified

SINCE writing you for identification of a station I had received, I have on two occasions heard their call-sign, which is 6WF, Perth. It comes in at 63½ degrees on the dial.—Mrs. Ethel Stenson (Wanganui).

IN the DX Club notes for October 4, "Amateur" (Southland) inquires for particulars of 3GX, Melbourne. This station is evidently 3DX, Melbourne, an amateur station, of 100 watts, on about 244 metres (1230 k.c.), and the address is Australian Exhibition Buildings, Melbourne. I once heard the announcer say that the station was on the air on Thursday and Sundays, but I also heard it one Friday evening. I have written for a Q.S.L. card, and will forward you any further particulars if you are interested.—Another Amateur (Petone).

IN reference to the inquiry of Mr. Morrison (Brooklyn) concerning an unknown station operating on about 50 metres (6000 k.c.) Mr. Leslie Jones reports that on Thursday, September 26, station J1XR was testing on 49 metres (6125 k.c.). The first time he received the call it sounded like CYXR, but eventually came through clearly as J1XR.

DX Topics

SINCE reading of the doubt concerning the identity of the station whose call-sign is WLW, I would like

to say that I have received this station every Saturday night since August 17, and to-night I had them as early as 4.50 p.m. They were playing dance numbers, and again at 7.15 p.m. they were coming in very strongly. The items and times were: 7.15, Whistling solo, with organ accompaniment; 7.18, medley of college tunes; 7.22, duet, with organ accompaniment; 7.27, quartet; 7.31, foxtrot; 7.35, whistling solo, accompanied by Studio Wurlitzer; 7.40, soprano; 7.43, Michael Howard's Dance Band. They announced that they would be on the air again next Friday (next Saturday, New Zealand time), with their all-night party. The call book gives WOW Omaha's wave-length as 508.2 metres (590 kilocycles).—W. G. Sturgess (Christchurch).

Concerning 3GX.

RE Station 3GX Melbourne, mentioned by "Amateur," Southland, I have heard this station several times, but have received the call sign as 3CX. On each occasion they were broadcasting from the All Australian Exhibition, Melbourne. The announcer stated that the entire station had been manufactured by A.W.A., Australasia, Ltd. I have been using a four-valve receiver, one screen grid RF stage, from the time those excellent valves were first introduced in the New Zealand markets, and have done some extensive experimenting with them. I have found the parallel feed system to be the most satisfactory. A small coupling, and grid condenser (.0001); I find to be the most suitable, for all-wave design. During the past twelve months I have logged 180 stations on the receiver, 52 being American stations on the normal broadcast band, and to date, 24 of them have been verified. I was fortunate enough to win the long distance prize given by station KFI. I have never troubled to have my loggings verified, but since some of our DX-ers are in quest of the Valve Bart, I have been endeavouring to relog all of these stations and have them verified. I expect quite a lot of verifications to arrive from America shortly, as a number were written to some time ago. One interesting station heard, that I believe has gone off the air, was KFOW, Avalon, Catalina Island, California. The American stations heard reach from coast to coast of the United States. WRVA Virginia has been heard and verified. This station was then using 1000 watts. Among the low powered stations heard and verified are KFUP, Denver, Colorado, and KGBK, Long Beach, California, both of which were using only 100 watts.—Q.R.A.

I NOTICED is last week's DX Notes that "Amateur" (Southland) reports hearing the Melbourne station 3GX. Last evening I logged 3GX, at fair speaker strength, on five valves, several dance numbers being heard, but could not ascertain any information about the station except that the call is 3GX and wavelength 244 metres. My log to date on all waves for eleven months is now 121 stations, 78 short-wave, and 43 long-wave. I have only 23 verifications so far. I wonder if any listener in the city can beat this for eleven months.—A. D. Rogers (Newtown).

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RADIO AND ELECTRICAL REPAIRS AT SHORTEST NOTICE.

Hawera Concert.

JUST a line of thanks for the wonderful reception of the Hawera concert through 2YA last evening. It was indeed a triumph for all concerned—the artists, Broadcasting Co., and last, but not least, the Postal Department, for the long land line. It was a truly wonderful performance all through.—F.J.S. (Wanganui).

Football Announcing.

ALLOW me to give credit where credit is due, namely, to 2YA's football announcer. His announcing is of the highest order, especially the North and South match on Saturday. The description throughout was clear and unhesitating. Undoubtedly he knew his job, as he knew every man who handled the ball during the match, and the rulings of infringements which occurred, this making it more interesting to listen to, especially for listeners outside of Wellington who have representatives playing in such games. Numerous friends have asked permission to come and listen-in to next Wednesday's match, as they term 2YA's announcer a "top-notch."—"Majestic," Nelson.

Objection to Tacet.

I WOULD like to support "Country Listener" in his remarks on "Objection to tacet." If we are to have dinner-time music, let us have a continuous programme. With reference to announcing the station call, I cannot see any objection to the call "2YA, New Zealand," being given quite clearly, between every other item, instead of having a ghostly voice superimposing the music. I know that there are hundreds who would be opposed to this, but I would remind them that there are experimenters on other shores who might just happen to tune in faint signals from our stations, waiting patiently for the station call. It is bad enough to spend hours, as I have done, tuning in various distant stations and then have the call sign totally drowned by a "static crash," but worse still to tune in some time when there is hardly any "static" and hear items come through one after the other, but no call sign!—D. Neill Keith (Christchurch).

In Defence of Tacet.

ALLOW me to say something in defence of "tacet" in the dinner music. These people who are advocating its omission seem to forget that without "tacet" this particular session would no longer be dinner music, but another session similar to afternoon, of shorter duration. How on earth is one to enjoy one's dinner, or tea, as the case may be, with item after item going through, and no lull to chat comfortably to other members of the family, or perhaps guests. I suppose our protesting friends think nothing of shouting to one another above the music. The sweetest items of the session as far as I am concerned are those immediately following tacet. Good music is like fine wine—exquisite when taken a little at a time. Of course I realise you try to please everybody, but don't omit tacet entirely from the session; you will disappoint myself and many others who appreciate correct dinner music.—Mrs. J. Mason (Feilding).



Will correspondents please practice brevity, as heavy demands are now made on space. All letters must be signed and address given as proof of genuineness; noms de plume for publication are permitted. Address correspondence Editor, "Radio Record," P.O. Box 1032, Wellington.

"Where is the Tacet?"

WELL might one ask this question, for not more than the proverbial hereditary vestige remains. Congratulations to the Broadcasting Company, they certainly have heeded the protests of the listeners expressed in the "Radio Record," and reduced this objectionable silence to a bare minimum. This is indeed gratifying; why one can now take a fresh interest in life. I had intended to complain bitterly this week about your footnote, Mr. Editor, for you certainly missed my point, but the reduction of the tacet to an almost imperceptible minimum leaves me nothing to complain about; but, all the same, I think the announcement could come at the end of the selection instead of the middle. What about a trial, Mr. Manager?

The progress made by the company in catering for a diversity of tastes not yet educated to this new development, wireless, has been rather astounding, and I honestly believe that the company study most carefully the expressed opinions of the listening public and do all within their power to cater for their licensees. Personally, I am quite contented with the present service, provided, of course, rational progress is made when circumstances warrant it. The statements made by the Postmaster-General to the Auckland Listeners' League have my hearty approval. Listeners who persuade themselves and others that everything is at fault should not be granted the privilege of listening-in.—"The Dreamer" (Otahu).

Likes and Dislikes.

WE eagerly look for the "R.R." to see what the programme is for next week, and what the grouseurs have to say. I wonder if they were made a present or their license and "Record" annually if they would be satisfied; I doubt it. I can assure you my family and friends are well pleased with programmes from all New Zealand stations. If we do not like an item at any particular station we simply switch on to one of the other stations and get what we do fancy. I am disappointed with the programmes from the A.B.C. stations. Nearly every time I switch over we get jazz about half the programme. Dunedin is the only station we do not often tune in to, as reception during the evening is very poor and badly distorted. During the daytime it is usually the loudest just now. We are hoping when they move into the new station it will be much better and equal to the other stations, especially as it is our nearest.

wireless, via 2YA. One has to undergo the experience of lying sick, the mind occupied, more or less, with nothing but trouble to realise what a boon and tonic the 'phones at each bed are. One cannot but bless those who were responsible for the charitable thought. Aunt Gwen's sympathy for "the little ones and the big ones in hospital," makes many sufferers happy, knowing that they aren't forgotten. As I am now one of the radio band (with an humble crystal), I am alternately amused, astonished, and frequently disgusted with some listeners who seem to imagine that the R.B.C. ought to study all their little petty likes and dislikes. "R.P.S., Orewa," voiced every common-sense listener's opinion of the type of critic as represented by one "Disgusted." "Canned music" is, I am sure, very acceptable to those of us who cannot afford recordings of artists such as J. MacCormack, Melba, Galli-Curci, L. Bori, etc., and are delighted to hear them reproduced on a perfect gramophone—another little item which most workers can't afford. I would like to hear more instrumental items, particularly piano accordions (which record exquisitely), but I'm sane enough to appreciate the old adage, "One man's meat is another's poison," and surely only a fool would expect the R.B.C. to put over programmes which will suit simultaneously the divergent tastes of thousands.—"Danny Boy" (Wellington).

Wrong Roles.

AMONG the many compliments which I should like to pass on regarding recent programmes (and not least the excellent relay from Hawera just concluded). I have one complaint to

A Sufferer's Point of View.

HAVING had a spell of four months' illness in Wellington Hospital, I now desire to record my appreciation of

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Capacity



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make. That concerns the choice of items sometimes made by performers. I refer particularly to ladies' items "put over" by men and vice versa. Last week, for instance, we heard a 1YA artist reciting a bracket of the beautiful "Cuddle Doon" series of poems. The items came through well, but one could not avoid regret that the rendition was by a man, since these poems are so obviously and exclusively for a woman's voice. This artist filled the role completely in his fine characterisation of the Scandinavian in "Galapagos," and doubtless has a man's repertoire to suit his manly voice. I would respectfully suggest that he, and such as he, leave to the ladies those things which are written for the gentler sex.—"Scotsman" (Gore).

The "Educating" Policy.

I AM very impressed with a letter signed "Lux Cum Amore"—such a nom de plume and such modesty (?) claiming credit for educating the announcer of 2YA. Personally, I have noticed no difference and no criticism or fault-finding alters my opinion of the announcers of any of the stations, although I certainly enjoy the natural pleasing voice of the announcer of 2YA. "Lux Cum Amore's" idea of "healthy criticism" reads more to me like fault-finding, which gets neither the Broadcasting Company nor the critic any further. It is greatly to the credit of your paper that persons of this description get a hearing, and proves the broadmindedness of your editorial staff and policy. I am wondering if a sug-

gestion will be out of place. Why not appoint "Lux Cum Amore" as an announcer for a period and so educate your announcers and the listening public to his high standard. A few more of his ilk put in the same place would not conduct your broadcasting as well as the men you have at present. We can all learn something from everyone—from malecontents what to avoid—from healthy criticism and example what to follow, so good luck to the Broadcasters' Company. Carry on. Your percentage of satisfied listeners greatly outnumbers the fault-finders, who really give the rest of us a jolt and make us count our blessings. How about it, "Lux Cum Amore"? Can you not carry on and educate the listeners? I for one am open for improvement.—"Kia Ora" (Waitomo Caves).

Children's Hour.

PERMIT me to voice the alarm of many enthusiastic radio listeners of my province. As a listener who has occasion from time to time to interview the radio people not only in the city but country as well, I have heard the most complimentary remarks passed regarding station 4YA's children's hour. This session, which has such an influence on the kiddies, and is so ably conducted by Big Brother Bill and his associates, is, I believe, to be changed to the same period as the other YA stations, namely, from 5 to 6 p.m. It is against this change that I am protesting, and know of many other parents in our province who have the same feelings. We are deeply grateful to the uncles and aunts—and their supervisor—for the moral code they are developing in our youngsters. The influence that these sessions have is perhaps the greatest factor in favour of radio; but it is not alone that these adopted relations work. For the child to receive the full benefit of the session, he must have his dad to explain a few facts he does not quite grasp, and, most of all, dad has to help drive home some of the splendid morals derived from the evening's fun.

If this session is advanced an hour, it is evident that the vast majority of parents will not have finished the day's labour. Whether in field or office, few of us are able to be home before 6 p.m., and perhaps more important still is the fact that with daylight saving approaching quite a number of the children would prefer out-door playing to coming inside at 5 p.m. It is not that the hour is not appreciated, that is evident by the interest taken in our radio parties, scrap-book collections, etc., but who could blame the child who preferred a game of ball in bright sunshine to going inside at 5 p.m. to hear Big Brother Bill!

At 6 o'clock, this is quite in order, and the child is quite ready for his or her homework while the younger ones are more or less ready for bed after an enjoyable children's hour. Trusting the Radio Broadcasting Company executive will not overlook the fact that they have a thoroughly competent and extremely popular radio family at 4YA. Also that they will consider our wish in this direction, and leave the dinner music out of our programmes, retaining the children's hour at its present time.—"Enthusiastic" (Dunedin).

Wrestling Bout.

I WAS very pleased with 2YA's announcer's description of the wrestling match. According to several of my

Stock Sale Reports

Matson and Co's. Service to Farmers

TO the farmer there is nothing more valuable in the broadcasting service than the market reports, and in nothing is it more essential that the information should be reliable. The farmer must be able to place implicit faith in the accuracy of the information that is broadcast. A very creditable record in this respect has been attained by Messrs. H. Matson and Company, who have regularly every week since 3YA started, prepared the report of the Addington stock sales.

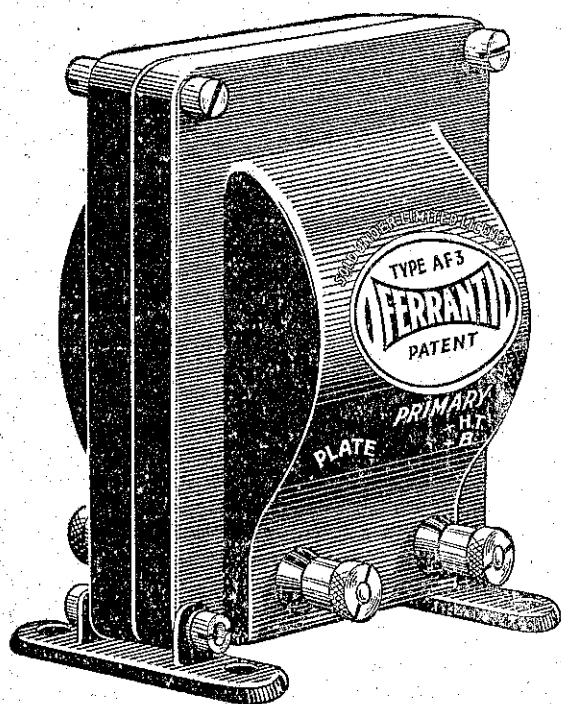
From the very outset the Broadcasting Company has been keenly alive to the importance of authentic reports. At the opening of 3YA it sought the advice of many farmers, who were unanimous in their expressions of opinion concerning the reports issued by Matson and Co. Arrangements were accordingly made with this firm for the supply of the weekly report on the evening of the Addington sales. This report comes in as regularly as clockwork. It is concise, lucid, and reliable.

The reputation of Matson and Co. for supplying accurate reports goes back to long before the days of broadcasting, and an interesting history is attached to the Christchurch firm, which is now so well known throughout New Zealand.

Forty years ago, the late Mr. John T. Matson printed a weekly report called "The Canterbury Stock, Property, and Agricultural Journal." This dealt with all sales, the pedigree of the stock and all items of interest to the farmer. After his death the business was carried on by the next generation. The weekly was then abandoned, and advice of sales was posted to vendors on the night of the sales. An annual review was compiled covering an array of information valuable to the farming community, such as freight rates on grass seed, stock, wool, etc., and including a ready reckoner for calculating the price per pound per thousand, etc. As the method of trading progressed Matson and Co. considered that the man on the land was not in possession of all the information he should have, so they wrote a full market report and published it at their own expense in the Press. This report has now for many years been accepted as an authoritative review of the previous day's sales. It has been read by all and sundry every Thursday. The information therein has worked to the extreme benefit of the farmers. Friend and foe, traders, bankers, commercial men, professional men in every section of the community at different times have commented favourably on the information supplied.

The reason why this report should be so reliable and comprehensive can be simply explained. The large percentage of business done by Matson and Co. at Addington necessitates auctioneers in each section. Each auctioneer who thus puts in a day at his section must get a good grip of the market, and Mr. Lester Matson, who now makes a hobby of the market reports, and whose opinions and ability as a judge of stock are known throughout New Zealand, gathers in the various auctioneers' reports and consolidates them into what the farmer requires. The majority of the firm's clients are free and independent, so financially they have no axe to grind. There is no desire to quote the market up or down.

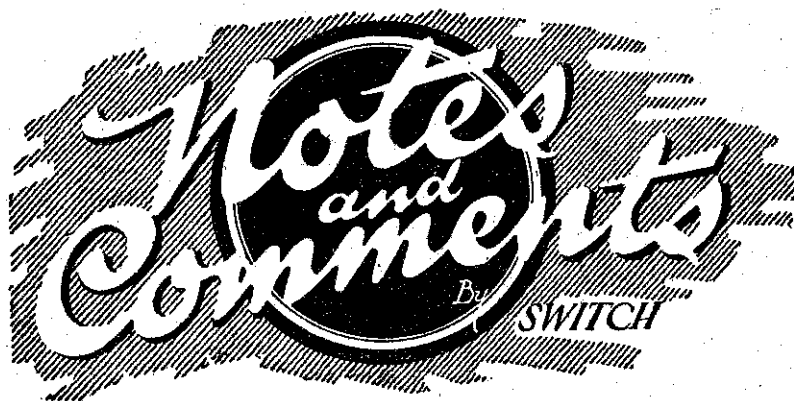
listener friends he is the best. Good wishes to 2YA and especially Mr. Announcer.—"Well-Satisfied" (Whaka).



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THE owner of an A.C. set complained to the writer the other day that his "heater" type detector valves were burning out after a few weeks' life. This, it was explained, was due to too much voltage reaching the heating element. The trouble may be due to the voltage of the electric mains being too high, or to internal breakdown of the insulation in the transformer in the set. "Switch" advised his friend to engage an experienced radiotician to test the voltage applied to the detector valve.

IF A.C. detector valves burn out too soon through too high a voltage in the electric mains, it is imperative that a specially wound resistance be inserted between the set and the hot-point. The resistance necessary should be gauged by testing the voltage in the valve sockets with a thoroughly reliable A.C. voltmeter. However, it is most desirable to ascertain the voltage of the mains before attributing the trouble to that source. The transformers in some A.C. sets have proved faulty, and the proper thing to do in that case is to have them re-wound or substituted by new ones.

SOME areas of Wellington appear to be deaf to American stations no matter how excellent the set used. Two local listeners with similar sets of the same make were exchanging experiences recently. One reported reception of three United States stations fairly frequently while his friend admitted his inability to pick up any of them. The latter's set was taken in his motor-car to his friend's house about a mile away, and he bagged two of the Americans without difficulty. His own aerial and earth system was incomparably superior to his friend's. Locality is a big factor in obtaining long-distance reception.

"TYRO" (Kelburn) has written to "Switch" asking whether his a.c. set should bring in the distant stations with a slight whistle until he tunes into the dead centre of the wave. This is clearly an instance in which interference with other listeners is being caused through lack of knowledge. The radio-frequency stages of the set are slightly out of balance, and a technician's services should be secured to re-adjust the set. The set has, no doubt, the usual gadgets for balancing the high-frequency stages.

STATION 3LO, Melbourne, broadcasted a novel "stunt" one night last week, when for the first time in this quarter of the globe a microphone was placed on a railway locomotive and a description of the intricate processes of preparing the big engine for action was relayed. The locomotive was one of the latest giants of the railroad, and its noise as it was warming up at the North Melbourne locomotive depot served as a realistic background to the talk.

IN last week's "Radio Record" an inquiry was made by "Amateur" (Southland) as to the identity of a station calling 3GX, Melbourne. The call is that of a Melbourne amateur. Some of the Australian amateurs obtain permission to operate on the lower wave-lengths of the normal broadcast wave-band.

"Switch" concurs with the opinion of "Nidray" (Bay of Islands), expressed in last week's "Radio Record," that the Japanese station on a wave-length a

little shorter than that of 4QG, Brisbane, is JOHK. The Jap. announcer says "H" like "ay-chee," but on occasions "Switch" has heard the call JOAK distinctly from that station. On tuning down to JOAK on a wave-length slightly shorter than that of 2BL, Sydney, "Switch" has heard the same items which were audible from JOHK. This would make it appear that JOHK was rebroadcasting JOAK at that time.

WELLINGTON listeners are surprised at the frequent reports from up-country and coastal places of daylight reception of 2FO and 2BL, Sydney. Sometimes in the Wellington suburbs this feat is accomplished, but very seldom in the city proper.

THE power of the American stations is frequently increasing, and one is inclined to believe that reception of some of these stations claimed by New Zealand listeners who mention their low power is erroneous in the latter respect. Take last week's "Radio Record" correspondence as an example. Mr. F. G. MacSherry (Auckland) mentions receiving KGER, Long Beach, California, which he says employs 100 watts power. True, the latest list mentions that power, but is it not possible that it has been increased lately? A recent increase of power is that of WLW, Ohio, which is listed as 25,000 watts, but, according to Mr. MacSherry, now employs 50,000 watts.

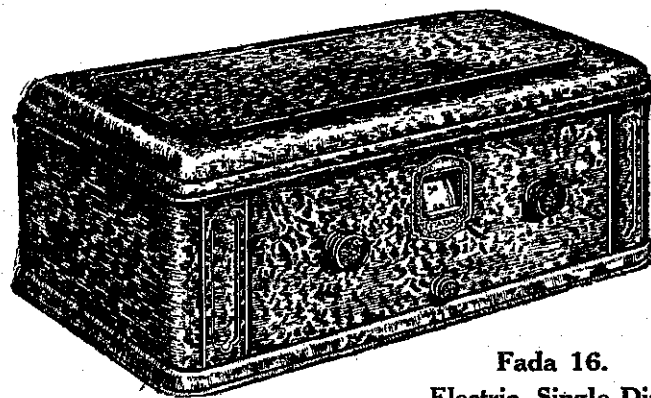
"LISTENER" (Petone) in last week's "Radio Record," set a very hard task when he asked which Australian station was broadcasting political speeches from some large hall between 10.30 and 11 p.m. on Thursday, September 19. Political speeches have been broadcast in abundance from the Australian stations for several weeks past. "Switch" would suggest that seekers of information such as that required by "Listener" should endeavour to give the approximate wave-length of the station heard.

TALKING about lights which are to be installed on all the broadcasting and radio masts of the Radio Corporation of America as a warning to aviators, one can visualise the necessity of similar lights at the tops of the 2YA, Wellington, masts, when night-flying becomes popular in this country. Aviators making for, or leaving the Lyall Bay aerodrome may at times pass over Mount Victoria, and if they hit one of the 2YA masts something unpleasant would be inevitable.

A MEMBER of the Wellington Radio Society lately conversed with "Switch" on the subject of a proposal he had in mind, viz., of urging that the members be supplied with button-hole badges of the society. The subject was brought up at a meeting of the society a few years ago, and met with overwhelming opposition. Members said that button-hole badges were a cheap American craze, and should be discouraged in this country. Others stated that the wearing of button-hole badges was undignified, and they would decline to be publicly labelled like a dog with a registered collar. The proposal was then promptly dropped.

MANY of the imported A.C. sets have the kilocycles marked out on the tuning dials, but as the wave-lengths of the Australian and Japanese stations are listed in "metres" owners of these sets are experiencing difficulty in finding some of these distant stations. To convert metres into kilocycles, divide the metres into 300,000, and the number of kilocycles are shown. Supposing, for simplicity, a station is listed with a wave-length of 300 metres, divide 300 into 300,000, which will yield 1000. Therefore, 300 metres is 1000 kilocycles. This formula should be cut out and kept in a handy place by a.c. set owners.

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Next Week's Features

1YA Features

THE Rev. Ivo E. Bertram will be the preacher at St. Andrew's Church on Sunday evening when the service is to be broadcast. Dr. Neil McDougall will be the organist. The after-church broadcast will consist of a relay from Whangarei of a concert to be given by the Whangarei Municipal Band under Bandmaster Dobson.

ON Tuesday, at 7.40, Madame Edith Baird will give another talk on "Artistic Physical Development." The remainder of the programme will be devoted to "Elgar Night."

AT 7.40 on Wednesday evening Madame Mabel Milne will speak on "Health and Diet." The vocalists for the concert session will be Madame Mary Towsey's Quartet, whose items will include gems from the light opera "The Geisha." Cornet solos will be played by Mr. Paul Hayes, who makes a welcome reappearance at 1YA after some months absence in Australia. Miss Gladys Gamman, elocutionist, will contribute monologues and recitations, while Mr. Eric Waters, well known to Auckland listeners, will be heard in piano solos. An interesting "Topical Talk" will be given by Mr. A. B. Chappell, and concluding the programme will be a gramophone lecture-recital by Mr. Karl Atkinson, who will present "Birds in Music."

THE popular programme on Thursday evening will be contributed to by Mr. Walter Brough, baritone, and Miss Irene Frost, contralto. Making their initial appearance at 1YA will be Mr. C. F. Mickle in humorous elocutionary items and Mr. Charles McGlashan, saxophonist. Popular orchestral selections will be played by the Studio Orchestra and the programme will conclude with dance music.

FRIDAY evening's programme will include Miss Millicent O'Grady (soprano), Miss Margot Toner (pianiste), and Mr. J. F. Montague (elocutionist). The Studio Trio will play classical selections while Miss Mollie Wright will play 'cello solos. Continuing her interesting talks "With the Great Composers," Mrs. Daisy Basham has chosen "Balfie" for her subject.

Bear" by Manazucca, and the "Second Minuet" by Besley. Other performers will be Mr. Fred Baker, baritone, Messrs. Eric Bell and Jack Davey in vocal and piano novelties, and Mrs. B. Jellard, contralto. The Studio Orchestra will play popular selections and novelties and the programme will conclude with dance music.

ON Monday evening a programme of exceptional merit will be presented. A feature of the entertainment will be a relay from the Concert Chamber of the Town Hall, of items from a concert by the Symons-Ellwood-Short Trio. Only the items most suitable for broadcasting will be relayed. The Ariel Singers will render the vocal portion of the programme, their items on this occasion consisting of Old English Folk Songs, a type of music this quartet of talented artists has specialised in. The orchestral items will be in keeping with the programme.



MRS. R. SCHADE,
A very popular mezzo-soprano, who sings from 1YA.
—S. P. Andrew, photo.



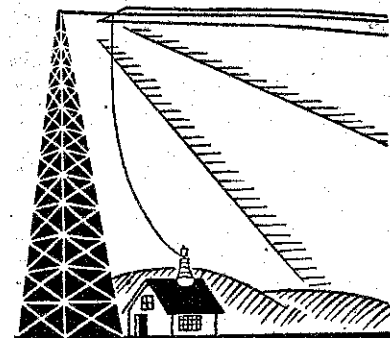
MISS LAPHNE HIGHAM,
A talented young violinist, who has appeared at 1YA.
—S. P. Andrew, photo.

A SPLENDID light programme, arranged for Saturday, will be contributed to by Miss Hope Asher, who was such a great success as "Lady Hollywood" in the recent production of "Florodora" by the Auckland Amateur Operatic Society, making her first appearance at 1YA, and included in her items will be "Tact," from this musical comedy, and "The Big Brown

2YA Features

THE service to be relayed on Sunday evening will be from the Taranaki Street Methodist Church, the preacher being the Rev. T. L. Richards. The choir is under the conductorship of Mr. H. Temple White, who also acts as organist, his relays of organ music being a popular feature of the week-day programmes.

THE Port Nicholson Silver Band, having concluded its recitals at the Grand Opera House, will, next Sunday evening, give a programme from the studio. This will be the first time that the band will have performed in the studio. The concert will open with the hymn "Nearer My God To Thee," after which the band will play the overture, "Les Dragons de Villiers." A feature of the programme will be the selection, "Rossini's Works" (by Owen), a composition of the one-time conductor of the famous "Besses o' the Barn" Band, and one which is always considered a "show piece" amongst bandsmen. Other items of interest will be the cornet solo by Bandsman W. G. Stevenson, and the intermezzo by the band, "Laughing Marionette." Miss Isabel Cooper (soprano), Mr. Claude O'Hagen (baritone), Miss Hilda Chudley (contralto), and Mr. Oliver Foote (tenor) will be the supporting vocalists.



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Miss Gretta Jespersen has already performed from the station, and her excellent work is well known to listeners. At approximately 9.30 the usual dance programme will be given featuring on this occasion the "theme songs" from some of the latest "talkie" films.

A unique programme will be given on Thursday evening, when listeners will, per medium of the microphone, spend a "Night with the Savages." The programme on this occasion will be supplied by the Savage Club Orchestra and Concert Party. The orchestral items have been chosen with the object of catering for a wide range of taste, musically, and the members of the concert party comprise some of Wellington's leading vocalists and entertainers. The vocalists for the evening will be Savages Lew Campbell, Harrison Cook, Thomas Jenkins, Charles Moore, and Dan Foley. The humour of the programme will be in the capable hands of Savages Norman Aitken and A. R. Broekenshire. The orchestra plays under the conductorship of Savage Frank Thomas.

ON Friday evening a programme of operatic gems will be presented, the vocalists being Mrs. Amy Dunn (soprano), Mr. R. Madigan (bass), Mrs. Emma Astill (contralto), and Mr. Stewart Nelson. Mrs. Astill was successful in winning the ladies' vocal scholarship at the Wellington Competitions Festival this year, and Mr. Madigan also competed at the same festival with more than a fair measure of success. The items will include numbers from "The Merry Wives of Windsor," "Orfeo," "The Marriage of Figaro," "La Tosca," "La Boheme," "La Gioconda" and "Cavalleria Rusticana." The orchestral items will include the overture, "Raymond," selections from "I Pagliacci," "Madame Butterfly," "The Fortune Teller" and "The Doctor in the Street." Mrs. George Castle will recite "The Trooper's Defence," "In the Crowd" (by Ella Wheeler Wilcox), and a short poem, entitled, "The Last Thing at Night."

ON Saturday evening Mr. L. D. Haggitt will give one of a series of talks on Burbank's experiments. His subject on this occasion will be "Burbank's Flower Experiments." The concert session for Saturday evening will comprise vocal items by Miss Weno Tahlwi, a very fine young contralto singer from Otaki, solos and concerted numbers by the Melodie Four, and humorous sketches by Mr. Cedric Gardiner and Miss Madge Freeman. Mandola solos will be played by Mr. Lad Haywood, a performer who will be remembered for his enjoyable items in the past. The orchestra will play as an overture, "Sounds From the Sunny South," Fletcher's suite "Nautical Scenes," two novelty numbers, "The Little Lead Soldiers" and "Captain Goodridge." At 10 p.m. a Parlophone dance programme will be presented, the usual sporting summary being given at 10.45 p.m.

3YA Features

THE service in St. Andrew's Presbyterian Church on Sunday evening will be broadcast. The preacher will be the Rev. J. C. Young, of Leeston. The after church concert will consist of a rebroadcast of 2YA.

MR. E. J. BELL will give his fortnightly book review on Monday evening at 7.15. At 7.30 Dr. Chas. Chilton will review the September number of the Journal of Agriculture. This is one of the 3YA Primary Productions Committee's talks. The New Brighton Municipal Band, which presented such a bright and attractive programme when it broadcast from 3YA a few weeks ago, has prepared an equally good entertainment for Monday next. The band plays under the conductorship of Mr. J. Nuttall. Also contributing to the evening's programme will be Mrs. Jean Scrimshaw (soprano), Miss Maud Stringer (contralto), Mr. Peter Macdonald (tenor), Mr. Robert Robson (bass), Mr. H. Instone (reciter) and the Studio Trio.

ON Wednesday evening 3YA will relay the opening of the new 4YA.

ON Thursday evening at 7.30 there will be another talk to farmers. Mr. L. Paynter, Orchard Division of the Department of Agriculture, will speak on "Fireblight: History and Measures to Prevent its Spread." The programme for the evening will include numerous classical numbers. The contributing vocalists will be Miss Merle Miller, Miss Sylvia Angus, Mr. Harold Prescott and Mr. Bernard Rennell. Mr. Sydney Francis Hoben will give another of his popular piano lecture recitals, on this occasion demonstrating works from Grieg, Rheinberger and Chaminade.

A special feature of Thursday evening's programme will be the second appearance of the Christchurch String quartet—Mr. Arthur Gordon, Miss Gladys Vincent, Signor Oddone Savini and Mr. Francis Bate. Selections will be played from the works of Beethoven, Schubert, Borodin and Leoncavallo, the selection by the last-named being arranged by Signor Savini.

One of the songs to be sung by Miss Merle Miller is Schubert's "The Erl King," which should admirably suit the dramatic temperament of this singer. Miss Miller will also sing "She Wandered Down the Mountain Side," and, in company with Mr. Bernard Rennell, will sing the operatic duet, "Silvio at this Hour" (from "Pagliacci").

ON Friday evening the Grand Opera Quartet will provide a change from their usual type of programme, when an entertainment consisting of plantation songs and choruses will be

presented. The programme will be typical of negro life, every item on the programme being intended to help create the required atmosphere. The vocal numbers will comprise many of the old favourites and banjo items and comicallities will be introduced. The Studio String Octet under Mr. Harold Beck will play many of the melodies which are inseparably associated with the negroes in joy and sadness. Elocutionary items will be given by Miss Winifred Smith.

THERE will be a vaudeville type of programme on Saturday evening, concluding with a dance music session. The Cathedral Male Quartet will be heard in solo and concerted work. The always popular Joyous Pair will again appear "at the piano," with ukulele obligato. Mr. Noel Newson, the youthful entertainer who delighted listeners some weeks ago, will again be heard and Mr. Geo. Titchener will provide humorous numbers.

4YA Notes

SUNDAY, Monday and Tuesday will be observed as silent days at 4YA next week in view of the changing over to the new premises.

The official opening takes place on Wednesday evening.

On Thursday evening the first children's session in the new station will take place. Big Brother Bill has arranged something special.

The concert session will consist of a presentation by the Dunedin Training College Choir of the sacred cantata "Bethany" (by Williams). There will be orchestral accompaniment. Glee and madrigals will also be sung, without accompaniment. The conductor will be Mr. J. Crossley Clitheroe.

On Friday evening there will be a relay from Waimate.

Saturday evening's broadcast will consist of a relay from 3YA.

Children's Sessions

AT 1YA.

TUESDAY, OCTOBER 15.—Uncle George will tell us stories, and our instrumental trio will provide trios, duets, and solos.

WEDNESDAY.—This evening Uncle Tom will have with him Mr. Chappell, who will give a talk on Journalism, which will be of interest to the older girls and boys.

THURSDAY.—Another trio to entertain this evening, but this time it is a singing trio—the Huggins Sisters. Peter Pan will have stories, jokes and catches.

FRIDAY.—The Happy Hour will be spent with Nod and Aunt Jean, who will have their usual store of stories and songs.

SATURDAY.—Cinderella at the helm with stories and birthday greetings. Piano solos, and violin solos from cousins.

SUNDAY.—Children's Song Service conducted by Uncle Len, assisted by Beresford Street Sunday School

AT 2YA.

THURSDAY, OCTOBER 10:

Miss Hazel Hardwicke has arranged another little programme for Radioland to-night. There will be stories and Uncle George will send the birthday greetings.

FRIDAY:

The pupils of Mrs. Theo. Hills will be welcomed to-night with their songs and pretty little poems. Brother Jack will be here, too, with birthday messages.

SATURDAY:

Petone Boy Scouts, under Mr. Aldridge to-night, so there will be a jolly hour. Uncle Toby and Aunt Gwen will give the birthday greetings and talk to the little folk.

SUNDAY:

The Children's Song Service will be conducted by Uncle George, assisted by Cambridge Terrace Congregational Sunday School Choir, under Mr. Reynolds.

AT 3YA.

MONDAY, OCTOBER 14: Have you ever been stung by those horrid "stinging nettles" that grow near our picnic places? Or eaten some poisonous berries that upset you? Well listen-in to-night and "Scatterjoy" will have something interesting to tell you about them; and how to avoid them! Songs and duets by "The Melody Maids."

WEDNESDAY: Mother Hubbard has been to her cupboard and found ever so many new little songs and stories; and Uncle Frank has some thrilling adventure stories for the boys.

THURSDAY: Uncle John in bright and breezy form, and the pupils of Miss Bessie Pollard will help make a happy hour for you.

FRIDAY: To-night there is a surprise for all—so not a word about it—but one thing we are having and that is a dialogue by Cousins Evelyn and Molly, and music by Betty and Rona.

SATURDAY: Ho-ho for "Sunny Jim" and "Jack Frost," and their tricks and fun, with "Aunt Pat" trying to keep them in order. To-night's the night you want to listen-in.

SUNDAY: Our Children's Song Service conducted by Miss Kay, assisted by the choristers from St. Matthew's Anglican Sunday School.

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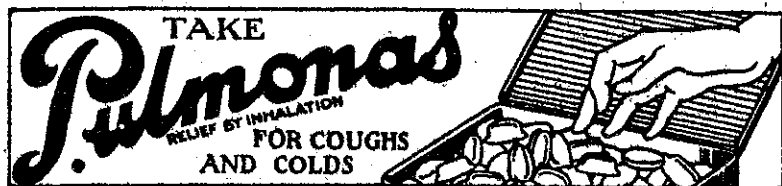
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Full Programmes for Next

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Sunday, October 13

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, OCTOBER 13.

- 3.0 : Afternoon session—Selected studio items.
- 4.0 : Literary selection by the Announcer.
- 4.8 : Studio items.
- 4.30: Close down.
- 6.0 : Children's session, conducted by Uncle Leo.
- 6.55: Relay of service from St. Andrew's Church. Preacher, Rev. I. E. Bertram. Organist, Dr. Neil McDougall.
- 8.30: (approx.) Relay from Whangarei of concert by the Whangarei Municipal Band, under the conductorship of Bandmaster Dobson.

Close down.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, OCTOBER 13.

- 3.0 : Afternoon session—selected studio items.
- 4.30: Close down.
- 6.0 : Children's service, conducted by Uncle George.
- 7.0 : Relay of service from Taranaki Street Methodist Church: Preacher, Rev. T. R. Richards. Organist and Choirmaster, Mr. H. Temple White.
- 8.15: (approx.) : Studio concert by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew, and assisting artists:
Hymn—Band, "Nearer My God to Thee" (arrgd. Scotney).
Overture—Band, "Les Dragon de Villiers" (Maillart).
- 8.27: Soprano—Miss Isabel Cooper, (a) "A Castilian Lament" (Del Riego); (b) "That's All" (Brahe).
- 8.34: Baritone—Mr. Claude O'Hagan, "Tommy Lad" (Margeson).
- 8.38: Cornet solo with band accompaniment—Bandsman W. G. Stevenson, "Shylock" (Lear).
- 8.43: Contralto—Miss Hilda Chudley, Negro Spirituals, (a) "Steal Away"; (b) "By an' By" (arrgd. Burleigh).
- 8.49: Tenor—Mr. Oliver Foote, "The Trumpeter" (Dix).
- 8.53: Intermezzo—Band, "Laughing Marionette" (Collins).
- 8.59: Weather report.
- 9.1 : Soprano—Miss Isabel Cooper, (a) "Slave Song" (Riego); (b) "I Hear a Thrush at Eve" (Cadman).
- 9.8 : Baritone—Mr. Claude O'Hagan, (a) "Roses" (Adams); (b) "Youth" (Allitsen).
- 9.15: Grand selection—Band, "Rossini's Works" (arrgd. Owen).
- 9.35: Contralto—Miss Hilda Chudley, "Homeward to You" (Coates).
- 9.39: Violin with organ—De Groot and Terence Casey, (a) "Cavatina" (Raff); (b) "Parted" (Tosti) (H.M.V. B2920).
- 9.45: Tenor—Mr. Oliver Foote, (a) "Macushla" (McMurrough); (b) "When I Awake" (Wright).
- 9.51: March—Band, "O.H.M.S." (Thompson).
- 9.55: Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 13.

- 3.0 : Afternoon session—selected studio items.
- 5.30: Children's song service—Children of the Presbyterian Sunday Schools.
- 6.15: Hymn chimes from Studio.
- 6.30: Studio programme:
Instrumental—Studio Trio, (a) "Serenade" (Clough-Leighton); (b) "Berceuse" (Godard); (c) "Polonaise in A" (Chopin).
- 6.43: Grand organ and trumpet—Paul Mania, "Meditation—Vision de Jeanne D'Arc" (Gounod) (Parlophone A4051).
- 6.47: Edith Lorand Orchestra, (a) "Prelude Op. 3, No. 1" (Rachmaninoff); (b) "Liebesfeier" (Weingartner) (Parlophone E10590).
- 6.55: Grand organ and trumpet—Paul Mania, "Hallelujah Chorus" ("Messiah") (Handel) (Parlophone A4051).
- 7.0 : Relay of service from St. Andrew's Presbyterian Church. Preacher, Rev. J. O. Young, B.A., of Leeston. Musical Director, Mr. J. Maclean. Organist, Mr. Robt. Lake.
- 8.15: (approx.) : Rebroadcast of 2YA, Wellington (Studio concert by the Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew, and assisting artists).
- 9.55: Close down.

4YA, DUNEDIN (980 KILOCYCLES)—SUNDAY, OCTOBER 13.

SILENT.

Monday, October 14

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, OCTOBER 14.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, OCTOBER 14.

- 3.0 : Chimes of the G.P.O. clock.
- 3.1 : Selected gramophone items.
- 4.30 and 4.50: Sports results to hand.
- 5.0 : Children's session conducted by Uncle Jeff.
- 6.0 : Dinner session—"His Master's Voice" Hour:
Philadelphia Symphony Orchestra, "Nocturne No. 2—Fetes" (Debussy) (E507).
Violin—Fritz Kreisler, "La Vida Breve" (De Falla, arrgd. Kreisler) (DA1009).
San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski), (b) "Aubade" (Auber) (ED6).
- 6.13: Tacet.
- 6.15: Philadelphia Symphony Orchestra, "Nutcracker Suite" (Tchaikowsky): (1) Miniature Overture, (2) Marche, (3) Dance of the Sugar Plum Fairy (D1214).
San Francisco Symphony Orchestra, "Liebeslied" (Kreisler) (ED6).
- 6.30: Philadelphia Symphony Orchestra, "Nutcracker Suite," Tchaikowsky: (1) Danse Arabe, (2) Danse Chinoise, (3) Dance des Merlions (D1215).
Instrumental Trio—Kreisler, Kreisler and Raucheisen, "Intermezzo—Arlésienne" (Bizet, arrgd. Kreisler) (DB1166).
- 6.42: Tacet.
- 6.45: Philadelphia Symphony Orchestra, "Nutcracker Suite" (Tchaikowsky): Waltz of the Flowers (D1216).
Violin—Fritz Kreisler, "Tango," Op. 165, No. 2 (Albeniz, arrgd. Kreisler) (DA1009).
Waltz—Royal Opera Orchestra, "Eugen Onegin" (Tchaikowsky) (C1281).
- 6.57: Tacet.
- 7.0 : News session, market reports and sports results.
- 7.40: Lecturette—Mr. A. E. Wilson, of the Government Tourist Department, "Tourist and Holiday Resorts."
- 8.0 : Chimes of the G.P.O. clock.
- 8.1 : Overture—Orchestra, "Maritana" (Wallace).
- 8.7 : Soprano—Miss Jeanette Briggs, L.A.B., "E'er a Snowflake Leaves the Sky" (Lehmann).
- 8.11: Relay from Concert Chamber, Town Hall, of chamber music concert by the Symons-Ellwood-Short Trio: "Trio" (Rachmaninoff).
- 8.21: Chorus—Ariel Singers, "The Tailor and the Mouse" (English folk song).
- 8.25: Bass—Mr. J. M. Caldwell, (a) "Shepherd, See Thy Horse's Foaming Mane," (b) "Had a Horse" (Hungarian folk songs arrgd. Korbay).
- 8.32: Instrumental—Orchestra, (a) "Dance of the Hours" (Ponchielli); (b) "Gavotte" ("Mignon"—Thomas).
- 8.40: Tenor—Mr. W. Roy Hill, "Impatience" (Schnbert).
- 8.44: Lecturette—Mr. Justice MacGregor, "The Art of Public Speaking."
- 8.59: Chorus—Ariel Singers, "Hares on the Mountains" (English folk song).
- 9.3 : Weather report.
- 9.5 : Relay from Concert Chamber, Town Hall, of concert by the Symons-Ellwood-Short Trio:
Instrumental—Trio, "Variations" (Beethoven).
Mezzo-contralto, Mrs. Bernard Wood, selected.
Quintet—Trio, assisted by Mrs. E. Meier and Mr. Frank Crowther, "Quintet" (Dvorak).
- 9.40: Vocal duet—Misses Jeanette Briggs and Ngaira Coster, "Linger, O Gentle Time" (Cowan).
- 9.44: Organ—G. T. Pattman, "Humoresque" (Dvorak) (Columbia 02686).
- 9.47: Chorus—Ariel Singers, "Mowing the Barley" (English folk song).
- 9.51: Instrumental—Orchestra, "L'Arlésienne" (Bizet).
- 10.1 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, OCTOBER 14.

- 3.0 : Afternoon session—gramophone items.
- 5.0 : Children's session, conducted by Scatterjoy.
- 6.0 : Dinner session—Brunswick Concert Orchestra, "Wine, Women, and Song" (Strauss) (Brunswick 20088).
Pianoforte—Karol Seretor, "Hungarian Rhapsody" No. 12 (Liszt) (Parlophone E10627).
- 6.12: Tacet.

Week-all Stations-to Oct. 20

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- 6.15: Orchestral—"Hubertiana" (Stone) (Brunswick 4287).
 Piano and trumpet—Lie Simo, "Caressing You" (Klages) (Brunswick 4339).
 Colonial Club Orchestra, "My Lover" (Lewis) (Brunswick 4241).
 Male chorus—Famous Forty, "Annie Laurie" (Douglas-Scott) (Brunswick 3973).
 6.27: Tacet.
 6.30: Instrumental—Herman Trio, (a) "Pierrette" (Chaminade); (b) "Dal-visa" (Swedish folk song) (Brunswick 4223).
 Frank Westfield's Orchestra, "Classica" (arrgd Tilsey) (Parlophone A2195).
 6.42: Tacet.
 6.45: Dajos Bela Orchestra, "Schatz" Waltz (Strauss) (Parlophone 4110).
 Edith Lorand Orchestra, "Tales of Hoffman" (Offenbach) (Parlophone A4070).
 6.55: Tacet.
 7.0: News session.
 7.15: Talk—Mr. E. J. Bell, Book Review.
 7.30: Farm chat—Dr. Charles Chilton—"Review of September Number of Journal of Agriculture" (arranged by 3YA Primary Productions Committee).
 8.0: Chimes.
 Programme by the New Brighton Municipal Band, under the conductorship of Mr. J. Nuttall, and assisting artists:
 8.1: March—Band, "March of the Anzacs" (Lithgow).
 Idyll—Band, "The Cuckoos" (Lithgow).
 8.10: Soprano—Mrs. Jean Scrimshaw, "Golden Dancing Days" (Coningsby Clarke).
 8.14: Studio Trio—(a) "Serenade" (Drigo); (b) "Ye Banks and Braes" (trdtl.); (c) "Sleeping Beauty—Waltz" (Tschalkowsky).
 8.24: Bass—Mr. Robert Ronson, (a) "Go to Sea" (Trotiere); (b) "Out on the Deep" (Lohr).
 8.30: Waltz—Band, "Just Like Darby and Joan" (Gilbert).
 8.34: Contralto—Miss Maud Stringer, "Douglas Gordon" (Kellie).
 8.38: Novelty foxtrots—Band, (a) "Ice Cream" (Moll); (b) "Dada, Dada" (Clegg).
 8.46: Recital—Mr. H. Instone, "The Scottish Spirit" (MS).
 8.43: Tenor—Mr. Peter Macdonald, (a) "When Song is Sweet" (Sans Sound); (b) "Until" (Sanderson).
 8.59: Xylophone novelty—Rudy Star Three, "Polly" (Zamecnik) (Parlophone A2584).
 9.2: Weather report.
 9.4: Soprano—Mrs. Jean Scrimshaw, (a) "I Wish I Were a Tiny Bird" (Lohr); (b) "House Hunting" (Squire).
 9.10: Instrumental—Studio Trio, (a) "La Cinquantaine" (Marie); (b) "Swedish Folk Song" (Svendsen); (c) "Serenata" (Moszkowski).
 9.19: Bass—Mr. Robert Robson, "Off to Philadelphia" (Haynes).
 9.23: Selection—Band, "Saxonhurst" (Greenwood).
 9.32: Contralto—Miss Maud Stringer, (a) "In An Old-fashioned Town" (Squire); (b) "Five Little Piccaninies" (Anthony).
 9.38: Trombone novelty—Band, (a) "Sliding Jim" (Losey); (b) "Saskatchewan" (Gilbert).
 9.46: Recital—Mr. H. Instone, "The Pawnbrokers' Ball" (MS).
 9.54: Tenor—Mr. Peter Macdonald, "Goodbye" (Tosti).
 9.58: March—Band, "Duntroon" (Code).
 10.2: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, OCTOBER 14.

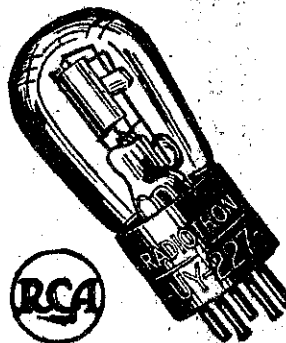
SILENT.

Tuesday, October 15

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, OCTOBER 15.

- 3.0: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.25: Sports results to hand.
 5.0: Children's session, conducted by Uncle George.
 6.0: Dinner session—"His Master's Voice Hour":
 New Mayfair Orchestra, "This Year of Grace" Selection (Coward) (EB37).
 Instrumental Trio—"The Poet's Song" ("La Boheme") (Puccini) (Zonophone 465).
 Waring's Concert Orchestra, "Ah, Sweet Mystery of Life" (Herbert) (EB37).

- 6.13: Tacet.
 6.15: New Light Symphony Orchestra, "Prelude in G Minor" (Rachmaninoff) (Zonophone BF24).
 Organ—Stanley Roper, "Imperial March" (Elgar) (C1297).
 Violin and mustel organ—Elsie Southgate and Dorothy Southgate, "When All Was Young" ("Faust") (Gounod) (Zonophone 1848).
 6.27: Tacet.
 6.33: Paul Whiteman's Concert Orchestra, "Suite of Serenades" (Herbert):
 (1) Spanish; (2) Chinese; (3) Cuban; (4) Oriental (H.M.V. BB26).
 La Scala Orchestra—Milan, "Secret of Suzanna" (Wolf-Ferrari) (D1488).
 6.42: Tacet.
 6.45: La Scala Orchestra—Milan, "Song of the Nightingale" ("Don Juan") (Napravnik) (D1488).
 Violin and mustel organ—Elsie Southgate and Dorothy Southgate, "The Hour is Late" ("Faust") (Gounod) (Zonophone 1484).
 H.M. Coldstream Guards Band, "Les Cloches de Corneville" Selection (Planquette) (C129).
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Madame Edith Baird, "Artistic Physical Development."
 8.0: Chimes.
 Special programme of Sir Edward Elgar's works:
 8.1: Royal Albert Hall Orchestra, "Cockaigne" Overture (Elgar) (H.M.V. D1110/1).
 8.17: Choral—1YA Broadcasting Choir, under the conductorship of Mr. Len Barnes, (a) "False Love"; (b) "On the Alm"; (c) "Lullaby" ("Songs of the Bavarian Highlands") (Elgar).
 8.28: Instrumental—Studio Trio, "Carissima" (Elgar).
 8.34: Soprano—Miss Gwenda Weir, (a) "Pleading"; (b) "A Rondel" (Elgar).
 8.41: Organ—Herbert Dawson, "Idylle" (Elgar) (H.M.V. D2263).
 8.45: Baritone—Mr. Dudley Wrathall, (a) "The Pipes of Pan"; (b) "Sword Song" ("Caractacus") (Elgar).
 8.53: Pianoforte—Mr. Eric Waters, "Organ Grinder's Song" ("The Starlight Express") (Elgar).
 8.57: Royal Albert Hall Orchestra, "Chanson de Matin" (Elgar) (H.M.V. D1236).
 9.1: Choral—1YA Broadcasting Choir, (a) "Aspiration"; (b) "The Dance" ("Songs of the Bavarian Highlands") (Elgar).
 9.8: Weather report.
 9.10: Royal Albert Hall Orchestra, "Pomp and Circumstance" March (Elgar) (H.M.V. D1102).



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G.P.O. Box 630 :: WELLINGTON

- 9.14: Contralto—Miss Hinemoa Rosieur, (a) "Where Corals Lie" (Elgar); (b) "A Poet's Life" (Elgar).
 9.21: Instrumental—Studio Trio, "Salut D'Amour" (Elgar).
 9.26: Royal Albert Hall Orchestra, "Chanson de Nuit" (Elgar) (H.M.V. D1236).
 9.30: Choral—1YA Broadcasting Choir, "The Banner of St. George" (Elgar) (soloist, Mrs. Freda Evans).
 10.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, OCTOBER 15.

- 3.0: Chimes of the G.P.O. clock.
 3.1: Selected gramophone items.
 4.30 and 4.50: Sports results to hand.
 5.0: Children's session conducted by Uncle Jim.
 6.0: Dinner session—"Columbia" Hour:
 Instrumental—J. H. Squire Celeste Octet, "Everybody's Melodies" (arrgd. Sear) (02896).
 Violin—Efrem Zimbalist, "Old Vienna Waltz" (Kreisler) (04221).
 6.12: Tacet.
 6.15: Morceau—Plaza Theatre Orchestra, "The Busy Bee" (Bendix) (01438).
 Plaza Theatre Orchestra, "My Lady Dainty" (Hesse) (01438).
 Cello—W. H. Squire, "The Broken Melody" (Von Bien) (014180).
 Organ—Quentin McLean, "In a Persian Market" (Ketelbey) (01291).
 6.28: Tacet.
 6.30: Columbia Symphony Orchestra, "March of the Toys" (Herbert) (02651).
 New Symphony Orchestra, "Hydropaten" Waltz (Gungl) (02672).
 Violin—Efrem Zimbalist, "Zapateado" (Sarasate) (04221).
 6.42: Tacet.
 6.45: Waltz—New Concert Orchestra, "Jolly Fellows" (Volsteddt) (02672).
 Cello—W. H. Squire, "Silver Threads Among the Gold" (Danks, arrgd. Squire) (04178).
 Waltz—Eddie Thomas's Collegians, "Beautiful Ohio" (Earl) (02651).
 6.57: Tacet.
 7.0: News session, market reports and sports results.
 7.25: Lecturette by Mr. W. Fergie, "Excursions by Rail."
 7.40: Lecturette—Representative of the Agricultural Department, "For the Man on the Land."
 8.0: Chimes of the G.P.O. clock.
 8.1: Overture—Orchestra, "Prince Methusalem" (Strauss).
 8.9: Soprano—Miss Joyce Woodward, "Harebells" (Brewer).
 8.13: Cello—Miss Greta Jespersen, (a) "Larghetto" (Mozart), (b) "Berceuse" (Jarnefeldt), (c) "Gavotte Humoristique" (Squire).
 8.23: Baritone—Mr. L. J. Bryan, (a) "Come to the Ball," (b) "Mr. Jeremiah" ("The Quaker Girl"—Monckton).
 8.30: Instrumental—Orchestra, "Two Light Syncopated Pieces" (Coates).
 8.33: Humour—Mr. Len Ashton, "I'm Tickled to Death I'm Single" (Gideon).
 8.45: Popular songs—Mr. Spencer Furrell, (a) "My Mammy" (Donaldson), (b) "Marie" (Berlin).
 8.52: Instrumental—Orchestra, "Slumber Song" (Squire).
 Violin solo with orchestral accompaniment (soloist, Mr. W. Haydock), "Romanza Andalus" (Sarasate).
 9.0: Weather report.
 9.2: Soprano—Miss Joyce Woodward, (a) "Unfolding," (b) "Rosa Resurgent" ("Life of the Rose") (Lehmann).
 9.8: Baritone—Mr. L. J. Bryan, "I've Got a Motto" ("Arcadians"—Monckton).
 9.12: Instrumental—Orchestra, request number.
 9.17: Humour—Mr. Len Ashton, "When I Met Connie in the Cornfield" (Handley).
 9.22: Popular song—Mr. Spencer Furrell, "Sleepy Seas" (Stoneham).
 9.26: Instrumental—Orchestra, "On the Quarterdeck" (Alford).
 9.30: Special "His Master's Voice" Theme Song Programme:
 (The items comprised in this programme are some of the most popular theme songs of motion pictures which have been brought into prominence lately. A number of these items are rendered by the actual artists appearing in the pictures.)
 Baritone—Maurice Chevalier, "Louise" ("The Innocents of Paris") (Robin, Whiting) (H.M.V. EA542).
 Comedian—Charles King, (a) "The Wedding of the Painted Doll" (Brown), (b) "You Were Meant for Me" ("The Broadway Melody") (Brown) (EA552).
 Instrumental—George Olsen's Music, (a) "Walking with Susie" (Gottler), (b) "That's You, Baby" ("Fox Movietone Follies of 1929") (EA553).
 Tenor—Gene Austin, "The Lonesome Road" ("The Show Boat") (Kern) (EA550).
 Vocal—Helen Morgan, "Can't Help Lovin' Dat Man" ("The Show Boat") (Kern) (B2735).
 Waltz—Rudy Valle's Orchestra, "Coquette" ("Coquette") (Berlin) (EA532).
 10.0: "His Master's Voice" Dance Programme:
 Foxtrot—George Olsen's Music, "Old Man Sunshine" (Dixon) (EA422).
 Foxtrot—Nat Shilkret's Orchestra, "The Things that were Made for Love" (Tobias) (EA555).
 Waltz—Victor Arden, Phil Ohman, and their Orchestra, "Twelve o'Clock Waltz" (Rose) (EA557).
 Waltz—Waring's Pennsylvanians, "I'll Always be in Love with You" (Stept) (EA559).

- 10.12: Comedian—Eddie Canter, "I Faw Down an' Go Boom!" (Brockman) (BE146).
 Foxtrot—George Olsen's Music, "Walking with Susie" (Gottler) (EA553).
 Foxtrot—Nat Shilkret's Orchestra, "I Get the Blues when it Rains" (Weaver) (EA555).
 Waltz—Edwin McEnelly's Orchestra, "Raquel" (Whiting) (EA557).
 Waltz—Troubadours, "Pagan Love Song" (Freed) (EA558).
 10.27: Pianoforte duet—Victor Arden and Phil Ohman, "Fashionette" (Glo-gau) (EA529).
 Foxtrot—Nat Shilkret's Orchestra, "Susannah" (Williams) (EA652).
 Foxtrot—Rudy Valle's Connecticut Yankees, "The One that I Love Loves Me" (Turk) (EA565).
 Waltz—Rudy Valle's Connecticut Yankees, "By-and-By, Sweetheart" (Yellen) (EA549).
 Waltz—Rudy Valle's Connecticut Yankees, "Underneath the Russian Moon" (Kendis) (EA565).
 10.42: Novelty—Shilkret's Rhythm Melodists, "Sweet Nothing" (Rittenberg) (EA529).
 Foxtrot—Nat Shilkret's Orchestra, "Who Cares What You Have Been?" (Gilbert) (EA570).
 Foxtrot—Jack Hylton's Orchestra, "Um-tcha-um-tcha-da-da-da" (Hart) (EA572).
 Foxtrot—Nat Shilkret's Orchestra, "From Sunrise to Sunset" (McLaughlin) (EA570).
 Waltz—Jesse Crawford and Orchestra, "She's a New Kind of Old-Fashioned Girl" (Rose) (EA566).
 Waltz—Hilo Hawaiian Orchestra, "Blue Hawaii" (Baer) (EA574).
 11.0: Close down.

3YA, CHRISTCHURCH (930 KILOCYCLES)—TUESDAY, OCTOBER 15.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, OCTOBER 15.

SILENT.

Wednesday, October 16

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, OCTOBER 16.

- 3.0: Afternoon session—Selected studio items.
 4.0: Literary selection by the Announcer.
 4.8: Studio items.
 4.25: Sports results to hand.
 4.30: Close down.
 5.0: Children's session, conducted by Uncle Tom.
 6.0: Dinner session—"Columbia Hour":
 New Queen's Hall Light Orchestra, "Summer Days" Suite (Coates):
 (1) In a Country Lane; (2) On the Edge of the Lake; (3) At the Dance (02590/1).
 6.13: Tacet.
 6.15: New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates) (02591).
 J. H. Squire Celeste Octet, "Silver Threads Among the Gold" (Danks) (Regal G7260).
 Band of H.M. Grenadier Guards, "The Mill in the Black Forest" (Ellenberg) (3087).
 6.27: Tacet.
 6.30: Jacques Jacobs Ensemble, "Four Indian Love Lyrics" (Woodfore-Finden) (2982/3).
 6.43: Tacet.
 6.45: Symphony Orchestra, "The Kiss" Waltz (Strauss) (02522).
 J. H. Squire Celeste Octet, "When the Swallows Homeward Fly" (Abt) (Regal G7260).
 H.M. Grenadier Guards Band, "March of the Mountain Gnomes" (Ellenberg) (3087).
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Madame Mabel Milne, "Health and Diet."
 8.0: Chimes.
 8.1: Part-song—Madame Mary Towsey's Quartet, "Land of Hope and Glory" (Elgar).
 8.5: Soprano—Miss Beryl Barker, "Two Bergerettes" (Weckerlin).
 8.9: Cornet solo—Mr. Paul Hayes, "Lucille" (Code).
 8.13: Tenor and chorus—Mr. J. McDougall, "Jack's the Boy" ("The Giesha") (Jones).
 8.17: Recital—Miss Gladys Gamman, "A Gentleman of France" (Walsh).
 8.22: Mezzo-soprano—Miss Mollie Atkinson, "My Dearest Heart" (Sullivan).
 8.26: Pianoforte—Mr. Eric Waters, "Study in G Flat Major" (Loeschorn).
 8.30: Baritone and chorus—Mr. John Bree, "Love, Love" ("The Giesha") (Jones).
 8.34: Talk—Mr. A. B. Chappell, "Topical Talk."
 8.49: Soprano—Madame Mary Towsey, (a) "Eleanore" (Mallinson); (b) "Slow, Horses, Slow" (Mallinson).
 8.55: Cornet solos—Mr. P. Hayes, (a) "La Reive d'Amour" (Millar); (b) "Anchored" (Watson).
 9.2: Weather report.

- 9.4 : Vocal quartet—Madame Mary Towsey's Quartet, "You Swear to be Good and True" (Dorothy) (Cellier).
 9.8 : Soprano—Miss Nancy O'Connor, "The Amorous Goldfish" ("The Geisha") (Jones).
 9.12: Pianoforte—Mr. El Waters, "Norwegian Wedding Day" (Grieg).
 9.16: Tenor—Mr. J. McDougall, "Who is Sylvia?" (Schubert).
 9.20: Recitals—Miss G. Gamman, (a) "Butterflies" (Mayer); (b) "A Blush Rose" (Anon.)
 9.26: Mezzo-soprano—Miss Mary Carlton, "Rhoda Ran a Pagoda" ("The Geisha") (Jones).
 9.30: Part song—Madame Mary Towsey's Quartet, "Parting" (Mendelssohn).
 9.34: Lecture recital—Mr. Karl Atkinson, "Birds in Music":
 Overture—Berlin State Opera Orchestra, "The Thieving Magpie" (Rossini) (Parlophone 4078).
 Whistling with orchestra—Margaret McKee, "The Bird at the Waterfall" (Ring-Harper) (Brunswick 4396).
 De Groot String Trio, "Le Cygne" (The Swan) (Saint-Saens) (H.M.V. B2943).
 Soprano—Evelyn Scotney, "Song of the Nightingale" (Saint-Saens) (H.M.V. B481).
 Harpischord—Anna Linde, "The Cuckoo" (Daquin) (Parlophone 10514).
 Soprano—Galli-Curci, "La Capinera" (The Wren) (Benedict) (H.M.V. DA1002).
 Orchestral—Paris Concerts Colonne Orchestra, "The Golden Cockerel" (Rimsky-Korsakov) (Parlophone 1016).
 10.4 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, OCTOBER 16.

SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, OCT. 16.

- 3.0 : Afternoon session—selected gramophone items.
 4.25: Sports results to hand.
 5.0 : Children's session, conducted by Mother Hubbard and Uncle Frank.
 6.0 : Dinner session—"His Master's Voice" Hour:
 Philadelphia Symphony Orchestra, "Scheherazade" Suite (Rimsky-Korsakov) : 1. The Sea; 2. The Vessel of Sinbad (H.M.V. D1436).
 Sextet—Galli-Curci, Homer, Gigli, de Luca, Pinza, and Bada, "Chi Mi Frena?" (What Restrains Me?) ("Lucia di Lammermoor") (Donizetti) (H.M.V. DQ102).
 6.12: Tacet.
 6.15: San Francisco Symphony Orchestra, "Caprice Viennois" (Kreisler) (H.M.V. D1272).
 La Vittoria Orchestra, "Wedding of the Winds" (Hall) (Zonophone EF21).
 San Francisco Symphony Orchestra, "Coppelia Ballet" (Delibes) (D1272).
 6.27: Tacet.
 6.30: Light Symphony Orchestra, "La Poupee Valsante" (Poldini) (B2629).
 Light Symphony Orchestra, "At Dawning" (Cadman) (B2629).
 Violin—Renee Chemet, (a) "Serenade" (Toselli); (b) "Serenade" (Pierne) (DA955).
 6.42: Tacet.
 6.45: Marek Weber's Orchestra, "Faust" Selection (Gounod) (C1511).
 H.M. Coldstream Guards, "In a Persian Market" (Ketelbey) (C1440).
 6.55: Tacet.
 7.0 : News session.
 7.30: Addington Stock Market reports.
 7.59: Relay of 4YA, Dunedin (opening of new station).
 Close down.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, OCTOBER 16.

OFFICIAL OPENING OF NEW STATION.

- 8.0 : Opening Skirl—Dunedin Pipe Band.
 Official Opening Address by the Postmaster General, the Honourable J. B. Donald.
 Orchestral Overture—Studio Orchestra, "Egmont" (Beethoven).
 Address by His Worship the Mayor of Dunedin, Mr. R. S. Black.
 Bass solos—Mr. F. C. Cooper, (a) "Star of Eve" (Wagner), (b) "King Charles" (Hillman).
 Violin solo with orchestral accompaniment—Mr. Frank Parsons, "Romanza Andalus" (Sarasate).
 Vocal duet—Miss Mae Matheson and Mr. F. M. Tuohy, "Calm, Silent Night" (Goetze).
 Pipe Band Selection—Dunedin Pipe Band, "Scottish Air" (traditional).
 Soprano solo with orchestral accompaniment—Miss Meda Pains, "The Pipes of Pan" (Elgar).
 Comedian—Mr. Jock Lockhart, Scottish Humour.
 Orchestral Selection—Studio Orchestra, "Lilac Time" (Schubert).
 Interval.
 Band selection—St. Kilda Band, "Poet and Peasant" (Suppe).
 Vocal duet—Messrs. John Leech and W. Ruffell, "Solemn in Quest Ora" ("La Forza del Destino"—Verdi).
 Humorous Sketch—Miss Anita Winkel and Major F. H. Lampen, "Wave Lengths" (Peach).
 Novelty Instrumental—Dunedin Banjo Trio, (a) "Ten Little Miles from Town" (Schoebel), (b) "Carolina Moon" (Burke).
 Contralto solos—Miss Mary Pratt, (a) "How Changed This Vision" (Handel), (b) "A Soft Day" (Stanford).
 Band Selection—St. Kilda Band, "Pirates of Penzance" (Sullivan).
 Vocal quartets—The Four Aces, (a) "The Trumpeter" (Dix), (b) "Drink to Me Only With Thine Eyes" (Calcott).
 Trombone novelty—St. Kilda Band, "The Joker" (Moss).
 Tenor solos—Mr. Ernest Drake, (a) "All Hail, Thou Dwelling" ("Faust"—Gounod), (b) "Do Not Go, My Love" (Hageman).
 Novelty Instrumental—Dunedin Banjo Trio, (a) "Is Izzy Azzy Wozza" (Clerg), (b) "Love Dreams" (Mendoza).
 Comedian—Mr. Jock Lockhart, Scottish Humour.
 Foxtrot—St. Kilda Band, "Wedding of the Painted Doll" (Brown).
 March—St. Kilda Band, "Twentieth Century" (Hume).
 God Save the King.

Thursday, October 17

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, OCTOBER 17.

- 3.0 : Relay of concert from Messrs. Lewis Bady, Ltd.
 4.30: Close down.
 5.0 : Children's session conducted by Peter Pan.
 6.0 : Dinner session—"Parlophone" Hour:
 Dajos Bela Orchestra, "Voices of Spring" (Strauss) (4095).
 Violin—Andreas Weissgerber, "Souvenir de Moscou" (Wieniawski) (4105).
 Pianoforte—Beryl Newell, "A Precious Little Thing Called Love" (2777).
 6.12: Tacet.
 6.15: Tubize Royal Hawaiian Orchestra, "Moon light in Hawaii" (2786).
 Opera Comique Orchestra, "Manon" Ballet Music (Massenet) (4104).
 6.27: Tacet.
 6.30: Dajos Bela Orchestra, "Vienna Blood" (Strauss) (4095).
 Tubize Royal Hawaiian Orchestra, "Wabash Blues" (2786).
 Pianoforte—Beryl Newell, "Wedding of the Painted Doll" (Brown) (2777).
 Band of H.M. Irish Guards, "Clonkerty Clonk" (2582).
 6.43: Tacet.
 6.45: Berlin State Opera Orchestra and Ludwig Hofmann, baritone, in the jazz opera "Johnny Strikes Up" (Krenek) and "Hymn of Johnny" (4035).
 Sardon Joszi Orchestra, "The Smithy in the Woods" (Michaelis) (2479).
 6.57: Tacet.
 7.0 : Book review.
 7.15: News session.
 8.0 : Chimes.
 8.1 : Selection—Orchestra, "No, No, Nanette" (Youmans).
 8.11: Baritone—Mr. Walter brought, (a) "The Stockrider's Song" (James), (b) "Comrades of Mine" (James).
 8.18: Saxophone—Mr. Charles McGlashan, "Military Memories" (Barroll).
 8.22: Recital—Mr. C. F. Mickle, "How We Saved the Barge" (Williams).
 8.26: Contralto—Miss Irene Frost, "Softly Awakes My Heart" ("Samson et Delilah") (Saint-Saens).
 8.30: Suite—Orchestra, "Persian Suite" (Rubinstein—Marena): (1) Pilgrimage to Koknabad; (2) Dance of the Slaves; (3) Ode to Hafis; (4) Festival of the Roses in Schiras.
 8.40: Baritone—Mr. W. Brough, "Harlequin" (Sanderson).
 8.44: Saxophone—Mr. McGlashan, "Popular Memories" (arrgd. McGlashan).
 8.51: Recitals—Br. C. F. Mickle, (a) "Jim Bludso" (Mareo); (b) "The Hindoo's Paradise" (Anon.).
 8.58: Weather report.
 9.1 : Instrumental—Studio Orchestra, "Morning Journals" (Strauss).
 9.11: Contralto—Miss I. Frost, (a) "Sapphic Ode" (Brahms), (b) "The Hurdy-Gurdy Man" (Schubert).
 9.19: Novelty—Orchestra, "Reminiscences of the Plantation" (arrgd. Chambers).
 9.29: "His Master's Voice" Dance Programme:
 Foxtrot—George Olsen's Orchestra, "Walking with Susie" (Gottler) (EA553).
 Foxtrot—Waring's Pennsylvanians, "Jericho" (Robin) (EA559).
 Foxtrot—Jack Hylton's Orchestra, "Um-tcha-um-da-da-da" (Hart) (EA572).
 Slow Blues—Morton's Red Hot Peppers, "Shoe Shiners' Drag" (EA468).
 9.42: Comedian—Clarkson Rose, "We're Living at the Cloisters" (Weston) (Zonophone 5213).
 Foxtrot—George Olsen's Orchestra, "That's You, Baby" (Gottler) (EA553).
 Foxtrot—Waring's Pennsylvanians, "I'll Always be in Love with You" (Stept) (EA559).
 Waltz—The Troubadours, "Love Dreams" (Harris) (EA475).
 Waltz—The Troubadours, "Live and Love" (Klages) (EA478).
 9.57: Baritone—Melville Gideon, "Blue-Bird, Sing Me a Song" (David) (EA449).
 Foxtrot—Jack Hylton's Orchestra, "Bogey Wail" (EA572).
 Foxtrot—Nat Shilkret's Orchestra, "My Tonia" (de Sylva) (EA478).

Waltz—Rudy Vallee's Orchestra, "By-and-By, Sweetheart)) (Yellen) (EA549).

Waltz—Troubadours, "Dream Boat" (EA556).

10.12: Male voices—Minstrels, "A Minstrel Show" (EB39).

Foxtrot—Nat Shilkret's Orchestra, "Jimmy Valentine" (Madden) (EA475).

Foxtrot—Rudy Vallee's Orchestra, "My Time is Your Time" (Little) (EA549).

Foxtrot—Ned Nichols's Orchestra, "Five Pennies" (EA467).

Waltz—Jean Goldkettes's Orchestra, "Rosette" (EA408).

10.27: Comedian—Clarkson Rose, "Our Avenue" (Weston) (Zonophone 5213).

Foxtrot—Nat Shilkret's Orchestra, "Fioretta" (Romilli) (EA556).

Foxtrot—McKinney's Cotton-Pickers, "Shim-me-sha-wabble" (EA467).

Foxtrot—Jesse Crawford and orchestra, "I've Got a Feeling I'm Falling" (Rose) (EA566).

Waltz—Jesse Crawford with Orchestra, "She's a New Kind of Old-Fashioned Girl" (EA566).

10.42: Baritone—Melville Gideon, "There are Eyes" (Keyes) (EA449).

Foxtrot—Jack Hylton's Orchestra, "In the Shadows" (Finck) (EA480).

Foxtrot—The Rhythm Band, "A Room with a View" (Coward) (EA471).

Foxtrot—Jack Hylton's Orchestra, "In the Woodshed She Said She Would" (Johnson) (EA480).

Foxtrot—Rhythm Band, "Teach Me to Dance Like Grandma" (Coward) (EA471).

11.0: Close down.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, OCTOBER 17.

3.0: Chimes of the G.P.O. clock.

3.1: Selected gramophone items.

4.30 and 4.50: Sports results to hand.

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

6.0: Dinner session—"Parlophone Hour":

Overture—Grand Symphony Orchestra, "Zampa" (Herold) (A4020).

Waltz—Dajos Bela Orchestra, "Morgenblätter" (Strauss) (A4038).

6.12: Tacet.

6.15: Orchestra of the Opera Comique, Paris, "Scenes Pittoresques" (Massenet) (A4057).

Waltz—Edith Lorand Orchestra, "Vienna Waltz" (Drdla) (E10531).

6.27: Tacet.

6.30: Waltz—Dajos Bela Orchestra, "Marion Klange" (Strauss) (A4038).

Waltz—Edith Lorand Orchestra, "Merry Vienna" (Zishrer) (E10531).

6.42: Tacet.

6.45: Waltz—Edith Lorand Orchestra, "Song of Autumn" (Waldteufel) (E10570).

Dajos Bela Orchestra, "Serenade" (Moszkowski) (A4015).

Valse intermezzo—Edith Lorand Orchestra, "The Flower's Dream" (Translateur) (E10570).

6.57: Tacet.

7.0: News session, market reports and sports results.

7.40: Lecturette—Mr. A. J. Nicholls (Representative Hutt Valley Horticultural Society), "Gardening."

8.0: Chimes of the G.P.O. clock.

"A Night with the Savages." (Special programme by Wellington Savage Club Orchestra and Concert Party):

8.1: Overture—Orchestra, "Men of Prometheus" (Beethoven).

March—Orchestra, "Waldner" (Losey). (Conductor of orchestra, Savage Frank Thomas.)

8.10: Tenor—Savage Tom Jenkins, "Live, Laugh and Love" (Monckton).

8.14: Instrumental—Orchestra, (a) "The Moonlit Glade" ("In a Fairy Realm" Suite) (Ketelbey); (b) "Let Me Dream" (Barbarolli).

8.24: Humorous sketch—"The Disorderly Room" (Handley).

8.34: Waltz—Orchestra, "Thousand and One Nights" (Strauss).

8.39: Baritone—Savage Charles Moore, "The Crown of the Year" (Easthope Martin).

8.43: Humour—Savage Norman Aitken, "Mixed and Muddled" (Anon.).

8.50: Song transcription—Orchestra, "The Erl King" (Schubert).

8.55: Weather report.

8.57: Lecturette—Savage Johannes Andersen will give a brief talk on "Maori Music."

9.10: Overture—Orchestra, "Masaniello" (Auber).

March—Orchestra, "Vimy Ridge" (Bidgood).

9.19: Tenor—Savage Lew Campbell, "An Evening Song" (Blumenthal).

9.23: Musical comedy selection—Orchestra, "The Geisha" (Jones).

9.35: Bass—Savage Harrison Cook, "Prologue—I Pagliacci" (Leoncavallo).

9.39: Savage Clement May will entertain.

9.46: Suite—Orchestra, "Minnehaha" (Coleridge-Taylor).

9.51: Tenor—Savage Dan Foley, "The Mountains of Mourne" (French).

9.55: March—Orchestra, "Entry of the Gladiators" (Flick).

10.0: Close down.

3YA, CRISTCHURCH (980 KILOCYCLES)—THURSDAY, OCTOBER 17.

3.0: Afternoon session—Selected gramophone items.

4.25: Sports results to hand.

5.0: Children's session conducted by Uncle John.

6.0: Dinner session—"Columbia" Hour:

Mengelberg's Concertgebouw Orchestra, "Symphony No. 8—Allegretto and Scherzando" (Beethoven) (Columbia 04055).

Lener String Quartet—"Quartet in D Major—Minuetto" (Haydn) (04213).

J. H. Squire's Celeste Octet, "Mignon—Introduction and Romance" (Thomas) (02749).

6.12: Tacet.

6.15: 'Cello—W. H. Squire, "Chanson Indoue" (Rimsky-Korsakov) (03607).

Bournemouth Municipal Orchestra, "Valse Triste" (Sibelius) (Regal G20462).

Grand organ—G. T. Pattman, "Liebestraume" (Liszt) (Regal G20462).

6.27: Tacet.

6.30: H.M. Grenadier Guards Band, "Nell Gwynn Dances" (German): (1) Country Dance, (2) Pastoral Dance (01329).

Cherniavsky Trio—"Minuet—Quartet in E" (Boccherini) (0845).

Wurlitzer organ—(a) "From the Land of the Sky Blue Water," (b) "At Dawning" (Cudman) (01161).

6.42: Tacet.

6.45: J. H. Squire's Celeste Octet, "Invitation to the Waltz" (Weber) (02805).

Bournemouth Municipal Orchestra, "Don Giovanni" Selection (Mozart) (Regal G30012).

6.55: Tacet.

7.0: News session.

7.30: A lecturette by Mr. L. Paynter, Orchard Division, Department of Agriculture, "Fireblight—Its History and Measures to Prevent Its Spread" (arranged by 3YA Primary Productions Committee).

8.0: Chimes.

8.1: Milan Symphony Orchestra, "Il Matrimonio Segreto" Overture (Cimarra) (Columbia 02877).

8.9: Mezzo-soprano—Miss L. Merle Miller, "The Erl King" (Schubert).

8.13: Pianoforte recital with introductory comments—Mr. Sydney Francis Hoben, (a) "Norwegian Bridal Procession" (Grieg), (b) "Gavotte" (for left hand) (Rheinberger), (c) "Pierrette" (Chaminade).

8.29: Tenor—Mr. Harold Prescott, "Serenata" (Toselli).

8.35: Christchurch String Quartet, (a) "Minuetto, Op. 18, No. 4" (Beethoven), (b) "Finale—Allegro" (Beethoven).

8.45: Soprano—Miss Sylvia Angus, (a) "A Birthday" (Woodman); (b) "Sognal" (Shira).

8.49: Organ—Edouard Commette, "Toccata" (Gigout) (Columbia 02732).

8.52: Baritone—Mr. Bernard Rennell, "Song of the Flea" (Moussorgsky).

8.58: Orchestre Symphonique de Paris, "Ballet Egyptien—Allegro" (Lui-gini) (Columbia 02785).

9.1: Weather report.

9.3: Christchurch String Quartet, (a) "Moment Musicale" (Schubert), (b) "Cortege de Pulcinella" (arrgd. Savini—Leoncavallo).

9.13: Mezzo-soprano, Miss L. Merle Miller, "She Wandered Down the Mountain-side" (Clay).

9.19: Chorus with orchestra—Grand Opera Chorus, "Lohengrin—Finale, Act 1" (Wagner) (Columbia 02592).

9.22: Tenor—Mr. Harold Prescott, (a) "Come, Sweet Morning," (b) "La Donna e Mobile" ("Rigoletto"—Verdi).

9.26: Christchurch String Quartet, "Nocturno" (Borodin).

9.34: Soprano—Miss Sylvia Angus, (a) "The Reveille" (Macfadven); (b) "Fluttering Birds" (Mana Zucca).

9.40: Baritone—Mr. Bernard Rennell, "Thou Art Risen, My Beloved" (Coleridge-Taylor).

9.44: Orchestre Symphonique de Paris, "Ballet Egyptien—Allegretto" (Lui-gini) (Columbia 02785).

9.47: Mezzo-soprano and baritone duet—Miss L. Merle Miller and Mr. Bernard Rennell, "Silvio, At This Hour" ("Pagliacci"—Leoncavallo).

9.51: Chorus and Orchestra—Nationale de l'Opera, Paris, "Boris Godounov—Prologue," (b) "Boris Godounov—La Polonaise" (Moussorgsky).

10.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, OCTOBER 17.

3 p.m.: Town Hall chimes.

3.1: Afternoon session—Selected studio items.

4.25: Sports results to hand.

5.0: Children's session.

6.0: Dinner session—Columbia hour:

Ketelbey's Concert Orchestra, "In a Persian Market" (Ketelbey), (02689).

Violin—Efrem Zimbalist, "Liebesleid—Old Vienna Waltz" (Kreisler), (04221).

6.12: Tacet.

6.15: Morceau—Plaza Theatre Orchestra, "The Busy Bee" (Pendix), (01438).

Dance—Plaza Theatre Orchestra, "My Lady Dainty" (Hesse), (01438).

J. H. Squire Celeste Octet, "La Serenata" (Braga), (9116).

Kinema organ—G. T. Pattman, "Firefly" (Nicholls), (01348).

6.27: Tacet.

6.30: Columbia Symphony Orchestra, "March of the Toys" (Herbert), (02651).

New Concert Orchestra—"Hydropaten" Waltz (Gungl), (02672).

Violin—Efrem Zimbalist, "Zapateado" (Sarasate), (04221).

6.42: Tacet.

6.45: New Concert Orchestra, "Jolly Fellows" Waltz (Bruder), (02672).

J. H. Squire Celeste Octet, "Serenade" (traditional), (9116).

Eddie Thomas's Collegians, "Beautiful Ohio" (Earl), (02651).

6.56: Tacet.

7.0: News session.

8.0: Special presentation by the Dunedin Training College Choir of the sacred cantata, "Bethany" (by Williams), with orchestral accompaniment. Glees and Madrigals (unaccompanied). Conductor, Mr. J. Crossley Clitheroe.

Close down.

Friday, October 18

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, OCTOBER 18.

- 3.0 : Afternoon session—Selected studio items.
 4.0 : Literary selection by the Announcer.
 4.8 : Studio items.
 4.25 : Sports results to hand.
 5.0 : Children's session, conducted by Nod and Aunt Jean.
 6.0 : Dinner session—"Columbia Hour":
 London Symphony Orchestra, "Norwegian Dances" (Grieg): (1) (Allegro Marcato; (2) Allegretto Tranquillo; (3) Allegro Moderato alla Marcia (L1722/4).
 6.13 : Tacet.
 6.15 : London Symphony Orchestra, "Norwegian Dances" (Grieg): (4) (Allegro Molto (L1734).
 Pianoforte—Edward Isaacs, "Waltz in A Minor" (Chopin) (Regal G1045).
 Musical Art Quartet, "Hark, Hark, the Lark" (Schubert) (02779).
 6.27 : Tacet.
 6.30 : London Symphony Orchestra, "Prince Igor" Dance, No. 17 (Borodine) (L1811/2).
 6.43 : Tacet.
 6.45 : Violin—Joseph Szifeti, "Tijuca" (Brazilian Dance) (Darius-Milhaud, arrgd. C. Levy) (03628).
 Royal Philharmonic Orchestra, "Finale—Symphony No. 8 in F" (Beethoven) (L1905).
 6.57 : Tacet.
 7.0 : News and market reports.
 7.40 : Talk—Mr. W. G. E. Wheeler, "Esperanto."
 8.0 : Chimes.
 8.1 : Relay of concert from Lewis Bady Hall.
 8.30 : Studio concert:
 Instrumental—Studio Trio, "Trio in F," Op. 80—Fourth Movement (Schumann).
 8.36 : Recital—Mr. J. F. Montague, "From My Scrapbook" (MS.).
 8.46 : Soprano—Miss Millicent O'Grady, "Il Bacio" (Arditi).
 8.50 : Pianoforte—Miss Margot St. Lawrence Toner, "Scotch Poem" (MacDowell).
 8.55 : Lecture-recital—Mrs. D. Basham and Mr. A. Ripley, "Balfie," Part 1.
 9.10 : Weather report.
 9.13 : Cello—Miss Mollie Wright, "Cherry Ripe" (arrgd. Schott).
 9.17 : Recital—Mr. J. F. Montague, "Godiva" (Tennyson).
 9.25 : Soprano—Miss M. O'Grady, (a) "Rose Softly Blooming" (Ball); (b) "Vale" (Russell).
 9.32 : Instrumental—Studio Trio, "Three Miniatures" (Bridge).
 9.37 : Lecture-recital—Mrs. D. Basham and Mr. A. Ripley, "Balfie," Part 2.
 9.52 : Pianoforte—Miss M. St. Lawrence Toner, (a) "Romance" (Schumann) (b) "Valse in E Minor" (Chopin).
 9.58 : Philadelphia Symphony Orchestra, "Toccata and Fugue in D Minor" (Bach) (H.M.V. D1428).
 10.6 : Close down.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, OCTOBER 18.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 4.30 and 4.50 : Sports results to hand.
 5.0 : Children's session, conducted by Big Brother Jack.
 6.0 : Dinner session—"His Master's Voice Hour":
 Selection—De Groot and Piccadilly Orchestra, "The Merry Widow" (Lehar) (B2945).
 Violin—Fritz Kreisler, "Indian Love Call" ("Rose Marie") (Friml) (DA785).
 Waltz—International Concert Orchestra, "Amoureuse" (Berger) (Zonophone EF27).
 6.13 : Tacet.
 6.15 : New Mayfair Orchestra, "This Year of Grace" Selection (Coward) (EB37).
 Waltz—International Concert Orchestra, "Jolly Fellows" (Volstedt) (Zonophone EF27).
 6.27 : Tacet.
 6.30 : Selection—De Groot and Piccadilly Orchestra, "A Waltz Dream" (Strauss) (B2684).
 Violin—Fritz Kreisler, "Deep in My Heart, Dear" (Romberg) (DA785).
 Organ—Reginald Foort, "The Desert Song" (Romberg) (B2463).
 6.42 : Tacet.
 6.45 : Kaufman's Orchestra, "The Gipsy Baron" Selection, (Strauss) (C1393).
 Waltz—International Concert Orchestra, "Estudiantina" (Waldteufel) (Zonophone EF6).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. A. Varney, Secretary Wellington Cricket Association, "Cricket—and the Coming English Tour."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Raymond" (Thomas).
 8.9 : Soprano—Mrs. Amy Dunn, "Welcome, Happiest Moment" ("The Marriage of Figaro") (Mozart).
 8.13 : Baritone—Mr. R. Madigan, "Falstaff's Drinking Song" ("Merry Wives of Windsor") (Nicolai).

- 8.17 : Cello—W. H. Squire, "Slumber Song" (Squire) (Columbia L1759).
 8.21 : Recital—Mrs. Geo. Castle, "The Trooper's Defence" (Anon.).
 8.28 : Instrumental selection—Orchestra, "Madame Butterfly" (Puccini).
 8.36 : Contralto—Mrs. Emma Astill, "Ye Powers that Dwell Below" (Gluck).
 8.40 : Chorus—Miriam Licette, Francis Russell, Dennis Noble, Harry Brindley and chorus, Vocal Gems from "The Bohemian Girl" (Balfie).
 8.48 : Tenor—Mr. Stewart Nelson, "Siciliana" ("Cavalleria Rusticana") (Mascagni).
 8.52 : Selection—Orchestra, "I Pagliacci" (Leoncavallo).
 9.0 : Weather report.
 9.2 : Soprano—Mrs. Amy Dunn, Love and Music" ("La Tosca") (Puccini).
 9.6 : Instrumental—Orchestra, (a) "Serenade" ("Les Millions d'Arlequin") (Drigo); (b) "Pizzisato" ("Sylvia Ballet") (Delibes).
 9.16 : Recitals—Mrs. Geo. Castle, (a) "In the Crowd" (Wilcox); (b) "The Last Thing at Night" (Anon.).
 9.23 : Cello—W. H. Squire, "Sicilienne" (Faure) (Columbia L1759).
 9.27 : Sextette and chorus—"Lucia di Lammermoor—Sextet" (Donizetti) (Columbia 04025).
 9.31 : Contralto—Mrs. Emma Astill, "O Del Mio Dolee Adoro" (Gluck).
 9.35 : Selection—Orchestra, "The Fortune Teller" (Herbert).
 9.43 : Baritone—Mr. R. Madigan, "Ombra Di Mia Prosapia" ("La Gioconda") (Ponchielli).
 9.47 : Tenor—Mr. Stewart Nelson, "Your Tiny Hand is Frozen" ("La Boheme") (Puccini).
 9.51 : Instrumental—Orchestra, "The Dollar Princess" (Fall).
 10.1 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, OCTOBER 18.

- 3.0 : Afternoon session—Selected studio items.
 4.25 : Sports results to hand.
 5.0 : Children's session conducted by Uncle John.
 6.0 : Dinner session—"Columbia" Hour:
 Columbia Symphony Orchestra, "Poet and Peasant" Overture (Suppe) (02618).
 Band of H.M. Grenadier Guards, "In a Clock Store" (Orth) (9029).
 6.12 : Tacet.
 6.15 : Royal Serbian Tambouritzza Orchestra, "Kosovo Waltz" (Romani) (3066).
 Mandolin Band—Circolo Mandolinistico, "Carmen—Intermezzo" (Bizet) (0989).
 Columbia Symphony Orchestra, "Bandinage" (Herbert) (01092).
 Xylophone—Victor Sterling, "Colonel Bogey" March (Alford) (Regal G20103).
 6.27 : Tacet.
 6.30 : Australian Commonwealth Band, "Slidin' Thro' the Rye" (Hawkins) (01285).
 Kinema organ—Stanley Macdonald, "Was It a Dream?" (Coslow) (Regal G20401).
 Male voice choir—Sheffield Orpheus Choir, "There is a Tavern in the Town" (traditional) (01175).
 6.42 : Tacet.
 6.45 : Royal Philharmonic Orchestra, "Blue Danube Waltz" (Strauss) (04169).
 Madrid Symphony Orchestra, "Danza Espagnola" (Granados) (02802).
 6.55 : Tacet.
 7.0 : News session.
 8.0 : Chimes. Nigger Minstrel Programme.
 8.1 : Overture—"Blue Ridge Ramblers, (a) "Golden Slippers" (traditional), (b) "Old Joe Clark" (traditional) (Brunswick 313).
 8.7 : Bass solo and chorus—Mr. James Filer and Grand Opera Quartet, "Click, Clack" (Negro Plantation Song) (Scott Gatty).
 Soprano—Madame Gower-Burns, "Ma Curly-Headed Babby" (Clutsam).
 8.14 : Banjo—Len Fillis, "Uncanny Banjo" (Fillis) (Columbia 0990).
 8.17 : Mezzo-contralto and tenor duet—Miss Mavis Spiller and Mr. E. Rogers, "De Lady Moon" (Negro Plantation Song) (Scott Gatty).
 8.21 : Studio Octet under the conductorship of Mr. Harold Beck: Characteristic Valses—(a) "Valse Bohemienne," (b) "Valse Rustique," (c) "Valse de la Reine" (Coleridge-Taylor).
 8.29 : Tenor solo with chorus—Mr. E. Rogers and quartet, "De Ring-Tailed Coon" (Negro Plantation Song) (Scott Gatty).
 8.33 : Recital—Miss Winifred Smith, "Before and After" (Negro humour of a disappointed bride) (Scott Gatty).
 8.39 : Studio String Octet, (a) "At An Old Trysting-Place" (Macdowell), (b) "At Dawning" (Cadman), (c) "Valse Mauresque" (Coleridge-Taylor).
 8.47 : Mezzo-contralto solo and chorus—Miss Mavis Spiller and Quartet, "De Ole Banjo" (Negro Plantation Song) (Scott Gatty).
 Bass—Mr. James Filer, "Carry Me Back to Old Virginny" (traditional).
 8.53 : String Octet—Studio String Octet, "Plantation Holiday" (Seebold).
 9.1 : Weather report.
 9.3 : Soprano solo and chorus—Madame Gower-Burns and Quartet, "Far Away Ober Dere" (Scott Gatty).
 Bass with chorus—Mr. James Filer and Quartet, "Ding, Dong" (Scott Gatty).
 9.8 : Banjo—Len Fillis, "Banjoviality" (Fillis) (Columbia 0990).
 9.11 : Tenor—Mr. E. Rogers, "Come Where My Love Lies Dreaming" (Foster).
 Soprano and bass duet—Madame Gower-Burns and Mr. James Filer, "Hurry Up, Pompey" (Scott Gatty).
 9.17 : Studio String Octet, (a) "John Brown's Body," (b) "My Old Kentucky Home," (c) "Old Folks at Home," (d) "Turkey in the Straw" (Steppe, arrgd. Lake).

- 9.23: Recital—Miss Winifred Smith, "Uncle Moses Counting the Eggs" (Negro Humour) (MS.).
- 9.29: Accordion—Johnnie Sylvester, (a) "In the Good Old Summer-time," (b) "When You and I Were Young, Maggie" (Lawler and Blake) (Regal G20350).
- 9.35: Tenor with chorus—Mr. E. Rogers and Quartet, (a) "Our Dinah" (Scott Gatty), (b) "Good-night" (Scott Gatty).
- 9.42: "Columbia" Dance Programme:
Foxtrot—Kettner Five Orchestra, "I Can't Give You Anything But Love" (Fields) (Regal G20423).
Foxtrot—Ipana Troubadours, "'S Wonderful" (Gershwin) (01316).
Kettner Five Orchestra, "My Rock-a-Bye Baby" (Leslie), (Regal G20423).
- 9.51: Waltz—Paul Whiteman's Orchestra, "Where is the Song of Songs for Me?" (Berlin) (07015).
Waltz—The Cavaliers, "Lady Divine" (Shilkret) (01543).
Foxtrot—Roy Starita and Ambassador's Band, "I Just Roll Along" (Trent) (01338).
Foxtrot—Debroy Somers' Band, "The Egg Song" (Salisbury) (01523).
Foxtrot—Harry Reser's Syncopators, "I'm Wild About Horns on Automobiles" (Gaskill) (01543).
Foxtrot—Ted Wallace's Campus Boys, "Jericho" (Meyers) (01586).
Waltz—Paul Whiteman's Orchestra, "Blue Hawaii" (Barr) (07021).
Waltz—Piccadilly Band, "A Room With a View" (Coward) (01420).
- 10.15: Organ—Milton Charles, "Love's Old Sweet Song" (Molloy) (01161).
Foxtrot—Don Voorhee's Orchestra, "Ol' Man River" (Kern) (01406).
Foxtrot—Campus Boys, "I've Got a Feeling I'm Falling" (Link) (01586).
Foxtrot—Don Voorhees' Orchestra, "Can't Help Lovin' Dat Man" (Kern) (01406).
Foxtrot—All-Star Trio, "Perfume of Roses" (Donovan) (Regal G20493).
- 10.30: Vocal duet—Layton and Johnstone, "Carolina Moon" (Davis) (01550).
Foxtrot—Golden's Orchestra, "She's Got Great Ideas" (Tobias) (01159).
Foxtrot—Piccadilly Players, "I Lift Up My Finger and Say Tweet Tweet" (Sarony) (01595).
Waltz—Paul Whiteman's Orchestra, "My Angeline" (Wayne), (07020).
Waltz—The Cavaliers, "Underneath the Russian Moon" (Gusman) (01546).
- 10.45: Organ—Milton Charles, (a) "From the Land of the Sky Blue Water" (Cadman); (b) "At Dawning" (Cadman) (01161).
Foxtrot—Ambassadors' Band, "Wake Up, Chill'un, Wake Up" (Trent) (01595).
Foxtrot—Cafe Royal Band, "Me and the Man in the Moon" (Leslie) (Regal G20492).
Waltz—Stellar Dance Band, "Marie" (Berlin) (Regal G20486).
Waltz—Eddie Thomas' Collegians, "Billie" (Henderson) (01584).
- 11.0: Close down.

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

- 8 p.m.: Town Hall chimes.
- 8.1: Selected gramophone items.
- 4.25: Sports results to hand.
- 5.0: Children's session, conducted by Aunt Sheila.
- 6.0: Dinner session—His Master's Voice hour:
Royal Albert Hall Orchestra, "Carmen—Prelude, Act 1" (Bizet), (B461).
National Symphony Orchestra, "Sylvia Ballet—Cortege de Bacchus" (Delibes), (EB24).
Organ—Reginald Foort, "Schon Rosmarin" (Kreisler), (B2664).
- 6.12: Tacet.
- 6.15: Selection—Marek Weber's Orchestra, "La Tosca" (Puccini), (C1413).
National Symphony Orchestra, "La Traviata" (Prelude (Verdi), (EB24).
- 6.27: Tacet.
- 6.30: Selection—National Symphony Orchestra, "Bohemian Girl" (Balfe), (Zonophone A340).
Royal Albert Hall Orchestra, "Carmen—Prelude Act 2" (Bizet), (B461).
Organ—Reginald Foort, "A Brown Bird Singing" (Haydn), (B2664).
- 6.42: Tacet.
- 6.45: Selection—National Symphony Orchestra, "Aida" (Verdi), (Zonophone A340).
Selection—H.M. Coldstream Guards, "H.M.S. Pinafore" (Sullivan), (C1283).
- 6.57: Tacet.
- 7.0: News session.
- 7.30: Lecturette by Mr. H. Greenwood, librarian of the Dunedin Athenaeum—Book review.
- 8 p.m.: Town Hall chimes.
- 8.1: Relay from Waimate concert celebrating its Jubilee, and the 75th year of the occupancy of the white race.
March—Waimate Silver Band (under the conductorship of Conductor Vincent) "Call of the East" (Owen Thomas).
Waltz—Waimate Silver Band, "Thoughts" (Alford).
Vocal solos—Mr. Howard Foster, (a) "Toreador's Song" ("Carmen") (Bizet); (b) "Arose O Sun" (Del Riego).
Musical monologues—Miss Alice Meredith, (a) "Having it Out" (Kent); (b) "The Lesson of the Water Mill" (Andrew).
Vocal solos—Mr. John Borthwick (a) "There Was a Lad Was Born in Kyle" (Mudie); (b) "Green Grow the Rushes o'" (Lees).

- Violin—Mr. J. C. Hill, (a) "Romance in F" (Beethoven); (b) "Souvenir" (Drdla).
- Recital—Mr. Douglas Newall, "The Jubilee Ode of Waimate" (J. D. S. Roberts);
- Vocal solos—Miss Jessie Meriwyn Buchanan, (a) "Three Fishers Went Sailing" (Hulla); (b) "The Silver Ring" (Chaminade).
- Instrumental—Waimate Orchestral Society, under the conductorship of Conductor Manchester, "Lustspiel" Overture (Keler Bela).
- Vocal solo—Mr. J. C. Hill, "The Song of Waimate" (Scotney).
- Vocal solo—Mr. Charles Clarkson, "Prologue—I Pagliacci" (Leoncavallo).
- Cornet—Mr. F. Vincent, "Lucille" (Code).
- Vocal solos—Mr. Razell Wood, (a) "King Charles" (White); (b) "Onaway, Awake" (Coleridge-Taylor).
- Address on "Waimate," by His Worship the Mayor, Mr. G. Dash.
- Waimate Male Choir, under the conductorship of Mr. Charles Clarkson, in two selected numbers.
- Musical sketch—Mr. Forbes T. Wallace.
- Greetings to absent sons and daughters of Waimate—The Deputy Mayor, Mr. W. G. Paul.
- Vocal solo—Mr. A. Spears, "Friend o' Mine" (Sanderson).
- Selection—Salvation Army Band, under the conductorship of Conductor Thomas, "Thanksgiving" (Hawkes).

Saturday, October 19

1YA, AUCKLAND (900 KILOCYCLES).—SATURDAY, OCTOBER 19.

- 3.0: Afternoon session—Selected studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Studio items.
- 4.25: Sports results to hand.
- 4.30: Close down.
- 5.0: Children's session, conducted by Cinderella.
- 6.0: Dinner session—"His Master's Voice Hour":
Victor Symphony Orchestra, "Dance of the Hours" ("La Gioconda") (Ponchielli) (Zonophone BF12).
Quartet—Zonophone Minstrels, "Far, Far Away" (Scott Gatty) (Bono phone 1227).
- 6.12: Tacet.
- 6.15: Mayfair Orchestra, "Little Nellie Kelly" Selection (C118).
Banjo—Mario de Pietro, "Frisolous Joe" (de Pietro) (B2820).
- 6.27: Tacet.
- 6.30: Folk Dance Band, Two Country Dances, (a) "Mr. Beveridge's Maggot"; (b) "Jack's Maggot" (C1266).
Mandoline—Mario de Pietro, "Concert Mazurka" (Calace) (2820).
- 6.42: Tacet.
- 6.45: Hilo Hawaiian Orchestra, (a) "Moana Chimes"; (b) "Waikiki is Calling" (Zonophone 3811).
Victor Symphony Orchestra, "Light Cavalry Overture" (Von Suppe) (Zonophone 3613).
- 6.57: Tacet.
- 7.0: News and market reports—sports results.
- 8.0: Chimes.
- 8.1: Overture—Orchestra, "Stradella" (Flotow-Salabert).
- 8.9: Baritone—Mr. Fred Baker, "Roadways" (Lohr).
- 8.14: Mezzo—Miss Hope Asher, "Tact" ("Florodora") (Stuart).
- 8.18: Accordion—Jean Devey, "In a Persian Market" (Ketelbey) (Regal 20478).
- 8.21: Piano and vocal—Eric and Jack, (a) "Sally of My Dreams" (Kernell); "That's My Mammy" (Nelson).
- 8.28: Contralto—Mrs. B. Jellard, "The Carnival" (Molloy).
- 8.32: Vocal trio—The Snappy Three, (a) "The Wedding of the Painted Doll" (Brown); (b) "I Told Them All About You" (Friend).
- 8.39: Orchestra—Studio Orchestra, "Eastern Pictures" (Pratt): 1. Slave Dance; 2. Moonlight at the Tombs; 3. Feast of Ashura.
- 8.49: Yodeler—Harry Robinson, "Cuckoo Song" (tradit.) (Regal 20483).
- 8.52: Baritone—Mt. F. Baker, (a) "Harbour Night Song" (Squire); (b) "Uncle Rome" (Homer).
- 8.59: Weather report.
- 9.2: Orchestra—Studio Orchestra, "Gondoliers" (Sullivan-Godfrey).
- 9.12: Mezzo—Miss H. Asher, (a) "The Big Brown Bear" (Mana-Zucca); (b) "The Second Minuet" (Besley).
- 9.19: Piano—Eric and Jack, (a) "Happy Days and Lonely Nights" (Fisher); "Sonny Boy" (Jolson).
- 9.26: Novelty—Miniature Musical Comedy, "The Balcony Girl" (Simpson and Holt) (Columbia 02878).
- 9.34: Contralto—Mrs. B. Jellard, (a) "Melisande in the Wood" (Goetz); (b) "Give Me Youth and a Day" (Drummond).
- 9.41: Yodeler—Harry Robinson, "Rocking My Baby to Sleep" (Robinson) (Regal 20483).
- 9.44: Vocal—The Snappy Three, (a) "The Broadway Melody" (Brown); (b) "Blue Night" (Rollins); (c) "Jazz solo.
- 9.51: Orchestra—Studio Orchestra, "Latest Novelties."
- 10.0: "Parlophone" Dance Programme:
Foxtrot—Carolina Club Orchestra, "That's You, Baby" (Guttler) (2780).
Foxtrot—Gus Arnheim's Orchestra, "My Troubles are Over" (2781).

- Foxtrot—Gus Arnheim's Orchestra, "Avalon Town" (Grant) (2782).
 Foxtrot—Carolina Club Orchestra, "Walking with Susie" (Gottler) (2780).
 10.12: Novelty—Mendel's Mishpoche Band, "A Kosher Foxtrot Medley" (Pet-ticoat Lane) (2769).
 Foxtrot—Dorsey Brothers Orchestra, "Mean to Me" (Turk) (2781).
 Foxtrot—Harry Reser's Orchestra, "Wedding Bells" (Kahal) (2792).
 Waltz—Gus Arnheim's Orchestra, "I Can't Do Without You" (Berlin) (2782).
 Waltz—Souther Melody Artists, "When the World is at Rest" (Davis) (2787).
 10.27: Comedy—"North and South"—"Barnacle Bill the Sailor" (Robison) (2779).
 Foxtrot—Harry Reser's Orchestra, "Down Among the Sugar Cane" (Tobias) (2792).
 Foxtrot—Arthur Rosebery's Kit-Kat Band, "Nobody's Fault But Your Own" (2788).
 Waltz—Carolina Club Orchestra, "Underneath the Russian Moon" (Gusman) (2787).
 Waltz—Carolina Club Orchestra, "Coquette" (Berlin) (2784).
 10.42: Male chorus—Parlophone Melody Company, "Convivial Songs" (A2511).
 Foxtrot—Carolina Club Orchestra, "Honey" (Simons) (2784).
 Foxtrot—Arthur Rosebery's Kit-Kat Band, "That's What I Call Sweet Music" (2788).
 Foxtrot—Sam Lanin's Famous Players, "The Toymaker's Dream" (Golden) (2775).
 Foxtrot—Smith Ballew's Orchestra, "I Kiss Your Hand, Madame" (Erwin) (2785).
 11.0 : Close down.

2YA, WELLINGTON (720 KILOCYCLES).—SATURDAY, OCTOBER 19.

- 3.0 : Chimes of the G.P.O. clock.
 3.1 : Selected gramophone items.
 4.30 and 4.50: Sports results to hand.
 5.0 : Children's session, conducted by Uncle Toby and Aunt Gwen.
 6.0 : Dinner session—"Columbia" Hour:
 Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder" (Lander) (02750).
 Waltz—Johann Strauss and Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (02577).
 6.12: Tacet.
 6.15: Hawaiian Orchestra—(a) "Pua Roselani" (Rose of Maui) (King);
 (b) "Aloha-oe e Kulei" (King) (01288).
 Eddie Thomas' Collegians, "Waltz Medley" (Herbert) (02904).
 Pianoforte—Rudolf Friml, "The Song of the Vagabonds" (Friml) (01275).
 6.28: Tacet.
 6.30: Mandolin band—"La Traviata—Prelude Acts 1 and 4" (Verdi) (02566).
 Johann Strauss and Symphony Orchestra, "Artist's Life" Waltz (Strauss) (02577).
 6.42: Tacet.
 6.45: Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadows" (Ketelbey) (02695).
 Rio Marimba Band, "Dolores" Waltz (Waldteufel) (Regal G20344).
 Organ—Quentin McLean, "In a Chinese Temple Garden" (Ketelbey) (01291).
 Debroy Somers' Band, "A Community Medley" (arrgd. Somers) (02832).
 6.58: Tacet.
 7.0 : News session, market reports, and sports results.
 7.40: Lecturette—Mr. L. D. Haggett, "Burbank's Flower Experiments."
 8.0 : Chimes of the G.P.O. clock.
 8.1 : Overture—Orchestra, "Sounds from the Sunny South" (Isenman).
 8.9 : Vocal quartet—Melodie Four, "Uncle Ned" (Danskin).
 8.13: Mandola—Mr. Lad Haywood, "Foxtrot Medley" (MS).
 8.20: Baritone—Mr. R. S. Allwright, "Three for Jack" (Squire).
 8.24: Instrumental—Orchestra, "Nautical Scenes" (Fletcher).
 8.32: Humorous sketch—Mr. Cedric Gardiner and Miss Madge Freeman, "Switched" (Peach).
 8.39: Contralto—Miss Weno Tahiw, "Bird Songs at Eventide" (Coates).
 8.43: Victoria Trio—"The Prince" Waltz (Gallini) (Zonophone A343).
 8.47: Tenor—Mr. Frank Bryant, "I Heard You Singing" (Coates).
 8.51: Instrumental—Orchestra, request number.
 8.59: Weather report.
 9.1 : Vocal quartet—Melodie Four, request number.
 9.5 : Mandola—Mr. Lad Haywood, (a) "Slumber on, My Little Gipsy Sweet-heart" (Herbert); (b) "Girl of My Dreams" (Clapp).
 9.12: Bass—Mr. W. W. Marshall, "A Bandit's Life is the Life for Me" (Harper).
 9.16: Instrumental—Orchestra, (a) "Little Lead Soldiers" (Pierne); (b) "Captain Goodridge" (Hildreth).
 9.24: Humorous sketch—Mr. Cedric Gardiner and Miss Madge Freeman, "The Rabbits" (Peach).
 9.31: Victoria Trio, "La Sorella" Polka (Gallini) (Zonophone A343).
 9.35: Tenor—Mr. Sam Duncan, "Bonnie Mary of Argyle" (Nelson).
 9.39: Contralto—Miss Weno Tahiw, "Hine e Hine" (Te Rangī Pāi).
 9.43: Organ—Stanley Macdonald, "Nicolette" (Batten) (Regal G20401).
 9.46: Vocal quartet—Melodie Four, "Eileen Alannah" (Thomas).
 9.50: Instrumental—Orchestra, Dance Novelties.

- 10.0 : "Parlophone" dance programme:
 Foxtrot—Sam Lanin's Orchestra, "The Toymaker's Dream" (Golden) (A2775).
 Foxtrot—Hall's Sugar Babies, "She only Laughs at Me" (Hall) (A2734).
 Waltz—Dajos Bela Orchestra, "Danube Waves" (Ivanovici) (A2829).
 Waltz—Gus Arnheim's Orchestra, "I Can't Do Without You" (Berlin) (A2782).
 10.12: Cinema organ solo—"The Mill in the Black Forest" (Ellenberg) (A2810).
 Foxtrot—Sam Lanin's Orchestra, "Susanna" (Williams) (A2790).
 Foxtrot—Dorsey Brothers' Orchestra, "I'll Never Ask for More" (Turk) (A2827).
 Waltz—Darewski's Melody Band, "Always the Same Sweet Pal" (Weinberg) (A2841).
 Waltz—Carolina Club Orchestra, "I'll Always be in Love With You" (Ruby) (A2812).
 10.27: Tenor—Murray Stewart, "I Kiss Your Hand, Madame" (Erwin) (A2762).
 Foxtrot—Six Nite Lites, "Avalon Town" (Grant) (A2782).
 Foxtrot—Harry Reser's Jazz Pilots, "Down Among the Sugar Cane" (Tobias) (A2792).
 Hawaiian—Kalama Quartet, "Neapolitan Nights" (Zamecnik) (A2838).
 Waltz—Southern Melody Artists, "When the World is at Rest" (Fain) (A2787).
 Waltz—Carolina Club Orchestra, "Coquette" (Berlin) (A2784).
 10.45: Sporting review.
 11.0 : Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—SATURDAY, OCTOBER 19.

- 3.0 : Afternoon session—selected gramophone items.
 4.25: Sports results to hand.
 5.0 : Children's session, conducted by Aunt Pat, Jack Frost, and Sunny Jim.
 6.0 : Dinner session—"His Master's Voice" Hour:
 New Light Symphony Orchestra, "Spring Song" (Mendelssohn) (Zonophone EB111).
 New Light Symphony Orchestra, "Barcarolle—Tales of Hoffman" (Offenbach) (B2377).
 Grand organ—Edwin Lemare, "Aloha-oe" (Lilulokalani) (Zonophone EE93).
 Reginald King's Orchestra, "The Song I Love" (De Sylva) (B2903).
 6.12: Tacet.
 6.15: Chicago Symphony Orchestra, "Roses of the South" (Strauss) (D1452).
 New Light Symphony Orchestra, "Just a Memory" (De Sylva) (EB18).
 Whiteman's Concert Orchestra, "Show Boat" Selection (Kern) (C1505).
 6.27: Tacet.
 6.30: Hawaiian—Hilo Hawaiian Orchestra, "Song of Hawaii" (Bories) (EA276).
 Waltz—The Troubadours, "Beggars of Life" (Brennan) (EA441).
 De Groot and Piccadilly Orchestra, "Friend o' Mine" (Sanderson) (B285).
 Foxtrot—Paul Whiteman's Orchestra, "Mississippi Mud" (Barria) (EA429).
 6.42: Tacet.
 6.45: Male voices—Savoy Orpheans, "Lido Lady" Selection (Rodgers) (C1310).
 Victor Concert Orchestra, "In a Monastery Garden" (Ketelbey) (Zonophone EF7).
 6.57: Tacet.
 7.0 : News session.
 7.30: Sports results to hand.
 8.0 : Chimes.
 8.1 : Overture—National Symphony Orchestra, "Martha" (Flotow) (H.M.V. EF19).
 (Kinkel).
 Tenor—Mr. J. Hinton, "The Devout Lover" (White).
 8.17: String octet—Studio Octet, "Vienna Life" Valse (Strauss).
 8.27: Songs at piano with ukulele—Joyous Pair, (a) "A Precious Little Thing Called Love" (Coots); (b) "Underneath the Russian Moon" (Gusman).
 8.31: Pianologue—Mr. Noel Newson, "At the Dentists—Having a Tooth Out" (with descriptive music) (own arrgmt.).
 8.36: Baritone—Mr. Fred A. Bullock, "Serenade" (Brahms).
 Sea-chanties—Cathedral Male Quartet, (a) "John Goes to Hilo"; (b) "Blow the Man Down" (arrgd. Terry).
 8.43: Studio Instrumental Octet, "Wildflower" Selection (Youmans) (Harms).
 8.53: Humour—Mr. George Titchener, "Shopping" (Stanley).
 8.58: Accordion and xylophone—International Novelty Orchestra, "El Choclo" (Villoide) (H.M.V. EA364).
 9.1 : Weather report.
 9.3 : Studio Instrumental Octet, (a) "Ave Maria" (Bach-Gounod); (b) "Edelweiss Gavotte" (Tourbie).
 9.11: Tenor—Mr. J. Hinton, "The Snowy Breasted Pearl" (Robinson).
 9.15: Pianologue—Mr. Noel Newson, "The Umpteen Serial" (with descriptive music) (Kirby).

- 9.23: Male quartet—Cathedral Male Quartet, "Bird Songs at Eventide" (Coates).
- 9.26: Intermezzo—International Concert Orchestra, (a) "Lazy Pete" (Werner); (b) "Parade of the Wooden Soldiers" (Jessell).
- 9.32: Baritone—Mr. Fred A. Bullock, (a) "Had a Horse" (Korby); (b) "Good Wine" (Korby).
- 9.37: Studio Instrumental Octet, (a) "You Were Meant for Me" (Berlin); "Marie Waltz" (Berlin); (c) "Making Whoopee" (Kahn).
- 9.45: Tenor and baritone duet—Cathedral Duo, "Army and Navy" (Ciok).
- 9.49: Humorous patter—Mr. George Titchener, "As Long as I've Got the 'Eart'" (Gilbert Wells).
- 9.54: International Novelty Orchestra, "Y Como Le Va" (Valverde) (H.M.V. EA364).
- 9.57: Quartet—Cathedral Male Quartet, "Highland Laddie" (Terry). Songs at piano with ukulele—Joyous Pair, (a) "The Sun is at My Window" (Meyer); (b) "Louise" (Whiting).
- 10.0: "His Master's Voice" Dance Programme:
Foxtrot—Shilkret's Orchestra, "Jimmy Valentine" (Madden) (EA475).
Foxtrot—Slaker Pennsylvanians, "It Goes Like This" (Caesar) (EA446).
Foxtrot—George Olsen's Music, "Old Man Sunshine" (Dixon) (EA422).
Foxtrot—Arcadians Dance Orchestra, "Blue Bird, Sing Me a Song" (Davis) (Zonophone 5201).
- 10.12: Vocal solo—Johnny Marvin, "Some Sweet Day" (Shilkret), (EA573).
Foxtrot—Vallee's Connecticut Yankees, "The One That I Love Loves Me" (Turk) (EA565).
Foxtrot—Hylton's Orchestra, "The Toymaker's Dream" (Golden) (EA578).
Waltz—Hilo Hawaiian Orchestra, "Blue Hawaii" (Baer) (EA574).
Waltz—Hilo Hawaiian Orchestra, "Sparkling Waters of Waikiki" (Davis) (EA574).
- 10.28: Vocal solo—Percy Nicholls, "Serenata" (Toselli).
Foxtrot—Hylton's Orchestra, "Ever So Goosey" (Butler) (EA578).
Foxtrot—Arcadians Dance Orchestra, "My Inspiration is You" (Nicholls) (Zonophone EE126).
Foxtrot—Rhythm Band, "A Room With a View" (Coward), (EA471).
Waltz—Connecticut Yankees, "Underneath the Russian Moon" (Kendis), (EA565).
Waltz—Troubadours, "Beggars of Life" (Brennan) (EA441).
- 10.46: Vocal solo—Vaughan de Leath, "Old Fashioned Lady" (Silver) (EE164).
Foxtrot—George Olsen's Music, "Making Whoopee" (Kahn) (EA498).
Foxtrot—George Olsen's Music, "I'm Bringing a Red, Red Rose" (Kahn) (EA537).
Foxtrot—Connecticut Yankees, "Deep Night" (Vallee) (EA514).
Foxtrot—Connecticut Yankees, "Weary River" (Clarke), (EA514).
- 11.0: Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SATURDAY, OCTOBER 19.

- 3 p.m.: Town Hall chimes.
- 3.1: Afternoon session—Selected gramophone items.
- 4.25: Sports results to hand.
- 5.0: Children's session, conducted by Uncle George.
- 6.0: Dinner session—His Master's Voice hour:
Piccadilly Orchestra, (a) "My Beloved Gondolier" (Tibor), (b) "Souvenir de Capri" (Becca), (B2575).
New Light Symphony Orchestra, "Just a Memory" (De Sylva), (EB18).
Violin and kinema organ—Elsie Southgate, "I Hear You Calling Me" (Marshall), (Zonophone 5100).
- 6.12: Tacet.
- 6.15: Marek Weber's Orchestra, "Pot-pourri of Waltzes" (Robrecht), (C1544).
Hilo Hawaiian Orchestra, "Sweet Hawaiian Dream Girl" (Williams), (Zonophone EE156).
- 6.26: Tacet.
- 6.30: New Light Symphony Orchestra, "Scene de Ballet Marionettes" (Glazounov), (B2754).
Violin and kinema organ—Elsie Southgate, "Rose in the Bud" (Tate), (Zonophone 5100).
New Light Symphony Orchestra, "Persiflage" (Francis), (B2754).
Jack Hylton's Orchestra, "When the White Elder Tree Bloom Again" (Doelle), (C1616).
- 6.44: Tacet.
- 6.45: Salon Orchestra, "My Blue Heaven" (Whiting), (EB18).
Hilo Hawaiian Orchestra, "Sleepy Honolulu Town" (Eail), (Zonophone EE156).
Jack Hylton's Orchestra, "I Kiss Your Hand, Madame" (Erwin), (C1616).
- 6.56: Tacet.
- 7.0: News session.
- 8.0: Relay of 3YA, Christchurch (vaudeville programme).
- 10.0: Dance programme.
- 10.0: "His Master's Voice" Dance Programme:
Foxtrot—Johnny Hamp's Kentucky Serenaders, "I Tell Head Over Heels in Love" (Thayer) (EA492).
Foxtrot—George Olsen's Music, "Makin' Whoopee!" (Donaldson) (EA493).
Foxtrot—Jean Goldkettes' Orchestra, "I Kiss Your Hand, Madame" (Erwin) (EA519).
Foxtrot—Jack Hylton's Orchestra, "Thinking of You" (Ruby) (B5612).

- 10.12: Vocal with guitar—Jimmy Rodgers, "My Old Pal" (Rodgers) (Zonophone EE150).
Foxtrot—George Olsen's Music, "Where the Shy Little Violets Grow" (Warren) (EA503).
Foxtrot—Rhythmic Eight, "Don't Be Like That" (Pinkard) (EE157).
Foxtrot—George Olsen's Music, "I Faw Down an' Go Boom" (Stevens) (EA490).
Waltz—Arcadians' Dance Orchestra, "Anita" (Clare) (Zonophone EE154).
Waltz—The Troubadours, "Carolina Moon" (Burke) (EA494).
- 10.30: Accordion solo—P. Frosini, "Silver Moon" (Frosini) (Zonophone EE129).
Foxtrot—Novelty Orchestra, "Echoes of Ireland" (arr. Lange) (5066).
Foxtrot—Rhythmic Eight, "There's a Rickety Rackety Shack" (Turk) (Zonophone EE84).
Foxtrot—Devonshire Restaurant Dance Band, "At the End of an Irish Moonbeam" (Golden) (Zonophone EE84).
Waltz—Novelty Orchestra, "Irish Waltz Medley" (arrgd. Lange) (5066).
- 10.45: Vocal novelty—Dalhart and Robison, "O Dem Golden Slippers" (EA226).
Foxtrot—Zez Confrey's Orchestra, "Jumping Jack" (Smoley) (EA495).
Foxtrot—Jack Hylton's Orchestra, "Wedding of the Painted Doll" (Brown) (EA571).
Foxtrot—Leo Reisman's Orchestra, "Josephita" (Green) (EA545).
Waltzes—Hilo Hawaiian Orchestra, (a) "Sleepy Honolulu" (Warren); (b) "Sweet Hawaiian Dream Girl" (Warren) (Zonophone EE156).
- 11.0: Close down.

Sunday, October 20

1YA, AUCKLAND (900 KILOCYCLES).—SUNDAY, OCTOBER 20.

- 3.0: Afternoon session—Selected studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Studio items.
- 6.0: Children's session conducted by Uncle Leo.
- 6.55: Relay of service from Auckland Unitarian Church (Preachers, Rev. Wilma L. Constable and Rev. Wm. A. Constable, M.A.; Organist, Mr. W. H. Wood).
- 8.30 (approx.): Studio Concert:
Herman Finck's Orchestra, "Schubertiana" (arrgd. Finck) (Columbia 02721).
Soprano—Miss Reta McCullay, (a) "Home o' Mine" (Murdoch), (b) "Land o' the Leal" (Nairne).
Pianoforte—Percy Grainger, "Country Gardens" (Grainger) (Columbia 03620).
Bass-baritone—Mr. A. Gibbons Taylor, "Se Il Rigor" (Halevy).
Cello—Miss Mollie Wright, "Sonata" (Valentini).
Soprano—Miss R. McCullay, "Sleep and the Roses" (Bowles).
Orchestra and chorus—"La Polonaise" (Moussorgsky) (Columbia 02799).
Bass-baritone—Mr. A. G. Taylor, (a) "Il Lacerato Spirito" (Verdi), (b) "Night" (Claepius).
Cello—Miss M. Wright, "Reverie" (Dunkler).
Recital—Bransby Williams, "The Difference" (Longstaffe) (Columbia 01178).
Band of H.M. Grenadier Guards, "The Princess of Kensington" Selection (German).
- 9.30 (approx.): Close down.

2YA, WELLINGTON (720 KILOCYCLES).—SUNDAY, OCTOBER 20.

- 3.0: Afternoon session.
- 4.30: Close down.
- 6.0: Children's song service, conducted by Uncle George.
- 7.0: Relay of service from St. Andrew's Presbyterian Church—Preacher: Rev. R. Howie, B.A. Organist and Choirmaster: Mr. Frank Thomas.
- 8.30: Relay from Palmerston North of concert organised by Mr. J. A. Nash, M.P., and Mr. F. Jackson, in aid of funds for relief of unemployment.
- Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES).—SUNDAY, OCTOBER 20.

- 3.0: Afternoon session—Selected studio items.
- 4.30: Close down.
- 5.30: Children's song service (children of the Anglican Sunday Schools).
- 6.15: Hymn chimes from Studio.
- 6.30: Studio Programme:
Instrumental—Studio Trio, "Trio in A Minor—(a) Allegro, (b) Appassionata, (c) Presto" (Lalo).
- 6.42: Organ—Arthur Meale, (a) "Pilgrim's Song of Hope" (Batiste), (b) "March on a Theme by Handel" (Guilmant) (H.M.V. C1277).
- 6.50: Philadelphia Symphony Orchestra, "Toccata and Fugue in D Minor" (Bach) (H.M.V. D1428).
- 7.0: Relay of service from Christchurch Anglican Cathedral (Preacher, Rev. E. C. Crosse; Organist and Musical Director, Dr. J. C. Bradshaw).

Retrospection

A Tribute to Present Standards

NO doubt there are hundreds of others throughout New Zealand, like myself, who often wonder what must be in the minds of many listeners who write in condemning programmes, announcers, and methods of the Broadcasting Company. Exactly what is it these dissatisfied ones expect?

Take the first-mentioned growl, "Programmes." The writer has been connected with radio since it became popular here. In the early days there was practically no broadcasting worth mentioning. Radio sets were of poor design, and required great patience in operating, and it was considered a great feat to receive a full programme through from any station in one evening. The first machine I possessed was a two-valve De Forest, for which I paid the modest sum of £60. I can remember the time when with this machine old 2YK, Wellington, was just audible, and we would sit round hardly daring to breathe for fear someone might upset the tuning and lose the item we were listening to.

The programmes then were practically all gramophone records, and poorly reproduced. As time went on programmes improved and became more numerous till they have developed into the remarkable stage reached to-day.

Take all the complaints that have been received, and I venture to say that not one of these growlers ever listened to a programme in the days above referred to. Again, I think I can safely say that every seasoned listener who can trace his first connection with radio back to, say, 1923 or 1924, is more than satisfied with present-day standards. It is only those who have been associated with radio for four years or more who can really appreciate the wonderful strides that have been made in the programmes.

I have been connected with the retail side of radio for years, and have

installed machines totalling well over three figures. This has brought me into contact with every class of the community, and has done more than any other way towards making me realise the many tastes to which the Broadcasting Company have to cater.

I have gone in one evening direct from one home where jazz items were not tolerated to another where, as soon as a really good orchestral item came through, the dials were turned again for more jazz. Both these tastes have to be catered for. The R.B.C. cannot transmit jazz only and ignore the other class, who desire better music. Nor can they indulge in high-class musical programmes and offend the ears of those who cannot appreciate the better music.

For a listener and his wife to spend an evening at the talks the cost may be anything up to 10s. for the evening's entertainment. Yet for the huge sum of 1d. per night many can find hardly an item to satisfy them on an evening's broadcast programme.

The R.B.C. is working wonders in the way of providing better and better programmes, and if the views of the 40,000-odd listeners in this country were made available, probably 35,000 would have hardly a growl. Why, it is hardly worth the R.B.C. considering the other 5000.

Some few months back I had the pleasure of a two hours' personal chat with Mr. Harris, of the R.B.C. That conversation opened my eyes to the difficulties that beset any concern catering to the tastes of the community, and I came away satisfied that the R.B.C. was doing all in its power to provide pleasure and information for all.

Concerning the announcers, I have never, in my experience of radio, heard better. During the last two years I have heard the announcers of many countries, and have yet to hear a finer announcer than Mr. Drummond, of 2YA. If Mr. Drummond were removed to make way for someone else, I daresay 75 per cent. of the radio listeners would protest.

If any listener is still in doubt, all I can say is invest in a short-wave set and listen to overseas programmes,

and it will then take very little convincing as to the high-class of announcer employed in New Zealand.

Constructive criticism is always welcomed. Destructive criticism makes it harder for the R.B.C. to carry out its work. Let those who criticise, before they post their letters, just think for one moment if they could really improve on the programmes themselves, if they would make better announcers themselves, also, what better and more varied entertainment of up to 70 items could be heard anywhere in one evening for 1d. or even 50 times that amount, if they would just give a little more thought to these points, perhaps most of these growls would never find their way into print.

Radio is one of the wonders of the age, and instead of continually pulling the R.B.C. to pieces, we should be thankful that for the insignificant sum we now pay we are privileged to enjoy the wonders of this modern marvel.—"Well Satisfied" (Gisborne).

Increased Efficiency

An Earthing Improvement

A NOVEL earth, and one that gives excellent results, may be made from 6 feet or so of copper gas tubing, about $\frac{1}{2}$ inch in diameter. With a fine bradawl, pierce small holes in the whole length of tubing, then form it into a spiral coil about 6 inches in diameter, and bury it with one end just protruding. To this end the earth lead is soldered. The edges of the tube are then hammered out into a small funnel, into which water may be poured from time to time.

Grooving Coil Formers

GROOVING ribbed or skeleton coil formers makes it easier to place on spaced windings without risk of the turns slipping. If the grooves are cut with a saw, it is difficult to space them evenly. A good tool with which to perform this operation can be made easily with a small-toothed wheel taken from a clock or similar mechanism. The wheel is mounted in a holder, and is warmed before running it along the ebonite. If a fairly strong pressure is applied, the teeth will make evenly-spaced indentations, thus enabling the constructor to wind his coils with a minimum of difficulty.

Adjusting Grid Bias

GRID bias batteries should never be adjusted with the set switched full on, as damage to the power valve is likely to result. As soon as the grid bias plug is removed there is no check on the anode current, and emission may be lost, thus injuring the valve. When emission is spoilt, hardly any electrons are emitted from the filament, and consequently anode current and therefore signals, will be weak.

Valve Base Coils

For Short Wave Work

A NEAT and effective way of constructing short-wave coils which are very convenient in use, is as follows. Take an old burnt-out valve, preferably one with an "anti-capacity" base, and, by working the bulb and base about, detach the two. The necessary turns for the different wavelength bands are now wound on the base. For the 20-metre band (15,000 k.c.) the grid winding, whose ends are fastened to the grid and anode pins, consists of six turns of No. 24 d.c.c., and the reaction windings, connected to the other two pins, of six turns of No. 36. For the 30-metre band (10,000 k.c.) a fifteen-turn grid coil and a six-turn reaction coil, both of the gauge mentioned previously, will be suitable.

It is not absolutely necessary to space the turns of the grid windings. In fact, if two coils are made up, one spaced and the other not, it is remarkable what little difference is found between their performances.

The valve-holders used as coil mounts should be of the anti-capacity type, and should also be of the very best quality. Tappings for aerial connections are quite easily incorporated by twisting small loops at the required turns, and arranging these so that they are staggered. A crocodile clip attached to the grid terminal can now be connected to any one of these with the greatest of ease. A complete set of these coils to cover the different frequency bands is very easily constructed, and the greatly increased convenience obtained by their use more than compensates for the short time spent on their construction.

WANTED AND FOR SALE.

For column of casual advertisements see page 32.

8.20 (approx.): Vienna Philharmonic Orchestra, "Symphony No. 6 in F Major—First Movement, Allegro ma non Troppo" (Beethoven) (H.M.V. D1473).

8.30: Rebroadcast of 2YA, Wellington (relay from Palmerston North of concert organised by Mr. J. A. Nash, M.P., and Mr. F. Jackson in aid of funds for the relief of unemployment).

Close down.

4YA, DUNEDIN (650 KILOCYCLES).—SUNDAY, OCTOBER 20.

3.0 : Town Hall chimes.

3.1 : Selected gramophone items.

4.30: Close down.

5.30: Children's song service conducted by Big Brother Bill.

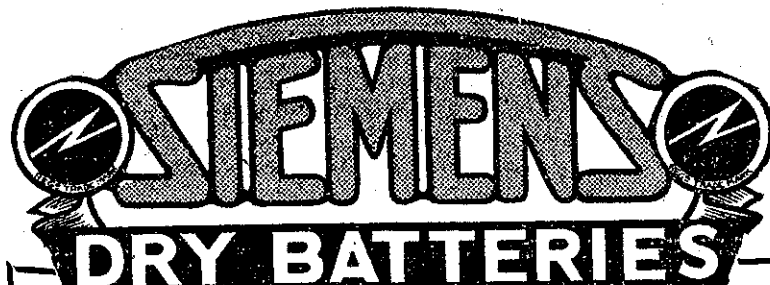
6.30: Relay of service from Moray Place Congregational Church (Preacher, Rev. Albert Mead; Organist, Mr. McMillan; Choirmaster, Mr. Towns).

8.0 : Relay from Empire Theatre of service conducted by the Combined Churches. Preacher: Rev. Lionel B. Fletcher.

Close down.

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Questions and Answers



Fumes from an Accumulator.

I WISH to use an accumulator in my bedroom, states "H.C." (Wellington), are the fumes dangerous?

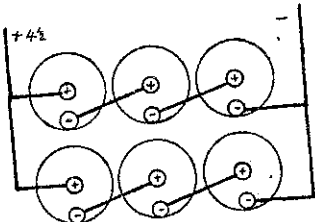
A.: When discharging, an accumulator gives off hydrogen and oxygen. These are not harmful, but hydrogen is inflammable, so that it would not be safe to smoke in bed and dust the ash too near the cells. Similarly one would have to be careful of stray matches. Barring these observations there is little danger.

Concerning Dry Batteries.

"H.D." (Kilbirnie) asks the following questions relative to the improvement of the battery system of his set:—

1. How to efficiently connect up dry cells for the "A" battery.

A.: The best method is by series parallel. This arrangement keeps the voltage the same, but doubles the capacity, giving the battery probably three times greater life. A diagram is included showing how a 4-volt bank would be arranged.



2. How to insert a "C" battery cell in the circuit of a 2-valve set.

A.: Examine the last audio transformer and it will be seen that there

is a terminal labelled "GB," "F—" or "C." A lead from this in an unbiased stage goes to filament negative. Disconnect this and take it instead to the negative terminal of a small battery the voltage of which is equivalent to the bias to be applied. In a 2-valve set this would not be more than about 4.5. Take the positive of this battery to "A.—"

Set Fails to Get Certain Stations.

ALTHOUGH my set can receive a large number of stations, I cannot get 3AR and 2BL, writes "K.V.B." (Wanganui). I have a long aerial and can get 3UZ and 3LO.

A.: Does the correspondent mean that he can hear these stations, but that he cannot get them at satisfactory strength, or does he mean that the set goes dead when tuned to their frequency? In the former case little if anything can be done, the failure being put down to locality effect. In the latter case it appears as though the condenser vanes are touching and causing an internal short circuit, making the set go dead. Examine the condensers for dust and closeness of the vanes.

Valve Combinations.

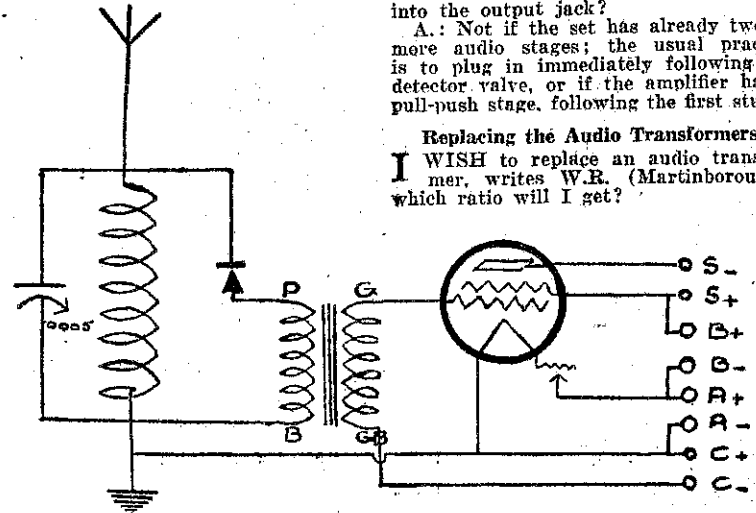
I HAVE an American factory-made set, writes "Cockey" (Taranaki), and I am using PM6 in all stages. Could I improve my set by using PM6D as detector or by using a pentode in the last stage?

A.: PM6 is a semi-power valve and should not be used in all stages. Use PM5 in R.F. and first audio and PM6D as detector. The introduction of a pentode in the last stage will certainly strengthen the weaker stations.

Crystal and Amplifier.

COULD I add an amplifier to my crystal set? asks W.D.K. (Dunedin).

A.: The accompanying sketch shows the manner in which this may be brought about. Probably the adaptation of your set to the one in the diagram would be an advantage. If you do not wish to make this alteration simply add the amplifier to the two terminals of the 'phones. An ordinary valve may be substituted for the tetrode (A441) shown in the diagram. We have returned your diagram suitably inscribed.



Voltage Tappings on an Eliminator.

THE voltages are not given on my new eliminator, states T.G. (Silverstream). Could you give me approximate readings of these.

A.: "B" +, 150 volts at 25 mas.

Detector as follows:—

Tap 1: 22 volts at 5 mas. or 40 volts at 2 mas.

Tap 2: 45 volts at 5 mas. or 80 volts at 2 mas.

Tap 3: 60 volts at 5 mas. or 100 volts at 2 mas.

It will be seen that when an average detector is used the voltage will be about 30. If further breaking down is required, insert a veritable resistance in the detector lead, and put in a by pass detector between it and "B"—a suitable fixed resistance would be 500 ohms fixed.

Transforming a Set.

CAN you give me the information as to how I might transform a set with an eliminator built for 110 to 125 volts AC, 25 to 50 cycles, to work off 230 volts 50 cycles?—Harmonik (Tauranui).

A.: Construct a transformer with a primary built to take 230 volts 50 cycles, and to deliver 125 volts. Such a transformer has been described in the "Radio Listeners' Guide." The difference in frequency will not be a detriment to the working of the set. For the guidance of the constructor the following is an extract from the "Guide": Core, 1 x 1 inch primary turns, 1850 wire, 26-32 SWG. Secondary 1000 turns. Turns per volt, 8.5.

Efficiency of Push-Pull.

"RADIO" (Hastings) asks the following questions relative to the use of two 171A's in push-pull.

(1) Would two of these valves in push-pull require twice the amount of current, bias and voltage of a single valve?

A.: See our article in the special issue. The voltage will remain the same, the bias may be the same or double, according to the operating principle adopted by the user, the plate current will be double that of one, while the output will be three times as great.

(2) Could a standard amplifier be worked directly from the set by plugging into the output jack?

A.: Not if the set has already two or more audio stages; the usual practice is to plug in immediately following the detector valve, or if the amplifier has a pull-push stage, following the first studio.

Replacing the Audio Transformers.

I WISH to replace an audio transformer, writes W.R. (Martinborough), which ratio will I get?

A.: A 3½ or 4 to 1 value is not critical. Purchase a small first grade transformer.

2. Can I use a pentode valve in the last stage without altering the wiring?

A.: Simply plug the pentode into the last socket and connect the auxiliary terminal to the highest "B" voltage available.

A Prohibited Circuit.

IS this a prohibited circuit? asks F.J.M. (Pahiataua) of an enclosed circuit.

A.: Yes. The grid of the first valve is connected directly to the aerial. It would be permissible to use this off the loop or if the aerial was brought in to the aerial coil, say at the eighteenth turn.

Batteries run down Rapidly.

MY batteries are running down far too rapidly, complains D.E.B. (Whakatanane). I have inspected the set and cannot find a short circuit. There is a fixed condenser between "B" + and the ground. If I disconnect this condenser the set seems to go better, though it howls if I turn the filaments too high. Can you procure for me a diagram of the set?

A.: It appears that the condenser has been punctured, and that "B" + is connecting directly with the ground. This would cause the batteries to run down very rapidly. The howling when the condenser is disconnected would indicate that the neutralisation is affected by this defective condenser. The rupture may be only partial, resulting in a high resistance connection, so that the condenser is partly functioning. Other than testing the condensers by the voltmeter battery (or 'phones and cell) test little

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can be done by the correspondent himself. We cannot supply the circuit of a trade receiver.

Microphone Amplifier.

INTENDING to construct the microphone button amplifier, I should like constructional details of the 1 to 100 transformer, asks "H.L." (Wellington).

A.: This would not be satisfactory. This type of amplifier has gone out of date long ago, and you would be disappointed with the result. However, if you wish to make the transformer the following details should suffice. Obtain a set of standard stampings (Ballingers), and wind, say, 1000 turns of 42 gauge wire for primary. The secondary would be 100,000 turns of 46 wire. In the opinion of the writer this would be a waste of time and money.

Output Choke v. Transformer.

WHICH is the most satisfactory manner of operating the output of my set, asks "G.B." (Gisborne), as a choke by connecting the primary and the secondary and using the centre as a centre tap, or, as a straight out transformer.

A.: Using the centre has one or two serious limitations. The secondary has probably finer wire than the primary, hence the impedance would be different. This would cause unbalance. The higher impedance on the secondary would no doubt be the cause of uneven plate voltage while with current passing through the secondary would probably burn it out before long. The transformer would be alright in the interval stage of the set, but all the amplification would be in the valve itself. The ratio would no doubt be one to one.

Valve Base Coils.

ARE coils wound on the bases of valves as efficient as those on a three-inch former?—Wavemeter (Blenheim.)

A.: Theoretically, no; but the greater convenience of these wins them favour in all recent types of sets. Actually there is little difference between the operating efficiency of a set of these and a set of the larger coils.

2. What are the specifications of a valve base coil to cover the broadcast band when tuned with a .00014 condenser?

A.: Two coils are necessary.

(a) To tune between 550 and 325 metres a winding of three inches of 32 s.w.g. d.s.c. (225 turns).

(d) To tune below 325 metres a winding $1\frac{1}{2}$ inches in length, approximately equal to 100 turns. If the base is not long enough, extend it by strips of celluloid.

3. Could you give me the details of a wave-meter?

(a) The publication of such details would, at the present stage, not warrant the space. The details can be found in "Radio Amateurs' Handbook," obtainable from radio booksellers, or failing them, from the Te Aro Book Depot, Wellington.

Power Line as Aerial.

LATELY 2YA has been coming in irrespective of tuning, states R.M. (East Coast). This does not affect reception, for I can receive the American stations.

(a) It appears that the mains are acting as an aerial. Place R.F. chokes in the back lines from the mains.

Adapting a Filament Winding to A.C.

HAVING made the original "B" eliminator, which, by the way, is giving excellent service, I now desire to use the filament wiring, provided but not in use, to operate an A.C. valve.—A.M.K. (Wellington.)

A.: The filament wiring can be used with a four-volt valve taking up to 3 amps. The introduction of an A.V. volt-meter would save an amount of trouble. Four-volt A.C. valves are at this time made only by Phillips. P.M. series are identical with the American. Use the indirectly-heated type (E415).

A New Invention

Home-made Records

A NEW German invention, by which hours of speech and music can be recorded very cheaply on a small, light apparatus, will very shortly be on the Continental market. The underlying principle is that instead of impressions being made on a given record by cutting or grinding, they are made by pressing. The finished cast is very similar to a gramophone record, and the diamond hammer used for recording the sound impressions is nothing but a pick-up device operated the wrong way about.

The main use of this invention will probably lie in the adoption of spoken, instead of written, communications. For this purpose, a material known as "Cellon" is used. This is a non-inflammable celluloid, and round discs of this material are placed on the turntable, the diamond hammer is set in position, and music or speech is recorded by means of a microphone. When the record is completed, it can be immediately played by means of an electrical pick-up and a loudspeaker. An ordinary gramophone may be used, though wear is greater, and reproduction is not so good.

The record may be rolled up and sent by post, or, if it is small enough, it may be sent by letter. The complete recording and reproducing apparatus does not cost more than a moderately priced radio receiver, and in the near future every business office will probably install this labour-saving device.

A New Regenaformer

I HAVE tried a new regenaformer on my four-valve N.Z.R. circuit, and as it seems to be a big improvement I thought some constructors might be interested enough to try it out for themselves. The new regenaformer is a 3 in 1 of 77 turns 26DSC wire (green), with a tickler of same wire (14 turns 26DSC) spaced 3 turns away from the big coil; in reality, it is a twin coupler, Cays plug in broadcast coil. It is a lower loss coil (no former) wire held together by celluloid cement. The plate coil is wound on a piece of celluloid with 30DSC S.W.G. 32 turns centre tapped. The tickler and plate are both at the filament end, the plate coil under the first turns of big coil. I get great results on my short-wave set when worked off the eliminator, smooth and clear and better than with B battery. Is this unusual.—J.H. (Houghton Bay).

[Some eliminators work short-wave sets excellently.—Tech. Ed.]

Care of Batteries

B BATTERIES should not be placed in an exposed position when in use, for not only does the dust which collects become detrimental after a time, but the accidental placing of a metallic object such as a knitting-needle on the battery might either ruin it or give rise to sparking.

A Constructor Suggestion

For Mutual Help

WOULD it be possible to organise the radio amateur constructors into district groups for the purpose of voluntarily assisting one another in matters of set-constructing, and assisting the beginners to put and keep their sets in order? The idea I have in mind is this: There are several enthusiasts in every district who have the inter-

ests of radio at heart, and who would, I feel sure, be only too pleased to help any beginner out of any constructional difficulties if the beginner could be brought into touch with the more experienced amateur constructor. I would suggest calling for any amateurs willing to help in this way per means of the YA stations. Perhaps a lecture on these lines would be a good way to start the thing going, and when it has been explained over the air, call for names to be registered in each district, of amateurs willing to help the good work. A beginner then could apply to his nearest helper to assist him out of any difficulty he may get into when building his set. All help to be strictly voluntary.

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HOSE who have not heard a good linen diaphragm loud-speaker do not know how good this type of speaker is. It is to be preferred to some of the poor makes of dynamic cones that over-emphasise the bass, and almost ignore the higher frequencies, thus losing all brilliance. The response curve of the linen diaphragm speaker has already been published in the "Record," and if carefully constructed, the speaker will be found to respond well to all musical frequencies. For volume with any given unit, it will be found superior to other magnetic type speakers, and its purity of reproduction will be found very pleasing. The absence of a paper diaphragm, tending to reduce very much the unwarranted frequencies, background noise and static, is the great feature of this type of set.

On the score of expense, this speaker is a good one to adopt, for the total expense of construction with a good unit is under £2. This is a very small sum when one considers the quality reproduction and vast amount of entertainment that will be derived from its use.

Silk Diaphragms.

THIS article is intended to be a brief one, merely to supplement previous specifications, and describes a very successful variation recently constructed by the writer.

Hitherto this type of speaker has been referred to as the "linen" diaphragm, but by using silk instead of linen, an improvement may be effected, producing thin but strong diaphragms that will, incidentally, be economical in the quantity of "dope" that they will absorb. The silk used is a creme shade of "heavyweight fuji," 28 or 30

Silk Diaphragms and Suspended Unit

(By "MEGOHM")

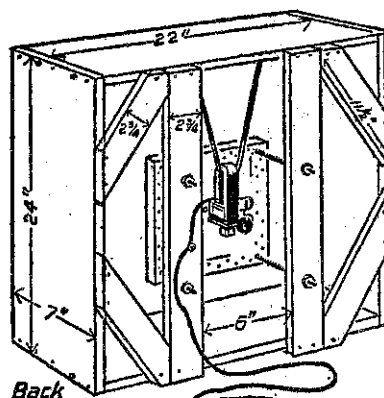
inches wide, costing from 3s. 6d. to 4s. 6d. per yard, only one yard being required.

The mixture with which each diaphragm is painted three times on one side, is composed of six fluid ounces of liquid acetone and three fluid ounces of amyl-acetate, which the chemist will put up in one bottle. This quantity is just sufficient. In it, motor-hood celluloid is to be dissolved, but the quantity of celluloid must not be great, or the solution will be too thick. It must run easily off the brush. If the celluloid is fairly stout, 25 to 30 mils, a piece six inches square may be ample, but the constructor must use his discretion. Each successive coat may be applied an hour or so after the previous one. Keep away from a naked light. The liquid evaporates quickly, so keep covered.

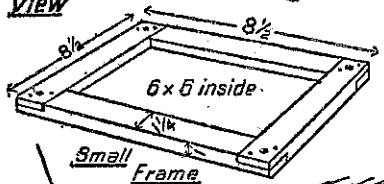
The Frame.

DIAGRAMS show clearly the construction of the frame of O.B. rimu or other soft wood, all 7-8 in. thick when dressed. The whole can be put together with 2 in. nails, but two 2 in. screws should afterwards be put in each of the four main corners. Glue in all joints is an advantage. Secure joints are necessary to prevent rattle, and the corner braces assist to this end.

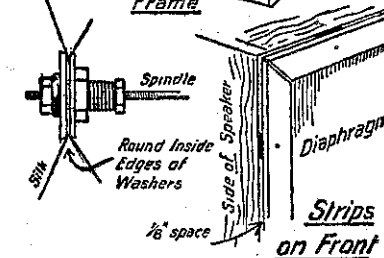
To cover the row of nails round the edge of the front diaphragm, a one-inch lath may be run, mitred at the corners. In order to prevent rattle, these strips are raised above the fabric one-eighth inch, by placing a small



Back View



Small Frame



square of cardboard this thickness at two points under each, securing the strip with a headless brad through both. At the mitres, place a piece of thin cardboard in the join while fixing, so that a slight space is left. Stain or shellac makes a good finish.

The threaded brass rod is 3-16 in diameter, and eight nuts are required. The final length of the rods is six inches, but it is convenient to have them longer when commencing to tighten up, afterwards cutting off the superfluous with a hack-saw. The diaphragms will require tightening after each application of celluloid solution, and may be adjusted afterwards as required, by means of the back nuts.

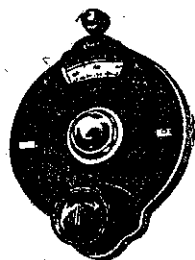
The nails securing the diaphragms should have good flat heads, and be placed not more than one inch apart in zig-zag formation, to reduce any tendency to split the wood.

The centre of each diaphragm is marked, and a large needle pushed through, gradually enlarging the hole without breaking any threads. The central connector may be a flush socket, not more than half-inch long. The hole will be too large for most spindles, so a short strip of paper half-inch wide is wrapped round the spindle and secured with seccotine when a good fit for the socket. Make a washer of thick paper to go between spindle-nut and socket, both back and front. Celluloid solution will fasten the nuts when finally adjusted.

Suitable Units.

If big volume is required, a good unit must be provided, the balanced-armature type being most suitable. Full effect of the deepest bass notes is best obtained by suspending the unit instead of fastening it rigidly to the frame. The writer finds this plan excellent, and construction is simplified. For this system the unit should not necessarily be heavy with regard to actual weight. The method of suspension must be suited to the particular unit. The 66 anchor type is very suitable. The illustration shows a new unit, 66P of which a sample has been forwarded to the writer, and which will be available in a few weeks' time.

A length of adhesive tape passes through the bend of the magnet, and is secured at each end of the top of the frame by a pair of strong drawing-pins. The position should be adjusted carefully, so that the spindle will swing in-and-out of the socket before the nuts are secured into place. This arrangement ensures that the deepest notes in any gramophone record may be well reproduced, provided that the amplifier handles them efficiently. Such a speaker is quite suitable for a receiver of almost any size up to two



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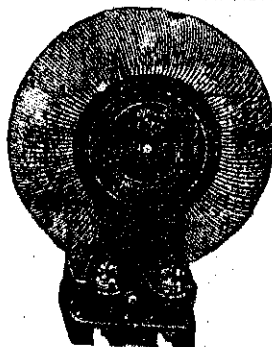
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large power valves in push-pull in the output stage.

When all is finished and adjusted, the centre of the front diaphragm will be pulled inwards about three inches, and the back one about an inch.

For the back corner-pieces, cut them 12½ inches long, afterwards sawing off corners as shown. The long side will then be about 11½ inches. The application of celluloid solution to the diaphragm is intended more to fill up the pores or interstices in the weaving, rather than to produce a hard surface of celluloid. Therefore, the application of solution should be in moderation, and by keeping it thin, an even coating will be assured. The surface will still be fabric, and not a shiny, unbroken one.

Matter concerning the linen diaphragm speaker was published on July 12 and July 26 last, but the writer considers that this variation in construction is simpler and better, because correct adjustment of tension may be effected at any time. By suspending the unit, all the vibrations are communicated to the diaphragm and not partly to the framework.

Winding Short-Wave Coils

THE right number of turns for a tuning coil to cover a particular range on the short waves is not easy to determine. The turn numbers for a given diameter of former are sufficiently standardised on the broadcast band, but no two people make their short-wave coils exactly alike. To find the correct number of turns for the main tuning coil for a particular range usually entails either a good deal of "trial and error" work, or the making of a tapped coil, both processes being rather troublesome.

One method of surmounting this difficulty is to procure some rubber-covered flex, and with this wind on the former more turns than are likely to be necessary. Connect one end of the coil to the grid side of the tuning condenser, the other end remaining disconnected. To the filament side of the condenser connect a flex lead with a pin soldered on the end. This pin can be pushed through the rubber insulation at any point of the coil, and thus the correct number of turns can be ascertained.

The flex is now taken off, and the final coil wound on, using the number of turns required. Do not be tempted to leave the cable-wound coil in the set as a permanency. The odd turns at the end would produce dead-end effects, and the large amount of rubber insulation would render the coil inefficient.

An A.C. Tip

STRANGE though it may seem, there is a definite and correct way in which an A.C. eliminator should be switched off. In all cases the mains switch should be turned to the off position before the valves are switched out. Switching on is not so important, though it is as well to turn on the set last, as then the filaments are not subjected to a sudden strain.

A Wireless Use for Vacuum Cleaners

MANY wireless-set users have a vacuum cleaner in the house, and while one does not usually think of running the vacuum cleaner over the wireless set, it should not be forgotten that practically all of these useful domestic instruments have a "blower" attachment by which a strong jet of air can be projected through a nozzle at the end of the tube. This jet of air is of great use in removing dust from a set and particularly for cleaning the spaces between the vanes of variable condensers.

Mounting of Spare Meters

THE amateur constructor usually keeps one or more meters on his bench free from regular service, so that he can have them handy for general testing. For convenience in reading, and for the protection of these delicate instruments, they should be mounted, and the following is a good method:—The most convenient position for a meter is at an angle of 45 degrees. Each meter is mounted on an ebonite panel just large enough to accommodate it, and, if the meter terminals are behind, the required number of terminals can be mounted on top of the panel. The panel is screwed to a base-board with its front edge bevelled off at an angle of 45 degrees. The average moving-coil meter is practically unaffected by the angle, but a few readings should be taken at various angles before mounting, to see if there are any discrepancies.

Waterproofing Aerial Ropes

An Effective Method

ALTHOUGH the electrical and insulating efficiency of the aerial should naturally receive first attention, it is not wise to forget all about the other components of the aerial system. For instance, aerial guy ropes, after they have been in use for a season or two, often show signs of deterioration owing to their continual exposure to inclement weather.

An effective waterproofing preparation is as follows:—

Dissolve two pounds of ordinary alum in a bucket of boiling water. Allow the water to cool, and then steep the aerial ropes in this liquid for two days. After the lapse of this time remove the rope from the alum solution, and, without any rinsing, hang it up to dry.

By this simple procedure the rope will be rendered waterproof for at least a year. The process is an efficient one; its cost is almost negligible, and it is clean to carry out.

The process may also be applied to the waterproofing of fabrics which are used to cover up any articles or instruments of electrical and radio use which may have a temporary or a permanent position out of doors.

RADIO DIRECTORY

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- KING RADIO RECEIVERS** ... F. J. W. Fear & Co.,
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- LOUDSPEAKER AND TRANSFORMER REPAIRS** A. E. Strange,
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- CROSLEY SETS** Abel, Smeeton, Ltd. Rep.: C. Ruscoe,
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Short-Wave Notes

(Continued from page 32.)

a.m., when jazz tunes were broadcast. The station went off suddenly at 7.50 a.m. without any call or announcement.

PCJ went on the air at 5.30 a.m., but only the metronome was heard till 5.43 a.m., when a band item commenced the programme at R9. Volume decreased to R5 at 6.20 a.m., and their signals were lost soon after this.

2ME during the evening duplex test were telling London about the Australian Derby to be run next day.

Later in the evening PLG (Java) were heard calling Amsterdam.

KZRM, on 48.8 metres, were heard with records at R8.9. Morse interference was bad at times.

RA97 was R9 with talk.

Sydney to New York

Long Distance Telephony

A MALGAMATED Wireless carried out wireless telephony tests between Sydney and New York, via London.

The company's engineers, carrying out special tests instituted by Mr. E. T. Fisk, managing director of Amalgamated Wireless (Australasia) Ltd., spoke with London Telephone Exchange and asked them to switch over to the New York Exchange. This was done and a lengthy conversation ensued. This is the greatest long-distance telephony test carried out by Amalgamated Wireless, and in point of distance, represents a telephony conversation over more than 15,000 miles.

These experiments at the Australian end were transmitted through the specially-designed Australian-made 20 k.w. transmitted at A.W.A. Radio Centre, Pennant Hills, Sydney, while the reception was effected at the company's receiving centre at La Perouse.

IF your set is a portable with frame antenna, remember that the connection from antenna to set is probably by flexible leads, and with constant wear these may deteriorate.

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Short-Wave Topics

Notes from a Reader

ACCORDING to the latest information (writes Mr. R. Leslie Jones) 2ME is hoping to have a commercial service of at least three hours in the morning and three hours in the afternoon between Sydney and London. The probability is that one set will be arranged for at Sydney to commence with, and when that has proved a success another set will probably be installed. The cost will be heavy, but doubtless the traffic between Sydney and London will warrant the capital outlay. Very intensive tests are being carried out between London and Sydney, as any short-wave enthusiast knows who cares to tune in 2ME on 28.5 metres; and officials at both ends are working long hours early and late with a view to arriving at a complete understanding.

Those head officials both in London and Sydney who have spoken by wireless 'phone have expressed their astonishment and delight at the progress so far made; and with the assistance of the postal officials in London considerable headway has apparently been made possible. Mr. Fisk, the managing director of Amalgamated Wireless (Australasia) Ltd., has expressed on several occasions of late his very great thanks to the London officials for their courtesy and valuable assistance.

Reception of London (GBX) in Wellington varies, of course; strength of signals (speech) fluctuating considerably; and it is evident after a long daily vigil, that Sydney receives London much better than we do in Wellington. Audibility is sometimes good in Wellington from GBX, and 2ME is usually very good for volume and clarity. 2ME often complains about signals from London fading, and "noise level," and so on; so Wellington is not the only place where these troubles crop up. Watching the progress made in connection with the foregoing scheme of wireless telephony between Australia and England, the listener who has been taking an interest in this latest wireless development must derive considerable interest for the small amount of trouble; besides which the hours for listening-in at Wellington are reasonable, especially during the afternoon session, which finishes about 8.15 p.m., N.Z. time.

A feature of 2ME's transmission is the versatile and distinctly "Aussie" mannerisms of Mr. Farmer, the principal operator, whom listeners hear daily. This gentleman has a very pleasing manner, quite unconventional, and speaks his mind freely over the air; in fact, his name has become a household word, like many other announcers in Australasia.

Morse Interference Selectivity for Short-Wave

Visiting Warships Guilty

WELLINGTON is not the only port where warships interfere with reception. On Thursday morning, October 3, the operator at 2ME, Sydney, the experimental station of Amalgamated Wireless Australasia Ltd., complained to GBX, London, that the French warship Tourville was pounding out Morse and interfering with reception of the transmission from GBX. The warship uses the call sign FALT, and was calling PUB at 5.45 a.m., Sydney time. In humorous vein, Mr. Farmer at 2ME remarked: "Hang it! Here's this Frenchman again; you'll have to stand by until he's finished; we have to give him the floor every time; I'll let you hear him." Mr. Farmer then switched the Tourville's Morse over for London to hear.

In reply to a remark from GBX, Mr. Farmer remarked, "I'd like to say something else, too." Well, it is annoying, especially when important tests are being carried out between England and Australia, and every moment is valuable to the operators at each end. Again the same day, during the evening tests, 2ME complained to GBX about the warship, remarking that FALT wandered all over the place, one minute on top of 2ME then right on the side band. "He's like a chaff-cutter; it wouldn't be so bad if he'd get his traffic over, but he keeps on call, call, call, all day long," said the operator at 2ME. Again 2ME switched the Frenchman's Morse over for GBX to hear, and the writer also heard it via 2ME.

2ME has arranged to test with GBX this present week, commencing from Tuesday, October 8, from 1400 G.M.T. until 1800 G.M.T. instead of from 1800 to 2100 G.M.T., hoping to get at least two hours of good conditions during that period for tests.

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The Schneider Trophy.

THE "Wireless World" contains the following in reference to the international air race for the Schneider Trophy: "The B.B.C. microphone will be situated on the roof of the Ryde Pier Pavilion, a few yards from the judge's stand. It is expected that it will be possible to receive and broadcast the lap positions and the final results within a few seconds of the judge's decision. The lines in use for broadcasting will include the new cable beneath the Solent, from Ryde to Portsmouth."

Spain to Tell the World.

AN unconfirmed report from Spain states that a world-wide short-wave transmitter will be erected on Mount Tibidabo early in 1930. A medium-wave station is already in operation on the site.

Programmes from China Shortly.

BY January, 1930, China is expected to enter the field of international wireless with the opening of two short-wave stations for communication with the United States. During a recent visit to the headquarters of the American National Broadcasting Co., Dr. Cha Tsao, a member of the radio mission of the Chinese Reconstruction Council, stated that a national system of broadcasting was also contemplated, and that it would probably follow the American system, revenue being obtained from the advertisements.

Nearly one hundred young men in China are studying to become radio engineers, and on them will fall the responsibility of establishing China's broadcasting chain.

Germany's New Short-wave Station.

THE construction of the German short-wave high-power transmitter at Zees- sen is nearing completion. Although no official announcement has yet been made regarding the wavelength to be adopted, it is understood that the broadcasts will be carried out on 13.38 or 25.1 metres. The preliminary tests are expected to take place shortly.

Bangkok, Siam.

SEVERAL listeners have inquired about a Japanese (?) station on about 29 metres heard during the early morning. This is Bangkok, Siam. I heard the call several times during one morning, but have not heard them since. Music of a Japanese nature is often heard.

Church Service from Suva.

SEVERAL correspondents report hearing church services broadcast on short-wave from VPD, Suva, during the morning of the last two or three Sundays.

W2XE, on 49.3 metres, relaying the programme of WABC, Atlantic City, New York, can be heard till about 5.30 p.m.

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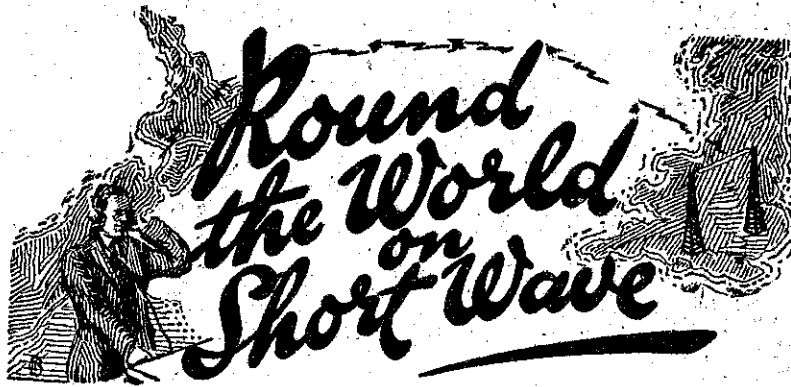
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Mr. Churton (Auckland) reports hearing 7LO, Nairobi, again, very weak, but enough to identify the station. The writer has also heard them; strength is best when they sign off at 6.30 a.m.

A Johnsonville reader sends a list of "unusual" stations he has heard lately:—

VIZ (Anglo-Australian Beam on phone), Ballam, Victoria, 25.6 metres (approx.).

KIO, Kahuku, Hawaii, 25.7 metres (approx.).

KEF, California, 28.6 metres (approx.).

WSXF (KDKA), 20.05 and 62.5 metres.

KKQ, 25 metres.

PMB, Bandoeng, 14.5 metres.

PMC, Bandoeng, 16.5 metres.

PMY, Bandoeng, 67 metres.

Saturday, September 28.

PCJ was tuned in at 6 a.m., when they were R8-9, with some static.

5SW at R8 was spoilt by rapid fade. Konigswusterhausen commenced at 6.30 a.m. at R9. Reception was excellent. Volume had weakened to R7 by 7.30 a.m.

PCJ during the afternoon was spoilt by severe static. Strength R4 at 1.30 p.m., increasing to R8-9 by 5 p.m.

The Americans were very poor. RA97 at R9 was quite good at 11 p.m. with music.

KZRM on 48.8 metres were spoilt by very bad static. Volume was good, but readability poor on account of QRN.

Some mention was made of a new station at Manila which will be on the air soon. KGRC appeared to be the call mentioned, but interference was too bad to be certain.

Bangkok, Siam, was heard at midnight, strength R5, rather gushy, with lots of static. Native music was being broadcast.

VK2HM, Bondi, N.S.W., with records, came in very well at R7-8 until 12.20 a.m., when he closed his transmitter to listen for reports.

Sunday, September 29.

7L2GK, a local amateur, was excellent at R9 with records during the morning.

W6XN was first heard at 1.30 p.m., when they were R7 with the "Lucky Strike" orchestra, which could also be heard through the WGY short-wave stations.

A concert from the Frisco studios of the N.B.C. commenced at 2.30 p.m. Later the Byrd Expedition programme from New York through the N.B.C. network could be heard, either from W6XN or W2XAF.

"Temple of the Air" from 3.30 p.m. was next heard from W6XN till 4 p.m., when the latest football scores were given. A "Golden Legend" followed, and signals became very weak. The "Musical Musketeers" came in quite strongly at 7 p.m. at R7-8. After a gong was heard at 7.31 p.m., indicating 0.1 a.m. Pacific Standard time, they continued with request items from the Hotel Witcombe, San Francisco.

Volume from KDKA, 2XAF, and 2XAC was good, but they were all gushy, so listened to W6XN (KGO) most of the time.

Monday, September 30.

BANGKOK were going strongly with their native music at 6.15 a.m.—this is nearly 2 a.m., Siam time, so they are night owls there. Volume R3-9.

On about 31.2 metres orchestral music was heard, but too weak to get the call when announcement was made. This is, I expect, 7LO, Nairobi.

The German, with orchestral music, was excellent at R9.

At 7.45 p.m. GBX was gushy, with static, at R8.

2ME excellent at R9.

Tuesday, October 1.

5SW, 5.27 a.m., "Good evening, ladies and gentlemen, this is 5SW, etc.," was well received direct from the short-wave station at Chelmsford. On going over to London, the ripple is noticed.

Big Ben at 5.30 a.m. booms in at R8. A dramatic criticism followed, which was 100 per cent. readable, but with difficulty, on account of the often reported ripple.

Increased strength at 6.30 a.m. to R9. The German at 5.35 a.m. was heard at R9, but closed shortly after till 6.30 a.m., when after a short talk, music was well received at R9.

Again what I take to be 7LO was heard at 5.45 a.m. Strength R5, with some interference and bad static (same conditions as last year when this African station was heard). Long intervals were noticed between items. At 6.32 a.m., "This concludes our programme for this evening. Good night, everybody—good night," was distinctly heard, but no call letters were given.

GBX and 2ME were both very good, morning and evening, with their duplex test.

RA97 at 9.15 p.m. was R9 and R5 on its first harmonic.

POK at 10.10 p.m. was calling "Hullo, Java; Hullo, Bandoeng," at R8. PLE, Java, replied, when duplex telephony was heard.

Wednesday, October 2.

KONIGSWUSTERHAUSEN at R8-9 was tuned in at 5.45 a.m. They closed shortly after, opening again at 6.30 a.m. with music after the preliminary announcement. Static was bad.

5SW was R9, spoilt as usual by ripple.

GBX and 2ME were both good at R9. On just over 49 metres a foreign voice could be heard at about R2-3.

VOR2, Vienna (Austria), is on 49.40 metres, and it may have been this station.

Nairobi (?) was received at weak strength till 6.33 a.m., when they closed down.

Another stranger was heard just above the German, working on about 31.8 metres. Strength was good at R8. They closed while away from the receiver, so did not hear the call.

GBX and 2ME were spoilt by howlers at 8 p.m.

POK (Holland) and PLE (Java) were

heard on duplex telephony. The Dutch station was transmitting records when first heard. Another station on about 15 metres was heard on duplex, going over to music at 9.15 p.m. When signing off soon after, the names "Achtung-Nauren-Berlin" were heard, with a call which I took to be DER. Could not be certain of these letters on account of German pronunciation.

Thursday, October 3.

5SW was again spoilt by ripple. 7LO was just audible, static being worse than usual.

Bangkok at R9 was tuned in at 6 a.m. Talk in Siamese was first heard, followed by native songs. Static spoilt reception.

The German at R9 was spoilt by static. Sydney and London were strong both morning and evening, with duplex.

At 8.30 p.m., on about 30 metres, a lady was heard calling "Hullo, London!" at R8. Static and unsteady carrier spoilt reception. "Bandoeng" was mentioned. All foreign talk was heard later without any call sign.

POK at R8 was excellent with records, going on to duplex later. The 15-metre German and what I took to be Monte Grande were on duplex telephony.

KZRM, on about 31.4 metres, was almost blotted out by morse.

RA97 at R9 was very good, with orchestral music. Static was bad.

Friday, October 4.

BIG Ben from 5SW at 5.30 a.m., followed by "This is London calling," was received at R8. Rapid fading added to the ripple spoilt reception.

Konigswusterhausen at R8, with talk, closed about 5.45 till 6.35 a.m., when a lot more talk was heard. Just above the German on about 31.8 metres another station was heard. Talk was not readable. Volume increased to R5 by 7.45.

(Concluded on page 31.)

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 2/- cash for 20 words, and twopenny for every other word thereafter.

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