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# Brilliant Orchestra Engaged for 2YA

"All-Star" Combination to Take the Air on May 1

E venture to predict that listeners will be delighted with the orchestral combination engaged for 2YA to commence on May 1. Every member is an outstanding artist and soloist, and there is unquestionably no similar combination of musicians anywhere in the Dominion, for each one is a leader in his or her particular department.

The personnel is as follows:-AVA SYMONS, leader, violin. W. E. McLEAN, obligato violin.

FRANK HUGGINS, bass. CLARENCE TUCKER, flute. M. T. DIXON, pianist.

SIDNEY BARRETT, clarionet. LESLIE PROBERT, drummer. HARRY BERRY, trumpet. F. C. J. FORREST, trombone. GEO. ELLWOOD, 'cellist and conductor.

OR the first month, so that this fine combination will be under immediate control for broadcasting purposes, the baton will be taken by the Radio Broadcasting Coy's. musical director, Mr. W. J. Bellingham, this by arrangement with the permanent conductor of the combination, Mr. Geo. Ellwood, who thereafter will have charge. From May 1, listeners, in line with the details given in the article below, may look for a series of musical treats.

RATIFICATION will be felt on all sides that it is now possible for the Radio Broadcasting Company to engage for 2YA quite the most outstanding col-Tection of musical talent in New Zealand as a permanent orchestra. This progressive move will certainly be welcomed by listeners, and unques-

tionably will strengthen the general programme service. The personnel of the orchestra is outlined above and is in itself impressive. Details of the careers of each performer are appended to the respective photographs and will substantiate and endorse the claims made on behalf of the combination.

HOW will the orchestra be used? Some original plans are in contemplation for getting the best out of the orchestra and, what will, we think, appeal particularly to listeners, the public is to be asked to co-operate in the nomination of the numbers to be played. This is an innovation which will be watched with interest in its outcome, as it constitutes a direct invitation to the public to declare what its taste in orchestral music is. The method of nominating the music chosen is outlined later.

#### FOUR NIGHTS A WEEK.

THE programme devised is as follows:-The orchestra will be on the air four nights a week



MK. W. J. BELLINGHAM, musical director of the Radio Broadcasting Company, who will control and conduct the 2YA Orchestra for the first month of operation. -Photo, by Capitol Studio, Auckland.

-Monday, Tuesday, Friday and Saturday. The fields to be covered each evening are allocated

> MONDAY: TUESDAY: FRIDAY: SATURDAY:

CLASSICAL. OPERATIC. POPULAR: VAUDEVILLE.

The orchestra on Monday night will always play a certain number of classical or standard works. On Tuesday there will be a proportion of operatic selections, but on both these nights there will also be specially chosen orchestral numbers of general interest, in addition to the featured 



—S. P. Andrew, photo.

MISS AVA SYMONS. MISS AVA SYMONS, the unusually gifted violinist, who will lead the orchestra, is a New Zealander. She showed exceptional talent during her early studies with Max Hoppe, when she won first prize at the Napier Competitions, and also attained a similar distinction at the 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 Poltromeri, 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, Mdlle. Renc 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, in Wellington, a series of most successful sonata recitals. Her fame and ability are beyond question.

music. Friday will be devoted to a general popular orchestral programme chosen from the whole gamut of orchestral works, including a proportion of the most popular musical comedy selections, and the latest fox trots and jazz waltzes, and novelties. On Saturday, the programme will consist of light music of a vaudeville character, and will finish with three-quarters of an hour of jazz.

#### THE PUBLIC'S CHOICE DESIRED.

IN outlining the capacity of the orchestra to us and stressing the high quality of the professional artists engaged, Mr. W. J. Bellingham, musical director, stated that they would have at command a complete range of orchestral music, and would be able to give a finished interpretation of any conceivable orchestral composition from symphony

We immediately saw in this claim an opportunity for satisfying the demand of the public for variety, and testing out the capacity of the orchestra, which Mr. Bellingham had stressed, desired to make its services of the most popular character. We therefore suggested that the public be given the opportunity, regularly, of selecting two of the items to be played each evening—one item to be a free request for any musical item of the same type as the evening's programme, and the other to be a request for a repetition of the most popular



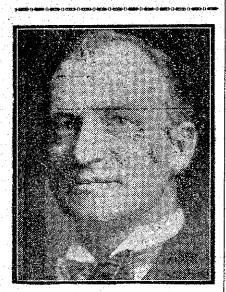
MR. GEO, ELLWOOD, 'cellist and permanent conductor of 2YA Orchestra. —S. P. Andrew, photo.

# Brilliant Orchestra Engaged for 2YA

#### CONTINUED FROM FRONT PAGE

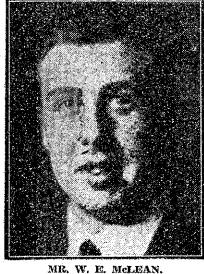
from on the same evening of the prereding week. This last would act as a
perpetual popular vote on the items
played, and would ensure repetition of
the items and would ensure repetition of
the same evening in the
vious the owner cannot get satisfactory
tory reception and appreciate the quality of the music given. Lasteners in
general are coming to appreciate this,
In the cold-fashioned records the high being made applicable to both combined and solo items would act as a stimulus to the performers to give of their best. The other nomination of an item to be chosen would give scope for the direct record of the public taste.

MR. Bellingham immediately accepted the tacit challenge of this offer, and agreed that two blanks would be provided in the programmes of each evening on which the orchestra apreared—the first to be the popular nom-ination of any item of the same class programme and the other a repetition of the most popular item from the



MR. MARRY BERRY. -S. P. Andrew, photo.

IT is not very often that a small boy of seven commences his musical studies on the trumpet and continues with that instrument throughout his musical career. Such, however, is the history of Mr. Harry Berry, the cornetist of the new 2YA Orchestra. Winner of numerous championships, about 23 all told, Mr. Berry has also the distinction of being a champion of champions, which title he won in Sydney. Mr. Berry first came to New Zealand on tour with the First Australian Band (Redfern) as soloist, and was with this band when it won the championship title in Dunedin in 1923, returning to Australia where, in 1924, he captured the gold medal for an original composition. In 1925 Mr. Berry returned to New Zealand under special engagement to the Wanganui Garrison Band. In which he played as professional cornet when they won the Dominion Championship in the band contest held in Dunedin at the time of the Dunedin Exhibition. Again Mr. Berry returned to Australia, only to be brought over some months later (1926) for the purpose of reorganising the Wellington Tramway Band, which he conducted for about twelve months prior to accepting a position at Fuller's. In 1928 Mr. Berry was engaged by the Woolston Band as professional cornet. Mr. Berry has acted in the capacity of professional cornet and conductor since the age of twelve, at which time he formed and conducted a brass band of twenty-two youthful enthusiasts at Warrnambool, Victoria. Mr. Berry has also had about twelve months' experience in broadcasting, having appeared before the microphone of 2FC whilst in Sydney. Following are a few press notices:—Sydney News: "Mr. Berry created a world's record for high range playing. Has a compass of 5½ octaves. Etc., etc. Australian Musical News: 'Meet Mr. Harry Berry, the magician of the cornet." Lyttelton Times: "His dainty call-like tone provided the crystal gem of the evening.'



-S. P. Andrew, photo.

MR. W. E. McLEAN, who for the past two and a half years has been the leading leading violinist at the Paramount Theatre, has also joined the new 2YA orchestra. Mr. McLean is a gifted violinist, with many years of orchestral work to his credit, having held the position of leading violinist at the Public Hall, Redditch; Temple Theatre, Dudley; Cinema De Luxe, Chester; the Picture House, Birmingham. (Eight years orchestral experience.). Mr. McLean was a student at the Birmingham Conserva toise for two years, where he studied under Mr. Hytel. Locally he has continued his studies under Miss May Donaldson, Premier Prix, Brussels.

At to express its wishes, we offered to receive the requests of the public, analyse them, and make known the result to the station director and orchestra a few hours before the evening per-formance. This was accepted, and details of the scheme of procedure will be found on Page 5. The object of this procedure is that the work of the station shall not be interrupted by an unduly heavy mail or by telephone requests. No telephone messages in this connection will be taken either by ourselves or the station—requests must be in writing.

#### TO LEARN BY EXPERIMENT.

THE company has it in mind, simultaneously with the institution of the orchestra, to experiment for a period in the direction of reducing the mount of announcing in order to give more music and less talk. This exmore music and less talk. This experiment will probably take the form of merely announcing the nature of the next item. The psychological reaction will be carefully watched in order to judge of its acceptability to the public. The present system of broadcast an-touncement is much like Topsy—it has "just growed"—and experiment may give a procedure which will eliminate delays and produce greater satisfaction to the listening public.

A NOTHER experiment contemplated

by the company has a many import

by the company has a very important hearing upon the capacity of receiving sets to give listeners the best quality of reception, and is designed to enable them to detect whether their sets are catching and conveying to them all the sound put into the air by the station. As every listener knows, different sounds are conveyed at different vibration rates, and the finer tones require the highest rates of vibration. Some components of sets are not adapted to reproduce the finer tones, hence that listener loses those sounds and is not in a fit position to judge the music that is being broadcast. The test the company has in contemplation is to



MR. FRANK HUGGINS.

-S. P. Andrew, photo.

AT an early date Mr. Frank Huggins, the double bass of the new ZYA Orchestra, displayed undoubted ability as a fine musician. His first instrument was the violin, and at the age of fourteen he made his debut in orchestral work by appearing with the Theatre Royal Orchestra in Timaru. Later on he undertook the study of the 'cello and doublebass. Not satisfied with this he also made a study of the trombone and monstre bass, a wind instrument of huge proportions. For seven years he was associated with the North East Valley Band, Dunedin, as trombone soloist. He has filled positions on the leading theatre orchestras both in Dunedin and Wellington, having for many years held a seat with the Grand Opera House Orchestra as 'cellist, which was in itself a distinction, as a new orchestra was employed for each performance as it came along. Mr. Huggins studied under Richard Langdon and Signor Squarise, and has had some thirty years' experience as on orchestral player. He declares he finds a great deal of satisfaction in playing the double bass. Such a versatile player should prove of great value to the 2YA Orchestra.

broadcast different vibration frequencies embodying the ranges employed in the production of the nunsical tones of a standard orchestra. Full details of this proposed test will be given later, but its utility in enabling listeners to test for themselves the efficiency of their equipment in reproducing the full range of musical notes will be obvious.

#### A BEARING ON POPULAR TASTE.

THE point raised here has quite a bearing upon the popular demand for jazz as a broadcast item in comparison with orchestra items and highclass music. Jazz represents rhythm in music, and no matter what sort of set is used, rhythm can be heard, but poor sets would miss much of the best in high-class music. With the steady improvement that has been taking place in reception sets, there has arisen a demand for better music, this being due to the greater purity of the re-production, and the full use made of the wider range of tones. The better class of music depends upon the quality of tone, harmony, and melody, and unless the listener has an effective set which is reproducing quality, it is ob- with 2YA,



MR, S. BARRETT.

ONE of the youngest members of the orchestra, Mr. S. Barrett, rose to the dizzy heights as a clarinetist whilst on tour with the Argyll and Sutherland Highland Band. Mr. Barrett was born in London, and commenced his musical career with the study of the clarinet at the age of eight, and has continued in this direction for about seventeen years. At the age of fourteen he joined the Argylls, and was associated with them for nine years, and it was during this time that he received all his instrumental knowledge. During this nine years of ssociation with the Argyll and Sutherland Highland Band, he went on tour with them some seven or eight times. England, Scotland and Ireland were some of the points visited, whilst an extended tour of six months was conducted in France. In 1925, during the Dunedin Exhibition, the Argylls came to New Zealand and participated in the band contest which was held in Dunedin at that time. After-wards a tour of New Zealand was also conducted, Mr. Barrett acting as soloise during this time. When the band re turned to Scotland Mr. Barrett went with them, only to return to New Zealand about eighteen months ago. His first en gagement was with the Empress Orches tra. Later he joined the Parawount Theatre Orchestra, and only leaves them to take up his new duties as a member of the 2YA Orchestra,



MR. M. T. DIXON. Hardie Shaw, photo.

MR. M. T. DIXON, the planist of the new orchestra at 2XA, was born in Durbam, England, and received his secondary education at Bede College. At a later date he finished his musical studies under Mr. York Bowen, of the Royal Academy of Music. Coming to New Zealand, he undertook concert tours with J. and N. Tait as solo planist and accompanist.

The following are a few excerpts from ewspaper criticisms :—Lyttelten Times : "Much might be written of Mr. Matthew Dixon, who is a fine exponent of the pianoforte. As a soloist and accom-Anokland Star: "A planist of more than ordinary calibre." New Plymouth Herald: "Proved himself a highly proficient pianist." Hawke's Bay flerald: "Plays with considerable insight and clear execution." Christchurch Press: "Displayed delicacy of tone, taste and feeling." Later Mr. Dixon was associated with theatrical work, acting as orchestral conductor at various theatres, finally being appointed musical director at the Regent Theatre, which position be held until accepting the appointment tion components. The same principle applies in the case of gramophones. In the old-fashioned records the high overtones could not be reproduced, and it was imposible to tell one instrument of an orchestra from another. With the better reproduction new available, and the flexibility of the electrical pick up, etc., modern gramophone reproduc-tion is an entirely different thing.

#### ORCHESTRA AND CONDUCTOR.

AS a factor in cutertainment the new ZYA orchestra will take premier rank. Through it listeners generally will receive a wide range of balances and pupular music. The public will be given what it wants—in fact, under the scheme outlined the public will largely arrange its own programmes, and we anticipate a hearty welcome and a brilliant career for the new orchestra under the permanent conductorship of Mr. Geo. Ellwood, whose career is so well known as to really require little re-capitulation. He was born in Yorkshire, England, but came to New Zealand at such a very early age that he may well be regarded as a New Zealander. When only seven years old, he commenced the study of the 'cello, and under Mr. Hugo Gorlitz, a family trio later toured with remarkable success; young George being termed by the Press "a pocket edition of Gerardy." After this tour the trio proceeded to Europe to study. London held them for a few weeks, and then, armed with a letter of introduction to Jean Gerardy, they proceeded to Brussels, Gerardy, after hearing the lad of eleven play, sprang from his chair, exclaiming "I will teach him for nothing!"a very great privilege, as Gerardy's fee was £4 4s. an hour.

In addition to taking these private In addition to taking these private lessons. George Ellwood entered the Liege Conservatoire, and was admitted into Gerardy's "master class". On the conclusion of nine months' study he entered for the scholarship, and gained the "Premier Prix." The only time



MR. F. C. J. FORREST.

MR. S. J. FORREST started the study of the trombone just because his people wanted him to take up something else. When he was twelve years old he joined a brass band. He received his education at Marlborough College, South Island Whilst in the South Island he was a member of the 10th Mounted Regimental Band as trombonist, and came to Wellington some years later. He was a member of the 1st Batalion Band and Waterside Workers' Band at the same time, playing soloist in both. Later he nned the Port Nicholson Suver He commenced his orchestral work when he joined the Jazzola Band. He was with the popular "Dixie Boys' Six" jazz band, which was one of the first jazz bands in Wellington, and was the rage five or six years ago. From dance orchestra to grand orchestra work was but another step in this brilliant trombonist's career, and he subsequently joined the Wellington Professional Orchestra as seloist. staying with them for about three years. He then joined the Regent Orchestra from its inception, and was with it until February of this year. Mr. Forrest then reverted to dance music, when he joined the Cabaret Gaiety Palais de Dance. He became a member of the Fuller Orchestra, and leaves them to join the new 2YA orchestra. He toured New Zealand with the Walter George Sunshine Players in 1923.

in the history of the Conservatoire that this great honour has been gained by a boy of twelve. The Liege Conserva-toire has long been famous for its string players, and such famous men as Gerardy, Eugene Page, Ovide Musin, Joseph Jongen, Charles de Beriot, and others, too numerous to mention, had received their training within its walls. After several years' experience in Belgium and elsewhere, in 1913 George Ellwood returned to London to play at Madam Clara Butt's great concert in the Albert Hail, which was, so to speak, the grand finale of her world Unfortunately, on eccount of illhealth, he was unable to perform and his place was taken by Jaques Half-mann, the great cellist. Later, on the completion of a special course in harmony at the Guildhall School of Music Mr. Ellwood again returned to New Zealand, and establishing himself as a teacher in Christehurch, where very quickly he won an enviable reputation.

Amongst his well-known pupils at that time was Mr. Harold Beck, the "cellist ot the talented trio who nowadays broadcast from 3YA, Christchurch, In 1918 Mr. Ellwood once more turned his face towards Europe, proceeding to Brussels, where he commenced a course of composition, instrumentation, and conducting, with Joseph Jongen, the director of the Brussels Conservatoire, also studying singing and choir training with Maurice Weynandt. Mr. Eliwood on this occasion remained on the Continent for nearly four years,



MR. L. W. PROPERTY, P. Andrew, photo.

MR. L. W. PROBERT, drummer, dropped into the drumming business years ago, more by accident than design, his musical career commoncing with the piano as a boy. His holby has always been music, and as a recreation from mundane things, and as the result of a request by the old Garrison Baud, under Lieut. T. Herd, he commenced playing the big brass drum for them, and incidentally earned the nickname of "Banghard" from his friends.

This recreation was pleasure enough until he found that when playing at outside performances, the Tramway Department had built all the trams too narrow at the conductor's end to take the big bass drums. As the department couldn't see its way clear to alter the tram entrance, and as the band couldn't alter the drum, Mr. Probert decided to learn the side drum, which would be more convenient to carry. With this end in view he received first lessons in manipulating the sticks from Tommy McGregor, a well-known side drum player in Wellington, and at a later date he continued these studies under the late Mr. Herbert Bloy, an expert on percussion instruments. Somewhere about 1911 or 1912 Mr. Probert applied to Mr. Walter Fuller at the old Theatre Royal, Lambton Quay, for a job in the orchestra, and was asked to attend rehearsal. This he did, with disastrous results. The band had mished the last notes of a lively march whilst he was still looking at the first few bars. The manager very kindly told him to have about a year's practice and then Twelve months later he come back, again applied, and was fortunate in securing an engagement in the new His Majesty's Theatre, when it opened in Courtenay Place. Under the excellent guidance of Mr. Frank Crowther, he progressed famously with the drumming business, and since that time has played for almost every conceivable class of performance, from light popular numbers to grand opera. Mr. Probert has given up playing time and again, but the de-mand has always brought him back again.



S. P. Andrew, photo.

MR. CLAUD TUCKER, the wellknown Wellington fluutist, should be a decided acquisition to the 2YA Orchestra. He has principally appeared as a soloist, and is well known to the Wellington concert-goer. For some years past Mr. Tucker has been first flute of the Wellington Professional Crehestra. A pupil of Signor A. P. Truda, who considered Mr. Tucker his most promising pupil, he has made a special feature of obbligate playing. During the tour of the celebrated flautist, John Amadio, some six years ago, Mr. Tucker was compli-mented by this gentleman for his very fine performance. Mr. Tucker has appeared in the Wellington Competitions at different times, and secured, three first prizes as soloist. He commenced his studies of this instrument at the early age of ten, and at twenty-six has accomplished as fine a tone and finesse which should contribute largely to the success of the orchestra,

# New Points For Listeners and Dealers-- By "Meler"



The aim of this section is to give listeners information of new and interesting devices and sets on the local market. It is free of advertising intent or influence and to the best of our ability will convey only absolutely reliable statements. Names, prices and sources of supply are mentioned for the benefit of readers and to save individual Inquiry.



Corporation of America has always been associated with the highest standards in radio wares, and this tradition holds good in

respect to the company's 100-A loudspeaker, which I have subjected to a fortnight's testing. This loudto a fortnight's testing. This loud-speaker has proved itself in every way a monarch among its competitors in the astonishing faithfulness of its reproduction on all audible tones, and in its sensitivity. With it instrumental and vocal music is a new delight. The bass notes are superbly rich and clear, and the treble leave nothing to be de-Under the terrific stain of band music broadcast from 2YA, Wellington, I found it impossible to make the loudspeaker "chatter," although the music was passed through six valves at relaclose range to the big station. The 100-A R.C.A. loudspeaker is of the mantel-piece clock design, housed in a metal container. It embodies a new type of corrugated cone, which is completely weather-proof Its pole completely weather-proof pieces and armature are extra heavy, permitting great volume without saturation. A large-size permanent magnet of special alloy steel gives greater sensitivity and volume throughout the whole musical scale. It is claimed that this magnetic strength will not accline with age, resulting in decreased sensitiveness, as is the case with some loudspeakers. An electrical filter is also provided, which removes distortion produced by high-frequency harmonics and summation tones. The metal case acts as a baffle-plate, and preserves the deep, full tones, while a light felt lining destroys obnoxious resonant effects and insures uniform response throughout its frequency range. This speaker is retailed at £12 10s. It was through the courtesy of the National Electrical and Engineering Co., Ltd., 42 Customhouse Ouav, Wellington, that I have been able to test the R.C.A. 100-A loudspeaker.

#### COMMERCIAL CONDENSERS.

IN many instances the size of variable condensers is given in microfarads, and in still more cases it is given in number of plates. The number of plates is no gauge to the exact capacity of the condenser, as the size of plates differs with different makes as well as the spacing between plates. As a rule, however, the requirements for variable condensers are not exacting as to size, the size specified being the maximum capacity when the plates are all in. In general the relation between number of plates and capacity is as fol-

lows :--Number of plates. Microfarads, 0.00025 0.00050.0010.0015

The incre fact that a condenser has metal end plates does not mean that it is a better condenser or a "low loss" condenser. There are just as many poor condensers with metal end plates as with insulation end plates. There as with insulation end plates. There are just as good or better condensers with insulation end plates as with metal end plates. The name of the manufacturer is your best guarantee.

The plates should be thick and stiff, preferably of aluminium or brass, equally spaced, and the frame construction rugged. A vernier dial such as "velvet grip" or "easy tune" is better than a separate vernier plate, as a rule. Usualsmall plates mean a better made cou-A pig tail connection is not necessarily better than sliding contact, but do not oil the bearings on a con-

HE name of the Radio tention to mechanical construction and strength, especially in the bearings where slackness soon develops,

#### CORRECT RHEOSTATS.

JE problem of determining the correct resistance of rheostats often confronts a buyer who likes to design and build his own equipment. proper resistance to use depends on the voltage of the "A" battery and the normal current that the valve operates on most satisfactorily.

For WD-11 and WD-12 tubes on 1½

volts a 6-ohm rheostat is satisfactory.

For single C-301-a or UX-201-a tubes or any ½ ampere tubes on 6 volts a 30-

ohm rheostat is proper.

For two C-301 a or UX-201-a tubes in parallel a 20-ohm rheostat will suffice. For four of these tubes in parallel a 6-ohm rheostat will be sufficient.

For UX-199 or C-299 tubes on 4½ volts use a 30-ohm rheostat. For UX-112 and UX-171 tubes use a

15-ohm rheostat on 6 volts.

For UX-112-a and UX-171-a tubes use a 30-ohm rheostat. These are the new quarter-ampere valves.

RADIO service men should interest their clients in the protection of their loudspeaker. Due to the increased clarity of signals, as well as to the additional power which may be obtained, many owners of receiving sets are incorporating power valves in sets which were not originally built to accommodate them. It has been to accommodate them. It has been the sad experience of many of these fans to find out that after a shore period the loudspeaker would go on a "strike" due to the windings of the electro-magnet coils burning out.
This condition arises from the fact

that the additional current necessary to operate these power valves is really more than the windings of the speaker can stand, with the result that a powerful surge induced by a loud burst of music will cause the fine wires to fuse.

wires to fuse.

Damage to the loudspeaker can be prevented in a very simple manner by the use of an output circuit, one type of which is described herewith. It is not necessary to place this appara-tus in the cabinet, as it may easily be mounted right on the base of the loudspeaker.

The apparatus necessary is a choke coil and two Imfd. fixed condensers. These are connected in the following manner: First, they are mounted, with the two condensers in parallel. From one side of the output going to the speaker, connect a wire to one side of this condenser bank. From the other side of this condenser bank a wire goes direct to one side of the choke coil, and continues from there to one terminal of the set output.

From the other output terminal of the set connect a wire to the other side of this choke coil and to ter-minal for the output to the loud-

#### "NEW" CIRCUITS.

THE home constructor is confronted with "new" circuits in nearly every radio magazine, and he is often tempted to tear down his set and test the latest circuit, only to find it is no better than the last. An American radio writer says:-

"When a radio wave coming through the air at the rate of 186,000 miles per second comes in contact with the wire of an aerial it sets up in that wire a current which, after a great deal of amplification, emerges as sound energy from the loudspeaker. Whether this sound is a faithful reproduction of what took place in the broadcast studio is merely a matter of engineering, and as we generally assume that there is no distortion between the denser which has no pig tail.

With so many good condensers to choose from you should pay more at-

"As has been intimated, the problem of distortion is one that has been engaging the attention of engineers ever since the start of broadcasting. Sets of all types, circuits, number of valves, etc., have been tried with the idea in mind that distortion was to be reduced to a minimum or eliminated en-tirely. New circuits were brought tirely. New circuits were brought out, which upon inspection proved to be nothing more than old hook-ups dressed up in new clothes, and many of these newcomers were little better than their forerunners.

"So many of these so-called 'new' circuits have been foisted upon the radio public that every time something really worth while is put on the market the thinking portion of the radio enthusiasts look at it askance. It is seldom that anything radically new is presented to the radio constructor as something that is getted to retor as something that is actually new in every sense of the word."

#### TO FIT A VOLTMETER.

RADIO traders who build high-class sets should equip them with the best voltmeters. They add greatly to

A voltmeter is a very handy instrunent to have on the panel of a set using five or more valves, for with it you can tell the condition of both A and B batteries at any time.

Some set builders have not fitted a voltmeter on account of the apparent

difficulty of cutting the large hole necessary to take the instrument. If this has proved a difficulty to you, the following instructions will show you how to make any size of hole in the panel. Mark off panel with a pair of divid-

ers the exact size of the hole desired then mark out a second circle ; inch inside. Now mark off the inside circle in 4-inch sections all round, then take a bradawl or the point of a sharp file and spot each hole.

The next operation is to drill a hole at each 4-inch mark with a 1-inch drill, by take a 1-inch drill, and drill into each of the 1-inch holes. If you have marked off your 1-inch sections correctly, you will find that when you have finished with the 1-inch drill that the piece of panel in the centre will fall out.

Finish off the hole with a half-round

#### THE VALUE OF SOLDERING.

THE radio service man, professional and amateur builder, should solder connections in a set wherever pos-

One cannot receive unless the energy is transmitted through proper contact from metal to metal.

An invisible coating or film of air surrounds every metal, no matter how tight it may be pressed against another metal. Or worse, this film of air coats the metal with an invisible ox-ide. All oxides are notoriously bad conductors of current. In fact, nearly all oxides are insulators. So proper contact must be assured if the tiny surges of current are to be led from

one part of a set to another.
With poor contact a surge of current cannot build up so as to produce os-cillation. One must remember that a complete oscillation is a cycle of current running 0 degrees minimum to then to 180 degrees, where a reversal 90 degrees, the maximum in strength, of polarity occurs, and on to a similar change with opposite polarity. Now,

not build up from 0 degrees to 90 degrees, consequently no current will flow and no signals will be heard.

So the wise radio builder will see that good contact is made and kept by soldering every place in his set where current flows from one metal part to another. The soldering must be properly done, the joint first cleaned by scraping and sand-papering, then the parts tinned, using a small amount of non-corrosive rosin flux, and finally the rarts soldered together, using just enough solder to make a good electrical connection which has mechanical

Every joint should be mechanically strong, as well as electrically conductive. If one inserts his hand into the



# The Mighty Atom Crystal

Complete with tweezers and 1/-Catwhisker in Sealed Box Write for FORMO Price List.

401 Worcester Street, CHRISTCHURCH, Wholesale and Retail,

#### GOOD EARTH ESSENTIAL.

SERVICE men who received complaints about poor recept in should never fail to examine their clients' earth connections. It generally requires a few months to educate the average radio novice on the necessity for providing an efficient earth connection. The directions given in the radio books, magazines, etc., read "attach the ground wire to a water pipe, hot-water radiator, etc." In the hurry to get the set into operation the new enthusiast makes a very quick job of the earth connection, then wonders why his set will not operate properly. The ground wire does not have to be covered with insulation, although it would be better if it were, but it should be made of a fairly heavy gauge pure copper wire of about 12 or 14 gauge. Se cure an earth as near your set as possible, as the shorter the distance from set to the earth the better will be your results.

A cold water pipe makes the best place to connect the earth wire. First scrape or file about I inch round the pipe, then with a piece of sand-raper brighten the copper wire. Wrap from 10 to 15 turns of the wire round the scraped part of the pipe, pulling it up tight with a pair of pliers. The wire should be soldered to the

pipe, and then wrap the joint with black friction tape or adhesive plaster. This will keen out the air, and prevent the bright part of the pipe and wire from oxidising and so reducing the efficiency of the earth in a short

#### WEIGHT OF COPPER WIRE.

THE following table showing the number of feet per pound of copper wire, should prove handy to dealers :-

WIRE	E TAB	LE OF	FEET	PER	POUND.
B & S	Single	Double	Single.	Double	
auge	cotton	cetton	oilk	silk	Ename
$2\overline{0}$	311	298	319	312	320
21	389	370	403	389	404
22	488	461	5C3	493	
23	612	584	636	631	642
24	762	746	800	779	810
25	957	903	1.005	966	1,019
26	1,192	1,118	1,265	1,202	1,286
27	1,488	1,422	1.590	1,543	1,620
28	1,852	1,759	1.972	1,917	2,042
29	2,375	2,207	2,570	2,485	2,570
30	2,860	2,534	3,145	2,969	3,240
31	3,800	2,768	3,943	3,683	4,082
32	4,375	3,737	4,950	4,654	5,132
33	5,390	4,679	6.180	5,869	6,445
34	6,500	6,168	7,740	7,111	8,093
36	8,050	6,737	9,600	8,534	10,197
36	9,820	7,877	12,000	10,039	12, <del>8</del> 13
37	11,860	9,309	<b>15.00</b> 0	10,666	16,110
38	14,300	10,636	18,660	14,222	20.274
39	17,130	11,907	23,150	15,515	25,519
40	21,590	14,222	28,700	21.333	32,107

#### LOFTY STATION TOWERS

#### DANGER TO AVIATORS.

To eliminate a serious hazard to aviation which is developing rapidly in commercial centres, the United States Federal Radio Commission state they may find it necessary to order owners of broadcasting stations to mark their towers in order to increase the visibility to flyers.

Aeronautical experts of the United States Army, Navy, and Commerce Departments have approved methods of marking air navigation obstructon such

set for any reason, and brushes against as radio masts, transmission towers, he wire, the joint, if not mechanically and flag poles in the immediate vicinstrong, may break. ity of an airport, intermediate landing field or civil airway.

Three methods of painting are recommended: For the maximum desired commended: For the meximum convisibility, towers less than 250 feet in height should be painted alternate bands of white and chrome yellow separated by black bands one-half the arated by black bands one-half the width of the white and chrome yellow bands.

As an alternative, the towers could be painted with bands of chrome yellow and black. As another alternative, the towers could be painted with bands of black and white or black and aluminium. From sunset to sunrise, the towers should be marked with red lights, making 80 to 120 flashes a minnte. In order to afford adequate pro-tection to aircraft the experts recom-mend that lights of higher candle power be used on major obstructions in

he vicinity of landing fields.

Additional fixed red lights using 50watt lamps are suggested for radio towers, one being placed at two-thirds of the height and one at one-third of the height of the tower. These lights would be arranged so as to be visible from any angle of approach.

#### CLEAN YOUR SET

#### EXIT DIRT AND DUST.

A clean radio set is most important best results are required, and now that many listeners are cleaning their sets, the correct method of cleaning should be fully understood by every amateur. Outside of the regular testing of batteries, valves, aerials, and earth, dust and corrosion must be care-

fully removed.
The first thing that the serious broadcast listener should do is to dismantle his aerial system, wash the in-sulators in carbon tetrachloride or some other agent, which will remove the heavy accumulation of dirt and dust. Then examine the aerial itself. Is the lead-in joint tight and making good connection? Has natural oxidisation made a poor connection? Wouldn't it be worth while to put up a new wire and attach a new lead-in? Wouldn't it be worth while to change the direction in order that some of those long-distance stations be received? Whits these matters seldom occur to the average radio set owner, nevertheless they are very important.

Use the Vacuum Cleaner.

Then on the set itself. Take it out of the cabinet, and if a vacuum cleaner is handy, use the long hose attachment and carefully clean every last trace of dirt and dust from the set. Jse a pipe cleaner folded double and clean the plates of the condensers thor-oughly, and see that the socket connec-tions are bright and shiny, and that the movable connections are all solid,

and will last.

Thoroughly clean the set from aerial to earth, cleaning all connections, brushing out dirt from the corners, cleaning off all surfaces where connections are made, testing all valves, and in short, giving your set a house cleaning. You will find out that much better results will be obtained from a set if it is given these periodical cleanings than if it is just dusted off from the inside with little or no attention paid to the inside.

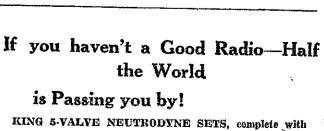
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FOR 2 ACCUMULATOR CELLS

WHILIPS CARE FOR EVERY SOCKET IN YOUR RECEIPTION

.ET EACH VALVE BE A

**BATTERY SAVING Miniwaff** 

FOR 3 ACCUMULATOR CELLS

(5 volts) Asos Los amplican purpose ... 13/1 Bsos Le amplicano e power ... 13/1 FOR RESISTANCE COUPLING
A226 (.06 AMP.) TWO VOLT ... 18
A425 (.06 AMP.) FOUR VOLT ... 18
A530 (.06 AMP.) SIX VOLT ... 15

# Radio Record

#### PUBLISHED WEEKLY.

Printed Tuesdays to permit of effective distribution before the week-end, with full copyrighted programmes for the succeeding week. Nominal date of publication

#### SUBSCRIPTION RATES.

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#### ADVERTISING RATES

Schedule of Advertising Rates available from all advertising agents in New Zealand, or write: "Advertising Manager," Box 1032, Wellington.

Advertisements requiring setting should be in hand not later than Friday of each week to ensure publication in succeeding issue. Stereos and blocks, providing space has been arranged beforehand, can be accepted up to midnight Monday. Contract advertisements not changed will be repeated.

No responsibility is accepted for blocks, stereos, etc., remaining unclaimed after last use, beyond a period of three months.

A. J. HEIGHWAY,

Managing Editor,

"The N.Z. Radio Record,"

P.O. Box 1032.

Dominion Buildings, Mercer Street, Wellington.

FRIDAY, APRIL 27, 1928.

#### QUALITY AND VARIETY IN PROGRAMMES.

We would particularly draw the attention of readers to a pronouncement on the vexed question of quality versus variety in programmes, which has been made by an experienced programme organiser in the United States, Mr. Robert Hurd, of KFI. This is reproduced in toto on page 5, and contains points which are particularly applicable to the Dominion. From this statement it is plain that the United States in spite of its greater resources in talent and population, has experienced the same complaint from listeners as regards lack of variety in programmes as have been experienced in this country. The broadcasting stations have been faced with the problem of giving variety in the personnel of performers, and thus necessarily sacrificing quality, or maintaining quality of performance at the risk of incurring charges of monotony and lack of variety. The observations of Mr. Hurd are so applicable to our circumstances that we need do little more than direct attention to them. As a musical director his definite choice falls in favour of maintaining quality in performer. A comparison that he makes with the daily newspaper and the moving picture is quite pertinent and interesting. One daily paper, he points out, is much the same as another, and the vast percentage of its news to-day is written by the same pens that supplied it yesterday. In the moving picture halls the same stars are featured to-day as dominated the scene recently. Quality in personnel is maintained, and variety secured by a widened appeal. The lesson to our mind is wholly in favour of the finished performer being encouraged to widen his or her repertoire to the fullest possible extent. This is not to be taken as withholding opportunity from aspiring performers-but these aspirants must, in our opinion, in justice to the listener, be required to measure up to the standard desired before being broadcast. Variety of performer in itself has no virtue.

The measures being taken to secure variety in regard to the new professional orchestra for 2YA seem likely to give practical satisfaction. It is hoped they will do so. As to the quality of this orchestra there can be no question. It is in essence an all-star cast, and takes rank as the premier combination in the Dominion. Small in numbers-ten performers-it is, however, fully capable of rendering finished interpretations, and with the scope being given for public selection of items, it would seem that a considerable degree of satisfaction should result. In essence the public is to be given the task of pleasing itself.

#### CHRISTCHURCH JUBILEE

LOST AND FOUND

Diamond Julilee celebrations will broadcast by 3YA.

3YA recently broadcast a description take place in Christelnurch May 23-29.

Many forms of entertainment large home. Some time later the mother Many forms of entertainment have been rang up and thanked 3YA for having arranged, and several of them will be been the means of securing the return of the little one.

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### 2YA's New Orchestra

THE N.Z. RADIO RECORD

#### PUBLIC TO CHOOSE **ITEMS**

#### OUTLINE OF PROCEDURE

As explained in our front page article descriptive of 2YA's new professional orchestra, it has been arranged that the public shall have the opportunity of expressing its wishes and choosing certain items to be broadcast by the orchestra. The choice is to be a double-barrelled one, and is to apply to each of the four evenings a week that the orchestra will be on the air.

Places will be left in the programme each evening for two items to be selected by the public. One is to be a perfectly free choice from the whole range of music in harmony with the calibre of the programme arranged for that evening, and the other is to be a request for a "repeat" of the most popular item given by the orchestra or any member thereof-i.e., any instrumental item-on the corresponding evening of the preceding week. This is necessary in order to maintain the character of the evening's programme.

The nature of the programmes to be broadcast each evening are as follow:-

> Monday ..... Classical Tuesday ...... Operatic Friday ..... Popular Saturday ...... Vaudeville

Nominations for the items to be played are to be sent in writing to the "Radio Record," P.O. Box 1032, Wellington, either on the coupon inserted on page 5 in this issue for the convenience of readers, or separately in writing. Telephone messages in respect of this nomination cannot be accepted either by ourselves or by the Broadcasting Company, We are undertaking responsibility for conducting this regular expression of the taste of the public for two reasons-first, in order not to unduly hamper the work of the station staff; and, secondly, to give an independent selection of the public's desire. Readers of our article on pages 1 and 2 will note that the development of this opportunity for making a choice of items, arose from the claim that the new orchestra was of such calibre as to be able to give a finished interpretation of any orchestral work from symphony to jazz. By thus giving the public the opportunity of nominating works, a practical test of this claim will be made.

It is the special desire of the orchestra to keep in close accord with the wishes of the public in regard to the popularity of the music to be played, and they are looking forward with interest to the outcome of this nominative system that we are inauguraiting. We think the public will appreciate the willingness of the musical director, and the orchestra in falling in with our suggestion, and we personally look for interesting results from the system. An element of expectancy and surprise will thus be introduced into the programmes which will, to a large extent, meet the desire for variety.

Nominations may now be forwarded for the request items of the week covering the orchestra's first appearance. Repeat items, of course, cannot be nominated till after that week has commenced. Address nominations-Editor, "Radio Record," P.O. Box 1032, Wel-

#### WELLINGTON RADIO SOCIETY

ANNUAL MEETING.

The annual meeting of the Amateur Radio Society of Wellington is to be held at 8 p.m. on Monday, May 7, in the Conference Hall (ground floor) of the Dominion Farmers' Institute Buildings, corner of Featherston and Ballance

The agenda paper comprises the following items:

Presentation of report re past year's worl of the society.

Presentation of financial statement.

Presentation of officers for ensuing year.

Special instructive and interesting addresses by experts; display of radio

General discussion on all matters respecting broadcasting.
Reports re recent interviews with the

Broadcasting Company's directors, and general matters which members my desire to bring before the meet-

Ladies are specially requested to at-

### 2YA Plans Concert from Wanganui—120 Miles

#### IF PRELIMINARY TESTS ARE SATISFACTORY

ALL the talent in New Zealand is 1 not confined to the four cities. There must be a lot distributed throughout the country where it cannot be made available for broadcasting. These individual artists cannot go to the broadcasting station, and the station cannot go to them. But, in one at least, 2YA proposes to go to the artists.

This instance is Wanganui, the fifth city of the Dominion, and one of the most musical for its size. A number of Wanganui artists have been heard on the air from 2YA, and Wanganui is the home of New Zealand's champion brass band, the Queen Alexandra's Own, and of the champion Highland Pipe Band (both honours won at the recent band contest in Christchurch), while in musical and dramatic talent the city is very EDDE FRANCISCO DE REPUBLICA DO EN BODO. DE LA ESTA ESTA DE REPUBLICA DE LA ESTA DE LA

All this talent cannot be brought to Wellington, so, by means of a relay line, 2YA proposes going to Wanganui.

Relay lines over such a long distance (120 miles) present great difficulties in the successful transmission of a concert, and 2YA's final plans will depend on a test which is to be carried out this

The project has only been made feasible by the recent erection of a new line to Wanganui, and the Broadcasting Company, with commendable initiative, proposes to take advantage of it at the earliest moment-if it be proved that a satisfactory transmission can be secured.

The wire is to be tested for radio relay purposes on the night of Tuesday, April 24, and if the wire be satisfactory the concert, which will be given by the cream of Wanganui talent, will take place on Thursday, May 17.

#### STATION PROGRAMMES

#### A NOTABLE WEEK

A review of the programmes at the various stations, as published in this issue of the "Radio Record," will disclose a notable week of entertainment.

1YA will broadcast the principal numbers from "Orpheus" (a studio production by Madame Irene Ainsley), a Municipal Band Concert on Wednesday, high class variety on Thursday, Friday (when "Bobbie," a one-act play, will be staged) and on

act play, will be staged) and on Saturday.

A "Lieder Evening is scheduled for 2YA on Monday; May Day will be recognised on Tuesday; "Jane," on Thursday, is the star attraction of the week, and variety concerts mark

the other two days.

The week at 3YA commences with a Band and Beckenham concert. On Wednesday there will be an Irish Concert, ore Thursday a French one. Friday will be a Robert Franz night with a leavening of variety, and on Saturday there will be one of the radio vaudevilles for which 3YA is roted.

Dunedin promises some excellent entertainments, including a comedy night-and Disaedin talent is good.

#### SPORTING

#### NEXT WEEK'S FIXTURES

TROTTING AND RUGBY.

Thursday, May 3: Forbury Park Trots (subject to permission of the club), 4YA.

AYA.
Saturday, May 5: Forbury Park Trots,
AYA; Rugby football, Eden Park,
IYA; Rugby football, Athletic
Park, 2YA; Rugby football, Lancaster Park, 3YA.

#### SPORT IN PLENTY

(By "Audis.")

FOR the week ending April 28 there will be plenty of sport relays from the various stations. Now that winter is here there will be plenty to occupy the attention of everyone each week. The football competitions are week. The notion compension in full swing in all the centres, and descriptions of the games on Saturday afternoons will be a feature of the programmes from each station. While grammes from each station. While there will be a great deal of interest in the All Black team away in Africa, there is still plenty to interest the there is still plenty to interest the players and supporters in the games at home. There is every possibility of a tour of the Waratahs, the successful New South Wales combination, taking place during the season, and while they will really only be called upon to face the third team of New Zealand, these matches will afford about of interest and should result in Zealand, these matches will afford plenty of interest, and should result in the uncarthing of some very promising young talent in New Zealand football, players who, perhaps, would not have had the opportunity of coming into the limelight if the full strength of the Dominion was available for se-

The inter-island game will be played as usual this year, and the Ranfurly Shield games will continue. The holders of this coveted trophy—Canterbury—have probably been harder hit by the absence of the All Blacks than any other province, as eight of their hest players are away on the tour. Still, there appears to be quite a feeling of optimism pervading the ranks of the Red and Black supporters, and already one or two guesses at the com-position of the defenders' team have been heard. While the retention of the shield will be more than their most ardent admirers expect, it is like-

prove that Canterbury has some promising material to rely on in the future. Interest in Wellington, Auckland, and Dunedin seems to be as great as at any other period, and all private are legicing forward to conther unions are looking forward to another record season.

record season.

On Saturday, April 24, the Wellington Trotting Club hold their final meeting of the season, and it goes without saying that this meeting will be as great a success as the previous ones this year. The Wellington Club are now definitely established, after many years of hard work, and there is no meeting on the trotting calendar which is more efficiently run, or one is no meeting on the trotting calendar which is more efficiently run, or one at which it is more enjoyable to be present. The club are extremely fortunate in their choice of president, Mr. R. A. Armstrong, whose efforts on a race day make him a very busy man; yet he has time to devote to the attention of the many visiting owners. tention of the many visiting owners, trainers, and supporters.

The handicaps for this meeting are

published at the time of writing. The fields are very satisfactory, and the material of a sufficiently high class to make an extremely interesting day's racing. The Wellington public are quickly becoming proficient in the art of spotting winners, as dividends at the last meeting proved, and in the case under review, as many of the horses have appeared at Hutt Park horses have appeared at Hutt Park on previous occasions this season, the form of many will be very familiar to the majority of patrons. All that is required to make the meeting a success is good weather, when some very fast racing should be seen. Among the well-known horses handicapped are such speed merchants as Logan Park, Logan Chief, Padlock, Petervah, all of whom are eligible for the New Zealand Trotting Cup, and such promising young horses as Jean McFlwyn, Loch Moigh, Native Prince, The Shrew, and others. This meeting will be broadcast from station 2YA from before the first race, and 2YA from before the first race, and the station will switch over in the intervals between the races to Ath-letic Park for a relay of the Rugby

At Dunedin on the same night the professional feather-weight contest be-tween Johnny Leckie (champion of New Zealand) and Gillespie (champion New Zealand) and Gillespie (champion of Australia) will be broadcast from the ringside, and this should prove a great altraction. Leckie promises to be favourite, as he has not been beaten since joining professional ranks, but Gillespie will be in much better form than when he met Griffiths a fortnght ago.

#### CHURCH BROADCASTS

#### 2YA CHURCH COMMITTEE.

In order that the broadcasting of church services might be arranged most satisfactorily to those concerned, a 2YA Church Service Committee was constituted last week on the invitation of the Radio Broadcasting Company, from representatives of the principal from representatives of the principal denominations. Those in attendance were the Rev. C. V. Rooke (Anglican), the Rev. R. S. Watson (Presbyterian), the Rev. E. D. Patchett (Presbyterian), the Rev. F. H. Harry and Mr. North (Baptist), the Rev. E. Weeks (Congregational), Pastor W. G. Carpenter (Church of Christ), and on behalf of the company Mr. A. R. Harris, general manager, Mr. C. S. Booth, administrative staff. The Rev. E. Weeks was elected to the chair.

Preliminary discussion emphasised the usefulness of this adjunct of broadcasting religious services, and the chairman, Mr. Weeks, expressed the view that an outcome of this taking of the Gospel to the people would be a definite religious revival over a period of years.

A draft constitution as submitted was discussed in detail and adopted with minor amendments. It was resolved that a Church Service Committee should be constituted to consist of one representative of each of the churches represented and to be ap-

A statement as to the time to be made available for church broadcasts in respect of allocation by the commit-tee was submitted on behalf of the

the shield will be more than their most ardent admirers expect, it is liked by that the holders may stem one or two challenges for the trophy, and so the committee on May 23.

pointed.

Variety or Quality in Programmes.

The most appropriate comment that we have encountered on the vexed programme question of quality or variety comes from Los Angeles in an interview with Robert Hurd, KFI's programme director. This shows that despite America's

"Fully eighty per cent. of the people registered with

greater size and resources her broadcasting stations are encountering exactly the

American broadcast stations as available radio entertainers are

hopelessly mediocre," says Robert Hurd, KFI programme

director. "Of the remainder, ten per cent. may be rated fair,

"Shall programme directors be governed by the dictates of

variety or those of quality in building their programmes?" he

continues. "Shall we eliminate the eighty per cent. at once and

build our programmes for quality and quality alone, regardless

of how often the good artists appear, or shall we run the sad

and weary gamut of mediocrity, for the sake of the possible

insist on using the inferior ones, then we have the ridiculous

situation of a station broadcasting, knowingly, and with malice aforethought, inferior programmes by inferior people for no

other reason than not to bore John Doe and his radio-party.

Poor entertainment by new people will annoy Mr. Doe and his guests more thoroughly than will good entertainment by the same people he heard last night. To-day's metropolitan news-

paper is made up of about forty per cent. standard material, while the remaining space is filled with news very like yester-

day's, written by the same men who wrote yesterday's news. This week's Satevepost is very like last week's, with the same

type of cover and the same type of stories. Would its editors

choose in place of a good story by an old author, a mediocre

story by a new author just for the sake of variety? The motion

picture industry constantly seeks new faces, but does it as a

matter of routine choose people it knows are inferior to its stars to be featured in each new picture just for the sake of

Needless to say the elements of each night's programmes may

necessary to use their good artists nightly to maintain a

certain standard. Larger stations in musical centres with

more people to draw from may broadcast for longer

periods before repetition becomes necessary. All sta-

tions, however, are now using too many people in the

estimation of those who have studied the situation. The

broadcaster's watchword should not be 'Is It Different?'

"My personal belief," Mr. Hurd concludes, "is that the variety bugaboo is responsible for much of the hog wash that nightly dilutes our nation's broadcasting.

"Small stations in small communities may find it

"If we grant that all artists are not equally good, and still

five per cent. satisfactory, and five per cent. A1."

variety demanded by a mythical, restless audience?

same comments from listeners that are being experienced in New Zealand,

#### THE PERFORMER'S POINT OF VIEW

The following letter was sent to an Auckland paper which has published much matter about broadcasting from the listeners' point of view. But this version of the position did not appeal, and only some of this letter was given publicity The writer has therefore forwarded to us:-

A great deal has appeared in the Press from the point of view of those who listen in, about the quality of the programmes, and of the artists who broadcast from time to time, but so far as I have not noticed anything from the broadcaster's point of view about listeners-in. I was at the listeners-in meeting here last month, and noticed a number of prominent artists there, and at first I hoped one of these performers would arise and tell the listeners-in on behalf of the others just what they thought of them. However, it was very soon apparent that the meeting had been called to "bait" the Broadcasting Company, and to let one particular speaker have a night out and air his wit, if that is the right word for it; so the artists, and many others who disagreed with most of the speakers (that is, about half those present) lay low and kept their thoughts to them-selves. After all, it was the listeners' meeting, they had paid for the hall, so

Now, let me say a word or two from the performer's point of view. The listeners, or many of them, evidently think that the payment of a few pence a week gives them the right to ring up the radio stations, without giving up the radio stations, without giving their names, and make offensive re-marks or comments on some of the items, because, fosooth, those items do not please their particular taste, although they may be most pleasing to thousands of others listening in. Some of these listeners-in appear to think, too, that they have the right to write offensive, and (of course) anonymous, letters to the art-ists, and evidently to the company,

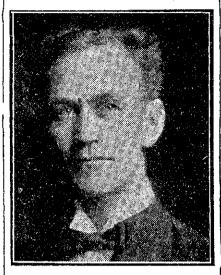
too, judging by what one reads in the "Radio Record," objecting to their Record," objecting to their This, mind you, to some of the leading performers in the Domin-ton, not to mere "try-outs." But in any case, whatever the standing of the performer, he or she is entitled to common courtesy. What on earth has given these people the right to be rude and offensive to the broadcast-Just imagine a state of things where at a public concert members of the audience got up and shouted, "Can't yer stop that woman howling? or "Why don't you shoot the cows?" and a few other pleasantries of that sort. This is the kind of thing that frequently cornes through thing that frequently comes through on the telephone, and yet other listen-ers-in are good enough at times to write and express the pleasure they have received from these very items It is about time the listeners realised that no programme or artist can ever please all listeners at the one time. The tastes are much too varied in such a vast audience, which may number 10,000 or even 40,000 or more. Unfortunately most of the people who enjoy the programmes don't bother to write or ring up. It is usually a pestiferous minority who make the noise. After all, how many people actually opposed to the company attended to provide the company attended to the company at the provided to the company at t tended the meeting here in Anckland a few weeks ago? Possibly 150 to 200 out of something like 12,000 subscribers (license holders), and cf those 150 or 200 probably not more than 50 were license holders. These folk made a lot of noise, of course, but it was a small percentage, wasn't it? If the dissatisfaction had been in any way general, why, the large Town Hall could not have held them.

Well, listeners, if you don't like an item, or items, shut the darn thing off and try again later. I may not off and try again later. I may not be on then, but don't be rude, or if you must, at least give your name and address.—A REGULAR PERFORMER.

#### 2YA LOSES UNCLE JASPER

2YA is losing the services of Mr. Clive Drummond as an antionneer and as Uncle Jasper. This news will be received with regret by thousands of listeners in grown-up and children alike. Mr. Drummond, who is a member of the Civil Service, has received notice of his transfer, on promotion, to Paeroa, where he is to be postmaster. He will be a considerable loss to radio in New Zealand.

Mr. Drummond was the announcer at old 2YK, the make-shift station which carried on in Wellington prior to the opening of 2YA, and he did the announcing to the exceeding satisfaction of all listeners. To him was entrusted the announcing on the opening night of 2YA, the most important radio event in New Zealand. It was the Broadcasting Company's way of paying



MR. CLIVE DRUMMOND.

a tribute to Mr. Drummond for his past services, and an acknowledgment of his ability. Since then Mr. Drummond has frequently been heard announcing at 2YA, another special occasion being

that of the Maori Radio Pageant, After the opening of 2YA, Mr. Drum-mond "broke out" in a new place. He became an uncle, and as Uncle Jasper, with Spot, his dog, he was soon a prime favourite with all the children. In Paeroa a listening-in set will be a very poor substitute for a broadcasting station to Mr. Drummond, who has always been a radio enthusiast—at the transmitting end. Uncle Jasper will be leaving Wellington on Thursday, April 26, and his farewell at Thorndon Station will be broadcast during the children's session.

2YA CHILDREN'S SESSIONS

SERVICE COMMITTEE FORMED.

A conference in respect of the children's sessions at 2YA was attended by Miss Sealy (Girl Guides), Miss Thornton (Training College), Miss Dunlop (Y.W.C.A.), Mr. Mabin (Boy Scouts), Bro. Phelan (Marist Brothers), Mr. Greenberg (Y.M.C.A.), Mr. Anderson (Headmasters' Association), Mr. Howes (Sunday School Union) and

Bro. Phelan (Marist Brothers), Mr. Greenberg (Y.M.C.A.), Mr. Anderson (Headmasters' Association), Mr. Howes (Sunday School Union), and "Aunt Dot," "Uncle Jasper," and "Uncle Toby," Mrs. A. R. Ifall (principal, children's department), Mr. A. R. Harris, general manager of the company, and Mr. J. Davies, station director to 2YA. The Rev. E. Weeks was elected to the chair as senior "uncle" at the station.

It was resolved that an advisory committee be formed, and the constitution as submitted was adopted. The first committee meeting was fixed for next

#### WHY YOU SHOULD LISTEN-IN

(By B Sharp.) (Specially Written and Voluntarily Supplied to "Radio Record" by a well-known Musician.)

STARTED learning music when five years old, and it looks as if youngsters will be like their dad and take to music easily. The old days when I practised 4, 6, and sometimes 8 hours a day proved at times a nuisance because I wanted to play "kick the tin," "fox and hounds," "snowballing," and "tin tack"; still, I will never be and "tin tack"; still, I will never be able to thank my dear old mother enough for paying the fees for my lessons. I had two lady teachers, then finished off with a master, the result being I can now read almost any music rapidly at sight, can accompany for singers, and have a keen ear for all music, especially instrumental music. Therefore, the remarks which follow are penued by one who can appreciate good music, and without in any way desiring to be egotistical, I offer the following suggestions for what they are

All people love music; music acts upon the nervous system as no drug, tonic, or medicine can possibly act. After a hard day's business, with the nervous system just about ready to break, when men reach home they feel the want of complete quietness and rest

from business worries.

Very good; have you seen such a man, after dinner when his friends or child plays the piano, or some other instrument, or sings a nice rollicking song? That man changes his whole temperament; from a smileless face, with lines possibly drawn across through worry, probably over his business finances; he suddenly smiles, and within a moment that man's whole countenance has changed completely. Hıs wife shows her pleasure at his children become more frolicsome, and the home atmosphere has turned

Well, now, there are not many to-day who desire to practise; many are too busy to study; others, whilst loving music, have not the desire to test their ability out to see what they can really accomplish.

Others again have no piano, and may feel they cannot afford to buy a piano on the off chance that one of the family might practise, or some kind neigh-bour stroll along occasionally and play

it for them.

This is where radio broadcasting comes in handy.

I sit in my chesterfield nightly, with my quiet smoke, and paper or book, and I have the musical world—so to speak—at my very feet.
I put on my carpet slippers, rest my

weary legs, sit comfortably back and reflect whilst the beautiful music pours forth into the loudspeaker. The strains of some beautiful melody, per-haps one well known to me, come

from the broadcast studio or concert hall, probably many miles away. The marvellous, finest, and most beautiful melodies visit my home all beautiful melodies visit my home all the way from Auckland, Christchurch, Dunedin, Wellington, Sydney, Mel-bourne, Brisbane, Adelaide, Perth, America, Java, Holland, London, Jap-an, India, and so on; and what do I pay for it? Fees, 2s. 6d. a month, not the price of 50 cigarettes. Re-markable when one thinks for a mo-ment.

The cost of installing a set, of course enters into the matter; but as reason amle terms can be obtained this should not preclude anyone from becoming a wireless listener.

A crystal, with or without amplifier, will provide excellent entertainment. Consider for a moment the happiness radio brings to the home: You have music waiting for you just when you please; and the kiddies can listen-in to the children's sessions and derive considerable education, musical advance-ment, and happiness therefrom.

Some people always take a long time to make up their mind to do anything, hilst others enter right into the spirit f the thing and have the satisfaction f obtaining knowledge, education and musical entertainment.

It seems hardly possible that anyone could live in these days without
knowing what radio really means;
there are, however, many who do not
realise the great pleasure to be derived
from radio broadcasting.

It is simply activiting the children

It is simply astonishing the strides and advancement which the radio engineers have achieved. In a few short years we have found out how to transmit music and speech right round the world-truly remarkable.

Are you a listener, I would say in conclusion? If not, let me of-fer my very best advice as a lis-tener of several years' standing, and a musician of 38 years' standing: Do it now! See your local radio provider, and you will find your home a different one from a social point of view this coming

#### DANCING ABROAD

but 'Is It Good?'."

and should be diversified.

TALKS BY MISS MARGARET O'CONNOR.

Miss Margaret O'Connor, whose name in Wellington is closely associated with the art of dancing, has just returned from a tour of the British Isles, France and America. full advantage of the opportunity afforded by her tour, Miss O'Connor studied under such world-famous teachers as Santos Casain, Barbara Miles, Josephine Bradley and others. Her dancing met with instantaneous success wherever she demonstrated, and Miss Barabara Miles, herself an ex-world's champion, strongly advised Miss O'Connor to remain in London to compete for the professional dancing championship of the world. Miss O'Connor and her partner have been engaged by the Regent Cabaret, Majestic Theatre, and Dixieland Cabaret in Auckland for special exhibitions next month of the modern popular dances. Miss O'Connor will shortly commence a series of lecturettes on "Doings and Dancing in Other Lands" to be largely the studies. "Doings and Dancing in Other Lands," to be broadcast from the studio

# Tuesday. Regret was expressed by the chairman at the impending departure of "Uncle Jasper" (Mr. Drummond) from Wellington. Mr. Weeks said a very wide circle of children would be disappointed at their coming loss. Mr. Harris endorsed these remarks, and conveyed to Mr. Drummond the appreciation of the company for his assistance. CORRECTION NEEDED

The Australian listeners are treated to some strange information regarding the New Zealand broadcast stations by the Sydney "Wireless Weekly." The following appeared in the issue

at the station.

of April 6:—
"IYA, 2YK, 3YA, and 4YA are all controlled by the New Zealand Broadcasting Company.

2YK is in Wellingcasting Company. 2YK is in Wellington, 3YA in Christchurch, and 4YA in Dunedin. There is no transmission from IVA on Mondays, and on Sunday a church service is broadcast, followed by musical entertainment till 9 p.m., after which the station closes down till Tuesday morning.
"The transmitting equipment at

Christchurch is similar to that at Auckthe week, except Thursday, from 7.45 until 10 p.m. 2YK operates every day of the week, except Wednesday.

"However, 4YA and 2YK are only temporary stations, as are the scheduler.

"IYA may be found on 420 metres, and has a power of 500 watts, 2YK works on 205 metres, and 4YA on 380 metres, but the power is comparatively

The "Wireless Weekly" might enlighten its readers with the news that there is no station at Wellington using the call-sign 2VK. It has been defunct for many moons. Its readers may be interested to know that the Wellington station, 2YA, 420 metes, 5000 watts aerial power, is the second most power-ful broadcast station in the British Emrire. Also the wave-length of 4YA is 463 metres, not 380 metres. The hours of transmission by 4YA (and, in fact, of the four stations) are from 3 p.m. не данаринации при при теритери при при теритери при теритери при теритери теритери при теритери тери

CAUSES INTERFERENCE.

A STATION SUED

The Italian Educational Broadcastng Company, operating station WCDA (New York), brought suit for 100,000 dollars: (£20,000) against WOR (New Jersey, New York state), in the Federal court recently. According to Earl W. Dannals, managing director of WCDA, the managing director of WCDA, the suit is based on interference caused to his station by WOR, which is owned and operated by L. Bamberger & Co. WOR operates on a frequency of 710 kilocycles, while WCDA works on 1,420 kilocycles. Mr. Denuals said that the interference was caused by WOR's general ference was caused by WOR's second harmonic, which has a frequency of 1,420 kilocycles, and was due to negligence on the part of the en-gineers in charge of the Bamberger transmitter who have failed to suppress its energy.
WCDA went on the air last Novem-

ber. Shortly after it commenced operations it received complaints that there was a heterodyne in its channel. Mr. Dannals said engineers howl to WOR's second harmonic. He saidthe Bamberger station was then asked to co-operate in eliminating the interference, but failed to do so. A complaint was then filed with the Federal Radio Commission, he declared, which ordered WOR to cor-

rect its harmonics. C. T. Gannon, assistant director of WOR, admitted that notice had been served upon his company. He said that so far as he knew the suit came as a surprise and that he had no knowledge of the Federal Radio. Commission's ever having taken any action in the matter.

#### MARKET REPORTS

Fruitgrowers and market gardeners will be interested to know that 2YA in future will give, on Monday and Tuesday evenings, between 7 and 8 p.m., the latest market reports supplied by Market Gardeners, Limited (Welling-

# Cheap Autumn Ortings by Rail

ANOTHER BIG COMMUNITY SERVICE.

Fathers, mothers, children, cousins, aunts and others, are offered special holiday excursion fares from all stations, from May 3 to 16 (tickets available for return until June 2). Give the young folks a safe and pleasant outing by rail during the school holidays.

Communicate with the nearest Stationmaster, District Manager, or Passenger Agent, for full particulars.

#### Nominations for Orchestral Item

"R.1DIO RECORD," P.O. Box 1032, Wellington.
For evening of (fill in day and date)
**********
My request for the open item is
•••••
My choice for the repeat item is
Signed

# From the Woman's Point of View. By VERITY.

# TO-DAY AND TO-MORROW

They Say:

That many people, while listening to Archbishop Averill's able and inspiring sermon at the Pro-cathedral on Sunday morning, regretted that it could not be broadcast for the spiritual help and enlightenment of the community.

N.Z. in London.

New Zealand was represented recently at a revival of "The Beggar's Opera" in London, where its popularity has never waned. The Misses Burton were there, taking a night off from arduous study of arts and crafts. They were accompanied by Mrs. S. K. Sleigh, also Loria Smith, whose fine contralto is having the best of English training; and they all hailed from the Scottish Near to them sat Mr. Marsh, who it will be remembered, was art director of the memorable exhibition of 1925-26; and he told how, at the first Hammersmith production of the opera, Mrs. Edwards used to go to all the rehearsals, studying the characters and modelling from life those charming figures from the quaint musical masterthat ravished the eye in the piece that ravished the eye in the British section of the exhibition, where Folly Peacham smiled her vay 19to everyone's affection.

War-Time Heroism Recalled.

Miss K. M. G. Mary Davies, the youngest daughter of Sir R. H. Davies, formerly Lieutenant-Governor of the Punjab, India, has died at Cannes, says the "Morning Post."
She ranked with the heroes of yellow

fever and malaria because, just as they injected themselves with those diseases, so she, as a nurse working at the American Hospital, Neuilly, Paris, in 1915, deliberately injected herself with the bacillus responsible for pro-

ducing gas gaugrene.

At the time she was working as a bacteriologist under Dr. Taylor, whose duty it was to investigate the causes of gas gangrene, which was resulting in numerous deaths and amputations. Dector Taylor was experimenting with guinea pigs, but was unable to obtain results which would allow him to apply his conclusions to human beings

Last Experiments."

The erucial experiment of inccurating a human being with a pure culture of the bacillus was necessary, and this appeared to be impossible Miss Davies who had studied bacteriology at the Pasteur Institute, had seen about 209 fatal cases of gangrene, and had seen guinea pigs die, but also recover, under Dr. Taylor's experiments.

#### THE ANNIVERSARY

(By Olwen A. Joergens.)

I WOULD not question when you went away----

There is a right beyond our loves God knew:

And when hushed voices spoke of death,

Vision of life through you.

Now, when the spring and summer sweep along. Proud with new days, I lift my head

and smile:

When noble deeds are talked of, and great love.

close my cyes-

But at day's end, O Heart, when years roll by,

And still new lovers linger in our lane, Oh, One out of the world, why was it

And there is pain, dumb pain.

>0

Without revealing her intention, she took a room near the hospital, and one day Dr. Taylor received a note from her, asking him to come at once to

make "last experiments." He found that she had given herself two deep injections of the culture of the bacillus, in the muscles of each thigh, and had thus furnished him with a pure case of gas gangrene. Dr. Taylor at once injected the antidotal preparation of hydrochloride of quinine with which he had been working.

#### Risk of Death.

Miss Davies was removed to the American Hospital, and in 24 hours she was pronounced out of danger. By her self-sacrifice in taking the risk of a painful and lingering death she had proved the efficacy of the cure, and had thus saved thousands of lives. treatment was subsequently used at the American Ambulance, but the modesty of Miss Davies prevented any honour accruing to herself.

The best memorial of her life, a relative writes, would be for a further investigation to be made in this respect.

#### Embrocation.

Take half a pint turpentine and two eggs, put all into large hottle, cork it, and shake till the mixture becomes a cream, then add gradually one pint of vinegar and bottle for use. This embrocation will keep for years, and is improved by the addition of a small lump of camphor.

Coming Fashions.

Fashions to-day are divided into tree classes. There are day-time three classes. clothes for town, evening gowns, and sports clothes. One might think if sports clothes. would be difficult to confuse three such definite groups, but those who wear satin shoes on the street, high heels, with tailored suits, and silk stockings on the golf links, are so numerous that no census taken on taste could over-

Ensembles will increase in number for sports, afternoon, and general wear, but this will not make for monotony, and frequently the coat will belong to the dress by virtue of the merest convention of a thread; also that uniformity will be dead, and women will dress according to their personalities, their activities, and the occasion controlled by the permanent limitations of good taste and the current limitations of the mode.

The Sports Mode.

The tailored top-coat for travel, or sports wear is straight and tight-fitting, belted or unbelted, and may be fur-trimmed or plain. It may be pleated or trimmed self tucks. Pockets are essential, and often belt arrangements are cut in one with pocets, panels, sides, or back. Cardigans continue in favour, and

are tight-fitting at the hips and but-toned fairly low. They are multi-col-oured, checked, have horizontal stripes, and are of plain colours, finished silk bind.

Jumpers are interesting. They are woven, they are plain, or of fancy jersey, in one, two, or three colours. They are belted or unbelted, liave square or round close-fitting fisherman necks, and with or without collars.

"THE BETTER WAY"

A COMPETITION FOR HOME-MAKERS.

MONTHLY PRIZES.

All women whose homes are to them a source of abiding interest and delight, have their own treasured secrets of housekeeping: It may be an unusual recipe, a scheme for brightening an uninteresting room, a labour-saving notion, an idea for decorative work, a dress or toilet hint, or a pet economy. There is always a special method of performing various household tasks—the "bet-ter way." "The Radio Record" offers a prize of half a guinea each mouth until further notice for "Better Ways" from our women readers. The right is reserved to publish any entry not awarded a

prize on payment of a fee of 2/6. Entries must be written in ink, on one side of the paper only, and the name and address of the competitor should be written on the

back of each entry.

The May "Better Way" competition closes on May 11, and the result will be announced on the women's page on Friday, May 18. All entries to be addressed: "VERITY,"

C/o "Radio Record," Box 1032, Wellington. Country readers are advised to post their entries early to ensure their being in time.

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# TO-DAY AND TO-MORROW

Princess Arthur as Hospital Nurse.

Few people who know Princess Arthar of Connaught and the wonderful work she does for charities would be-lieve that she could find time to go to a nospital in London every day she is in fown, don nurse's uniform, and carry on the ordinary work of a nurse; but she does so, driving herself in a little blue two-seater car, morning after morning, long before many of her triends are astir.

The following incident is interest-ong: A well-known surgeon was driving a house to perform an operation, when be came upon an accident.

The surgeon took the injured man to tiospital, where he left him in the charge of one of the nurses.

On his way back he called to see how the man wa"Who did mis bandage?" he asked, and the nurse who was entrusted with this piece of work was printed out to

him.
"It is beautifully done," he said, and even then he did not recognise the nurse as Princess Arthur of Connaught.

Children's Community Singing.

The charms of community singing have spread, and at 3LO the kiddies are to have their own community singing half-hour. For some weeks past been taught over the air, and it is thought that the time is now ripe to gather them together and discover how much they have remembered. Apart from the e"entertainment" side of the question, the community singing halfhours for the children will have an immense educational value, training the youthful memory and sense of rhythm, and cultivating a good ear for

Royal Visit to Trade Fair.

The King and Queen, accompanied by Princess Mary Viscountess Lascelles, spent a busy morning recently at the British Industries Fair at the White

They were greeted on arrival by Sir Philip Cunliffe-Lister (president of the Board of Trade) and Mr. Amery (Sec-

The Royal party then separated, the Queen and Princess Mary making a shopping tour in one direction, while the King inspected other exhibits. They visited stall after stall, talking with the attendants, and displayed in-timate knowledge of the great variety of manufactures.

The King and Wireless.

The King showed a surprising knowledge of wireless. At the stall of the Langham Radio Company His Majesty told one of the attendants that he found difficulty in cutting out London from his set at the Palace. His Majesty said that he could not get Paris or Germany on his set there, but added that there was no difficulty in getting foreign stations from San-He has an expert's knowledge of wireless, and knew all about the wavelengths and dial readings on his own set.

The Queen's Quaint Purchase.

The Queen showed herself a connoisscur of genis. One of her early visits was to the stall of the National Jewellery Association, where she examined a Chaldean necklase 4000 years old, such as might have been worn in the days of Abraham. Her criticism of some Australian emeralds shown her was that they were "not clear, but of quite good colour." She was attracted by an old She was attracted by an old Persian ring, which contained the tooth of a wild animal as its chief decoration, and had nothing but praise for a box cut from a single amethyst, in-laid with gold.

Many Purchases.

Her Majesty and Princess Mary made many purchases during the morning. The Queen retains her preference for Shopping bags, shingle blue. note cases, rugs-a dozen novelties-all seemed to be in varying shades of A nursery rug, with Little Bo Peep sitting upon it, is probably destined for Princess Elizabeth; and some tiny Royal protege will have much pleasure from the "Ben Hur" chariot, with its galloping horses and little charioteers, which the Queen purchased from a stall run by disabled ex-soldiers.

#### Annabel The Letters of

My Dear Elisabeth,-

ated the presence of so many distin- A novel idea to be seen at present is the guished visitors who are attending the painted jumper, easily to be carried out the Capital City, three years ago at Dunedin, which sweet city of hosing terms. Great dignitaries foregather daily and hold commune on matters of import to the religious life. A strange and moving thing it was to hear the out-of-door service at Quinton's Corner on a recent evening; the Church of England is but rarely brought to our doors, so to speak, or preached to the man in the street. An experience that will live long in the memories of those privileged to see and

No more appropriate gift could be imagined than the bronze of great Fergusson to the Otago Women's Club. From Italy comes that winged figure of women. eye and the taste of those who love

beauty. Intriguing, indeed, are the texture and glow of that ring velvet which, it is to be foreseen, will be a vogue in the coming season. Of this caressing silken stuff, greatly to be admired was a gown recently worn by a dainty dame in porcelain, whose clear and pale colouring was enhanced by the pearly greystess of that enviable garment, which obviously had been swished and draped shoes and shoulder-knot of satin rose- lovely things and lovely names, with a

buds of sober hue added the right touch sound as of sunshine breaking on waves Wellington has greatly appreci- to an ensemble graceful and appealing. General Synod, this time assembled in by anyone clever at designing, the colour, of course, to be splashed on in a fantasy of the cubes and triangles of pitality is spoken of by many in glow- the moment. Attractive, and of a comfort not to be despised in these chill days of autumn, is the morning coat of velvet, matching, as it does, the simple silken frock with which it will be worn. Evening gowns of tulle are fascinatingly frilly and flouncy, and cunningly contrived to float enticingly above a sheath-like slip, fashioned as closely as may be to slenderness revealed.

The recent mannequin parade in London, where jewels to the value of many thousands of pounds were worn by slick and sliding mannequins for the delectation of society, recalls a novel by Robbeauty which is to be presented by Lady ert Hichens, that delver into the occult, and also, incidentally, the hearts of 'Twas a strange tale he told rare loveliness, akin as it is in subtlety of an enormous emerald, all carven with mender of shabby shoes, who is by way of appeal to the Victory of Samothrace a strange device, like the banner in that -but complete, as the Samothrace is tiresome poem, "Excelsior," which we in a Dickens novel-was it Silas Wegg? not-and instinct with rare, strange all studied in our young, young schoolquality of gracious motion. An in- days. The baleful green glitter of the spiration, this statue, typifying perfec- jewel, its mystic script, and capacity for tion of feminine grace and activity; and, arousing lust of possession, envy, hatred, seen from whatever angle, charms the malice, and crime, wrough havoc and devastation, particularly to the woman in the case, an unpleasant female indeed. All narrated, of course, with that suggestion of mysterious forces at work at which the author is an adept. Great is the lure of precious stones to women. To me the aloof sparkle of the diamond commends itself; to another some rope of pearls in which seem imprisoned " all the shade and the shine of the sea." Others succumb to the abiding blue of the aquamarine or the by an expert. Framing a pair of blue dull afture of the tourmaline; while eyes that rivalled those of Thomas Elsie possesses a necklace of jade that Hardy's heroine was a swathed turban must have been dug from Golconda. of the same kindly hue; while reptilian The sapphire, the chrsoprase, the topaz;

of gold.

Accompanied by Rosalind, herself resembling a poppy-one of the slender, blowing red ones of the field-as she had donned that day, apparently without design, her new red sports suit, a successful garment, with collar, pockets, and cardigan of tan, I reached town last Friday long before 9 o'clock, to find the place already flecked with those scraps of colour that descend like red manna on man, woman, and child on Poppy Day, and prove that

At the going down of the sun and in the morning,

We still remember them.

searched my purse, and found but a solitary coin.

"My last shilling," I confided to the gentle flower-seller.

"It is well invested," she said with

In the shop of Konrad, philosophic of being a literary gent, like someone -I encountered Geraldine, very radiant that morning, with more than her share of the beauty of youth. In the crook of an extremely slender arm there wriggled a small terrier, bright of eye and obstreperous of manner. "Let me introduce you to Jane Austen," said she, indicating the puplet, which gazed around the oddments in the shop, human and otherwise, with a passionate interest approximating to that of its illustrious namesake of lang-syne.

The Swedish friend of the down-atheel looked up from his last.

"Who' wrote Jane Austen?" he inquired with a simplicity sublime. "Wasn't it one the Brontes?"

"About that period," agreed Geraldine, with the perfect aplomb of the modern Your

ANNABEL LEE.

Silhouette. The correct silhonette is made up of

matching garments of two, three, or four pieces, forming an ensemble. Firstly, the three-piece tweed or suiting ensemble, consisting of coat, skirt, and woven jumper of various combinations of matching and contract combinations of matching and contrasting materials and colours. Secondly, for wear under the topcoat, a two or three-piece woven suit, consisting of jumper and skirt, or for variety an extra garment in the form of a sleeveless cardigan. Diagonal and horizon-tal stripes are favoured, or the all self-colour woven garment neatly trimmed suede.

Skirts attain distinctiveness either by being finely and fully pleated or of frankly bold check or stripe pattern. They may be of suiting or heavy tweed, according to use.—Miss Sproston, 4YA, Dunedin.

FOR COUGHS AND COLDS

When Eggs are Scarce. Soak some bread in boiling milk till spongy, beat smooth. Heat square inch of butter and small teacupful milk. Butter a fireproof dish, break in two eggs, whisk well, gradually adding two tablespoonfuls of the soaked bread, salt, pepper and mixed herbs to taste. Whisk thoroughly, add boiling milk and butter, and çook slowly till set, stirring frequently to break up lumps. It should rise to top of dish. This dish is beauti-fully light and is the size of four eggs scrambled in the usual way.

The "modern woman" is one who can hold safety-pins and a cigarette in her mouth at the same time.

Woman Militant. Three hundred thousand fighting wo-

> "Without making military training compulsory for women," says an op-peal addressed to them, "it is neces-sary that all working women should work whole-heartedly to reduce military

ed by Captain Botchkarova, and her company of women volunteers known as the "Battalion of Death" against the Germans in 1917, has thus become an accepted fact on a large scale.

#### THE CHARGE

(By Olwen A. Joergens.)

VOU left a rose with me, and I have laid it As things without a price are laid away;

Alone my lips caress it, visions only Lie on its leaves, and soft words when

You left a charge with me that I remember

When all forgot, and life itself rolls by. You laid love's yolk upon me; God is witness How I have clung to it-yet Love not I.

A woman with immeasurably loving

I stretch my arms for you. The swift years fiee. Beloved, return to me with love untar-

nished Or let me wait in faith eternally.

>0⊂ 0 - 0 - 0 - 0 - 0The "Nosey Parker" Stall.

One purchase the Queen carried away with her. At one point she round her-self in front of the "Notey Parker" stall. Here numerous grinning masks faced her, with bulbous balloon noses which swell and diminish as the wearer wishes. One nose swelled to Titanic proportions as the Queen approached; and she stopped. "These are very funny," she said. "I must have one." She purchased two, and car-ried them away.

men, according to the Moscow correspondent of the "Chicago Tribune," are enrolled in the Soviet Red Army, the formation of which will be celebrated on February 26. They are chiefly con-cerned with the aviation and poison gas departments. One hundred thou-sand more are enrolled in the Red Cross. Despite their nominal status, they receive training in rifle practice, grenade throwing, and field telephone and telegraph work.

illiteracy." Service for women, which was ctart-



# Some Features of Next Week's Programmes



#### "ORPHEUS" & "BOBBIE" AT 1YA

"Orpheus," which has been described as a complete masterpiece and one of the most astonishing productions of the human mind, is the opera chosen by Madame Irene Ainsley for her weekly presentation at IYA on Tuesday. This opera is by Gluck and was first produced in Vienna in 1762, where it was instantly acclaimed. The vocalists for the 1YA studio production will be Madame Irene Ainsley, Miss Beryl Evans, and Mrs. J. Parry. All the principal numbers of the piece will be sung. This production will occupy the whole of the second half of the pro-

Mr. A. B. Chappell will continue his talks on old New Zealand at 1YA on Tuesday.

Another lecture on physical culture will be given by Mr. Norman Kerr on Wednesday evening

The weekly concert of the Auckland Municipal Band will be broadcast on Wednesday evening. There will be vocal items from the studio by the Hazell-Sutherland Duo.

A olt of entertainment is to be crammed into the two hours' con-cert session on Thursday evening. A wide variety of talent has been secured—Mr. Clinton Williams, Mr. George Barnes, and Miss Martha Williamson, Mr. T. T. Garland in humorous sketches, The Snappy Three in popular vocal items, the Studio Three in instrumental pieces, Mr. Fred Barber in elecutionary items, and Ingalis' Hawaiian Band.

Another programme of a miscellaneous nature has been prepared for Friday evening. Besides an excellent musical programme, both vocal and instrumental, a one-act play, produced under the direction of Mr. J. F. Montague, will be broadcast tague, will be broadcast.

Contributing to the concert pro-Quartet (Madame Mary Towsey, Miss G. Ryans, Mr. Reginald Newberry, and Mr. John Bree), whose items will include several popular songs. The Studio Trio and the Internationals will supply instrumental music, and in the latter case, vocal items as well.

The one-act play which Mr. Montague is producing on Friday evening is called "Bobbie." Also on the cast of characters will be Miss Irene Day, Miss Lynda Murphy, and Miss Phyllis Torpy.

The Lyric Quartet has a very bright programme for its share of the studio entertainment on Saturday evening. The items are both single and concerted. The humour from Mr. McElwain will be a feature. From the Bohemian Trio will come vocal and instrumental items, this time popular Maori melodies. There will be the usual session of dance music from Dixieland.

The service to be broadcast on Sunday will be from the Baptist Tabernacle, where the preacher will be the Rev. J. Kemp.

#### LIEDER EVENING AT 2YA

On Monday, April 30, a unique programme of vocal music will be presented at 2YA by the Aerial Singers, who will draw only upon acknowledged lieder writers for their items (Beethoven, Brahms, Greig, Schubert, Schumann, etc.). As this will be the first occasion in New Zealand on which such a radio programme has been heard, it should be eagerly looked forward to by those listeners in who love the works of the old masters. Apart from the composers Slumbers." Mr. Len Barnes will sing mentioned above, songs by Hugo Wolf, "At Night" (by Rachmaninoff), "My

"Jane" on Thursday, May 3 from 2YA

N pursuance of its forward policy, a feature of very great interest will be presented on Thursday, May 3, from 2YA, when a three-act farcial comedy will be given in its entirety. The play chosen for performance is one that is very well known, being one of the "clean and clever" type, namely, "Jane." The arrangements for the cast are in the hands of Mr. A. Stanley Warwick, who gave a most successful performance of this play last December in Palmerston North, and in Oamaru and Waimate in February. The plot deals with the financial embarrassments of a young spendthrift, Charles Shackelton, and the methods he adopts to overcome them.

These humorous situations lend themselves most aptly to radio work. During the entr'actes, suitable music will be broadcast. After the end of each act a short synopsis of that which has preceded will be given, to enable all those who might tune in late to understand the whole plot. Miss Violet Wilson will take the part of "Jane," Miss Keddell, "Mrs. Chadwick," Miss Mary Langdon, "Lucy Norton," Miss Grace Henderson, "Mrs. Pixtin," Mr. Cedric Gardiner, "Mr. Kershaw," Mr. Peter Dorrian, "Charles Shackelton," Master Ian Watts, "Claude," Mr. Francis Hastings, "Mr. Pixton, and Mr. A. Stanley Warwick, "William," the valet.

This new feature should prove a great attraction and will be followed by a series

of short plays on Monday evenings from this studio.



Mrs. Kenny's Mandolin Band, playing from 2YA.

-Vinsen, photo. >0<=>0<=>0<=>0<=>0<=>0<=

companiment, two extracts from which eyele will be heard "on the air" in New Zealand for the first time, as, indeed, will many of the solo numbers to be rendered by the Aerial Singers on Monday. These performers are only too pleased, from time to time, to acknowledge criticisms, suggestions, or requests as to their work (postal address, care Radio Brondcasting Co., Ltd., Welling-

Mayday is being celebrated by the Orpheus Quartet with the singing of "Wake with a Smile, O Month of May," from the "May Queen," by Sterndale Bennett, while Miss Lily Mackie and Mr. Len Barnes will sing the duct from "Merric England"—"It is the Merry Month of May."

Other quartets are "A Song of the Sea" and the old English number "Golden Slumbers." Mr. Len Barnes will sing

Robert Franz, Adolf Jensen, and Joachim Raff, will also be heard. Whilst refraining from dealing with the programme in detail, special attention is drawn to the Brahms Op. 52 "Liebeslieder" cycle with pianoforte duet accompaniment, two extracts from which cycle will be heard "on the air" in New Zealand for the first time, as, indeed, will many of the solo numbers

Mr. Lad Haywood, and his Italian mandoline, Mr. George Ellwood and his 'cello, and the Studio Trio will supply the instrumental music on Tuesday.

Mr. Doug. Stark will dispense Scottish humour on Monday evening in "The Boss o' the Hoose," and will be heard in the monologue "I Forget," being the reminiscences of an old sol-dier. There will also be some humorous cross-talk with Mr. Len Barnes.

The Apollo Singers have arranged a full programme for the evening of Fri-day, the 4th instant. Two very delight-ful quartets are included 'In This Hour," by Pinsuti, and, in response to many requests, "A Night of Love," in which these singers have been heard in which these singers have been heard to advantage from 2YA before. Miss M. Goodwill has chosen a popular song, "Dream a Day Jill," while Miss H. Chudley will be heard in "Let Miss Lindy Pass," by L. Ronald and "Fuchsia Tree," two tuneful numbers. Mr E. W. Robbins is scheduled for three vocal gents, "Love, Could I Only Tell Thee," "Because," and the ever-popular "Waiata Poi." A beautiful Irish melody by Lambert, "She is Far From the Land," will be contributed by Mr. S. E. Rodger, and the same singer, with Mr Robbins, will be heard in "The Two Beggars," a duet for tenor and baritone.

Those entertaining characters, the Two Boiled Owls, will give "More Hoots" and other items at 2YA on Fri-

sung by the Melodie Four during the studio portion of the programme on Saturday evening. Banjo and trio items will supplement. Afterwards will follow a dance programme.

A programme of varied items will intersperse the Lieder evening. There will be saxophone, flute, and trio selections, with elecutionary contributions from Mr. Stanley Warwick. The next series of lectures to be given by the Rev. J. R. Blanchard will be "Watering the Australian Desert," to be given on Monday evening.

#### 3YA ATTRACTIONS

Much is always expected of the Beckenham Male Quartet, and listeners-in are never disappointed. The Becken-hams introduce a freshness, a homeliness, and an originality that never fail to take the popular fancy. Next Monday these singers along with the Christchurch Municipal Band, Mrs, Leslie Scrimshaw, and Mr. J. Darragh, will provide one of the most enjoyable concerts of the week. The band items will be bright and varied, as is usual.

Mrs. Leslie Scrimshaw, a well-known performer for 5YA, will be singing again on Monday. One of her items will be "Solveig's Song," from "Peer Gynt."

Elecutionary items by Mr. J. Darragh on Monday evening will include "Guy de Vere Attempts a Toast," and one entitled "When Tost Raised his Bowler Hat," evidently having regard to be improved. "Goodlyes." to his immortal "Goodbye."

Wednesday's concert at 3YA will be an Irish one, real Irish from beginning to end. Listeners will be taken all round the Linerald Isle in the course

of a descriptive dialogue, for this is another of the series of travelogues by Mr. A. G. Thompson's Dulcet Quartet. The vocalists will be Miss Nellie Lowe, Miss Mary Shaw, Mr. T. G. Rogers, and Mr. A. G. Thompson. Irish airs and Mr. A. G. Hompson. Irisi airs will be played by the Studio Trio, Mr. R. Ohlson (cornet), and by Mr. Ivan Perrin on the piano (the last-mentioned being, of course, this artist's clever extemporisations). Irish humour by Mr. H. Instone will complete the Hibernian night's entertainment. A very attractive feature of the entertainment will be that every item (except probaby the laumorous portion) will be well known and loved by all.

A French entertainment will be provided by the Madame Gower-Burns Grand Opera Quartet on Thursday evening, when the works of well-known French composers will be broadcast. Among the songs to be sung will be selections from Cesar Franck, Massenet, Messager, Chaminale, and Godard. Some of these songs are well known, especi-ally the charming works of Cham-inade.

Augmenting the vocal programme on Thursday will be instrumental selec-tions by the Studio Trio, Mr. W. Hay (flute), and Miss Aileen Warren (piano-forte), while elecutionary items will be given by Miss Maiona Juriss, all going to make an excellent French evening.

A programme of the delightful songs of Robert Franz will be pre-sented on Friday evening by Miss Frances Hamerton's Metodious

Next to Schubert, Robert Franz is undoubtedly the most original of German song writers Unlike Schubert, he was a specialist, confining himself almost entirely to the field of art songs, of which he wrote two hundred and seventy-nine. These short songs represent, however, "multum in par-vo." As he himself once remarked, they are "like a mirror reflecting the development of music from A to Z." By this simple strophic structure they remind one of the early folk song. Many of them are as stately and majestic as the Protestant chorals of the time from Luther to Bach. His songs are a happy blending of the romantic spirit and the classical style, of the modern declama-tory style, and a genuine bel canto.

Supportong the Melodious Four in what will be a splendid programme, will be the Studio Trio, Misz Elaine Moody's Hawaiian Trio, Mr. George Beunet, and Mrs Beryl Windsor.

Mrs. Beryl Windsor, who is to give elocutionary tems on Friday evening at 3YA, comes from Ross, on the West Coast, where she takes a leading part in all entertainments. She was at one time resident on Christchurch, and was a pupil of Miss Lucy Cowan.

New artists will appear in Satur-day's radio vaudeville, and will provide one of the brightest week-end concerts. A glance down the programme shows Rollicking Robby, Mr. S. E. Munday (clarinet), Mr. A. E. Dowell (popular singer of popular singer singe lar songs). Mr. Verner Lawford (magic flute and phono fiddle solos), Miss Constance Flamank (a firstclass contraites singer from Timaru), the Studio Trio, Misses Muriel Johns, and Edua Johnston, Theo and Francis Gunther (concertinas), and Mr. Hiram Dunford, in humorous recitations.

#### NOTES FROM 4YA

A talk on May Day will be given by Mrs. F. M. Primmer on Tuesday, May

The Kaikorai Band, assisted by 4YA artists, will provide the entertainment at 4YA on Tuesday evening. It will

(Continued on Page 14.)

Clarion Quartet, now heard from 2YA.

-S. P. Andrew, photo.

STEFFANO WEBB, Photographer,

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# Full Programmes for Next

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#### NOTES AND COMMENTS

(By "Switch.")

A BRUSSELS scientist considers that migratory birds are guided by the same electro-magnetic waves as are employed for broadcasting. This suggests a reason why the start of the B.B.C. winter programmes coincides with the flight of the birds from that

AS soon as a joint has been soldered it should be wiped over with a clean duster in order to remove the liquified flux, which is otherwise liable to cause leakage.

FOUR violins, valued at £3000 each, were used recently in a musical art quartet, including Sascha Jacobsen, who broadcast from an American station. The violins are four Strads, purchased by Felix Warburg.

COMMUNICATION was established with fourteen amateur stations in six States from an aeroplane flying in Canada recently, as a result of tests planned by local radio experts. The greatest two-way distance covered was with two amateurs in Oakmont, Pa., 500 miles away. Communication was maintained for an hour and a half whilst the craft was in the air.

MR. LLOYD GEORGE and has daughter have given wireless sets to the North Wales Blind School at Rhyl, England.

The sound waves from a loudspeaker are' not projected evenly. The higher notes go straight forward, while the lower notes tend to go off side-ways, and even round towards the back of the instrument. This is re-ferred to as "spilling." A good plan to eliminate this trouble is to place the speaker close to and facing away from a wall, so that some of those clusive low notes can be reflected again to the front.

A DEVICE that can be used as a fixed crystal, a transmitter microphone, an amplifier, a telephone, a stethoscope, a hand microphone, a phonograph amplifier, a morse code practising device, a talking light, a submarine signaller, a detector, a grid leak, loudspeaker transmission, and for handreds of other useful and infor hundreds of other useful and interesting experiments, is on sale in America priced at 4s, each. "Switch" has one of these little devices, which resembles a miniature carbon micro-

A MATEURS who build their own cab-A MATEURE who build their own cab-inets will find that an excellent stain for oak can be made by mixing Japan black and turpentine in equal quantities. The liquid should be ap-plied with a rag to the well sand-papered surface, and with two or three coats a rich brown coat will be ob-

PERIODCAL Y you should run a rag soaked in kerosene up and rag soaked in kerosene up and down your aerial in order to remove the soot and dust, which make for poor reception. Whilst on the job, don't forget the insulators, which also collect dirt. Contrary to general supposition, it is not advisable to solder leads to your aerial, for unless a good connection is made without t good connection is made without the use of the solder, the resistance of the latter will cause very poor re-

THE following Associated Press message was published in the United States dailies:—Algiers, March 17— North Africa has caught the radio craze, and Arab chiefs are saying fare-well to their steeds in exchange for the latest seven-tube sets guaranteed to get all Europe. Barcelona, Spain, is very loud in this part of the world, and Milan, Italy, also is clear. The most appreciated station, however, is London when American jazz is trans-

AMERICAN amateurs form district A merical aniateurs form district clubs and name them in various manners. A few of them are: "Browsville Racket Raisers," "I Tappa Key," "Busted Valve Club," etc. The "Rag Chewers' Club" is also well known and a branch has been formed in Australia.

ABOUT 98 per cent, of the telegrams received in the United States from Sweden are being dispatched by radio. It is the policy of the Swedish Telegraph Board to use radio for the transmission of messages in all cases where there is no telephone or other table directly available. The new table directly available. The new Swedish Government radio station has provided increased speed and efficiency in transmitting messages and has made possible a reduction in rates, the United States Department of Com-

A WELL-KNOWN valve firm, advertising in "The Wireless World" (a British periodical), claims that the filaments of their valves are strong enough to hang pictures on and are dong enough to dry the week's washing.

DISTORTION due to high frequency currents getting in on the low frequency side of a receiver may be prevented by the insertion of a high resistance, in series with the grids of audio frequency valves.

BUS-WIRE is easily soldered owing to the fact that it is already inned.

### Sunday, April 29

1YA AUCKLAND (333 METRES)—SUNDAY, APRIL 29.

3 p.m.: Afternoon session-Selected gramophone items.

4.0: Literary selection by the Announcer.

Further gramophone items. 4.30: Close down.

6.0: Children's service, conducted by Rev. L. B. Busheld.
6.55: Relay of evening service from St. David's Church. Preacher, Rev. D.
C. Herron. Organist, Mr. E. C. Craston.

8.30: Relay of band recital by the Municipal Band, under the direction of Mr. Christopher Smith. 9.30: God Save the King.

2YA WELLINGTON (420 METRES)—SUNDAY, APRIL 29.

6 p.m.: Children's service, conducted by Uncle Ernest.
6.55: Relay of evening service from Taranaki Street Methodist Church.
Preacher: Rev. Clarence Eaton. Organist and choirmaster, Mr.
H. Temple White.
8.15: Relay of Port Nicholson Silver Band concert from the Grand Opera

House, Wellington.

3YA CHRISTCHURCH (306 METRES)—SUNDAY, APRIL 29.

5.30 p.m.: Children's song service, by Uncle Sam.
7.0: Relay of evening service from Salvation Army Citadel, Victoria Square.
Speaker, Ensign Allan Montgomery.
8.15: Rebroadcast of 2YA, Wellington (relay of Port Nicholson Band from Hyperson States)

Grand Opera House).

4YA DUNEDIN (463 METRES)—SUNDAY, APRIL 29.

5.30 p.m.: Children's song service. 6.30: Relay of service from the Methodist Central Mission. Preacher, Rev. W. Walker. Organist, Mr. Chas. A. Martin.

8.0: Band concert.
9.15: God Save the King.

### Monday, April 30

1YA AUCKLAND (333 METRES)-MONDAY, APRIL 30.

SILENT DAY.

2YA WELLINGTON (420 METRES)-MONDAY, APRIL 30.

3 p.m.: Chimes of the General Post Office clock, Wellington.

3.1: Selected gramophone items. Close down.

5.0: Close down.
6.0: Children's hour—Uncles Toby and Jeff, and Thorndon Normal School, Standard V. Two-part song, Norman School, "Shepherd's Evening Song" (Theman). Rounds, Thorndon Normal School, (a) "A Southerly Wind," (b) "Glide Along" (Theman). Sea chantics, (a) "Windiass Song" (Rowley), (b) "Rio Grande" (arr. Sharp). Recitation, cousin, "The Arrow and the Song" (Longfellow). Song, Norman School, "One Man Went to Mow" (Chambers). Recitation, cousin, "Block City" (Stevenson). Song with descant, Normal School, "Derry Vale" (Shaw). Birthday greetings and story.
70: News session, market reports, and sports results.

7.0: News session, market reports, and sports results.
7.40: Lecturette—Rev. J. R. Blanchard, B.A., "Watering an Australian Desert."

8.0: Chimes of the General Post Office clock, Wellington.

#### A LIEDER EVENING.

8.1: Overture-"Rosamund" (Schubert).

 8.1: Overture—"Rosamund" (Schubert).
 8.5: Mezzo-contralto solos—Miss Ngaire Coster, (a) "Lullaby" (Brahms);
 (b) "Hedge Roses" (Schubert).
 8.10: Saxophone solos—Mr. A. H. Wright, "Melody in F" (Rubenstein);
 (b) "Traumere I" (Schumann).
 8.15: Tenor solo—Mr. Roy Hill, "Adelaide" (Beethoven).
 8.20: Instrumental trio—Symons-Ellwood-Short Trio, "First Movement Trio in D Minor" (Schumann).
 8.30: Bass solos—Mr. J. M. Caldwell, (a) "The Organ Grinder" (Schubert);
 (b) "I Will Not Grieve" (Schumann).
 8.36: Flute solo—Mr. L. W. Rothwell, "Ave Maria" (Schubert-Liszt).
 8.41: Vocal quartet, with piano duet accompaniment—The Ariel Singers, "Ohl Give An Answer, Maiden Fairest" from "Liebeslieder" (Brahms).
 8.45: Violin and piano duet—Miss Ava Symons and Mr. Gordon Short, "First and Second Movements of Sonata for Violin and Piano" (Caesar Franck). Franck).

8.55: Soprano solo—Miss Jeanette Briggs, "Solveig's Song" (Grieg).
8.59: Elocution—Mr. Stanley Warwick, "My Motor-car" (Seilars).
9.4: Cornet solo—Mr. H. J. Dutton, "The Minstrel Boy" (Round).
9.9: Weather report and forecast.

9.10: Mezzo-contralto solo-Miss Ngaire Coster, (a) "I Love Thee" (Grieg); (b) "Secrecy" (Wolf).
9.16: Saxophone solo-Mr. A. H .Wright, "Valse Vanitie" (Wiedoeft).



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23

BOX 830

WELLINGTON

9.21: Tenor solos—Mr. Roy Hill, (a) "The Wanderer's Song" (Schumann);
(b) "More Sweet and Pure and Holy" (Schumann); (c) "Her
Voice" (Schumann).
9.29: Instrumental trio—Symons-Ellwood-Short Trio, "Third and Fourth

Movements" (Schubert).

Movements" (Schubert).

9.39: Soprano solos—Miss Jeanette Briggs, (a) "Lay Thy Check Against Mine Own" (Jensen); (b) "How Still the Grove" (Franz); (c) "Love Finds Out the Way" (Raff).

9.48: Cornet solo—Mr. H. J. Dutton, "A Perfect Day" (Jacobs-Bond).

9.53: Elocution—Mr. Stanley Warwick, "Mr. Tigg meets Mr. Pinch" (Dickens).

9.58: Flute solo—Mr. L. W. Rothwell, "Serenade" (Schubert-Liszt).

10.3: Vocal quartet, with piano duet accompaniment—Ariel Singers, "How Soft, You Murmuring Stream" from "Liebeslieder" (Brahms).

God Save the King.

3YA CHRISTCHURCH (306 METRES)-MONDAY, APRIL 30.

3 p.m.: Afternoon concert session-Selected studio items.

4.25: Sports results.
6.0: Children's hour—Uncle Jack and Aunt Edna.

7.15: News session.

8.0: Chimes, Relay of orchestral selections from Strand Picture Theatre Orchestra, under the direction of Mr. Harry Ellwood.

Studio concert by Christchurch Municipal Band, under the conductorship of Mr. A. J. Schnack, assisted by the Beckenham Male Quartet and Mr. Jack Darragh.

8.15: Male voice quartet-Beckenham Male Quartet, "Nursery Rhyme Medley"

8.15: Male voice quartet—Beckenham Male Quartet, Nursery Rhyme Mediey (Gracey).
8.19: March—The Band, "B.B." (Horne).
8.27: Tenor solo—Mr. E. R. Pitman, "The Rest of the Day's Your Own" (David and Long).
8.31: Selection—The Band, "Melodious Gems" (Rimmer).
8.43: Male voice quartet—Beckenham Male Quartet, "Lullaby" (Brahms).
8.47: Soprano solo—Mrs. Leslie Scrimshaw, "Golden Dancing Days" (Clarke).
8.51: Hymn—the Band, "Bradford" (Owen).
8.56: Humorous song—Mr. Jack Darragh, "When Tosti Raised His Bowler Hat."

Hat.'

9.0: Weather report and forecast.
9.1: Relay of orchestral selections from Strand Theatre.

9.10: Tenor and baritone duet—Messrs. E. R. Pi'man and K. G. Archer, "The Skippers of St. Ives" (Roeckel).
9.14: Selection—The Band, "Patience" (Champion).
9.24: Male voice quartet—Beckenham Male Quartet, "Old Farmer Buck" (arr.

Williams).

Williams).

9.28: Characteristic reverie—The Band, "Sliding Jim" (Losey).

9.36: Soprano solos—Mrs. Leslie Scrimshaw, (a) "Solveig's Song" (Grieg);

(b) "Chanson de Florian" (Godard).

9.39: March—The Band, "Rauparaha" (Lyons).

9.44: Male voice quartet—Beckenham Male Quartet, "Amazon" (Etinge).

9.51: Humorous recitation—Mr. Jack Darragh, "Guy de Vere Attempts a

Toast."

9.54: Humorous chorus—Beckenham Male Quartet, "Topical Chorus." 9.58: March—The Band, "The Voice of the Guns" (Alford).

God Save the King.

4YA DUNE7DIN (463 METRES)-MONDAY, APRIL 30.

SILENT DAY.

# Tuesday, May 1

1YA AUCKLAND (333 METRES)-TUESDAY, MAY 1.

3 p.m.: Afternoon session-Selected studio items. 4.0: Literary selection by the Announcer-

4.8: Further gramophone items.

4.30: Close down.

4.30: Close down.
6.0: Children's hour.—Uncle George, assisted by pupils of Miss Blamires.
Pianoforte, Irene Graham, "In a Hanging Garden" (Allen). Recitation, Margaret Parsonson, "Dorothy's Tables." Pianoforte duet, Joyce Lee and Phyllis Hogan, "Valse Letters and birthdays. Song, Phyllis Hogan, selected. Recitation, Edna Rainey, "Our New Baby."

"Coronab." (Parsett) Redtime stories tion, Edna Rainey, "C "Coronach" (Barrett). Bedtime stories.

7.15: News and market reports.

8.0: Chimes.
8.1: Relay of overture from Majestic New Orchestra, under Mr. Whiteford-Waugh. 8.5: Soprano solo-Mrs. J. Parry, "Waltz Song" from "Tom Jones" (Ger-

man). Baritone solo—Mr. Trevor Lewis, "I Pitch My Lonely Caravan" (Coates)3: Contralto solo—Madame Irene Ainsley, "Il Segreto" from "Lucrezi Borgia" (Donizetti).

8.18: Instrumental trio-Bosworth-Hemus-Towsey Trio, "Trio in C Minor, First Movement" (Mendelssohn).

8.27: Baritone solo-Mr. T. Lewis, "O, That We Two Were Maying" (Nevin). 8.31: Relay of entr'acte from Majestic New Orchestra, under Mr. Whiteford-

8.39: Soprano solo—Miss Beryl Adams, "The Pipes of Pan" (Monckton).
8.43: Violin solo—Miss Ina Bosworth, "Variations" (Tartini-Kreisler).
8.48: Lecturette—Mr. A. B. Chappell, M.A., "Talks on Old New Zealand: No.
7, The Cradle of Civilisation."
9.0: Weather report and forecast.
9.1: Instrumental trive-Research Manual Page 1988.

9.1: Instrumental trio-Bosworth-Hemus-Towsey Trio, "Second Valse" (Godard).

9.11: A presentation of the principal numbers from "Orpheus," by Gluck, under the direction of Madame Irene Ainsley.

The part of Orpheus is sung wherever possible by a contralto—at its first presentation in London in 1860 the Ravogli Sisters were in the principal roles. It is considered one of the greatest masterpieces of the human mind. The story is based upon the Greek legend. Orpheus, son of Apollo, was celebrated for his beauty and his musical powers, and on the death of his beloved wife Euridice, he is visited by the God of Love, Amor, who, taking pity on the mourner, tells him he may descend into Hades and seek Euridice in Pluto's kingdom, but he must not look upon her until they have again reached the upper world. Orpheus gladly goes upon his quest—he wins his way through the nether world to the Valley of the Blest by the charm of his singing, and there he finds Euridice. She follows him through the Valley, but grows sad at his seeming indifference, for, true to his promise, he has never looked upon her face. Almost in sight of the upper world her supplications weaken his resolve, and in defiance of the Gods he turns and gazes upon her. She sinks lifeless to the ground, and Orpheus is about to kill himself in despair, when the God of Love, Amor, returns, and, moved by his renewed sufferings, not only restores Euridice to life, but immortalises him.

> Orpheus (contralto)-Madame Irene Ainsley. Amor (soprano)-Miss Beryl Evans



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# Week-All Stations- to May 6

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Euridice (soprano)-Mrs. J. Parry.

Chorus—"If Here, Where All Is Dark."
Contralto aria—"Weeping Sorely I Stray."
Soprano aria—"The Gods If They Call Thee."
Contralto aria—"Away With Morning."
Chorus—"Who Is This Mournful One?"
Contralto solo and chorus—"O, Be Merciful to Me."
Chorus—"His Moving Elegies."
Soprano air and chorus—"On These Mendous." Soprano air and chorus—"On These Meadows."
Recitation—"How Pure a Light."
Chorus—"From the Realm of Souls Departed."
Duet—"Come, On My Trueness Relying."
Contralto aria—"Che Faro." Trio-"Sweet Affection."
Chorus and finale-"The God of Love." .

2YA WELLINGTON (420 METRES)-TUESDAY, MAY 1.

3 p.m.: Chimes of the General Post Office clock, Wellington. 3.1: Selected gramophone items. 5.0: Close down.

Children's hour.

News session, market reports, and sports results. 7.40: Lecturette-Representative, Agricultural Department, "For the Man on

the Land.

8.0: Chimes of the General Post Office clock, Wellington.
8.1: Overture—The Orchestra, "Poet and Peasant" (Suppe).
8.11: Quartet—The Orpheus Quartet, "Wake With a Smile, O Month of May"
(Bennett).

8.15: Italian mandolin—Mr. Lad Haywood, (a) "Wildflower" (Youmans);
(b) "Bambalina" (Youmans)
8.22: Contralto solo—Miss Lily Mackie, "Morning Song" (Segal).
8.26: Selections—The Orchestra, (a) "The Answer" (Wolstenholme, arr.
Bellingham); (b) "Romanza Andaluza" (Sarasate), (soloist, Miss
Ava Symons); (c) "Toreador's Song" (Bizet), (soloist, Mr. S. J.
Forrest)

Forrest).
8.37: Tenor solo-Mr. Arthur Coe, "A Sprig of Rosemary" from "A Princess

of Kensington" (German).

8.41: Humour—Mr. Doug. Stark, "The Boss o' the Hoose" (Lauder).

8.47: Selection—The Orchestra, "Peer Gynt" (Greig).

8.57: Duet—Miss Lily Mackie and Mr. Len. Barnes, "It Is the Merry Month of May" (German).

9.1: Weather report.
9.3: Quartet—The Orpheus Quartet, "Golden Slumbers" (Old English).
9.7: Italian mandolin—Mr. Lad Haywood, (a) "When Day is Done"
(Katscher); (b) "Russian Lullaby" (Berlin).
9.13: Baritone solos—Mr. Len. Barnes, (a) "At Night" (Rachmaninoff);
(b) "My Menagerie" (Foster); (c) "Quand la flamme de l'amour"

(b) "My Menagerie" (Foster); (c) Quand la namine de l'amour (Bizet).

9.22: Two songs—The Orchestra, (a) "At Evening" (soloist, H. Berry), (Debussy); (b) "La Paloma" (Yradier).

9.30: Humour—Mr. Doug. Stark, "I Forget" (Lee).

9.35: Soprano—Mrs. Alice Harris, "Awake" (Palissier).

9.39: Quartet—The Orpheus Quartet, "Tell Me, Pretty Maiden" from "Flora-

dora" (Stuart).

9.43: The Orchestra—Latest fox-trot and waltz novelties.
9.52: Sketch—Messrs. Doug. Stark and Len. Barnes, "Fragments" (original).
9.56: Quartet—The Orpheus Quartet, "Ciribiribin" (Pestolozza).
10.0: The Orchestra, "Slavonic Rhapsody" (Friedman).

#### 3YA CHRISTCHURCH (306 METRES)-TUESDAY, MAY 1. SILENT DAY.

#### 4YA DUNEDIN (463 METRES)-TUESDAY, MAY 1.

3 p.m.: Town Hall chimes. 3.1: His Master's Voice recital. 3.30: Social notes.

3.40: Lecturctte by G. J. Butcher, of Turnbull and Jones, Ltd., "Domestic Uses of Electricity."
4.15: His Master's Voice recital.

4.30: Close down.

6.0: Town Hall chimes.

6.1: Children's hour-Big Brother Bill,

7.15: News session.

7.30: A health talk, by Mr. C. W. Postgate, director of physical culture to

Y.M.C.A.

8.0: Town Hall chimes, Concert by the Kaikorai Band, under the conductorship of Mr. E. Franklin, and items by assisting artists.

8.1: March—Kaikorai Band, "Somme" (Hopkinson).

8.5: Tenor solos—Mr. Chas. Edwards, (a) "Siciliana" from "Cavalleira Rusticana" (Mascagni); (b) "Lolita" (Buzzi-Peccia).

8.12: Selection—Kaikorai Band, "Unfinished Symphony" (Schubert).

8.22: Humorous monologue—Miss Madge Yates, "Girls" (Turner).

8.27: Vocal duet—Messrs. Chas. Edwards and R. B. Macdonald, "In This Solemn Hour" (Verdi).

8.31: Cornet solo—Kaikorai Band, "Australis" (Lithgow).

8.31: Cornet solo—Kaikorai Band, "Australis" (Lithgow). 8.38: Contralto solo—Miss Winnie McPeak, "Farewell to Summer" (Johnston).

ston).
8.42: Waltz—Kaikorai Band, "Donau Wellen" (Strauss).
8.57: Bass solos—Mr. E. G. Bond, (a) "Philosophy" (O'Connell); (b) "Devonshire Cream and Cider" (Sanderson).

9.4: Fox-trots—Kaikorai Band, selected.
2.10: Baritone solo—Mr. R. B. Macdonald, "Brian of Glenaar" (Graham),
9.15: Address—"A May Day Talk," by Mrs. M. F. Primmer.
9.30: Tenor solo—Mr. Chas. Edwards, "On With the Motley" from "Pag-

9.30: Tenor solo—Mr. Chas. Edwards, "On With the Motley" from "Pagliacci" (Leoncavallo).
9.33: Selection—Kaikorai Band, "Rose Marie" (Friml).
9.48: Recitations—Miss Madge Yates, (a) "The Old Woman of the Roads" (Cohan); (b) "Minora Sidera" (Newbolt).
9.56: Bass solo—Mr. E. G. Bond, "Song of the Wagoner" (Breville-Smith).
9.59: Contralto solos—Miss Winnie McPeak, (a) "The Sands of Dee" (Clay); (b) "I Know Where I'm Going" (Hughes).
10.4: March—Kaikorai Band, "Hawke's Bay" (Hopkinson).
10.8: Baritone solo—Mr. R. B. Macdonald, "Hybrias the Cretan" (Elliott).
10.12: God Save the King.

10.12: God Save the King.

10.14: Close down.

# Wednesday, May 2

#### 1YA AUCKLAND (333 METRES)-WEDNESDAY, MAY 2.

3 p.m.: Afternoon session-Selected gramophone items.

4.0: Literary selection by the Announcer, 4.8: Further selected gramophone items.

4.30: Close downderen's hour—Uncle Tom. Opening chorus, Uncle Tom. Story for tiny tots. Song, Valerie Smith, "Lullaby Land." Letters and Birthdays. Recitation, Frank Wilkin, "How Jimmy Minded the Baby" Humorous sketch, Uncle Tom, "The Auctioneer." Closing 6.0: Children's hour—Uncle Tom. chorse, 👯

Mr. Pixton (Mrs. Pixton's husband)-

Mr. Francis Hastings.
Claude (a page boy)—Master Ian Watts.
William (Shackelton's man)—Mr. A. Stanley Warwick.
Scene: Shackelton's room.
Act I—Morning

Act I—Morning,
Act II—Lunch time,
Act III—Evening.

8.5: "Jane"-Act I. 8.45: Entracte—"Merry Widow Waltz" (Lehar). 8.50: "Jane"Act II.

9.20: Entr'acte-"Luxembourg Waltz" (Lehar).

9.25: "Jane"—Act III.
9.50: Weather report and forecast.

10.0: Close down,

SYA CHRISTCHURCH (206 METRES)-THURSDAY, MAY 3.

3 p.m.: Afternoon concert session-Selected studio items. 4.25: Sports results.

7.15: News and reports. 7.45: Lecturette—Mr. Norman Kerr, "Physical Culture." 8.0: Chimes.

8.1: Relay of concert programme by Auckland Municipal Band, under Mr. Christopher Smith, assisted by the Hazell-Sutherland Duo, who will

perform the following items from the studio:—
9.35: Contralto solos—Miss Phyllis Hazell, (a) "Pleading" (Anderson); (b) "Over the Steppe" (Gretchaninoff).

Baritone solos—Mr. Frank Sutherland, (a) "The Mighty Deep" (Jude);
(b) "The Cobbler's Song" from "Chu Chin Chow" (Norton).

Duets—The Hazell-Sutherland Duo, (a) "A Night in Venice" (Lucantoni); (b) "Sympathy" (Strauss).

10.0: God Save the King.

2YA WELLINGTON (420 METRES)—WEDNESDAY, MAY 2.

SILENT DAY.

#### 3YA CHRISTCHURCH (306 METRES)-WEDNESDAY, MAY 2.

3 p.m.: Afternoon concert session-Selected studio items.

425: Sports results.

4.30: Close down.
6.0: Children's hour—Uncle Peter and Mother Hubbard. Bedtime storics, songs, and choruses.

7.15: Addington stock market reports.

7.30: News session.

7.30: News session.
8.0: Chimes and overture,
8.5: Tenor solo—Mr. T. G. Rogers, "The Harp that Once Thro' Tara's
Halls" (arr. Rimbault).
89: 'Cello solo—Mr. Harold Beck, "The Coolin" (Holbrooke).
8.13: Contralto solo—Miss Nellie Lowe, "The Meeting of the Waters" (arr.

Rimbault).

8.17: Instrumental trios—Christchurch Broadcasting Trio, (a) "The Last Rose of Summer"; (b) "Irish Jig" (Holbrooke).

8.24: Baritone solos—Mr. A. G. Thompson, (a) "Away in Athlone" (Lohr); (b) "Little Irish Girl" (Lohr).

8.32: Cornet solo—Mr. R. Ohlson, "Come Back to Erin" (Claribel).

8.38: Soprano solos—Miss Mary Shaw, (a) "Killarney" (Balfe); (b) "Kate Kearney" (Lee).

8.46: Piano novelties—Mr. Ivan Perrin, "Irish Melody Extemporisations."

8.50: Irish humour—Mr. H. Instone, "Dooley and His Tall Silk Hat" (Green).

8.58: Weather report.

9.0: Overture.

9.0: Overture.

Contralto solo-Miss Nellie Lowe, "Silent O'Moyle" (Stanford). Vocal quartet-The Dulcet Quartet, "Oft in the Stilly Night" (Stanford).

9.13: 'Cello solo—Mr. Harold Beck, "Sunset" (Turtis).
9.17: Tenor solo—Mr. T. G. Rogers, "Mother Machree" (Olcott).
9.21: Cornet solo—Mr. R. Ohlson, "Mother's Heart" (Hock).
9.25: Baritone solo—Mr. A. G. Thompson, "Father O'Flynn" (Stanford).
9.29: Piano novelties—Mr. Ivan Perrin, "Irish Melody Extemporisations."
9.35: Contratto solo—Miss Nellie Lowe, "Danny Boy" (Weatherley).

9.39: Instrumental trios—Christehurch Broadcasting Trio, (a) "Farewell to Cucullain" (Fischer); (b) "Eileen Aroon."

9.47: Tenor solo—Mr. T. G. Rogers, "Green Vales of Antrim" (Langdale).

9.51: Humorous recitation—Mr. H. Instone, "The Irish Fire Brigade" (Hickory

9.56: Soprano solo—Miss Mary Shaw, "O, Bay of Dublin" (Stanford). 10.0: God Save the King.

4YA DUNEDIN (463 METRES)-WEDNESDAY, MAY 2.

SILENT DAY.

# Thursday May 3

#### 1YA AUCKLAND (333 METRES)-THURSDAY, MAY 3. 3 p.m.; Afternoon session-Selected gramophone items.

3.45: Lecturette by representative of Auckland Gas Company, "Gas Cooking."

4.0: Literary selection by the Announcer.

4.8: Further gramophone items. 4.30: Close down. 4.30: Close down.
6.0: Children's hour—Peter Pan, assisted by Bayfield School Choir, Bayfield girls, "Shepherd's Song" (Framzabt). Song, Jean Scott, "Five Little Piccaninnies" (Anthony). Recitation, Shirley Hayson, "A Little Mistake." Letters and birthdays. Choir, Bayfield boys, "The Boat Song" (Steel). Song, Jean Scott, "The Swallows" (Cowan). Choir, Combined Choir, "Where the Bee Sucks" (Arne). Story-

time. 7.15: News and reports, book review.

8.1: Overture—"La Roi L'A Dit" (Delibes).
8.9: Baritone solo—Mr. Clinton Williams, "Her Rose" (Speaks).
8.13: Humorous sketch—Mr. T. T. Garland, "Grand Opera" (Spurr).
8.18: Soprano solo—Miss Dorothy Youd, "Because" (d'Hardelot).
8.22: Instrumental trio—Bosworth-Hemus-Towsey Trio, "Trio No. 4—Finale"

(Mozart).
8.32: Tenor solo—Mr. Geo. Barnes, "A Dream" (Bartlett).
8.36: Lecturette—Mr. Fred. Barker, "A Wayside Philosopher to His Friend—
(4) How to Attract Money."

8.46: Vocal trios—The Snappy Three, (a) "Once in a Blue Moon" (Land);
(b) "Diane" (Rapee).

8.54: Instrumental—Ingall's Hawaiians, (a) "Invercargill March" (Lithgow);
(b) "Tell Me" (traditional).

9.3: Weather report and forecast.

9.4: Controlle sole Miss Merche Williamson "In the Silence" (Lough) 9.4: Contralto solo-Miss Martha Williamson, "In the Silence" (Lough-

borough). 9.8: Relay of entr'acte from Strand Theatre Orchestra, under the conductorship of Eve Bentley.

9.13: Baritone solo—Mr. Clinton Williams, "The Sweeper" (Elgar).
9.17: Humorous sketch--Mr. T. T. Garland, "My Museum."
9.20: Soprano solo—Miss Dorothy Youd, "Thank God for a Garden" (Del

9.25: Pianoforte solo-Mr. Cyril Towsey, "Study" (Chopin).

9.29: Tenor solo—Mr. Geo. Barnes, "I Know a Lovely Garden" (d'Hardelot).
9.33: Recitation—Mr. F. Barker, "Snorkins."
9.37: Vocal trios—The Snappy Three, (a) "Me and My Shadow" (Jolson);
(b) "Jazz Piano Solo"; (c) "High, High Up in the Hills" (Abrahams).

(Abrahams).

9.45: Instrumental—Ingall's Hawaiians, (a) "Honolulu Bay"; (b) "Oh, Dem Golden Slippers"; (c) "Smiles, Then Kisses" (Ancliffe).

9.53: Contralto solo—Miss Martha Williamson, "You in a Gondola" (Clarke).

9.57: Instrumental trio—Bosworth-Hemus-Towsey Trio, selection from "Il Trovatore" (Verdi).

10.7: Vocal quartet—Mr. Barry Coney's Quartet, "The Sauds of Dee" (Clay).

10.11: God Save the King.

#### 2YA WELLINGTON (420 METRES)-THURSDAY, MAY 3.

3 p.m.: Chimes of the General Post Office clock, Wellington.

3.1: Selected gramophone items. 5.0: Close down.

6.0: Children's hour-Uncle Sandy and pupils of Rongatai College. Choruses, duets, stories, and birthday rhymes.

7.0: News session, market reports, and sports results. 8.0: Chimes of the General Post Office clock, Wellington. 8.1: Overture-"Caliph of Baghdad" (Boilden).

THREE-ACT COMEDY, "JANE."

A special radio presentation of the three-act farcical comedy, "Jane," by H. Nicholls and W. Lestocq, under the direction of Mr. A. Stanley Warwick.

Jane-Miss Violet Wilson, Charles Shackelton (a spendthrift)-Mr. Peter Dorrian. Mr. Kershaw (his trustee)—Mr. Cedric Gardner.
Lucy Norton (Charles's fiancee)—Miss Mary Langden,
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# Programmes Continued

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4.30: Close down.
6.0: Children's hour—Chuckle and Aunt Pat. Stories and songs. Scholars from Marist Brothers' School will also assist.

7.30: Talk by Colonel Colquboun, under the auspices of the Canterbury Progress League, "The Growth of Local Manufacture."

Chimes and overture. 8.5: Soprano and contraite duet—Madame Gower-Burns and Mrs. Ann Harper, "The Wind and the Rose" (Cesar Franck).
8.9: Flute solo—Mr. W. Hay, "Recitative and Air" (Macfarren).
8.14: Tenor solo—Mr. Harold Prescott, "Elegie" with violin obbligato (Mas-

8.18: Pianoforte solo-Miss Aileen Warren, "Venetienne, Fourth Baracarolle"

(Godard).

8.23: Soprano solo-Madame Gower-Burns, "L'Ete" (Chaminade).

8.27: Instrumental trio-Christchurch Broadcasting Trio, "Presto from a Minor

Trio" (Lalo).

8.39: Baritone solo-Mr. Bernard Rennell, "Red Rose" from "Monsieur Beaucaire" (Messager).

9.0: Overture.

#### 4YA DUNEDIN (468 METRES)—THURSDAY, MAY 3.

11.30 a.m.: Relay of Forbury Park trotting meeting (subject to permission being granted).

Town Hall chimes. 7.1: Request gramophone concert.

7.40: News session. 8.0: Town Hall chimes.

8.1: Light orchestral music from the Octagon Theatre.
8.10: Humorous song—Mr. Billy Gay, "I Never See Maggie Alone" (Lynton).
8.14: Banjo solos—Mr. Jack McNeil, (a) "Hello, Cutie" (Friend); (b)

"B. & D. Super March" (Morris).
8.21: Humorous sketch—The Two Blue Ducka, "Current Events in 1950—

First Part." 8.30; Light vocal solo-Miss Roma Buss, "Rackety Coo" from "Katinka"

(Friml). 8.34: Saxophone solo-Mr. J. McCaw, "Valse Vanity" (Wiedoeft).

8.38: Orchestral interlude from Octagon Theatre.
8.48: Light haritone solos—Mr. Percy James, (a) "After Dark" (Johnston);
(b) Precious" (Whiting).
8.55: Humorous sketch—Miss Billie Lorraine and Mr. Percy James.
9.5: Banjo solo—Mr. Jack McNeil, "When You and I Were Young, Maggie"
(Parterfield)

(Butterfield). 9.8: Light soprano solos—Miss Billie Lorraine, (a) "I've Got the Boy"; (b) "You've Gotta Know How" (Donaldson).

"You've Gotta Know How" (Donaldson).

9.15: Humorous address—Pastor W. D. More.

9.30: Saxophone solos—Mr. J. McCaw, (a) "O Sole Mio" (Di Capua); (b)

"Ricket'y Raffle" (Barroll).

9.37: Ligh. vcal solos—Mr. Billy Gay. (a) "Hello, Swanee, Helio" (Britt);

(b) "When the Love Bird Leaves its Nest" (Wade).

9.43: Humorous sketch—Two Blue Ducks, "Current Events in 1950—Part Two."

9.48: Light vocal solos—Mis. Roma Buss, (a) "Dancing Time" from "The

Cabaret Girl" (Kein); (b) "Memory Lane" from "Betty" (Conrad).

9.54: Orchestral selections from Octagon Theatre.

10.0: Close down.

10.0: Close down.

# Friday, May 4

#### 1YA AUCKIAND (333 METRES)—FRIDAY, MAY 4.

3 p.m.: Afternoon session-Selected gramophone items.

4.0: Literary selection by the Announcer. 4.8: Further gramophone items.

4.59: Close down.
6.0: Children's hour—Nod. Pianoforte, Ivy Perry, "Waltz" (Chopin).

Trio, three girls, "Smilin' Through." Sketch, Nod, "Three Trees."

Le'ters and birthdays. Pianoforte, Ivy Perry, "Tarantella" (Kellar). Song, Cinderella, "Little Yaller Dog" (Gallatly). Trio, three girls, "My Blue Heaven." Bedtime stories.

7.15: Talk by Mr. Geo. Campbell on "Motoring." 4.30: Close down.

News and reports.

8.1: Relay of overture from Rialto Theatre Orchestra, under Mr. Henry Engel.

8.11: Vocal quartet—Madame Mary Towsey's Quartet, "The Rosary" (Nevin). 8.16: Instrumental trio—Bosworth-Hemus-Towsey Trio, "Trio, First Move-

ment" (Chopin).

8.26: Baritone solo—Mr. John Brce, "Song of the Bell" (Oliver).

8.30: Vocal and instrumental—The Internationals, (a) "Broken-hearted" (De S.lva); (b) "Saxophone Solo—Valse Erica" (Weidoft).

8.39: Soprano solo—Madame Mary Towsey, "O. Mio Fernando" (Donizetti).

ONE-ACT PLAY, "BOBBIE."

8.44: Play commences.

Cast: Agnes Brompton-Miss Irene Day. Roberta (Bobbie)-Miss Lynda Murphy.

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AS an analogy to what takes place at a broadcast station, one can visualise pumping gas into a large tank. When the tank is filled, there will be back pressure if the force of the pump is not greater. The tank must explode or leak fast enough to take care of the increased pressure. That is exactly the case with radio, broadcasting, except that the generators pump electricity into the aerial, the voice vibrations being superimposed on the carrier voltage. When the aerial is filled, it discharges into the air. The frequency of these discharges determines the wave-length of the station—that is, the kilocycles per second. Wave-lengths are measured from the cole of the station polytopic second. from the peak of one wave to the peak of the succeeding one.

DO not make the mistake of attaching an earth wire to a gas pipe. That is a violation of insurance and fire laws, and voids a fire insurance pol-The cold water pipe furnishes the best earth, and the set should be so placed as to furnish the most direct line to the pipe. Hot water or steam radiators often make good earths, also. fever connect any radio wires to an electric radiator.

THERE are now nearly 140,000 wireless receiving licenses in the State of Victoria. This is more than the total number of licenses issued in all the r Australian States together.

THE United States Government Radio "Although the commission has received many complaints of interference caused by stations wandering from their as-signed channels, it has been disposed to treat the offenders with leniency, because of the mechanical difficulty of maintaining frequency. With the remitter control, and the increased necessity of maximum utilisation of the available wave-lengths, a more drastic policy will be adopted "

POLLOWING is the record of Mr. W. POLLOWING is the record of Mr. W. Robinson, a Wellington listener, residing in the hilly suburb of Brooklyn:—New Zealand: IYA, IZB, 2YA, IZ, 3YA, 3ZC, 4YA, and 2ZF. Anstralian: 2BL, 2FC, 2GB, 2UE, 2KY, 2UW, 3LO, 3AR, 8UZ, 3DB, 3BY, 4OG, 5CL, 5DN, 5KA, 7ZL, and 7HL, U.S.A.: KFON, KGO, KFUD, KYA, KMTR, KPO, Japan: JOAK, Philippines: KZRM, India: 7CA, He uses a six-valve (Brooft valves) innorted rea six-valve (3-volt valves) imported re-

SIR to it that the lead-in from the aerial does not rest on or run closely parallel to a copper roof or any ther netl; that it is not shielded by structural steel, or that the aerial is not close to or parallel to overhead trainway wires, or high-tension (high editage) lines. These have absorption characteristics, and will not permit one's receiver to get enough energy to operate. They will be a source of considerable noise, too.

B BATTERIES (or high-tension) are usually composed of from two or four units of 45 volts each. When the plus of each is connected to the minus of the next unit, the voltages increase in proportion to the voltage of each unit added.

BROADCAST listener in Shaughai A writes to the New York "Radio News":—"At present, there are four broadcast stations in this city, which regale the radio audience with regular 'programmes.' All of them are superpowerful, namely, one one-quarter kilowatter, two one-twentieth-kilowatters, and one two-hundredth kilowatter. The two intermediates have such a perfect system of high-tension supply, and such delicate provisions for adjustment of wave-length, that they give a beautiful mixture of nerve-racking noises, and merrily overlap a score of metres on either side of their channel. While it may be an easy matter for an American BCL to tune out a wee local sta-tion of, say, ten to twenty kilowatts' power, and bring in DX, having a dif-ference in wave-length of ten to fifteen netres, it is practically impossible for a Shanghai fan to get over these giants and pull in a DX station twenty or more metres above or below the scale."

TAKING care of a radio receiver is much the same as anything else. One does not go around with the works of his watch exposed. We get enough dust inside with the case tightly closed. Dust in a set decreases its efficiency by gathering on the plates of condensers, varying its capacity. Moisture lowers the efficiency of the set. Always keep your set closed.

TIII storage battery is the source of supply for lighting valve filaments, and supplies of six volts—more than enough to light standard 5-volt valves. That is why a variable resistance of the resistance of the resistance of the resistance of the resistance. ance or rheostats are put on the re-ceiver. Of course, this is not true in receivers which use the new A.C. valves. In this case, transformers have been designed to deliver the proper voltage, and do not need controlling appropriate the proper voltage. George Phillips-Mr. J. F. Montague.

Grace-Miss Phyllis Torpy.

9.3: Weather report and forecast. 9.4: Relay of cntracte from Rialto Theatre Orchestra, under the direction of Mr. H. Engel.

9.9: Tenor solo—Mr. Reginald Newberry, "Rosebud" (Drummond).
9.13: 'Cello solo—Miss Lalia Hemus, "Romance" (Gotterman).
9.17: Contralto solo—Miss Gwenyth Evans, "I Wonder If Love Is a Dream" (Forster).

9.21: Instrumental trio-Bosworth-Hemus-Towscy Trio, "Military March"

(Schubert).

9.31: Baritone solo—Mr. John Bree, "The Ringers" (Lohr).

9.35: Recitation—Miss Lynda Murphy, "Slow, Ain't It?"

9.39: Soprano solo—Madame Mary Towsey, "When the Dew Is Falling" (McMurragh).

9.43: Vocal and instrumental—The Internationals, (a) "Charmaine" (Rapee);
(b) "Maori Medley"; (c) "Me and My Shadow" (Jolson).

9.52: Contralto solo—Miss G. Evans, "Only the River Running By" (Hopkins).

9.56: Vocal quartet—Madame Mary Towscy's Quartet, "O, Hush, Thee, My
Baby" (Sullivan). 10.0: God Save the King.

#### 2YA WELLINGTON (420 METRES)—FRIDAY, MAY 4.

3 p.m.: Chimes of the General Post Office clock, Wellington.

3.1: Selected gramophone items.
3.30: Lecturette-Miss Marion Christian, "Gas Cooking."

3.45: Selected gramophone items.

Close down.

Children's hour.

6.0: Children's hour.
7.0: News session, market reports, and sports results.
8.0: Chimes of the General Post Office clock, Wellington.
8.1: Overture—The Orchestra, "Raymond" (Thomas).
8.1: Quartet—Apollo Singers, "In This Hour" (Pinsuti).
8.15: Tenor solo—Mr. E. W. Robbins, "Love, Could I Only Tell Thee" (Capel).
8.19: Humour—Two Bo'led Owls, "More Hoots" (original).
8.25: The Orchestra, (a) "Minuet" (Betthoven); (b) "Valse Blue Danube" (Strows)

(Strauss). 8.32; Contraito solos "Miss Hilda Chudley, (a) "Let Miss Lindy Pass"; (b) "Fuchs'a Tree" (Ronald).
8.39; Duet Mr. E. W. Robbins and Mr. S. E. Rodger, "The Two Beggars"

(Lane Wilson).

343: Soprano solo-Miss Moana Coodwill, "Dream o' Day Jill" (German), 8.47: The Orchestra-"Ballet Egyptian" (Luigini).

9.0: Weather report.

9.0: Weather report.
9.2: Lec'urette—Editor-Anneeneer, "Imperial Affairs."
9.17: The Orchestra, selections from "Rose Marie" (Frimi-Stolhart).
9.25: Baritone solo---Mr. S. E. Rodger, "She is Far from the Land" (Lambert).
9.29: Humour—The Two Boiled Owls, "Cheerie, Beerie, Be" (Young);

"Pianophun" (Alter).

9.36: The Orchestra--Dauce numbers.

9.45: Tenor solos--Mr. E. W. Robidus, (a) "Because" (d'Hardelot); (b)

"Waiata Poi" (Alfred Hill).

9.49: Quartet—Apollo Singers, "A Night of Love" (Spler). 9.53: The Orchestra, (a) "In a Bird Store" (Lake); (b) "Independentia March" (Hall).

#### SYA CHRISTCHURCH (SOC METRES)-FRIDAY, MAY 4.

 $3~\mathrm{p.m.}$  ; Afternoon concert session—Selected studio i'ems, 4.25 ; Sports results,

4.30: Close down.

(6): Children's hour-Aunt Pat and Scatterjoy. Stories, songs, and group of little Brownies to help.

7.15: News session. 7.30: Talk by Mr. Robert Nairn on "Insect-Eating Plants."

8.0: Chimes and overture.
8.5: Vocal quartet—The Melodious Four, "Request" (Franz).
8.9: Violin solo—Miss Irene Morris, "Prize Song" from "The Meistersingers".

(Wagner). 8.13: Tenor solos-Mr. Russell Sumuer, "The Rogue Marie" (Franz). 8.19: Instrumental trio-Christehurch Broadcasting Trio ("Allegro from F

Major Trio" (Reissiger).

8.20: Contraito solo—Miss Belle Renaut, "In Autumn" (Franz).

8.33: Hawaiian, ukulele, and steel guitar trios—Miss Elaine Moody's Hawaiian

Trio, (a) "Elegie"; (b) "Cheerie, Beerie, Bee" (Lewis and Wane);

(b) "Souvenirs" (Nichols).

8.42: Soprano solo-Miss Frances Hamerton, "Slumber Song" (Franz).
8.45: Accordeon solo-Mr. George Bennett, "Love's Old Sweet Song."
8.50: Bass solos-Mr. T. D. Williams, (a) "Calm at Sca" (Franz); (b) "In the Dreamy Wood I Wander" (Franz).
8.56: Humorous recitation-Mrs. Beryl Windsor, "The Bride's First Call on the Butcher" (Figh.)

the Butcher" (Fisk).
9.0: Vocal quartets—The Melodious Four, (a) "For Music" (Franz); (b)
"The Rose Complained." 95: Weather report and forecast.

9.6:Overture.

9.0:Overture."
9.11: Soprano solos—Miss Frances Hamerton, (a) "Spring's Profusion" (Franz); (b) "Stars With Golden Sandals" (Franz).
9.17: Tenor solos—Mr. Russell Sunner, (a) "Lassie With the Lips So Rosy" (Franz); (b) "As the Moon Her Trembling Image" (Franz).
9.23: Instrumental trios—Christchurch Broadcasting Trio, (a) "Andantino" (Lemare); (b) "Scarf Dance" (Delibes).
9.33: Contralto solos—Miss Belle Renaut, (a) "Tho' the Roses Now Flourish" (Franz); (b) "Romance" (Franz).
9.39: Hawaiian ukulele and steel guitar trios—Miss Elaine Moody's Hawaiian

(Franz); (b) "Romance" (Franz).

2.39: Hawaiian ukulele and steel guitar trios—Miss Elaine Moody's Hawaiian
Trio, (a) "Haualei Bay" (Alohikea); (b) "Flower of Hawaii"
(Sherwood and Riga); (c) "My Blue Heaven" (Donaldson).

9.48: Bass solo—Mr. T. D. Williams, "Stormy Night" (Franz).

9.51: Violin solo—Miss Irene Morris, "Rondino" (Beethoven-Kreisler).

9.54: Humorous recitation—Mrs. Beryl Windsor, "A Woman in a Shoe Shop"

(Fisk). 10.0: Accordeon solos—Mr. George Bennett, (a) "O Where, Tell Me Where"

(b) "Annie Laurie."

10.4: Vocal quartet-The Melodious Four, "Dedication" (Franz). God Save the King.

#### 4YA DUNEDIN (463 METRES)-FRIDAY, MAY 4.

p.m.: Town Hall chimes.

3.1: His Master's Voice Recital.
3.15: Fashion talk by a representative of the D.I.C.

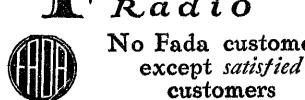
3.30: Afternoon tea music from the Savoy. 3.45: Studio music.

4.0: Music from the Savoy. 4.15: His Master's Voice Recital.

4.30: Close down.
6.0: Children's hour—Aunt Sheila and Big Brother Bill, assisted by pupils of Miss Noeline Parker. The Happy Folk's Anthem. Recitation, "The King's Breakfast," Joyce Inslip. Song, Master Dowl Foord, "Visitors." Recitation, Miss Honi Davidson, "Bird of Blue." Storytime. Monologue, Lonie Wreathall, "Packing." Recitation, Hazel Ness, "Gossip." Letters and birthdays. Recitation, Jean Kirkham, "If 4.30; Close down.

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# Programmes Continued

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

You Meet a Fairy." Song, Evelyn Shepard, "In a Toy Balloon." Recitation, Harold Davidson, "So Was I." Recitation, Miss Billie Sapsford, "The Dream Man." Story-time, "In An Old Castle." Recitation, Etta Kirkwood, "Vespers."

7.15: News session.
7.30: "The New Motor Regulations," reviewed by Mr. W. D. Ansell, preside: Otago Motor Club.

8.0: Town Hall chimes.

8.1: Baritone solos—Mr. Bert Rawlinson, (a) "The Admiral's Broom" (Devan); (b) "The Diver" (Loder).
8.8: Flute solo—Mr. Chas. E. Gibbons, "Prince Methuselem" (Strauss).

8.14: Contraito solo-Miss Flora Williamson, "Linden Lea" (Williams).

8.14: Contraits sold—Miss Flora Williamson, "Linden Lea" (Williams).
8.17: Orchestral selection.
8.21: Bass solo—Mr. Neil Black, "Gipsy Love Song" (Herbert).
8.24: Pianoforte solo—Miss Alice Wilson, F.T.C.L., "Sonata in B Major—Allegro" (Mozart).
8.29: Soprano solos—Mrs. D. Carty, (a) "That Old Irish Mother of Mine" (Von Tilzer); (b) "There's a Wee Bit Land."
8.36: Orchestral selection.
8.40: Baritone solo—Mrs. Best. Papilingui, "Rocked in the Cradin of the Deen"

8.40: Baritone solo-Mr. Bert Rawlinson, "Rocked in the Cradle of the Deep" (Knight).

8.44: Flute solos-Mr. Chas. E. Gibbons, (a) "Love's Request" (Reichardt); (b)

"Mignon" (Thomas).

8.54: Contralto solos—Miss Flora Williamson, (a) "Can't Remember" (Goatley);
(b) "Sapphic Ode" (Brahms).

9.0: Weather report and forecast.

 9.2: Bass solos—Mr. Neil Black, (a) "Russian Love Song" (Lardelli); (b) "The Mountains o' Mourne" (Herbert).
 9.9: Pianoforte solo—Miss Alice Wilson, "Sonata in B Major—Adagio and Allere"? Allegro" (Mozart).

9.16: Vocal duet—Mrs. D. Carty and Mr. Bert Rawlinson, "Hunting Tower."

9.20: Orchestral selection.

9.23: Soprano solo—Mrs. D. Carty, "The Harp That Once" (Moore). 9.26: Relay of dance music by Alf Carey's Dance Orchestra from the Savoy.

10.0: God Save the King.

### Saturday, May 5

#### 1YA AUCKLAND (333 METRES)-SATURDAY, MAY 5.

2.45 p.m.: Relay of Rugby football from Eden Park. 6.0: Children's hour—Cinderella. Monologue, Margot Trafford, "Little Brown Rabbit." Banjo solo, Ross MacBridge, "A Little Spanish Town."

Letters and birthdays. Monologue, Margot Trafford, "Before."

Uncle Mack, jungle stories. Song, Cinderella, "Good-night, Radio Uncle Mack, jungle stories. Family." Bed-time stories.

7.15: News and reports, sports results.

8.0: Chimes. 8.1: Relay of overture from Prince Edward Theatre Orchestra, under Mr. E.

8.1: Relay of overture from Prince Edward Theatre Orchestra, under Mr. E. Beacham.
8.10: Vocal quartet.—The Lyric Quartet, (a) "Sailors' Chorus" (Parkes); (b) "Soldiers' Farewell" (Kinkell).
8.18: Humour.—Mr. Allan McElwain, "Some Humour."
8.23: Vocal and instrumental—The Bohemian Trio, "Popular Maori Melodies", (a) "Pokarekare"; (b) "Matangi"; (c) "Hoki Hoki Tonu."
8.31: Tenor solo—Mr. Herbert Richards, "Longing For You" (Stevens).
8.35: Bass solo—Mr. Ernest Thomas, "Off to Philadelphia" (Sanders).
8.40: Relay of entr'acte from Prince Edward Theatre Orchestra, under the conductorship of Mr. E. Beacham.
8.48: Quartei—The Lyric Quartet, "The Mulligan Musketeers" (Adams).
8.52: Tenor solo—Mr. Arthu Ripley, "Serenade" (Tosseli).
8.56: Vocal and instrumental—The Bohemian Trio, popular Maori melodies, (a) "Hine Hine"; (b) "Hoea Ra"; (c) "Poatarau Maori."
9.4: Weather report and forecast.
9.5: Humour—Mr. Allan McElwain, "More Humour."

9.5: Humour—Mr. Allan McElwain, "More Humour."
9.10: Vocal quartet—Lyric Quartet, "A Summer Lullaby" (Barnes).
9.14: Relay of dance music by the Internationals, under Mr. Clyde Howley from Dixieland Cabaret.

11.0: God Save the King.

#### 2YA WELLINGTON (420 METRES)-SATURDAY, MAY 5.

3 p.m.: Running description of Rugby football match from Athletic Park. 5.0: Close down.

Children's hour.

6.0: Children's hour.

7.0: News session, market reports, and sports results.

8.0: Chimes of the General Post Office clock, Wellington.

8.1: Overture—The Orchestra, "Light Cavalry" (Suppe).

8.10: Quartet—Melodie Four, "In Absence" (Abt),

8.14: Banjo solo—Mr. Chas. Brazier, "Happy-go-Lucky" (Grimshaw).

8.19: Bass solo—Mr. W. W. Marshall, "The Cold North Sea" (Courtney).

8.23: Selection—The Orchestra, "Chu Chin Chow" (Norton).

8.33: Duet—Messrs. R. S. Allwright and Sam. Duncan, "Fickle-hearted Mimi" from "La Baheme" (Puccini).

from "La Boheme" (Puccini).

8.37: Mandolin band—Mrs. Sawden's Mandolin Band. (a) "Bridesmaid's Gavotte" (Angel-Carini); (b) "Romance" (Tolhurst).

8.45: Humour—Mr. Geo. Titchener, "Euclid" (original).

8.52: The Orchestra, (a) "violin solo, "The Swan" (Saint-Saens); (b) "Minnet" (Paderewski). (a) "Bridesmaid's

"Minnet" (Paderewski).

9.0: Weather report.

9.2: Tenor solo—Mr. Sam. Duncan, "Tom Bowling" (Dibin).

9.6: Banjo solo—Mr. Chas. Brazier, "Take Your Pick" (Mandell).

9.11: Baritone solo—Mr. R. S. Allwright, "Pagan" (Lohr).

9.15: The Orchestra, "Musical Switch" (Alford).

9.25: Tenor solo—Mr. Frank Bryant, "Bird of Love Divine" (Haydn Wood).

9.29: Humour—Mr. Geo. Titchener, "The Ridiculosities of a Novelist" (MS.).

9.36: The Orchestra—"Popular Melodie" (Sullivan).

9.46: Quartet—Melodie Four, "Simple Simon" (Macey).

#### 3YA CHRISTCHURCH (306 METRES)—SATURDAY, MAY 5.

3 p.m.: Relay of Rughy football from Lancaster Park.

6.0: Children's hour-Uncle Sam and Aunt May. Stories and songs for the little and big.

7.15: News session. Chimes and overture.

8.5: Joy song—Rollicking Bobby, "Baby Face" (Davis and Ask.).
8.9: Clarionet solo—Mr. S. E. Munday, "Serenade Elegante" (Heller).
8.13: Popular song—Mr. A. E. Dowell, "Love is Just a Little Bit of Heaven"

(Baer).
8.17: Magic flute solos—Mr. Verner Lawford, (a) "Swiss Cradle Song" (Scott); (b) "Omaka Waltz Melody" (Nicholls).
8.24: Contralto solos—Miss Constance Flamank, (a) "Look Up O Heart" (Del Riego); (b) "Ships That Pass in the Night" (Stephenson).
8.32: Instrumental trios—Christchurch Broadcasting Trio, (a) "Blue Danube Waltz" (Strauss); (b) "Gavotte" (Sinding).
8.42: Happy duets at the piano with ukulele—Misses Muriel Johns (piano) and Edna Johnson (ukulele), (a) "Breeze" (Hanley); (b) "Who-oo You-oo" (Yager).
8.50: English concerting duets—Theo and Miss Frances Gruther "Calonal Borger"

8.50: English concertina duets—Theo and Miss Frances Gunther, "Colonel Bogey" (Alford); (b) "Ukulele Dream Girl" (Low).
8.55: Humorous recitation—Mr. Hiram Dunford, "The Enchanted Skirt" (a

philosophical fairy story). Weather report and forecast.

9.6: Joy songs—Rollicking Bobby, (a) "Sweet Child" (Whiley); (b) "Ukulele Lady" (Whiting).
9.13: Clarionet solos—Mr. S. E. Munday, (a) "Harlequinade Polka" (Morelli); (b) "Weber's Last Waltz" (Le Thiere).

9.20: Popular songs—Mr. A. E. Dowell, (a) "The World is Waiting For the Sunrise" (Seitz); (b) "Charmaine" (Rapley and Pollock).

9.27: Phono fiddle solos—Mr. Verner Lawford, "The Question" (Elkin); (b) fox-trot melody, "Avalon" (Burcher).

9.34: Contracto solo—Miss Constance Flamank, "Hindoo Song" (Bemberg).

9.38: Instrumental trice—Christophysik Broadcasting Trice (a) "Barrayse do

9.34: Contralto solo—Miss Constance Flamank, "Hindoo Song" (Bemberg).
9.38: Instrumental trios—Christchurch Broadcasting Trio, (a) "Berceuse de Jocelyn" (Godard); (b) "Three Fours Waltz" (Taylor).
9.48: Happy duets at the piano with ukulele—Misses Murici Johns (piano) and Edna Johnson (ukulele), (a) "Shady Trees" (Donaldson); (b) Dew, Dew; Dewy Day" (Podias).
9.55: English concertina duets—Theo and Miss Frances Gunther, (a) "Always"; (b) "Napoleon's Last Charge."

LONG aerials, as a rule, are best if one has a selective receiver, or me with which it is easy to separate 'ie various stations. With the advent high power broadcasting, however,

ne has to live a considerable distance com such stations to bring in one without hearing another in the background. For that reason, many radio manufacturers recommend an aerial of between fifty and sevent-five feet. The aerial could be of No. 14 twisted strand enamelled wire. No. 18 rubber-covered wire makes an excellent lead-in.

ONCE upon a time the New York "Radio News" regularly devoted a large proportion of its space to amateur transmission, morse code work, te., but broadcast listening has so overwhelmed amateur transmission in gennow allots very little space to the "ham." In reply to the criticism of a correspondent, the New York paper says:—"The 'Radio News' caters to the greatest number of radio enthusiasts. This majority is composed of those people who are interested only in the or phases of radio reception, and who have little knowledge of the radio code, and less of transmitting practices. You are quite correct in stating that 'Radio News' is devoted to the interests of the broadcast listener; that is our aim, but not quite completely so, as we do publish enough technical ar-ticles to appeal to those more advanced radio faus who can appreciate them. The people who can read good code are comparatively few in number, and their special interests are covered by a magazine which has no other function."

IN the ordinary tuned radio-frequency receiver, the eliciency is highest when the dials are tuned to the shortest wave-length; and, as the wave-length is increased, the efficiency decreases steadily. The result is that, on the waves between 400 and 500 metres, where much of the listening actually takes place the sensitivity of the set takes place, the sensitivity of the set is often only one-third of maximum. On the other hand, makers of the best tuned radio frequency sets have embodied methods of overcoming this distilling

IN round numbers, the average American home spends 50 dollars (£10) a year for soft drinks and ice cream; for tobacco, about 100 dollars (£20) a year; for telephone, 80 dollars (£6) a year; for radio, 28 dollars (£5 12s.) a year; while the automobile costs 420 dollars (£84) a year, more than fifteen times as much as the electricity bill.

RADIO dry batteries should always be tested for their voitage, as that is an important thing to know. Further-more, they should be tested with a highgrade, high resistance voltmetre. The ordinary pocket voltmetre has a much lower resistance than the radio valve, and its indications will be lower than that actually impressed by the battery to the tube. A low resistance instru-ment, therefore, may condemn the bat-tery too severely.

ARRANGEMENT'S were completed in New York resently, whereby radio fans were able to listen to the broad-cast of a musical comedy, and the next day purchase the exact programme, inform of a phonograph record. The first programme of this kind was given over WRAF on March 11, between 5.30 and

"THERMOS" (Thorndon) writes :-Let us hope that when the Wellington Radio Society is appointing a representative for the society on the 'public relations' committee with respect to broadcasting matters, that they will weigh carefully the personal attributes of the candidates. The rep-resentative should be an experienced listener, and not a five-minutes in the game squib. He should be a man of good judgment, and not given to vent-ing hot air. He should not have a reputation for putting his foot in it when he opens his mouth in public. He should not be an individual who is seeking the oppointment merely for self-glorification, and the free advertising he is likely to get out of the position for his own business purposes. The society has a serious responsibility before it, and it should be prepared to make a judicious selection. The appointee should have the confidence of the general body of listeners, and, above all, should have an unimpeachable record. If the man who is appointed does not fit this bill the "public relations" committee is doomed to failure so far as the Wellington listeners' faith in him is concerned."

LET is first be understood that a "C" battery is not a cure-all. It will not increase the range of your set, nor will it make a simple one-valve set operate from a loop, nor give loud-speaker volume from the Australian stations with one valve when used on an ions with one valve, when used on an aerial. The primary purpose of a "C" battery is to put a negative bias on the grid element of the valve, thereby preventing a flow of current from the filament to the grid; it reduces the "B" battery drain considerably, producing a saving in four yearly "B" battery "Bs. It also affords clearer reception by reducing somewhat the noises in a set. A ',C' battery is used to advantage only in cases where the "B" battery voltage is in excess of 50 volts. "C" battery is most commonly used on the amplifier valves, and the circuit can be arranged so that but one "C" battery takes care of both amplifiers.

fiers.

10.2: Humorous recitation-Mr. Hiram Dunford, "The Little Hatchet" (George Washington story revised). Dance music until 11 p.m. God Save the King.

#### 4YA DUNEDIN (463 METRES)-SATURDAY, MAY 5.

11.30: Relay of Forbury Park Trotting Club's meeting (subject to permission being obtained). 7.15: News session.

7.30: Address under the auspices of Workers' Educational Association by Dr. G. E. Thompson, on "French Literature." 8.0: Town Hall chimes.

8.1: Orchestral music relayed from the Empire Theatre.
8.11: Sopano solos—Miss Agnes Guy, (a) "The Wood Pigeon" (Lebmann); (b) "Pokarekare" (Hill).
8.17: Instrumental trio (violin, 'cello and piano)—"Andante" (Beethoven).
8.22: Baritone solo—Mr. Arthur Lungley, "When the Sergeant Major's on Parade" (Longstaffe).
8.26: Pionefort wide. Miss Mysiel Caldia (a) "Le Papillar" (Langles) (b)

Parade" (Longstaffe).

8.26: Pianoforte solos—Miss Muriel Caddie, (a) "Le Papillon" (Levallee); (b)

"Valse Lyrique" (Sibelius).

8.36: Orchestral interlude from Empire Theatre.

8.46: Mezzo-soprano solos—Miss Molly Vickers, (a) "I Hear a Thrush at Eve"

(Cadman); (b) "Just a-Wearying For You" (Jacobs-Bond).

8.54: 'Ceilo solo—Mr. P. J. Palmer, "Aria" (Bach).

9.0: Weather report and forecast.

9.2: Instrumental trio, (a) "Scherzo" (Reissiger); (b) "Melodies Mignomes"

(Sinding).

(Sinding).

9.13: Soprano solo-Miss Agnes Guy, "Rosebud" (Drummond).

9.17: Violin solos-Miss Eva Judd, (a) "Mazurka" (Henry); (b) "Chant Hindu" (Rimsky-Korsakov).

Hindu" (Rimsky-Korsakov).

9.23: Pianoforte solo—Miss Muriel Caddie, "Polish Dance" (Scharwenka).

9.28: Baritone solos—Mr. Arthur Laugley, (a) "The Devout Lover" (White); (b) "Sea Fever" (Ireland).

9.35: 'Cello solo—Mr. P. J. Palmer, "Dance Orientale" (Squire).

9.40: Mezzo-soprano solo—Miss Molly Vickers, "Think of Me" (Scott).

9.44: Violin solos—Miss Eva Judd, (a) "Cavatina" (Raff); (b) "Chant Sane Paroles" (Tschaikowsky).

9.52: Orchestral music from the Empire Theatre.

10.0: God Save the King,

### Sunday, May 6

1YA AUCKLAND (333 METRES)—SUNDAY MAY, 6.

3 p.m.: Afternoon session-Selected gramophone items.

Literary selection by the announcer. Further gramophone items.

4.30: Close down.

6.0: Children's song service, conducted by Rev. L. B. Busfield, assisted by couring from Beresford St. Sunday School.

6.55: Relay of evening service from Baptist Tabernacle. Preacher, R Kemp; organist and choirmaster, Mr. Arthur E. Wilson. 8.30: Relay of organ recital by Mr. J. Maughan Barnett from Town Hall. Preacher, Rcv. 👃

9.30: God Save the King.

2YA WELLINGTON (420 METRES)-SUNDAY, MAY 6. 6 p.m.: Children's song service, conducted by Uncle Ernest, assisted by St.
Peter's Choristers.

6.55: Relay of evening service from St. Andrew's Presbyterian Church. Preacher, Rev. R. J. Howie, B.A.; organist and choirmaster, Mr. Frank Thomas. (approx.): Relay of band concert of the Wellington Municipal Transvays Band from His Majesty's Theatre.

#### 3YA CHRISTCHURCH (306 METRES)-SUNDAY, MAY 6,

5.30 p.m.: Children's song service by Uncle Sam, assisted by scholars from Moore house Avenue Church of Christ.

6.30: Relay of evening service from Church of Christ, Moorhouse Avenue.

Preacher, Rev. Howard Earle; choirmaster, Mr. H. Ames; organiste,
Miss E. Hepburn.

8.0: Rebroadcast of ZYA, Wellington (concert by Municipal Tramways Band from His Majesty's Theatre). God Save the King.

#### 4YA DUNEDIN (463 METRES)—SUNDAY, MAY 6.

5.30 p.m.: Children's song service, conducted by Big Brother Bill and assisted by a choir of young people from Trinity Church Sunday School.
6.30: Relay of service from Knox Church. Preacher, Rev. Tulloch Yuille, B.D., 8.0: Studio concert. M.A.; organist, Mr. W. Paget Gale.

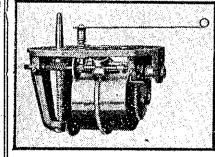
A NUMBER of broadcast listeners, on [ a recent evening, picked up 9XF, Downes Grove, Illinois, U.S.A., power 5000 watts; wavelength, between 280 and 200 metres. The station was testing, and asked for reports.

The American attempt to use the new word "radiocast" in twice of "broadcast" has apparently failed completely, and the former term is seldom seen in print. An American radio writer says: "Without explanation, ask 100 people in the street what "radiceast" means, and if they answer at all it will be a guess that it has something to do with the receiving instrument, as a radio set to-day is generally accepted as a receiving set, not a transmitter. Ask that same 100 what "broadcast" means and they will tell you, and tell you correctly."

SERIES means batteries connected positive to negative. This method of connecting gives a voltage equal to the sum of the voltages of the individual batteries or cells. Thus, a 22½ volt "B" battery is composed of 15 cells connected in series. Two "A" batteries connected in series give 3 volts.

If you use a motor-car storage battery for lighting the filaments be sure it does not exceed six volts. There are several makes of such batteries on the market whose voltage exceeds six volts, and if they are used in conjunction with six volt valves, the is a good posibility of the filament being burned out, unless the rhcostat has been turned fully "out" before lighting the filaments

Sometimes a set will cease functioning or will function poorly on the last stage of audio-frequency amplification. This is almost always due to a poor connection in the jack that precedes the last stage or in one of the preceding jacks in other stages. If you have this trouble, look in between the small silver contacts in the jacks, and notice whether or not they close properly when the plug is withdrawn from them. Sometimes the springs weaken and do not allow them to close as they should The remedy is to take out the jack and bend the offending spring back into position, and then to replace the



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NOTE,-ALL PARTS guaranteed for 12 months.

# The Advantages of the B Battery Eliminator

Its Action and Use Fully Described

By "MEGOHM"

AT the present time owners of battery-operated sets, if they have been using dry B batteries for a while, will be looking for some means of obtaining a more dependable source of high-tension current than they have been employing. The wet B battery or accumulator is undoubtedly good and reliable, and its only drawback is the fortnightly or weekly charge and the cost of the necessary charger, or a trip to the charging garage at frequent intervals. The latter method is a workable expedient where no electric current is available, but where such power can be utilised the B eliminator is a most satisfactory solution of the problem. Once the voltages are regulated by means of the variable resistances to suit the several stages of the eccivers, there is no further trouble. First the A battery is switched on, then the eliminator, and it will give high-tension current for as long a time as required, and at a trifling cost. There is not much in an eliminator to cause trouble, and being valve operated, there are no liquids to deal with or spill.

Some of the more recent eliminators also provide C or grid bias voltages up to as high as 40 volts, which suits a large power-valve. The grid-bias is most satisfactory when obtained from a separate rectifying valve for the purpose, but which need only be halfwave, and as there is no actual current flowing, the smoothing condensers may be of comparatively small capacity.

#### TYPES OF RECTIFYING VALVES.

B ELIMINATORS may be divided into two classes, according to the type of valve used for rectification of the current after it has been stopped up from mains voltage by means of a transformer, where alternating current is concerned. There is the filament valve, which necessitates a separate lowvoltage winding on the transformer to supply a 4 or 6-volt current to heat the filament. Several different types of such valves are on the market. Then there is the type of valve that rectifies without the assistance of a heated filament. The Raytheon tube is the most prominent in this class, the EH type being more generally used, as passing a large amount of current suited to the average multi-valve set, and giving a large margin above actual requirements.

The life of a rectifying valve is usually from one to two thousand hours, depending to some extent upon the amount of current drawn from it, and in the case of filament valves, depend-ent upon the filament being supplied with the correct voltage, with no ten-dency to overload.

The Raytheon tube fits the UX socket, the two filament connections representing the two plates, which are con-nected to the outer ends of the respective high-tension windings of the

transformer. The positive output is the usual plate connection on the sockud represents the cathode or metal cap within the valve. This connection runs to the chokes and smoothing condensers, and is the B positive output for each valve, voltage being snitably altered by variable resistances.

#### B POWER SUPPLY CIRCUITS.

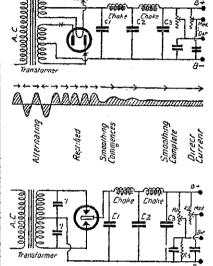
REFERRING to the diagrams, two circuits are presented one showthe connections for a filament valve giving full wave rectification, and the other showing connections when the Raytheon Bit tube is employ ed. The smoothing system is identical in both, except that in the Raythcon circuit a resistance R3 is shown across the output, but this resistance is not indispensable, and may be omitted. In the case of the filament valve there is a low-tension winding on the trans-former to supply filament current, and this is adjusted by a suitable rheostat. In the filament valve circuit the B positive is from a tap in the centre of the filament winding, the reason for this being that in the process of rectification, current can only flow from plate to filament in the valve, so that it has to be drawn off at an equally balanced point in the filament circuit, and this point, if correctly determined, is the electrical centre. In actual practice, it works quite efficiently and with-out introducing hum, if the tap is at the central turn of the winding, though it may not be the exact electrical cen-

tre.
In the Raytheon circuit no filament winding is necessary on the transformer so far as the rectifier is concerned, but in the case of converting a filament valve eliminator to use a Ray-theon, the discarded filament winding may be profitably utilised to heat the filament of the last power-valve, and although this current is only raw a.c. at low voltage, no hum is introduced into the receiver.

In the Raytheon circuit two by-pass condensers are placed one each high-tension winding of the transformer. These assist the action of the valve, and may also have the effect valve, and may also have the effect of decreasing any radio-frequency currents induced from the mains. Mains operated sets are frequently said to be less selective than those operating from batteries, but the writer has found that by inserting radio-frequency chakes in a suitable position in the chokes in a suitable position in the circuit, that eliminator operation can be just as selective as when batteries are used. The presence of these R.F currents is accounted for by the fact that the mains conveying the current act as efficient acrials and pick up the transmission of a station near the wavelength of that being received, pass-ing these currents into the receiver through the power circuit, ignoring any selective tuning arrangements that may be in the aerial circuit proper. Radio chas a consisting of 1000 turns of fine wire will stop these currents, and all that is needed is to insert a choke in each plate circuit as shown at XX in the standard circuit. ACTION OF THE CIRCUIT. .

RETWEEN the circuit diagrams is one showing the action of the Alternating current is made up of circuit in smoothing out the current. small impulses changing at the rate of 50 to 80 per second. In the case of 50 per second, or "50 cycles," there will be 25 impulses in each direction every second. A few of these impulses are shown in the diagram alternating on either side of a central or neutral line, the short arrows showing the direction of the current for one-half of a complete phase or vibration. This kind of current enters the transformer, and on account of its alternating form, it is able to induce in an adjacent winding a similar amount of current measured in watts, dependent upon the

Standard B Eliminator Circuit



Raytheon B Power Circuit up to 200 v.

ratio between the turns on the secondary winding or windings and the turns on the primary windings. If the number of turns is equal on both primary and secondary, then the same voltage and amperage less a conversion loss, will be obtained from the secondary, and the same gauge of wire would be used on each, unless as in the case of an eliminator, the required output is extremely small. But the number of primary turns must be accurately determined if the transformer is to work efficiently. If secondary turns are more than on the primary, there is a proportional step-up in voltage, but fewer amperes may be safely drawn, so the secondary wire can then be of thinner gauge. If very few turns are on the secondary, we get low voltage, and may draw more amperes to make up the total watts, so that heavy gauge wire must be used, as is the case for fllament windings to give say six volts at one or two amperes.

When the current has been transformed, either stepped up or down, it is still alternating, and then passes through the rectnying valve, which plate only passes to filament. eurrent With from high-tension secondary winding connected as it is, the alternating pulse in one direction travels in the valve from plate to filament from one half of the The next pulse is in the winding. The next pulse is in the opposite direction, through both windings, but the construction of the valve only allows it to take an impulse from plate to filament, which is now the pulse in the other half of the winding, so that we now have the alternating impulses that were formerly going in opposite directions, now travelling through the output circuit all in the same direction.

The current next encounters in turn smoothing condensers, and one or two choke coils with iron cores. smoothing condensers have the preperty of storing up a charge of current momentarily and giving this charge back to the current when its voltage is below that of the stored-up charge. By this means the low-voltage gaps between the "humps" of voltage shown in the diagram are filled in The action of the choke coil is to stop the passage of fluctuating current, so that only fairly smooth direct current can The last condenser (C3) stores up a charge which is chiefly utilised to provide for any extra demands that may be made on the audio side, and if the placing of a larger power valve in the receiver causes any indication of hum, it is this condenser that should be increased in capacity, the benefit being especially noticeable on the low notes. Output voltages of different values are obtained by reducing the main voltage by means of variable resistances, and in order to prevent any tendency to hum, a fixed condenser is placed across each different output.

#### TROUBLE FINDING.

AS remarked above, there is little to give trouble in a well-constructed eliminator, but if trouble does develop, it may readily be located and remedied. More often the trouble is in the receiver, and it should be decided proper tests that the trouble is not in the receiver before commencing upon the eliminator.

The logical place to begin the hunt for trouble in a radio power unit is at the resister bank, and then work backwards through the ülter, rectifier tube, and finally the transformer. It s assumed, of course, that the alternating current is known to be flowing through the transformer, and that the rectifier tube is not visibly damaged in any way,

An open-circuited or burnt-out resister will result in no voltage from the tap it controls. If the 10,000-olim fixed resister becomes open, in the case of the B-power unit, the detecter

voltage will immediately increase so that in the tuned radio-frequency receiver the signal strength will be greatly diminished, while in the regenerative receiver there will be constant oscillation.

The simplest method to locate a defective resister is by means of a highresistance voltmeter, connected to each tap in turn. In fact, this device is essential in adjusting B power voltages to any receiver, in place of the cut-anddry method. In the absence or this device a 15-watt 230-volt incandescent lamp may be employed. It should glow a dull red on the full output and on the intermediare tap of the li-power unit. If it lights equally bright on the detecter tap, it is an indication of an open or defective 10,000 ohm fixed

If the tap voltages are found to be satisfactory, and the receiver still does not operate well, the trouble may be due to an open or an omitted by-past condenser. A short-circuited by-past condenser will act the same as a shortrircuited resister.

No Voltage at all Terminals,-This condition can be caused by an open circuit in the wiring transformer, choke coils, or by a broken-down filter ondenser.

With power disconnected from the Bpower unit and the Raytheou tube removed, a click should be heard in the testing telephone when connected in series with battery between plate terminal of rectifier socket and the positive B of the power unit. A click should also be heard between either Glament terminal of the rectifier soc-ket and the negative & of the B-power unit. These clicks should be of equal strength. If one filament terminal gives a much louder click than the other, it generally indicates a defective buffer condenser. If no click is heard on either filament terminal, then the transformer secondary is open-circuited, or the centre tap of the transformer does not connect to the negative

It side as it should.

The circuit continuity of the transformer itself may be tested by the click between the two filament terminals of the rectifier socket, with the tube removed. If the transformer secondary tests O.K. on the foregoing procedure, there must of necessity be an open circuit in the negative B lead.

A short-circuit in the secondary of the transformer can be most casily checked by connecting a 25-watt, mains voltage lamp in the series with the pri-The current is now turned on in the usual way, but with the tecti-fier or Raytheon tube removed from the socket. The incandescent lamp should glow dull, if at all. If it glows bright either the transformer secondary or one of the 1 mfd. condensers is broken down. With the lamp still in the primary, the rectifier tube is inserted in its socket. If the secondary connections are O.K. and the Raytheon is operative, the lamp will increase in brilliancy.

#### Moving Coil Loudspeakers.

THE moving-coil loudspeaker is admitted to be the best type at present in existence, and is well suited to targe rooms where ample volume com-nined with quality is required. This sined with quality is required. type of speaker usually requires about one ampere of continuous current to mergise the electromagnet, and this act mal somewhat run, especially where mains current is not available. Its principle depends upon the interaction between the electromagnet and a small coil attached to the back of the cone diaphragm, this soil carrying the current of varying amplifude from the plate circuit of the last andio valve. Small sizes are made with permanent magnets, obviating the heavy current consump-

New Push-Pull Transformers.
THE first shipment of Ferranti pushpull transformers is aboard the s.s. Westmoreland, shortly to arrive in Tew Zealand.

B Accumulator Voltages.

The idea of utilising the whole output of a B accumulator and cutting down voltages with resistances in the various plate circuits has one disadvantage, in fbat a certain amount of current is dissipated in the resistances, thus causing a higher consumption than in the case of employing tappings. The idea is not suited to a dry battery in any case. This method appeared in an American radio journal. A New Vernier Condenser.

DUBILIERE are marketing a new type of variable vernier condenses that will shortly be on sale in New Zealand. This, known as the "Univane," is so designed that each turn of the control knob turns one vane from zero to full-in position, the next turn puts in another vane in the same way until all the vanes are full-in. This allows of very fine tuning in an easier way than when the whole of the vanes move To assist in logging, a condial indicates how many vanes are in use. The maximum capacity is .0005

#### WHY VALVES BECOME PARALYSED

DRESENT-DAY dull emitter valves, for the most part, have so-called thoristed-tungsten filaments, the action of which, even at this late date, is not fully appreciated by the average electronic emission of the thoristed-tunesten filament, ac-cording to the chief engineer of the Radiali Company (of America), de-pends upon the presence of a layer of thorium atoms on the outer surface of the filament.

#### Thoriated-tungsten.

It will be noted that, unlike the oxide-coated filament found in some volves, the thoristed-tungsten filament is not merely thorium-coated, but it is permeated throughout its entire mass with the rare element thorium During the normal operation of such filament the thorium on the outer surface is gradually evaporated, reduc-

#### NA SERIA DE REGERE DE LA REPORTA DE LA REPORTA DE LA REPORTA DE LA REFERENCIA DE LA REFERENCIA DE LA REFERENCI QUERIES BY CORRESPONDENCE.

1. Every communication enclosing queries is to be addressed to "Meg-ohm," Box 1032, Wellington, and must be accompanied by a stamped address

ed envelope for reply by post.

2. Questions must be written so that a space is left in which the reply may

3. No charge is made for replies.

### 

ing the emission current, and if permitted to continue, rendering the valve short-lived.

However, while the heat of the filament serves to evaporate the thorium particles on the surface, it is also boiling fresh thorium particles out of the mass and up to the surface. Thus the surface is being continually replenished. Just so long as the filament production is not increased become nent voltage is not increased beyond 10 per cent. above the rated value, this evaporation and replenishing process continues at an equilibrium rate, so that a constant layer of thorium is maintained on the surface.

When subjected to an over-voltage on the filament, however, the evapora-tion becomes excessive, so that the valve accordingly becomes more or

less paralysed. Operating these valves at sub-normal voltages is also liable to paralyse them slowly, as the filament temperature is then so low that the process of boiling out the thorium from the interior of the filament becomes abnormally retarded.

Need for Pilament Control. Hence it is important that the thoriated-lungsten filament valves be operated strictly at their rated voltage of the valve in a non-microphonic by means of hand rheostats with an ac-

curate voltmeter, or, better still and simpler, perhaps by means of self-adjusting rheostats, such as Amperites.

> Screen-grid Valve Holder. SPONGY rubber valve holder

has been introduced for use where the S625 type passes through a screen. The rubber holder is attached to the screen, and holds the centre

# OF 1928.

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switch on your set to control everything,

### Frame Aerials and their Uses

#### SIMPLE CONSTRUCTION FOR EXPERIMENTERS

written.

It should be stated as a preliminary that the sensitivity of an average frame aerial compared to that of an outdoor aerial of ordinary proportions is from one-sixth to one-tenth, so that where heavy volume is sought, a frame is out of the question with an ordinary set, except at very short distances from the transmitter. In the ordinary way a frame aerial is more frequently used with a suner-heterodyne type of receiver, which is both sensitive and selective, the latter quality being further anomented by the use of the frame or

Yet even with an ordinary set of three or more values, good results may be obtained over long distances, using headphones, by anyone of an experimental turn of mind. A few years ago the writer and others have on one or two favourable occasions been able to pick up KGO (California) on one and two valves, using a small loop, but such reception appears to be impossible at the present time owing to the congestion of the ether or some other

spite of its limitations, however, the frame has some compensa-tions, and the lack of sensitivity is made up for to some extent has the great reduction of interference and the clearnes of reception owing to the silent background. Tuning is very fine, and will seem particularly so to those who have not had experience on short-

FRAME aerials at a made according to several different patterns, but the most selective is that in which the wires all lie in the same plane. The winding is connected across the aerial and terminals of the set, the aerial tuning condenser then being in parallel with it. The reason for its selectivity is because waves from a transmitting station reach one side of the frame before the other, if the plane of the wires lies in the path of the waves When the waves strike the first wire of a turn they induce voltage in a certain direction; when they strike the further side they induce voltage in the appo-site direction. These two voltages site direction. These two voltages would exactly balance each other, except for the fact that the waves strike one side before the other, and on this account the voltages on the two sides are unequal, and the small difference only traverses the windings. The fact of there being several wires supplies a difference of voltage for each turn and these differences add together, giv-ing the total effect. The waves strike the top and bottom wires equally, so no difference of potential is available from them. In like manner, when the plane of the frame is turned across the direction of the waves the latter strike more and more equally until the position is at right angles, when there is equal effect upon all wires, and consequently no voltage difference to traverse the

THIS property is made use of in find-ing the direction from which waves are coming, and it is quite easy to distinguish the difference on strong signals between maximum and mini mum settings, the frame being parallel with or at right-angles to the incoming waves. Failing any known data as a guide, this test will give a line of direction along which the manufacture of the control of the contr rection along which the waves may be travelling in either one direction or the other. To determine the direction of origin upon this line, 'wo bearings are usually taken by moving the frame and ceiver after the first one, to some distance either side of the line that has been found. Such new bearing will converge upon the original line, thus indicating very clearly the direction from which the waves emanate. This is the method adopted by the British Post Office for tracking-up offending oscillators, all the apparatus being installed in a specially-built motor-van. Two vans are often employed, each one taking a different bearing simultane-

THIS method also constitutes the radio compass, by which means bearings may be found by a ship or its bearings communicated to it from shore. The directional effect of frame aerials is much more marked on short than upon long wavelengths, so for compass work short waves are used. Some years ago there was established a radio beacon of limited range working upon a wavelength of seven metres.

ESSENTIAL POINTS.

()NE point in using a frame aerial is that any circuit whatever may be employed, including any that would be illegal on an outside aerial. In the construction of a frame aerial attention

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All sizes.

MANY inquiries have been received regarding the use and efficiency of loop or frame aerials, and it is in response to these that this article is written.

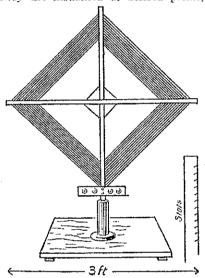
must be paid to making it as "low-loss" as possible, especially if for use at high frequencies (short-wave) where its efficiency will be the greatest if dewritten. points for successful operation are good audio amplification, a good B battery, silent background, and full control of reaction. All oscillation backlash must be eliminated so that the detector glides imperceptibly into and out of oscillation.

#### CONCTRUCTION.

FROM the foregoing remarks it will be seen that the amount of energy dealt with by the frame is very small, and it is clear that the greater the distance between the two upright portions of the winding, the greater will be the difference in voltage induced. It is therefore an advantage to keep the size of the frame large rather than small, yet within reasonable limits, to suit the rooms of a house. A convenient and fairly effective size is one having two-foot sides, which has a diagonal of nearly three feet.

ON a frame of these dimensions 500 metres would tune in on 12 turns, which would require about 98 feet of wire; 300 metres on 9 turns, or about 74 feet; 180 metres on 6 turns or 50 fect. Lower wavelength would require Many taps are not actufewer turns. ally required, because the par liel tun-ing condenser in the aerial circuit of the receiver gives a wide range. Twelve turns will be ample for any broadcast reception, and it is a good

idea to take a tap at the centre or sixth turn, and one at the minth. One system of lapping is to merely scrape away the insulation at desired points,



and make connection by means of a clip attached to the lead. Dead ends are not desirable in frame aerials, so if short-wave is to be worked it would be a good plan to bring out the ends of both halves separately at the sixth turn, and connect together to put the whole in series, or use only one winding of six turns, further reducing it by clip connections as mentioned. No doubt a number of enthusiasts will be pleased to add to their enterior es by experimenting with the frame, and in order to bring the opportunity within the reach of the greatest number, the simplest possible way of constructing the frame will be described.
In some frame acria' circu'ts requion

is obtained by including some of the turns in the plate circuit.

TWO laths one inch by half an inch will be required, 3 feet and 3 feet 6 inches in length respectively. The shorter one is fixed by its centre at angles to the longer at a distance of 18 inches from one end of the latter by "halving." Further security is obtained by fastening on a 4-inch square of 3-ply or & wood, as shown in the diagram. Twenties or 22's enamelled copper wire is the best to use. Before putting the cross pieces together they must be slotted to take the wire. The slots are made with a saw, the slots, sloping diagonally, can be sawn in two strips at one operation, and if held in a vice with a waste strip outside each side, there will be no fear of breaking out the small pieces of wood between the slots, which are in apart. Just the same effect will be tained by drilling holes in apart, and threading the wire through, which is rather a tedious operation. Brass (not iron) tacks sould be used on one edge of the strips as a makeshift idea. It is important that the wood used be of a good solid kind and thoroughly dry, and after cutting the slots, should be well shellaced, getting the shellac well into the cuts. To obtain stability of the cross-piece, two short pieces of wood may be screwed to the upright as shown at AA. Ends of wires may be secured by passing through a hole drilled in the strips, or may be connected to terminals on a small square of ebonite as shown.

The lower extremity of the upright is rounded to fit the centre of an old wire spool, from which one flange may be removed. This is screwed to a baseboard and allows of the frame being rotated with ease. If a calibration scale is required for direction-finding, the top flange of the spool should be left intact, and upon it a cardboard scale marked in degrees can be fixed. A pointer of wire or a large needle is then attached to the upright.

No useful work can be done with loop aerials in connection with crystal sets, and an inside aerial will give bet-ter volume than a loop, but loses the advantages of the frame aerial's selecOur Mail Bag

ly fine.

Taranaki Reception.

Ed. J. L. Payne (New Plymouth): I regret to notice that you are still main-taining that we must seek locally for the cause of 2YA's distortion, the plain insinuation being that our receivers are to blame. Your past slurs on North Taranaki's receivers are still rankling, as you are doubtless aware. There is as you are doubtless aware. There is one fact which I would like to point out to you. It is this: the same "distortion producers," at the touch of a knob or dial, bring in clear, sparkling reception of foreign stations operated on various wave-lengths. Can your technical experts explain this away? Do you claim, Mr. Editor, that the Broadcasting Company's own engineer Broadcasting Company's own engineer supports you in your opinion that our receivers are to blame for our distorted receivers are to biame for our distorted receptions of 2YA? He has investigated for himself, which is evidently more than you have done. I should like to see the "Record" run on the same lines as the "Radio Times," the B.B.C.'s official organ, and not dabble in highly controversial matters on which the organization of the controversial matters on which the controversial matters on which the controversial matters. which its outlook appears to be influenced by a desire to show the company in the light of a public benefactor, and listeners as ingrates.

[Our correspondent's letter is apparently aimed at "Megohm's" article in last week's issue on "The Causes of Distortion." "Megohm" is a very experienced and competent experimenter and writer, and has a perfectly free hand to express his views and experiences, the whole purpose of his writings being to benefit listeners. We do not dictate his writings or even the subject of them in the slightest, and in most cases do not peruse them till after they are printed. The personal tone of our correspondent's letter is therefore quite uncalled for. On perusing "Megolim's" article we cannot see any justification for sensitivene: on the part of Taranaki. It is a purely general part of Taranaki. It is a purely general article, and is certainly not aimed at Taranaki reception or distortion. It is aimed to help listeners analyse the causes of poor reception. What does seem puzzling is why some parts of Taranaki should get poor reception from 2YA while other parts of the counterparts. try get it well. Our correspondent is quite welcome to express his views, but a slightly different tone might be more pleasant. "Megohin" will be quite pleased to have any errors in his article pointed out.—Ed. "Radio Record."]

Query Answered.

correspondent advises "A Listener," in response to his query, that the station he heard "helloing" is 2BH, an amateur transmitter in Wright Street, Wellington.

Eulogy of 3YA.

Ferry Road (Christeharch) .-- In view of the commencement of a new radio year and also in view of the controversy regarding the affairs of the R.B.C., I wish to just express very briefly my opinions on some of the matters concerned. I have written the regarding many times and containing company many times, and certainly whatever my letters have lacked they have never been lacking in candour and frankness, and they have at the same time, I trust, been free from any suggestion of personal bitterness or animosity, which seems to pervade all correspondence from the Queer (pardon!), I mean "Queen" City. As one who have often to such that the control of who has often grouned in spirit over the presence of, or the lack of, certain classes of entertainment, I will admit freely the programmes are wonderfully good now, and show an enormous advance on those of even six months ago, and that they are improving every night. I have been watching the programmes from the other centres, and, though good, they cannot compare with the ones sent out from 3YA. Many items presented here are often put over the same night or week from one of the "Aussies" with the credit balance strongly on this side of the Tasman. I say that although I am strong for Australia in lots of ways! Mr. Clyde Carr is equal to, if not superior to, most announcers, either here or "across the

#### LOOPS OF LARGE DIMENSIONS.

READER of a London wireless journal gives an account of experiments which he has made with large loop aerials formed around the walls of a room, and some of the results he has obtained are really surprising. As a matter of fact, in view of the difficulty of erecting a good outdoor aerial, as well as the objection which many people seem to have to an outdoor aerial in any case, it has al-ways seemed to me that a good deal more attention might, with profit, be devoted to the loop aerial. The reader in question sets up two loops on two adjacent walls of the room, that is, two walls meeting at a corner. These loops are made by means of a few turns (usually not more than half a dozen) along the floor, up the wall, along the ceilings of picture rail and down the wall again. They are further arranged so that they may be put electrically in series.

When receiving a station, first one loop is tried, then the other, and then the two in series. It may be that one or the other gives the best results, according to the bearing of the desired station, or it may be that the two together give a resultant directional effect better than that obtained with either separately. Furthermore, the loops are arranged so that they may be reversed electrically. In these and various ways it is evident that, although the loops are actually fixed, it is pos-sible so to manipulate them electrically that practically the same result is obtained as if they were mechanically

Although there is a good deal in all

this that is well known, it seems to point the way to interesting and use-ful developments.

I am glad that musical comedy and comic opera (especially the former) are now being regularly presented. "Going Up" was a "rattling good show," and so was the "Country Girl" and "Monsieur Beaucaire." At the same time the fact that many items appart from the piece set down for the evening are in piece set down for the evening are in-troduced is an excellent idea. That is where the 'permanent staff plan' crash-ed, for the same little "set" over and over again in one evening "bored us

The increasing use of the gramo-phone is a splendid sign despite what-ever may be said by those who have a worn-out portable and half a dozen scratched records. These are the ones who write to the "Record" saying "we have our own gramophones, so cut it out of the radio programmes." It causes me no tears that the movie shows have got greedy and withheld their music (good though it was!). The

stiff" even though the singers were real-

overtures each night are miles better, and we don't have to endure the laughing, which was very irritating at times. Being able to select an overture in keeping with or from the piece for the night is worth while losing the other. Saturday night at 3YA is as good as any from "Aussie." The big roster of artists is astonishing, and they are all

top-notchers," too.
The re-broadcasts of 2YA of late have been good, and are always wel-come (especially Friday's "All Black" farewell). Could the Aucklanders find fault with that? The gramophone sessions in the afternoon and between the races are splendid; the selection of records being as wide and diverse as

possibly could be.
In regard to Rugby football in Christchurch, "Don't come at their bluff" is the advice of dozens of listeners. Once relays are paid for—"good-night" pro-grammes! Doubtless something else grammes! Doubtless something else could be put across, but don't let it be League or Soccer—"small-time stuff" as they sav in vaudeville, Once more admitting that 30s. is cheap.

#### The Programmes.

Philip Williamson (Whangamata): I have been quite interested, not to men-tion somewhat amazed, to read of the various complaints put forward regarding the programmes put on the air by the N.Z.B.C. Considering the com-paratively small population of New Zealand and consequent limitation of talent, it seems to me that the company is to be highly commended for, not only the exceedingly fine quality of the programmes broadcast, but also on their variation, and the manner in which all tastes are catered for. notice that there have been complaints regarding the constant re-appearance of the same artists, but when one considers that such artists are among the very best in New Zealand, I, for one, fail to see any cause for complaint. I think that I am right in saying that those who complain about the Broadcasting Company are very much in the minority. The bulk of listeners are, I think, more than satisfied with the entertainment provided. It is, of course, impossible to please everyone, but the Broadcasting Company seems to do all that is humanly possible in this direction.

Another bone of contention among a certain section of the public seems to be with reference to the non-publication of detailed financial statements. I may ask, do the regular patrons of picture theatres and so on expect it to be their right, since they pay for admission, to be informed exactly how the sum total of their various payments are expended by the management of the places they patronise? A certain section, however, argues that since the license fees are collected per the medium of th Post Office—a Government institution—that the people have a right to know all about the exact manner in which their fees are expended. To my mind, the Post Office, in this direc-tion, acts purely in the nature of a collecting agent, for which service it is paid in much the same manner as any other collecting agent, such as a solicitor is paid by his client

I understand that it is stated by some people that since the Government helped to finance the Broadcasting Comapny, that the company should publish detailed financial accounts. Here again, I may ask, does the Government, which has advanced vast sums of money to farmers, expect each farmer, particularly if he pays his interest, etc., regularly, to forward copies of his profit and loss account and balance-sheet for the perusal of the general public?

While writing, there are two small suggestions I would like to make. The first is with reference to the "Radio first is with reference to the "Radio Record," in which I think publication of photographs of the various station announcers would be greatly appreci-ated. We all know their voices, and if we knew their faces, too, a still closer personal touch with them would be felt. I suppose there is no voice better known in New Zealand than that of the editor announcer of 2YA, and many would probably be interested to see photographs of him and the other announcers.

The second suggestion is with reference to an educational hour for children, particularly for those in country districts. I would suggest that each station devote one afternoon session a month in this direction. I should like to see some country schoolmasters take up the matter in these columns.

[We undersand this matter is in hand with the Department of Education, and an announcement may be expected soon.— $\mathbb{E}d.$ ]

News and Inquiries, J. W. Hannan (Matiere): In last week's issue of the "Radio Record" Mr. Johnstone reported reception of the unknown station working below KFON. The station is probably the first harmonic of 4YA, on about 233 metres, which can be tuned in clearly. There is also an American station, KFWM, Oakland, Cal., on 236 metres, which I Oakland, Cal., on 236 metres, which I logged to-night (Sunday) for the first time. Hawaiian music was being broadcasted on request. At 7.30 this evening, on about 234 metres, I heard a station close down thus: "After 2BL, station 3GHG, now closing down. Goodbye everybody." Mr. Bank also reports recention of an authory station bereception of an unknown station between 220-240 metres early in the morning. At 2.30 this morning I logged a station on 232 metres. Hawaiian music was being broadcast, and one of the performers was whistling the tune. The station closed down at 2.35, without giving the call sign. I logged another giving the call sign. I logged another station at 1 o'clock this morning, which I believe to be an Indian station, working one and a half degrees below 2BL. Orchestral music was being broadcast. The announcing was in a foreign language, sing-song fashion, almost a wail, in fact. The station closed at 1,10. At 1.45 a station was heard one degree below 5CL, broadcasting queer organ music, closing down at 1.50, giving no call sign. The station is situated in the Philippine Islands, I think. Can my listener enlighten me regarding the bove stations?

What's Wrong, Anyway? "Programme" (Hunterville): Lately

I have read many letters about radio programmes not being up to the mark. Well, I am informed that the listeners pay 30s. per annum to install and operate a radio set, not to manage the programmes. Perhaps if the dissatisfied listeners petition the N.Z.B.C. they may be allowed to run the stations too If there were no stations in New Zealand the listeners would be

paying their money for Australian reception, which is not always good. Now what's wrong with the programmes? The N.Z.B.C. can't please everyone. The programmes here are just as good as anywhere else, if not better.

N. S. Francis (Lower Hutt): I would like you to grant me a little more space in your valuable paper. It was with much interest, and quite a little amusement, that I read the letter written by "Satisfied," or was it "Easily Satisfied," in this week's "Radio Record." He helps my side of the question along quite a lot. One can at once see, by the way in which he replies to the few words which I wrote merely expressing my opinion of the merely expressing my opinion of the programmes, an opinion, by the way, which I am quite entitled to express, that he is either connected with the radio business or else he is one of those persons who can't be convinced that an improvement in the programme is necessary, for I am sure that even the Broadcasting Company themselves

(Continued on Page 14.)



over replacing old worn out bat-teries. An endless job, no sooner renewed than they run out again, and then generally in the middle of the week's best programme. Why carry on with it? Why run the risk of ruining a night's pleasure, Get an Emmeo "B" Battery Elimnet an ammoo "B" Battery Elim-inator which requires no attention, runs direct from the light socket at a fraction of the cost of an old fashioned dry battery. £10-10-0

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RADIOS TOHONOGRAPHS

### On Short Wave

#### A BIG NEW STATION

#### 50,000 WATTS FROM **AMERICA**

Mr. F. W. Sellens (Northland) writes. I have not been able to devote as much time as usual during the past week to the short-wave

Saturday, April 14. The afternoon concert from Schenec tady usually heard from 2AD was put on by 2XAF. The programme was again supplied by the Palmolive Com-Reception was very good, es-

pecially toward the closing time.

In the morning, I tried for 5SW, but apparently they were not on the air the same time as usual. was heard for a short time late in the evening. At 11.35 p.m. 2XG gave us some of his usual "Write down Long-

. 2YG, Sydney, was testing, and was received at good volume and modulation; he was relaying 2BL for a time. 5LH, 5DX, 7CW, and 3KR, Austra-lian and Tasmanian amateurs, were heard on telephony.

PCJJ was very weak when they commenced their early Sanday morning transmission, but no doubt increased in volume later on.

Sunday, April 15. Dance music relayed from Albany New York, was heard from 2XAF till 4.31 p.m.

Monday, April 16. 2NM was just audible before 6 a.m. transmitting some organ music. After this, the carrier only could be heard. M.O were very good from 6 a.m., but fading was bad. RFM had plenty to say in the evening, but not any music while I was listening.

Tuesday, April 17. 5SW started at 6.30 a.m. with a talk after Big Ben had struck.

Wednesday, April 18. PCUJ was very good, both in volume and modulation. Just before 6 a.m., a few names were called, listeners who and modulation.

had sent reports from various parts of the world, my name being in thit

Big Ben was heard at 6.30 a.m., fol lowed by "55W calling, on 24 metres"; then "Daventry calling." A talk was then given on "Pigeon Raising or Pig-con Racing." Musical items followed. 7CW was heard during the evening. This Tasmanian amateur comes in very strong.

Thursday, April 19.

5SW started their transmission with a talk as usual after Big Ben struck. 5DX, or, as he announces 5DonX, was the only one heard on the short time while I was listening during the evening.

Friday, April 20.

5SW and 2XAD were testing, giving reports of reception, discussing programmes, etc. PCJJ was again very good till they

down at 6.35 a.m. with their National Anthem. 5SW started again at 6.30 a.m

RFM was received very weak during

the evening. In the March issue of "Modern Wire-

less," just received, are particulars of a new, powerful short-wave station of 50,000 watts. The call is 3XN This station, which is owned by the

Bell Telephone Laboratories, New York, only operates once a week; this will be from 4.30 p.m. till 8.30 p.m. New Zealand time, on Saturdays. The wave-length is not announced.

When this short-waver gets going, it should be easy enough to pick up here. P.S.—I saw Mr. Harris during the

### BRITISH **GOODS**

A bit better quality; A bit cheaper; In short "a job"! You get them from:

HARTLE & GRAY,

CUSTOMS ST., AUCKLAND.

working tube.

week, and he thinks a line to my home will be a good idea, so he is going to have it put in for a short period at first to try out, but, in my opinion, these short-wave rebroadcasts, which at present are experimental, will be a part of our regular programmes in the near future.

I can see in this new station-3XN, mentioned in my notes—a means of filling in a gap somewhere between 4,30 and 8,30 p.m., which is usually the best time for reception from New York.

#### Another Enthusiast.

S. Saunders (Wellington).—Further results on short-wave band.—April 11, 1928: PCJJ, 32.2, came in at good strength; 5SW also at good 'phone strength. Talk on "Girl Gnides" and usual concert. 4PJ, Brisbane, put over some good records; also 2RV, Sydney, both very plain. At 9.30 p.m. got a station putting over a play, people station putting over a play, people laughing, band pieces, "Valencia," and Sailor's Hornpipe. Could not get call

On April 13, 1928, PCJJ and 5SW

On April 13, 1028, PCJJ and 58W both came in well.

April 14, 1928: WGY, 2XAI, usual programme, Wurlitzer Organ items and singing. Announcer spoke about North Atlantic flight; got amateurs of RB and 7NW, Hobart.

April 15, 1928: 3AR and 3AI, Ashburton, Station 2ME (2FC), 2BL, WGY, 2XAI, National Broadcasting Company, Wurlitzer Organ and Dan Manuel's Organical Company, Station 2ME (2BC), 2BL, WGY, 2XAI, National Broadcasting Company, Wurlitzer Organ and Dan Manuel's Organical Company, Stational Broadcasting Company, Stational Broadcastin

Wurlitzer Organ and Dan Manuel's Or-cliestra at De Wetzler's Hotel, New York, very clear. People in hotel heard talking and laughing, good programme; signed off 4.35, New Zealand S.E.T., 12.4½. Got station at 7.10 p.m. on about 60 metres; man mentioned for the control of New Zealand Alexandral people of New Zealand. Also at 10.0 p.m., got station on 65 metres, orchesra with lot of flutes, and a man sang

Could not get call signs, too weak.
On Monday morning, April 16, 1928,
SLO, Melbourne, came in good strength.
The latter part of the programme was The latter part of the programme was spoilt by persistent howling. April 17, 1928, 6.30 till 8.30 a.m., got station on 17 metres (about). Talk on "Negro Race," orchestra jazz music, two ladies sang Charles Dickens's sketch, "Lady Reciting," Kylophone solo, Wurlitzer organ going strong when I shut down; could not get call sign.

On April 18, 1928, got WGY again, put over five programme P. A. Ralph's

on April 18, 1828, gor Werk again, put over fine programme. P. A. Ralph's Orchestra played items, also Wurlitzer Organ, organist Gordon Baldwin. After 12.0 p.m., New York time, switched over to buffalo Theatre, Symphony Orchestra, operatic items, and also dance erchestra (Nat. Holmes's); altogether a very enjoyable programme. Closed down 1.1 a.m., S.R.T., 5.30 New Zealand

On April 19, 1928, 5SW was on the On April 19, 1928, 95% was on the roward. There are good singers in the Welthrough at good strength, 55W was also lington district who have had years on the air that morning. The Chelussof first-class training and who have the roward have been coming over lentered their names in the "book" ford Station has not been coming over too good this last morning or two, t bit on the weak side. Perhaps some of your readers could identify those stations I got and could not get call

signs for. P.S.--I might mention that I got 3L(), Melbourne, on a Crosley Pone-valver last night at 11.0 p.m. 3L(), put that down to my good earth system. It came through fair 'phone strength, about R4.

#### Successful Reception.

J. A. Huxtable (Mount Eden, Auckland.—Often when reading your paper in the short-wave columns I find much to interest me, as from time to time some cader registers another short-wave station, and through the reports being published in the "Radio Record" with detail particulars. I have been successful in logging RFM, ANE, and PCJJ. Now it is up to me to add and PCJJ. Now it is up to me to add my experiences. About six weeks ago, Sunday, at 4 p.m., New Zealand time, I cleaned up a series of messages being sent out from the Westinghouse Manufacturing Company's station, On-tario, Canada, to the isolated people in The following Sunday I searched, but failed to locate it again. but was successful in getting WGY, and on the last three Sundays this New York General Electric Com-pany's station; I have received just as clear as I get IYA on crystal reception. A fortnight ago I kept a pen-cil and paper and dotted down each item as Mr. Barnes announced; since, have posted the programme to

I have posted the long-WGY for confirming. Last Sunday I heard the entire dance music programme relayed from the Rainbow Dance Room, Hotel Van Kel, Albany, New York, dance by candle light" (so said the announcer). Anyone knowing the

whereabouts of — Hill, a motor mechanic, whose mother has just died, DX WORLD'S CHAMPION notify WGY, New York.

notify WGY, New York.

To day it took me quite an hour to clean up the reception. The announcer gave the station call as 2XAF, relaying dance music from the Crystal Dance Room, Dc --- Hotel, Albany,

New York.

Items: "One More Night," "Mary Ann." The dancers sang the chorus.

My request: "Leave My Baby Alone"-

"There is always a way to remember, But I can't find a way to forget
The man that helped the band."
By request: "Whispering," "My Buddy."

Signed off at 4.33 p.m., New Zea

land time. This company, I think, controls four Their wave-length is more stations.

Announcing is of no importance to this station, for while jazz music is being played often the announcer hur riedly makes the announcement, and I could not get the name of the hotel. The drummer always seemed to be prominent just at the critical moment.

WMAK, WGY, 2XAF, are three of their calls. If any reader knows anything of the method adopted by the General Electric Company of New York's stations I should be pleased to hear, as I am inquisitive.

### Our Mail Bag

(Continued from Page 13.)

would not go so far as to say that they have reached perfection as regards the programmes. As for "Satisfied's" little joke about the oxiphone, a thing which exists only in his, evidently rether limited in contraction. dently, rather limited imagination, I think it was rather crude and even rather limited imagination, I a little vulgar coming from one who

has such refined tastes.

Hoping that "Satisfied" will now be sporting enough to sign his own name to any reply he should think necessary to make to this.

Artists Wanted.

Robert Radford (Johnsonville): In a recent issue of the "New Zealand Radio Record," April 6, 1926, page 5, in the top left-hand corner, I noticed an article headed, "Artists Wanted," and the leading phrase and in a conference of the leading phrase and the leading phrase phra and the leading phrase ending as follows, "Where are the new performlows, 'ers?' Would you grant me a small a your "Record" by saying space in your "Record" by saying that the Broadcasting Companies of New Zealand ask for new performers in the hope that they will not come

and have been told they will be called upon, but that is months ago, and they are still waiting, and they will have to keep on waiting, for the sim-ple reason that the broadcasting stations have got their own concert par-ties, and the said parties mean to ties. stick to the radio-just glance through the weekly programme. So before amateurs can become perfect in the art of broadcasting they ought to be given a chance, and then perhaps they receive the encouragement mentioned in your article.

Doug.'s Queries Answered. Listener: In last week's issue of the 'Radio Record' I noticed a few queries from "Doug." Perhaps the following may be of some assistance to him. In cases where he has quoted figures, such as 20-66, I take it the 20 is on the left-hand dial, and 66 on regeneration

Whistle on 96 is evidently 7ZL, Ho-

Whistle on 20 is probably 3DB, Melbourne, on 255 metres, Whistle on 30 is probably 2UW, Syd-

Whistle on 64 is evidently 2GB, Syd-

ney on 310 metres He heard whistles on 20 and 30 at 1.30 a.m. That would be midnight in T have beard stations like 3DB and 2UW working until well after

#### EXTRACTS FROM LETTERS

midnight.

B.C.H. (Wellington): "Before closing I should like to say how very much my Hubby and I enjoy 2YA sessions. We get a great deal of fun and inforwe get a great deal of rull and information from them, and fully appreciate all the radio people do for our amusement and entertainment. We have been intensely amused at the criticism you all get from time to time, but we are happy to note that it doesn't You evidently disturb our screnity. understand human nature. I believe it was Lady Astor who once said, "If some people were given the best seat in Heaven they would complain there was a draught." Personally, I should was a draught." Personally, I should imagine it would be very, very dif-ficult to estimate the amount of good radio does and can do, both now and in the future. It should prove a great

A.D.A. (Brisbane): "And now I have to give you the palm for having the best concerts, or whatever you like to call your effort. I thought that our little bit of mud would be able to give the best turn-out seeing that we have more to choose from, but I must say you beat us."

#### 4YA NOTES

(Continued from Page 7.)

The artists splendid concert. will be Miss Winnie McPeak (contralto). Miss Madge Yates (elocutioniste) Mr. Charles Edwards, Mr. R. B. Mac-donald and Mr. E. G. Bond.

An interesting address on "French Literature" will be given at 7.30 on Saturday by Dr. G. E. Thompson.

For Thursday even a comedy programme has been arranged, when good t

#### HAS HEARD 746 STATIONS

Mr. G. B. Van Buren, of 125 Ronada Avenue, Piedmont, U.S.A., has logged 746 broadcast stations, and he is now recognised as the world's champion broadcast listener.

Mr. Van Buren writes:-"John buys a radio set and he wants distance. It makes little difference about tone quality or volume. What he demands is the satisfaction of listening to the an-nouncer on a distant station's pro-Tom demands a set gramme. the avowed understanding that he is no DX hound (long-distance listener). He wants quality on locals; even ually he becomes an ardent worshipper of that great god DX, whose most devoted slave he will have the honour of being. This has resulted in a demand for the high-class receivers which we have on the market to-day—a radio that gives distance, tone quality, volume and selec-

Radio brings so much entertainment, education, amusement and enjoyment into the home, the camp, the speeding auto and train and everywhere man goes, it does not seem possible that anyone should be without a radio. only has radio brought us all of these things, but it is keeping the public posted on civic and international affairs throughout the world every bour.

#### Receives Many Inquiries.

I have been the recipient of hundreds of telephone calls and a mass of mail from all parts of the country-some from our foreign cousins as far west as Hawaii, all of whom requested me to tell more about my DX reception and further details about the equipment I

The fact that I have become the accepted world's DX champion is due, in large part, to the fact I am a crank on antenna systems. I am satisfied only with the best aerial and the best ground obtainable. Too many fans overlook this great importance. The proper grounding of the radio set is so important that you cannot afford to overlook it; in fact, it is more indispensable than the acrial.

#### Perfect Earth Necessary.

"If you wish to get results from your radio receiver you must have a perfect radio receiver you must have a PER-PECT ground. Outside of the radio re-ceiver itself, the ground is the most important, yet it is sadly neglected by Local as well as dis countless fans. tant reception depends upon an efficient pick-up system. The power that reaches the aerial from the broadcasting stations is so small that a little resistance prevents the station from coming in on the loudspeaker.

"The water-pipe ground, the gas-pip and the steam-pipe, are merely hitching posts for electrical devices such as electric light and telephone. The gas-pipe should never be used. grounds are known to run many before coming to earth contact, and they therefore do not make a true earth contact. Pipe grounds will aver-age a resistance of from 1000 to 3000 ohms and even higher. Even when a ground clamp is attached at a distance above the ground, the intervening length of the pipe acts as a resister. The steam radiator and its connecting pipes are not grounds for radio receivers by virtue of the fact that rubber gaskets are used to prevent the escape of steam. A good ground must have a positive earth contact, and be of low resistance. The grounds which I have just mentioned are of extremely high resistance.

#### Poor Earths.

"Interred Ford radiators, wash-boilers, dead B batteries, and other metals, are resistances, detrimental to good re-ception. They should not be usedthey cause a loss of radio frequency currents, and these RF currents are very small at their best. What we do What we do get we wish to conserve in every way possible and avoid losses, therefore geting away from resistance prevents loss. In other words, you MUST have a ground of the least possible resistance, making a true earth contact and the lead-in being as short as possi-

ble.

"For a ground connection I am using what is known as the permanent radio ground. This is a chemical ground, and it gets me away from the out-of-date pipe grounds which are, as I have said, no more than hitchingposts for telephones, electric lights, and other electrical contrivances. This most marvellous invention was developed by C. H. Preston after many years of experience, and he has devoted his life work to lines of communication in a period of over twenty-five years of

humour, not necessarily Scottish, will humour, not necessarily Scottish, will be broadcast. Miss Roma Buss, Miss Billie Lorraine, Mr. Billy Gay, Mr. Percy James, Mr. Jack McNeil, Mr. J. McCaw, the Two Blue Ducks and Pastor W D. More will contribute.

An excellent concert programme is

scheduled for Friday evening at 4YA. A number of old favourites are to be sung—"The Admiral's Broom,"
"The Diver," "Linden Lea," "Rocked "The Diver," "Linden Lea," "Rocked in the Cradle of the Deep," (Mountains of Mourne," "The Harp that Once," and others. Dunedin's fine artists contributing will be Mr. Bert Rawlinson, Miss Flora Williamson, Mr. Neil Black, Mrs. D. Carty, while flute and piano selections will be bloved by Mr. Charles H. Cibbous and played by Mr. Charles B. Gibbons and by Miss Alice Wilson respectively. Sayoy dance music will follow the studio concert.

The week-end concert will be up to the usual standard of 4YA's best. Miss Molly Vickers, Miss Agnes Guy, who will sing mezzo-soprano and soprano solos, Mr. Arthur Langtey (baritone), Miss Eva Judd (violin), Miss Muriel Caddy (viano) and Mr. P. J. Palmer ('cello) are contributing.

railroad, and commerciat telegraphy. This ground has been installed very recently on station KNX, This ground has been inand other installations are to be made very soon on KFWB, and a broadcastwhich is soon to astruction in Oakstation, be under construction in Oak-land. I think I have dwelt enough on the subject of grounds, and I hope this information will prove of vame to all or you, as it has been my good fortune at one time to experience and personally wage a fight against counterpoise, even going so far as to mention the history of this "artificial ground," where and how it has been used in commercial radio work, Therefore I am greatly interested in a ground which gives true earth contact, which was sadly needed.

#### Describes His Earth.

"I shall give a brief outline of this earth. The earth is a copper cylinder containing eight different chemicals, which, when buried in the earth, permeate the adjacent ground, positive contact and renderi positive contact and rendering high conductivity. That the chemicals contained within the instrument cause & spongy mass of copper growth within and without the container and collecting its own moisture, clearing up the radio frequency waves and thus permit-ting a clean, clear signal to be inter-cepted, is due to the chemical formula which neutralises the action of the sulphate upon the copper container, and rather than eat away the copper, as is the natural tendency of blue vitriol, if preserves the copper in its original state, which is, indeed, an accomplishment. This ground increases its efficiency with age.

#### The Aerial System.

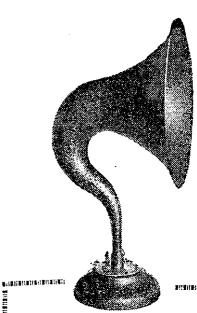
"Now comes my aerial system. dirty, rusty and corroded antenna, improperly insulated and erected, is a feature which should not be overlooked. The resistance in the aerial is a factor which must also be very low. To get down to low resistance, experts have developed a new wire, which may be used in single strand or in a cage-type aerial. This copper wire embodies a silver plate surface, as silver itself is the best known conductor to radio frequency signals. A gold-plated surface over the silver prevents corrosion, as it was found that silver-plated wire, when exposed to certain weather conditions, corroded, thus reducing the loss of signal strength. The name of the new wire, Gosilco, was coined by using the first syllable of the name of each of the metals employed-gold, silver, copper.

A BY-PASS condenser in the plate circuit of the detector valve will improve the operation of your receiver to a great extent.

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165 Manchester St., Christehurch.

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The A.J.S. Loudspeaker is standard equipment, with the famous Courier 3-valve Set, and is well known for its flawless tone and full volume.

#### 11in. FLARE, 19in. HIGH.

The A.J.S. is as handsome as it is efficient—a black matt finish preserves the good appearance of this all-British speaker. We advise you to secure your A.J.S. at this special low price.-If your regular dealer cannot supply you, write direct to us, and we will see that you are promptly supplied. The A.J.S. is 19in. high, with 11in. diameter flare.

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-"THE HOUSE OF SERVICE"- WELLINGTON.

The Model 11 is a bona fide 6-tube receiver with every tube

ing tubes, one being used for antenna coupling. The Model 11 has Zenith's own tubeless method of untenna coupling. Judged by the standards of many 6-tube sets, the Model 11 is the equivalent

of 7 tubes. Single control electric lighted dial. Calibrated in both

kilocycles and metres. 4 Zenith condensers permanently balanced on one shaft. Most 6-tube sets have 3 condensers. Battery operated, and economical in the use of batteries. Wired for power tube.

Obtainable only from the Sole Agents:

Cabinet in beautiful brown mahogany veneer.

Many 6-tube receivers have only 5 effective work-

ZENITH MODEL 11

# NEWS FOR THE CHILDREN

(Continued from Column 1.)

and I believe they would have had a

go at the 'plane, too, if I hadn't step-

Home-The Last Hop.

"That brings us to the last hop, over

the Timor Sea. Australia is in sight, see there at Darwin is the little monu-

ment to Ross Smith, my brother Australian, who made the first of all the flights to this country. Now we're

home in dear old Australia. It didn't take us long, did it?
"Well, boys and girls, some day
you'll all be taking the air like I did.

Read up all you can about flying. Learn

all about flying and the aeroplane as soon as you can, and remember this, you are Australians and you are British-

ers, and we all must see that Britons lead the world in flying, as they do in so many other ways. I never lost sight of the good old Union Jack all the way ont. It is our protection wherever we

#### FAMOUS AIRMAN'S TALK TO CHILDREN

#### AN INTERESTING FLIGHT

The famous airman Captain Hinkler, when talking to the children of SLO, when taking to the children of 3LO, Melbourne, gave them an interesting description of the wonderful things he saw on his long flight. Boys and girls of New Zealand who were not fortunate enough to be able to listen-in to Captain Hinkier will like to read of his adventures. He said:

#### Flying Kangaroo.

"I suppose you would like to know how I felt when I was away up in the air on my long journey to Australia. Well, I just felt that I was a flying kaugaroo, coming home to my dear native land in big hops. It's a grand thing to feel that you are coming home. You feel that you are coming home. You know how you feel when you have been away for a holiday; what a good time you have when you are away, how you enjoy everything, new scenes, new playmates, new games, and all the rest of it, but after all there's nothing more enjoyable than the journey home. And let me tell you that the joy of home-coming is better than ever when you have been far away from your own country. Some day you'll experience this, and you will know how I felt when I reached Australian shores after my

#### The Eternal City.

"What a lot of interesting places I saw on the way back. I wish I had time to tell you about them all, but this is impossible. I darcsay most of you know that the first place I stopped at was Rome, more than 1000 miles from London. In those olden days the famous Coliseum was often a scene of great brilliancy during bull fights and many other contests. It was at the Coliseum also that the poor Christians were tortured. To-day the Coliseum is one of the very interesting sights of ancient Rome. Other ruins of famous buildings nearby are also preserved. What a grand old place it is, the Rternal City of the Seven Hills. I could imagine what it was like in the days of old, with the proud Roman citizens in their flowing togas, the ladies in their robes of cloth of gold, and the palm-bearing slaves, like living statues of chony. I remembered that Rome was the birthplace of that great airman de Pinedo, and I thought of the great scene that must have taken place about two and a half years ago, when de Pinedo landed his 'plane on the waters of the Tiber after his long flight to Australia and Japan and home aagin.

#### Oranges and Lemons.

"The next place I called at was the island of Malla. That's the place to see, lovely gardens and beautiful fruit orchards and groves of lemons and oranges, all flourishing in the sunny clime of these parts. Malta has a very romantic history, and I advise you all to look it up and learn all about this yonderful island.

#### Arabian Nights.

"Now, after Malta was a long sea took me six hours to get to Benghazi, on the African coast, Tebruk, Ramleh, and Basra, and there you get some idea of the kind of country where the great carrel trains and the state of the state. camel trains used to plod along with their tinkling bells, carrying their their tinkling bells, carrying their freights of gold and gems and silken scarves.' It is the land of dates and spices and sweet oils. It makes you spices and sweet oils. It makes you think of Ali Baba, the Golden Road to Samarkand, the ancient river of the Abana, and all the glitter and the mys-

tery of the Arabian Nights.

"After a run down the Persian Gulf we come to India, first of all the town of Karachi, and then a big Imp over to Cawapore. Those of you who are learning history will remember that it was at Campore that the treacherous Nana Sabib betrayed the British soldiers caring the Indian Mutiny. Cawupore is now a busy commercial etiy.

#### The Land of Chang.

"Next there was Calcutta. No doubt you have heard a good deal about that very important British outpost, and a very fine city it is. Now I must harry very line city it is. Now I must mily along and take you across the Bay of Bengal to Rangoon, and on to Victoria Point. Did any of you see the picture called 'Chang'? Well, that would give you some idea of what the jungles of Siam and Burma are like. The very thought of it gives one the shivers.

#### Gateway of the East.

"All aboard now for Singapore, but on the way we pass Georgetown, on the island of Penang, another great British port, and one of the busiest places I saw all the way. And this reminds me there's a great treat in store for you. When passing over there I saw the British flying boats now on their way to Australia. These flying boats, four of them, are manned by members of the Royal Air Force, and they are due to arrive in Australia about June. Look out for them—it will be a great

sight. "Well, my time is nearly up, and I must hurry you through the Dutch Bast Indies down to Bima, where I hopped ff for Australia. One thing about Bims shall never forget, and that was the squitoes. They nearly ate me alive,

(Continued in Column 5.)

### Uncle Jasper and Spot bid Farewell to Radioland

Dear Children.

for you. We always have bright and just at the time, too, when Felix journey to Paeroa. Here are some sunshine and smiles for you,

but this time there is a shadow on our happy Radio Circle. Yet, do not be too sad, for Uncle Jasper would not like to see you in tears. He does not think there should be any tears in the eyes of children; and hasn't he put many a smile on your faces? Yes, it's about Uncle Jasper. Uncle Jasper and Spot are going away. How very unfortunate that is! They are not flying away to the Never Never Land that Peter Pan tells about. for someday we shall have them with us again. But Uncle Jasper is going quite a long way away from 2YA. He has received notice of his promotion in the Govern-

would accept me for your little friend?

nearly off once. I don't suppose Spot

would hite a pussy's tail, but I know

Uncle Jasper, I think Spot is very rude,

and he "shows off." Last Saturday

night I sat in our diningroom and list-

ened to Spot talking and "showing off"

for the little boys and girls at the

hospital, and I heard you ask him to

sit up for a biscult, and when he caught

it he crunched it with his teeth, and

made me shudder. The other day

when you took Spot with Aunt Dot to

visit a farm, he did not behave himself;

on the journey to the farm, riding in

lieve he was falling off the step-he

did it so that you would notice him. I



ment service and is being transferred was going to make friends with We always have good news, but to Paeroa. We are going to miss Spot. However, we will send a this time we have some sad news Uncle Jasper and Spot very much, troop of fairies to cheer him on his

> words written to us of Uncle Jasper:--"I am very sorry to hear of Uncle Jasper's removel from Wellington. It is, I think, nothing short of a calamity for the children-and grownups too. He has undoubtall. Again, I say I am sour protection wherever we go. Look up to it, work for it, and let the world know that Britons are second to none." edly endeared himself to radio pal." So children, we shall speed him on his way with all kind wishes and thoughts for the future, until once more Spot and Uncle Jasper greet us.

Photo shows Spot"broadcasting" from 2YA.

TO THE COMPLETE OF THE COMPLET

### THE COMING OF TELEVISION

HOW IT WORKS

The miracle of sight by wireless has

been achieved.
The fantous Bell Telephone Company, which operates a huge network of thou-

sands of miles of telephone lines in the United States, has one of the most remarkable research laboratories in the world. About a hundred of its men have been busy solving the problem of seeing by wireless. The same laboratory has installed

over a thousand instruments for tele-graphing photographs, and so perfect are the results that it is almost im-possible for an expert photographer to distinguish between the original picture and a copy of it sent 5000 miles by wire.

The Bell Telephone Company decided a few years ago to attack the gigantic problem of television, and they have now perfected a system by which it is possible for the whole audience of a theatre to watch on a screen about two feet square the movements or features of a person hundreds of miles away. So complete has been their work that in the view of experts there is no doubt that in a short time television will become as common a time as the telegraphed picture.

This is the method by which the likeness of a face can be seen five hundred miles away. A narrow percil of fight is directed by means of a rapidly-moving piece of apparatus on to each tiny part in succession of the face of the person whose image is to be seen at the distant spot. As this pencil of light falls on each little bit of the face it passes over dark hair, light skin, dark eyes, white teeth, and so on, and from these various parts of the face the light is reflected on to three giant photo-electric cells, the biggest ever made.

#### Lamp Like a Chessboard.

These ceils generate an electric current which changes in strength with each change of the light reflected from the face. The varying electric current sent on a wireless carrier wave to the distant station. Here it is picked up and passed into a remarkable kind of electric lamp, consisting of a huge grid about two feet square, which can be illuminated in any one of its 2500 tiny

It is like a large che-shoard; and as the pencil of light at the sending in-strument is focussed on each bit of the face so the electric current received by wireless from the photo-electric cell causes the corresponding tiny portion of this neon lamp grid to glow with corresponding brightness.

#### 13 Times a Second.

The point of this pencil of light traces over the whole of the face in a fraction of a second, repeating its performance 18 times in a second. The result is that those watching the grid of the neon lamp see what amounts to a kinematograph picture of the sitter, whose face can be clearly seen many miles away.

Although at present only simple subjects, such as the head or shoulders, can be seen by wireless, so complete has been the work of the Bell Tele-phone Company that it can be a matter of time only before television becomes common and far more elaborate subjects are dealt with.

#### A GIANT PIE

Not even the vast kitchen ranges of the Mansion House could furnish such a pie as that set before the Lord Mayor of London and the Lady Mayoress at the Albert Hall.

Six men were required to draw it forward, and the sides were scaled by means of step-ladders. When the means of step-ladders. When the "feast" was spread there came an imposing procession of nursery rhyme

The pie was opened to the accompaniment of the singing of "Four-andtwenty Blackbirds" by a choir of 1200. The blackbirds were, of course, four-and-twenty little boys.

This was one of many delightful sur-prises provided by the boys and girls from various branches of Dr. Barnardo's Homes at the annual festival.

#### I hear you speak to the little boys and dry him with your handkerchief-he was me. I am tortured with jealousy! I girls of Radio Land every Tuesday evening. I know you love little boys the time you decorated him with a flower and girls and doggies. You may not -flowers sent to Aunt Dot, and youlike me, I am a hig black pussy. Uncle fancy a self-respecting dog allowing Jasper, I am jealous-you never speak anyone to place a flower behind his ear about pussies-only about dogs. I

--like a Tahlti belle--oh, Uncle Jasper! don't like dogs; one dog bit my tail The other day, when you were speaking, I heard a terrible noise, and it was Spot talking very loudly in the I should be afraid of him; and, oh, Uncle Jasper, I am smooth and soft,

Some Letters of Felix the Cat to Spot of 2YA

and I am all black. I haven't one nasty spot like some people I know. Could you love me a little, Uncle Jasper? Anyway, one thing I know that Spot does not know, I understand French.- Your loving friend,

P.S. I will listen-in every Tuesday until you answer my question. Don't you love nice, big, black, soft pussies better than rude doggies? I wouldn't chase the car, Spot made a great fiss when rabbits and I would not interrupt Aunt the car rounded corners and made be- Dot, either,

would have sat very still on your knee, with rightful wroth. I can lardly set, and cannot have ordinary creatures Uncle Jasper. When you reached the write. I hear that a strange cat (a taken for me. I kiss my paw to farm I heard the great solash made by | very ordinary cat, I believe), giving his Spot when he jumped into the pond pame as Felix, is a guest at 2YA. Aunt

ուրանգ։ Բայարթանին հայարարությունը արդարության արդարության արդարար արդարության արդարության արդարության արդարու

Dear Uncle Jasper,-I wonder if you | and frightened the poor ducks, and | Dot's message over the air leads me to when you left the farm you had to believe that she took this intruder for so wet and dirty. I remember, too, am pure black. I know it is Spot's fault. I daresay that imposer is a friend of his; some cats have no pride. Spot introduced this stranger to Aunt Dot just to annoy me. I am still trembling with rage, but must not forget my manners. So I thank you, dear Uncle Jasper for speaking so nicely to me. That horrid Spot heard you whisper that you liked big, velvety, black pussies, and he was so cross. Uncle Jasper, Spot was very rude to me, when he spoke that Tuesday night, he simply roared at me. I could never repeat what he said. Oh, how I longed to scratch him, but all I could do was to snarl and hiss at the radio cabinet. Please thank sweet Aunt Dot for saying good night in cat language; she speaks cat divinely. I love her pretty voice. But she must not take every cat she sees, or hears stories about, for me.

> Now, please, dear Uncle Jasper, I beg you to ask that strange cat to produce Dear Uncle Jasper, My tail shakes his passport. I mix in a very good

#### Children's Sessions Next Week for

TUESDAY, MAY 1.—Uncle George with us again, with his charming The pupils of Miss Blamires will also assist with songs and piano items. Listen for the Tiny Tots playing their duet.

WEDNESDAY .- Our ever - welcome Uncle Tom will have more jokes and fun for young and old.

THURSDAY.-Here's Peter Pan. And more good news-Bayfield Choir will entertain the little folk in

FRIDAY .- Nod provides the stories and birthday greetings. Cousins will play the piano and violin.

SATURDAY.—Guess what Cinderella has in her glass slipper to night? Some clever little performers, and, ood! Uncle Mack with his jungle stories.

#### AT 2YA.

MONDAY, APRIL 30, brings the Thorndon Normal School on the air again. They are merry friends, Auntie Gwen and Uncle Jell will keep the ball rolling-chornses, dialogue, and stories.

TUESDAY .- Popils from the Island Bay School are making their first appearance, or audition, shall we say. Now, listen in, little ones, for new surprise.

THURSDAY .- On May 3, Uncle Sandy will have a jolly treup of little people from Rongotal College. They are new friends, too, and ever so welcome to our circle.

FRIDAY.-Uncle Ernest and our party from the Technical College. Hurrah for choruses, novelties and stories by all the gay little entertainers.

SATURDAY.—Uncle Toby and Anut Dot, with their treasure box of Mrs. Halligan's pupils are coming to join in the fun. Songs and sketches and "joy germs."

MONDAY, APRIL 30,-Hello! Hello! Uncle Jack here, and Aunt Edna, too. Are all you children ready for the story hour and the dear old good-night songs?

WEDNESDAY .- "Here we are again," says Uncle Peter. "Well, Mother

Hubbard, where are your pretty songs for the little ones?" We are having some quartets, also, "Weel may the keel row," others.

TMURSDAY .- Chuckle with his chirpy chuckles. And the Marist boys are visiting us again, singing songs and chorases for the children

FRIDAY .-- Aunt Pat and "Scatterjoy," with the help of a group of little Brownies, will keep the children happy and interested for this bedtime hour. Mr. Pegg, from the Y.M.C.A., is coming along to tell you all about some fine games and how to keep fit and well.

SATURDAY .-- Uncle Sam and Aunt May, with their infectious merry. making and jolly music, will keep you happy and bright to-night.

SUNDAY .- To-night we have the Children's Song Service, conducted by Uncle Sam, and the hymns will be sung by the scholars from the Moorhouse Avenue Church of Christ Sunday School.

# Auckland Leaders in Music Endorse Company's Committee Scheme

# Comprehensive Committee Appointed by Enthusiastic Meeting



of representatives of mus-ical and dramatic com-

of representatives of musical and dramatic committees was held at 1YA Auckland on Friday last to discuss the formation of an advisory committee. Present: Madame Irene Ainsley (Ainsley Operatic Society), Messrs. T. T. Garland (Auckland Savage Club), G. T. Lee (Aeolian Orchestra), N. R. Mc. Robie (Royal Auckland Choir), V. Trask (Athenian Club), Karl Atkinson (Auckland Gramophone Society), J. D. Crawford (Auckland Orphans' Club), C. B. Plummer (Auckland Choral Society), L. E. Lambert (Bohemian Orchestra), J. F. Montague (Auckland Comedy Players), Dr. Kenneth Phillips (Society of Musicians), A. R. Harris (general manager, Radio Broadcasting Co. N.Z.), W. J. Bellingham (Director of Music, Radio Broadcasting Co. N.Z.), S. J. Hayden (Station Director at IYA). On the motion of Mr. Plummer, seconded by Mr. Montague, Mr. Karl Atkinson was unanimously elected to the chair. the chair.

#### The Company's Policy.

Mr. A. R. Harris, general manager of the Broadcasting Company, in out-lining the proposals to form a musical and dramatic committee said the company was guided in this matter by the fact that certain activities of the Broadcasting Company were closely allied with the aims and objects of other public organisations. In the circumstances the directors felt that some kind of public relationship between these organisations and the Broadcast-ing Company would be of particular in-terest to the societies and of national benefit to the public at large. A workable arrangement, however, was not a simple matter. The company did not wish those present to think that it wanted free advice as to how to run its business. As a matter of fact it employed a competent staff of experts for this work, and had also retained the services of overseas authorities for consultation on any important matters. These experts also kept the company posted on any new ideas developing elsewhere. He knew that those present had for many years given a great amount of their time to maintaining and developing interest in musical and dramatic art. He assumed therefore, dramatic art. He assumed therefore, representatives were interested to learn what effect broadcasting would have on their past efforts or future endeavours. As this applied to other organisations of a definite type, the difficulty was to provide a medium for discussion satisfactory to all parties. The General Advisory Board idea introduced in other countries was more political than praction of a 1YA Auckland Musical and

was due to diversity of interests. These interests could not all be represented on such a board, and in any case were so opposed to one another that little if any benefit resulted as far as the actual service was concerned. On the other hand certain work of the Broadother hand certain work of the Broad-casting Company touched upon activi-ties already being undertaken in the more customary way by well defined public organisations. These could be classified into definite types, all organ-ised for specific objects of an ideal na-ture. The company had therefore de-cided that committees consisting of al-lied conjectes, were the only satisfactory lied societies were the only satisfactory method of obtaining worth while re-sults. Such an arrangement would be fundamental and on the lines of the company's policy in respect to the other phases of its programme. In arrangphases of its programme. In arranging programme sessions psychological, as well as other factors had been considered and there was a logical reason for a certain type of programme at a certain hour, whether that session was afternoon, children's, news and information, or entertainment. For instance, news and information session has been news and information session has been fixed at 7.8 p.m., because adults in general after a days' work are more sus-ceptible at that particular time of the day to broadcasts of a newsy or instruc-tional character. The same condition of affairs applied to the 8 p.m. to 10 p.m. session, which had been fixed for entertainment entirely. Types of programme are also organised fundamentally. It was apparent that with the varying types of individuals that make up a broadcast audience it was impos-sible to cater for all or even the majority of tastes at one time. The company had, therefore, decided on the plan of endeavouring to cater for a definite section of listeners at a definite time, and another section on the following evening and so forth, in the hope of satisfying the majority at one time or another. As far as possible programmes other. As far as possible programmes are arranged so as to present a different type of programme each night in the week. These had been classified as classical, open and hevay, band and light ballads, popular, vaudeville, and sacred nights. Under this arrangement the company had distinct and definite programmes. This system opened the way for the co-operation of committees way for the co-operation of committees of allied interests. Church service com-

#### Musical Director's Remarks.

Mr. W. J. Bellingham said that the committee representing as it did the leading organisations of their kind in the city, would naturally be interested in stimulating the higher forms of music and art from an aesthetic point of view. They would recognise at the count first that the medicality of lieteners same time that the majority of listeners wanted entertainment of the lighter variety. This demand would be met by the company, and was being provided for by the company's experts in collaboration with the company of the contraction of the co oration with other authorities. At the present time it was receiving every possible consideration. Nevertheless it was being discovered through the world that with the development of broadcasting a demand was arising for better forms of entertainment. This was due to the fact that in large doses, lighter forms of entertainment became satiating. It was recognised that in some countries broadcasting had to a great extent been prostituted by jazz. A prominent judge recently said: "There prominent judge recently said: "There is no worse form of monopoly in America than the present monopoly of the air by jazz music." Several years ago Amreican plebiscites gave approximately 80 per cent. votes to jazz, whilst a recent vote showed only 5 per cent. in favour. It would be the concern of the committee to watch the development of broadcasting and co-operate with the Broadcasting Company, to foster the aims and objects for which their societies existed. The Radio Broadcasting Company proposed to place certain Company proposed to place certain hours at the disposal of the various societies. The committee would be in a position officially to represent the 1e-sponsible musical and dramatic organisations and their considered opinions would carry more weight than the private opinions of individual members. They would thus be able to assist to preserve a balance between pure vaudeville on the one hand and their ideals of art on the other.

#### Good Music First.

The chairman, Mr. Karl Atkinson re-marked that so far as he was concerned the interests of good music were al-ways placed first and he regarded with favour any scheme which would further such interests. Although broadcasting was a new field or comparatively so, he fetl that the science had an immense power to bring before the public and assist in the appreciation of the higher and other forms of music, and a com-mittee as proposed, would undoubtedly reflect to the advantage of the societies

comprehensive meeting ticable. He was of opinion that this Dramatic Committee, on the lines of Dr. Kenneth Phillips, who recently tions by quartets and double quartets frepresentatives of mus- was due to diversity of interests. These the constitution submitted. returned from Europe, was fully in accord with the proposal. He was of opinion that the local programmes compared more than favourably with those from Australia and were also on a par with those broadcast in Eugland, bearing in mind the relative resources of talent available. He had listened to programmes with interest and thought that the majority of tastes were well catered for. However he had one or two suggestions to make which he felt would make for further improvement. Up to the piesent he had noted no orchestra renditions of the better class of work. Many of the symphonies of Beethoven and Mozart lent themselves peculiarly to or-chestral performance, particularly such compositions as Mozart's Symphony in G Minor, Figaro, and the overture to Don Giovanni. The average person could be delighted with such works which were by no means too heavy and could be easily appreciated. English music of the present day composers should form a distinct part of the work. Nevertheless the Spanish, Russian and French school should not be forgotten since it was only by the study of all nationals that a wide outlook in music could be obtained. Dr. Phillips regretted that German Lieder was so seldom heard as this comprised was so seldom heard as this comprised some of the most beautiful vocal music. Another matter was the question of musical lectures, included in the programmes on the three of those at present appearing on the programmes in England. These lectures could be given by recognised authorities and might with advantage be illustrated with excerpts from the composer's works. However, he felt that it would not be advisable to prolong such lectures beyond forty-five minutes as the interest of the average listener had to be maintained. The receiption chould not regard the return to the contribution of the contribution of the regard the requirements. societies should not regard the rendering of assistance on these times from a restricted viewpoint, but should be prepared to assist the furtherance of musical app eciation through the medium of radio broadcasting as well as by means of their own organisations. The remarks and lectures from examiners visiting the city should prove a valuable adjunct and comment from these gentlemen on the ability of candidates offering for examination would be invaluable to those concerned.

#### Value of Orchestras.

Mr. C. B. Plummer agreed with Dr. Phillips's remarks concerning orchestras and considered that orchestral accompaniments to vocal operatic rendi-

should be aimed at.

Mr. Bellingham pointed out that the

company had already completed arrangements with the leading performers of Wellington to form an orchestra for ZYA. However, whilst appreciating Mr. Plummer's suggestion regarding accompaniments for operas, the difficulty was to secure orchestral parts for this class of work. It would be necessary for manuscript orchestrations to be made and some of these were already in hand.

Mr. L. E. Lambert said that an or-chestra on the lines of that arranged at Wellington was a distinct advance, and although the 2YA orchestra would at the outset comprise ten performers this would be quite sufficient to faithiully interpret the class of music re-ferred to. This was amply borne out by the small orchestras at present recording for the gramophone companies. He thought the societies were indebted to the company for the opportunity offered in the contemplated forming of

such a committee.

Messrs. J. D. Crawford and T. T.
Garland considered the arrangement and presentation of studio programmes by their respective clubs would be a welcome adjunct.

Mr. J. F. Montague mentioned the interest that would accrue to the dramatic societies and thought that the rendering of short plays and sketches

would add variety.

Madame Irene Ainsley also touched on the operatic aspect of the matter.

#### Committee Formed.

The chairman, Mr. Karl Atkinson, said that from the suggestions already heard the proposed committee would obviously be of immense benefit to listeners the societies and the company

The following motion was then put to the meeting and earried anammously :---

"That this conference approve of the Radio Broadcasting Company's proposals for the formation of a IYA musical and dramatic committee for the purpose of stimulating interest in musical and dra-matic arts and that those present torm themselves into a committee.

The proposed constitution was then discussed in detail and carried by the discussed in detail and carried by the committee, and it was decided that the first committee meeting be held on Friday, May 4. The general manager, Mr. A. R. Harris, thanked the delegates for their presence, and a vote of thanks to the chairman concluded a very enthusiastic meeting.

# Notes from

A created by the public meeting convened by the local Listeners' League, wireless enthusiasts in Auckland have settled down in a generally satisfied frame of mind to enjoy the nightly programmes from 1YA and from other been quick to renew his license. Radio will not wane here. It has too firm a hold upon public taste, and the number of converts to its ranks is increas ing daily.

THE first of the public relations committees, the one which advises regarding the broadcasting of church services, has got to work in earnest. It has made a thoroughly satisfying allotment of the times available to religious bodies, and adherents of various denominations will now know exactly when the tenets of their own faith will be on the air. By this work alone the committee has well justified its creation

PROBABLY the best series of lectures ever arranged for 1YA is that upon the story of our own country, so ably delivered by Mr. A. B. Chappell. The subject matter of the lectures must have occasioned much research, and their interesting presentation has held the attention of thousands, who previously knew far too little of the fas-cinating story of their own land. The lectures should be preserved in print.

THE least appreciated of all the good things broadcast from Auckland seemed to be the regular item by the studio trio, which, for a beginning, often aved the uninitiated by its correctly are the studio trio. rectly given title. The craze for jazz is very strong in the light-hearted northern city, and there were many whose musical knowledge did not extend beyond these realms of syncopation. They expected the trio to come down to this level, and when it did not do so they complained. Now, however, the painstaking efforts of the three instrumentalists are having their effect. Lister and a state of the beauty of the teners are being educated to the beauties of classical music, with the result that vituperation is giving place to appreciation, and a appreciation of a steady growth. The trio is winning its way to a popularity that, according to the man in the street, formerly it could never attain.

THE weekly operatic excerpts are al-AFTER the simmer of excitement created by the public meeting their entertainment.

THE weekly operatic excerpts are always enjoyable, and they too are improving each time. Listeners probably fail to realise the amount of work and enthusiasm required to produce such broadcasts weekly. They owe a debt of gratitude to Madame Ainsley for her untiring efforts in this field of their entertainment.

OF course the "star turn" from 1YA is the relaying of the Municipal Band, and there are few sets not in use frame of mind to enjoy the nightly programmes from 1YA and from other stations further afield, but with little better to offer. Though the Auckiand listener does a growl occasionally, either verbally or in the columns of the local dailies, his is not the frame of local dailies, his is not the frame of mind that is disguntled, and he has it. Auckland is justly proud of its own

> MOST impressive was the relay of the dedication service last Sunday night, when the "Toc H" ritual was excellently handled. No listener could fail to be impressed by the dignity and the solemnity of the occasion, so ably conveyed from church to the seclusion of the home.

DURING the coming week Aucklanders will be able to enjoy two Shakespearean nights, and to make comparisons. On Monday night, when the local station is silent, there will be the local station is short, there will be a rush to tune in 2YA, while on the following evening, the lucky possessors of valve sets will be able to sit back and say "There, I told you so. Our programmes are quite as good as the Wellington ones."

#### RUSSIAN STATIONS

#### SCHEDULE OF OPERATION

ADVICE TO MR. WATERS.

When a new powerful Russian short-wave broadcasting station came on the air last June, says the "Manawata Stan-dard," there was considerable speculadard," tion and discussion as to its identity, but when Mr. W. A. Waters, with the aid of Mr. M. Zotoff, of Bunnythorpe, ascertained that it was RFN, Khaba-rovsk, the statement was disputed by several Press radio writers in New Zealand. Subsequently, Mr. Waters received a post-card from the station in response to a cable sent, which proved the accuracy of the information previ-ously published in the "Standard," and a letter has now been received which gives some interesting information on the broadcasting activities of Russia, or the Union of Soviet Socialist Republics (USSP) or Puede in the control of the contro (USSR) as Russia is now called. letter reads as follows:--

Dear Sir,—We thank you very much for your cable and letter of October 31 with a newspaper cutting. In answer to your cable we have sent you a card. Our station is regularly transmitting from 19-IX (September). Before this time we have transmitted tests on several wave-lengths from Yuny (June). For the tests we have used the call letters RFN, and from September our call letters are RFM. We see that you at New Zealand have no indications about the broadcasting in the Union of Soviet the broadcasting in the Union of Soviet Socialist Republics. On this day in the U.S.S.R. we have about 60 broadcasting stations in operation and about 10 to be erected. The most powerful stations are: Four in Moscow 40, 25, 12 and 4 KLW; in Leningrad, Petersburg, 10 KLW; Kharkov 15 and 4 KLW; Bakou 25 KLW; the rest of stations are 4 25 KLW; the rest of stations are a and 1.2 KLW. All these stations have the wave-length 450-1700 M. (metres). (KLW is Kilowatts.) Of short-wave regular broadcasting stations in operation we have only ours at Khabarovsk and some number of stations on phone for testing. Our town Khabarovsk is the capital of Far Rast Province of the U.S.S.R. and the destination of our broadcasting is to cover the whole of our large province from Baikal Lake till Behring Strait, between Asia and America. It is a surface 4000 KLM in radius. (1 Kilometer is § mile approximately). At this time we have had proximately). At this time we have had reports about receiving our station on the loudspeaker from Canada, California, New Zealand, Australia, Bruxelles and the whole territory of U.S.S.R. The largest distance is New Zealand, 11,000 KLM (6840 miles). From February 10 we have begun to transmit on 70.1 M. and would be proveded to have some reports about to transmit on 70.1 M, and would be very glad to have some reports about reception, also extracts or whole nurthers of your newspapers or journals, wherein anything is written about this matter. I beg your pardon for my bad English, writing and expressions. With best wishes, Bergman, Chief of Post and Telegraph Administration of F.R. Province, U.S.S.R.

In addition to the letter, a postcard was enclosed, giving the new times of regular transmission, which will be of interest to radio amateurs

will be of interest to radio amateurs as the station can be heard on the loudspeaker every night in New Zealand. The times given in the post-card are Greenwich mean time, but have been corrected to New Zealand time by Mr. Waters as follow:—

#### REGULAR TRANSMISSION.

....... 9.30 p.m. N.Z. time Monday 9.30 p.m.
Silent day. Tuesday Wednesday Silent d
Tiursday 8.30 p.m.
Friday 9.30 p.m.
Saturday 9.30 p.m.

#### CONFERENCE BY RADIO

#### A GREAT SUCCESS

We were recently told by cable of the successful holding of a joint con-ference simultaneously in New York and London on the part of the American and British Institutes of Electrical Engineers.

from an American The following journal gives a fuller account of the proceedings:-

With the Atlantic Ocean between them, the American and British In-stitutes of Electrical Engineers have just held a joint session in which radio telephone bridged the gap as completely as if the meetings had been in the same room.

For the first time in history, a presiding officer on a London platform introduced a speaker in New York, and both audiences, physically separated by more than 8000 miles, heard the entire

proceedings simultaneously.

So successful was the demonstration that the New York engineers probably heard more of what went on in London than did the British group. Through the microphone there were audible the whispered conversations which passed whispered conversations which passed between officers of the British institute while the speaking was in progress. So accurate and rapid was the transmission that the New York group became aware of the applause in London for one of the American speeches even before those in the lecturer's presence here began to clap their hands at the conclusion of his talk.

The arrangement to "suppress the Atlantic" was made by the British Post Office and the American Telephone and Telegraph Company. The demonstration formed one of the features of the mid-winter convention of the American Institute of Electrical Engineers in the engineering auditorium here and the session of the British group on the

in New York by Brigadier-General John J. Carty, vice-president of the American Telephone and Telegraph Company. It was seconded almost immediately in London by Sir Oliver Lodge. It was passed by acclamation in both sections of the meeting.

"This meeting," the resolution read, "wishes to express its feelings of deep satisfaction that, by the electrical transmission of the spoken word, these two national societies have been brought together in this new form of international assembly, which should prove a power-ful agency in the increase of good-willi

and understanding among the nations."
Bancroft Gherardi, president of the American Institute; Dr. Frank B. Jewett, president of the Bell Telephone Laboratories Colonel Purve the British Post Office; and Sir Oliver

Lodge were among the engineers who spoke to the two gatherings.

Archibald Page, president of the British Institute of Engineers, presided.

#### NOVEL BROADCAST

#### SOUNDS OF NERVES.

A United States Associated Press message from Des Moines, dated March 15, stated: "Two University of Iowa professors, after three years of experi-mentation have announced a plan to broadcast the sound of nerve currents of the human body. The men are Dr. Lee E. Travis, assistant professor in psychology, and Theodore Hunter, technician in speech patholog. They will broadcast from the station WHUI, the University station, on the night of April 15.

The minute sound made by the cur-

rent that carries nerve reactions from muscles and organs of the body to the brain or vice versa, has been measured by the scientists. The amplifier used in broadcasting will magnify the sound 8 000 000 times 8,000,000 times.

The apparatus used in experiments consist of two electrodes which are fastened to the subject, an amplifier, an oscillograph which records the action of the nerve currents and a motion picture camera which makes a perman-ent record of the experiment."

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Saturday 2.30 p.m. ,
Sunday 2.30 p.m. and 8.30 p.m. ,
The regular wave-length after tests were completed in September was 60.2 the engineering groups, was introduced Bay, FRIDAY, APRIL 27, 1928.