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WELLINGTON, FRIDAY, SEPTEMBER 7, 1928

# All Eyes on the Tasman Flight

### Aviators await Favourable Weather Conditions

THE reliability of all equipment associ-



ITH the definite announcement that the long-expected flight across the Tasman from the Richmond aerodrome to Sockburn (Christchurch) would be attempted by Cap-

tain Kingsford Smith this past week-end, public interest was raised to concert pitch. Unfortunately that interest was doomed to temporary disappointment. Owing to adverse weather conditions the departure on both Saturday and Sunday evenings, tentatively fixed, was deferred, and at the moment of writing no indication is available as to when the attempt will be made. It can only be assumed that the first opportunity of satisfactory conditions will be seized and the flight may be launched at any moment independent of the moon, which, although a material factor in navigation, is not absolutely essential.

I ISTENERS will be well served when the flight does take place. All four stations will be on the air throughout, giving official news to be provided by Government sources as transmitted from the plane itself Two warnings are given listeners. The first is to amateur transmitters requiring them to keep off the air to avoid interference curing the progress of the flight. The second is to those able to listen direct to the morse messages of the "Southern Cross." Much of the matter to be transmitted by the aeroplane will be copyright press matter or copyright private messages, and it will be a breach of the regulations for such matter to be decoded and committed to writing by any listener. News of the aeroplane's progress will be available from official sources and, as indicated, will be broadcast at regular intervals by

Special accounts of the departure and arrival will be provided through special independent sources, all rrangements to this end having been made.

ated with the "Southern Cross" has been strongly impressed upon the public by the proof of performance. On the Pacific flight the radio transmitting apparatus never failed, although, for one period, the approach of dawn and its effect upon atmospheric conditions did prevent their messages being heard. The reliability of the transmitter was greater than that of the receiver, although this last was more affected by the noise of the motors than any technical defect. Interference from the ignition system on the plane was not at all serious, but the operator, Mr. Warner, although he kept the 'phones clamped closely to

his ears, could hear only the loudest

signals. The aerial used consisted of

15 feet of copper wire with weight at-

tached suspended beneath the aeroplane.

ALTHOUCH on the earlier stages of the Pacific flight the "Southern Cross" received some assistance from radio beacons, such aid will not be available on this flight which will need to rely upon expert navigational skill for success. The radio beacon offers the solution for reliable aerial travel on established routes and the most modern equipment presents a practical miracle in its guiding powers. As aviation progresses in these parts so will radio equipment expand.

Just what radio does mean to aviation can be glimpsed from this account of technical equipment now available and in use on recognised air routes. It is taken from the July issue of the proceedings of the Institute of Radio Engineers, New York. "The directive radio beacon is a special kind of radio station, usually located at an airport, just off the landing field. Instead of having a single antenna like an ordinary radio station, it has two loop antennas at an angle with each other. Each of these emits a set of waves which is directive, i.e., it is stronger in one direction than others. When an aeroplane flies along the line exactly equidistant from the beams of radio waves, it receives signals of equal intensity from the two. If the aeroplane gets off this line it receives a stronger signal from one than the other.

"THE indicator connected to the receiving set on the aeroplane shows when the signals from the two beams are received with equal intensity, by means of two vibrating reeds which are tuned to different modulating frequencies used on the two antennas at the directive radio beacon station. When the beacon signal is received the two reeds vibrate. The tips of these reeds are white in a dark background so that when vibrating they appear as a vertical white line. The reed on the pilot's right is tuned to a frequency of 65 cycles, and the one on the left to 85 cycles. It is only necessary for the pilot to watch the two white lines produced by the vibrating reeds. If they are equal in length, he is on his correct course. If the one on his right becomes longer than the other, the aeroplane has drifted off the course to the right (into the region where there is more of the 65 cycles). If he drifts off the course to the left, the white line on the left becomes longer.

"SUCCESSFUL flights have been made up to 135 miles, in fog and over hazardous mountain terrain. This distance is more than enough to demonstrate the success of the system, as it is contemplated that the directive radio beacon stations will be placed not over 200 miles apart. Beacons placed at such distances, with a straight airway between them, will be supplemented by small marker beacons at intervals along the route. A characteristic signal from a marker beacon will show on the visual indicator aboard the aeroplanes what point is being flown over.

"The whole receiving system comprises a small indicator unit on the instrument board weighing one pound, a receiving set weighing less than 15 pounds and a 15 pound battery."

pounds, and a 15 pound battery."

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# WETHOD-WEWKETHOD-CICKLE CHARGING!

For large sets using old-type .25 amp. valves the "Four Fifty" should be used. This charger gives both heavy trickle (.65 amp.) and normal (1.3 amp.) rates.

USE a Trickle Charger! Use the new PHILIPS Trickle Charger! Here is the cleverest and neatest piece of radio apparatus that you can purchase. Study a few of its unique features and then send for further details of this ingenious new Philips product.

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  Combined Thermionic Rectifier and
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- 2. A large knurled switch at the top controls THE WHOLE OF THE POWER SUPPLY when using a "B" or "B" and "C" Unit.
- 3. It charges between 150 and 195 m.A.
- 4. It is covered by the usual Philips GENER-OUS GUARANTEE.

Sold by all Radio Dealers, £3/10/-

### BATTERY CHARGERS

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The "Four Fifty"

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POST THIS STRIP FOR COMPLETE DESCRIPTION AND N	EAREST
DEALER'S NAME	
TO Philips Lamps (N.Z.), Ltd., P.O. Box 1673, Weillingto	n.
Please send me at once full detailed description of y TRICKLE CHARGER.	our new
Name	· · · · · · · · · · · · · · · · · · ·
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# Amazing Facts about Radio Sounds

that Burn



HE idea of a ray or vibration fatal to human life has long held the imagination of the experimenter and the general public alike. Death rays

have often been "discovered," and usually exposed as fakes, and volumes have been written of the possible dire consequences of wars waged with destructive electrical vibrations. The conversions of the electrical vibrations into mechanical vibrations has been suggested, the consequences speculated about, but not till recently accomplished. Although it cannot be said that this discovery has introduced an era of destruction unequalled in history, yet the effects of this accomplishment are so amazing that they add a new chapter of science.

IT is quite easy to produce electrical vibrations of a very high order With short-wave oscillators, electrons can be made to swing back and forth in circuits as rapidl, as ten million times a second. However, there is no sound reproducing apparatus that would re spond to these prodigious speeds. such currents are allowed to flow through an ordinary loudspeaker uo thing but silence would prevail.

In the first place the diaphragm of the loudspeaker would be too bulky squeezed tightly.

vibrations, and even if it were able to it is driven off into the air as a fine respond, the human hearing apparatus mist of smoke. Frogs swimming in would not be able to detect the sounds liquids vibrating at this high rate are

#### Physical Vibration.

about 16.000 cycles per second.

THE problem confronting those endeavouring to transfer these electrical virbrations into mechanical vibrations has been to find some substance which would respond to vibrations so high. A substance—quartz crystal—has at last been utilised. The discovery of its usefulness for this has been of great commercial importance, especially as this crystal has proved a great stabilising unit in wire less transmission.

When a crystal is placed in a current of high frequency, corresponding to its natural frequency, resonance occurs, and the amplitude of the vibra tions of the crystal become very great.

The "still' sounds produced in this way are capable of many curious feats. A glass tube vibrated at the rate of 300,000 oscillations per second, will sear the flesh of the fingers if it is Benzol on water and massive to respond to these rapid is thrown into such violent action that

produced, the limit of hearing being killed, and glass tubes eventually succumb to the super-sonic frequencies that disrupt the ordinary molecular organisation.

#### Curious Effects.

WHEN it came to higher frequencies 100,000 to 700,000 cycles, it was found necessary to immerse the crystal in an oil bath. A beaker of water lowered to a point beneath the surface of the oil, demonstrated a most remarkable phenomenon. The super-sonic frequencies at which the molecules of oil were responding were instantly communicated through the glass to the water in the beaker. The surface of the water was at once pushed up into a mound, while millions of minute air bubbles appeared in the fluid, as when water is heated. When sub jected to the same process, mercury was blown into clouds of fine particles projected up through the water, which soon became black as ink.

MAXIMUM heating effects were produced with a small flat-bottomed

conical flask drawn out to a rod at the top of about 4-millimeter in diameter. The flask was mounted on a solid support in a vertical ring and pinion device, and the distance between the flask and the crystal plate could be accurately adjusted. By bringing pine chips into contact with the top of the rod, these were caused to emit sparks, and holes were burned through them. A plate of glass placed in contact with the rod was ground to powder. If a glass tube were coated by a thick coating of oil and the end dipped into an oscillating bath the film immediately gathered itself into a system of equidistant rings showing the positions of the nodes of the stationary waves formed by the interference of high-frequency vibrations which were at the time running up and down the

PERHAPS the most interesting of all these experiments was that which tested the biological effect produced by the vibration. Red blood corpuscles were completely destroyed and the serum in which they are suspended lost its turpidity and became a red colour very similar to the solution that would be produced by analine dyes, unicylular organisms, belonging to the lowest orders of the animal and vegetable kingdoms. Protozoa and the lowest Algae, were almost instantly dispatched and the cells torn open.

#### NOTES FROM 1YA.

TUESDAY, SEPTEMBER 11.—Tuesday brings Uncle George, and with him cousins playing the piano and reciting. There will be birthday greetings, and the radio postie will go his rounds.

WEDNESDAY-Good-evening Uncle Tom! Songs and stories for all in his happy store.

THURSDAY-Welcome to the Bay. THURSDAY-Aunt Gwen to say field School Choir who have been holidaying, and are fresh and ready with new part songs and solos and recitations for us.

FRIDAY-To-night Nod and Aunt Jean will amuse you with stories and music. The De Marr Sisters will also be present and give songs and dialogues.

SATURDAY—Cinderella will have stories and birthday greetings for Radioland. Cousin Doreen FRIDAY-To-night brings Uncle will sing, and Cousin Dick will play the piano.

SUNDAY--Children's Song Service conducted by Uncle Leo, assisted by Cousins from Green Lane Congregational Sunday School.

#### NOTES FROM 2YA.

MONDAY, SEPTEMBER 10-Aunt Gwen and Uncle Jeff will greet Radioland to-night with stories, riddles and puzzles, so have your pencils ready little ones. Cousin Marjory will sing and two pupils of Miss Gray will play pianoforte solos and a pianoforte duet.

TUESDAY -- Big Brother Jack will answer letters and wish the little birthday folk happy birthdays.

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# Children's Sessions

There will be some clever little girls too, who will give you some bright music, recitations and choruses.

"Hullo" to-night, and give farry messages. Little Cousin Betty will sing, Cousin Molly will ask for a bedtime story and big Cousin Betty will be the mother and read her just one. Cousin Vermont is a wonderful bird and animal imitator, so we will have a zoo in the studio Listen and hear Aunt Gwen talk to the lion.

Ernest for his talk to our happy family with his stories, poems and birthday greetings, and there will also be Cousins Joyce and Ailsa whose singing will delight two of her enjoyable pianoforte

SATURDAY—Aunt Gwen and Uncle Toby, and who else do you think? SATURDAY-Uncle Sam in merry The clever pupils of Mrs. Theo. Hill's-little girls and boys who have won prizes in the Wellington Competitions. Two of them are only six years old.

SUNDAY--Uncle Ernest will conduct the children's Song Service, assisted by the Cambridge Terrace Congregational Sunday School.

#### NOTES FROM 3YA.

MONDAY, SEPTEMBER 10.—"Let's go travelling "-yes, do let's!! We're all off to romantic Hawaii to-night. Hawaiian songs and ukulele music. Cousin Gwen is bringing her zither along so we are sure to have a happy time.

WEDNESDAY—We are having a night of music and fun with Brother Bill from Australia, and his gramophone records. Camp fire songs, dances, and fun by "Dismal Desmond."

THURSDAY—Chuckle and Aunt Pat will be assisted by the choir boys from St. Michael's Church tonight, so we will have some lovely music, stories and part-sing-

you all. Cousin Babs will play FRIDAY-Big Brother on deck with all the little cousins from Shirley, in songs, choruses, and little playlets.

> mood will be ready to tell stories and jokes-and Cousins Francis, Dorothy and Jim are to help him.

> SUNDAY-Children's Song Service conducted by Uncle David, the hymns to be sung by the children from Moorhouse Avenue Church of Christ Sunday School.

#### NOTES FROM 4YA.

TUESDAY, SEPTEMBER 11-Across Egypt to look at the pyramids, and the place where Tutankhamen lay, until they broke the door down and showed the lovely dolls and toys hiding there. Pyramids are the most exciting places. to go rambling in, full of dark rooms, quaint staircases, and when they are first opened, they contain all sorts of dolls, and toys, and models of the sort of life Egyptians used to live. Big Brother Bill is taking the family to see them to-night, who's coming with him? The High Street School choir will be along too, and the radio postie to be sure.

FRIDAY-A lizard as big as an elephant, and a beetle that flew like a bird as big as a crane; then, there was a tiger with tusks like a razor and a body as big as a cow; and a giraffe with a body as big as a grizzly bear, and a neck sixty feet long. The queerest sorts of animals used to live on the earth, stranger than the animals that bothered poor Alice in Wonderland. What about coming with Aunt Sheila and Big Brother Bill, to-night, on the Time Scooter, to have a good look at them all? The lovely thing is they won't see us because we shall wear the Magic Cloak that will make us invisible. All you must do is get on to 4YA by hook or by crook, and you can go with the family.

elaborately fitted research laboratory is maintained by the B.B.C. at London.

THE receiving aerials for the trans-Atlantic wireless telephone service are situated in Fifeshire and are about 600ft. long.

of radio advertisements it sold between February and April sixty thousand pairs of silk stockings.

boys was relayed from London.

two stations, but the revenue is two and a half million listeners.

MOVING Coil Loudspeakers are mand for other features. known in the country of their origin (U.S.A.) as Dynamic Speakers, a name applied by the patentees.

phone service, using a wavelength of of this is available to the company. 84 metres, on certain railway lines.

IN Czecho-Slovakia the sole operating interest.

# Radio Round the World

(U.S.A.) is built as an exact dupli-ONE U.S.A. firm boasts that by means equipped with dummy switches, knobs, the air being relayed to the station and and dials.

not satisfy all. A "Bored by the THE Duke of York was present at a B.B.C." campaign has been inaugurat- (Africa) have been heard in England, Scout camp at New Romney, Au- ed, and deputations wait on Parlia- despite their low power. Wireless gust 9, when part of a sing-song by the ment complaining about Government transmitters are now found on almost for broadcasting, possessing as it does, control.

IN Great Britain there are twenty- DURING 1927 transmission from all the B.B.C. stations covered over more than £1,000,000 per annum from 68,000 hours. Entertainment naturally formed the bulk of all programmes, but there was a strong and growing de-

GREAT financial difficulties have beset the career of the "Radio THE Norwegian railway authorities its inauguration a number of years are installing a regular train tele- ago. A licence is payable but no part

MANY more stations will be necessary before the companies can right is held by a commercially-provide services that will enable Ausfree from distortion or interference.

UNIQUE radio store in Oregon THE Lille station, France, recently broadcast a "balloon" transmiscation of a radio receiving set. It is sion, the impressions of a voyage in rebroadcast.

IT appears that even the B.B.C. can- SEVERAL of the few amateur sta- heard in Australia. tions in the Kenya every conceivable portion of the globe.

> PERMISSION has been given for the broadcasting this year of the Cenotaph service from Whitehall on Armistice Day. A permanent underground cable has been installed between the Cenotaph and a secluded control point a little distance away.

THE Munich station (Germany) recently scrapped its metal masts Belgique" Company of Belgium, since and replaced them with wooden masts, 190 feet high. This has improved the range of the station by removing a certain amount of absorption which had previously hampered reception.

I ITTLE has been heard here of the Dynamic Speaker, but it has been constituted company, in which, how-tralian listeners in all or in most set-manufactured and sold in huge quanever, the Government holds a major tled parts to obtain service reasonably tities in the States for the past two years. The patentees are producing

1000 units per day. Others have now been licensed to manufacture the pro-

T is pleasing to see that, in recent international amateur tests New Zealander (3AR) secuared fifth place against a very large field. He was surpassed only by an Englishman, a Belgian, a Porta Rician, and an Australian. The winner, 5BY, is often

BRAZIL is not the best type of country from the physical aspect its principal cities along its extensive coastline, with a hinterland largely uninhabited, but its broadcasting stations are nevertheless relatively numerous, though generally of low power.

OF the European broadcasting systems, that of Spain approaches most nearly to the standard of American competition and freedom from regulations. Commercial consolidation is, however, at work, and a Government inquiry into the whole subject was begun in 1927.

NOT long ago, the New York Police Department brought 110 wireless direction-finding sets at a cost of about £3000. It is now announced that these are to be sold by auction, experiments having proved that the sets are too tricky for the average policeman to handle.

NERVE currents from the human body have been broadcast by the University of Iowa. The sound was something between a loud scratch and a low rumble, if such can be imagined. Two tiny electrodes were pressed against the muscles at various points on the subjects body, the resulting sound being amplified.

THE ceremony of the signing of the treaty for the renunciation of war was broadcast from Daventry and rebroadcast throughout England. Signals were carried to Daventry by telephone line. Many short-wavers, including Chelmsford (5SW) were on the air to keep as much of the world as possible in touch with the proceedings.

IN France it cannot even yet be said that nationally co-ordinated broadcasting exists. The history of French broadcasting has been a chequered and troubled one. The elements of a national system were, however, laid down in a new law in December, 1926. It has been recently intimated that the Government were to take over the service.

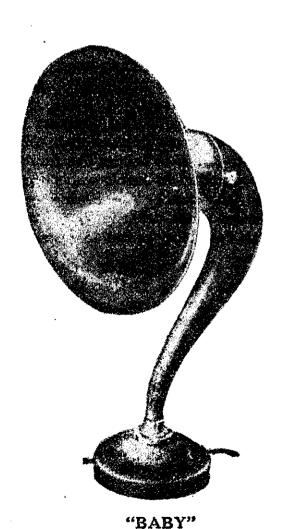
THE second annual American Radio Trade Show, held last month in Chicago, was quite a brisk affair. It occupied 30,000 square feet and 25 floors of rooms, 155ft. of these being used for demonstrations. Exhibitors numbered 205, of which 48 were setmakers, 43 of whom showed "Mains" sets. Moving coil loud-speakers were predominant.

IN Switzerland a number of station belonging to local companies, open ated until recently without interdependence. A union has now been formed which includes all station except for the time being, one. License revenue is available for their support. but the nature of the country and the distribution of its people make the situation of broadcasting exceptional.

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#### Broadcasting in Canada

AT present the control of broadcasting in Canada is in the hands of the Federal Government at Ottawa. A license fee of 4s. 2d., payable annually at the commencement of the Government's financial year, is imposed on listeners. It is estimated that there are 350,000 receiving sets in the Dominion, of which 260,000 are licensed.

After deducting commission paid to radio dealers and certain postmasters for collection of license fees, the revenue at this date amounts to approximately £40,000 per annum. The whole of this sum is expended by the radio department of the Ministry of Marine and Eisheries upon a service listeners.

This service consists of the detection and prevention throughout the Dominion of electrical interference with Radio suffers much broadcasting. from this source, because Canada is a land in which practically all electrical power, including that used for lighting and heating, is carried overhead by cable, and the expenditure of the license revenue on the elimination of this trouble is universally applauded.

Seventy broadcasting stations owned by commercial undertakings operate under license for which a small fee is charged by the Ministry of Marine and Fisheries, which allocates the frequencies and the transmission hours. these stations there is only one using more than 2 kilowatts in the aerial.

Owing to the vast number of comparatively weak American and Canadian stations which share equal hours with the more powerful stations, the townspeople are well catered for whereas the country folk have an inadequate service.

There is a need for a reorganisation which is being contemplated.

#### A Wireless Phenomenon

ACCORDING to the "Swedish Export" journal of July, Kalmar, a quiet little town in Sweden, is the scene of a wireless performance by means of a coal shovel acting as a loudspeaker that is entertaining the multitude and puzzling the experts. In the station of the local Fire Brigade a coal shovel suspended in its usual corner suddenly took upon itself to act as a loudspeaker—a fact that was only realised after the lapse of some time. At first the firemen listened with great awe to the cascades of sound and bursts of song emitted by the shovel.

Now the shovel is famed throughout Sweden, having been interviewed, so to speak, by correspondents from the capital. At the visit of one of them the shovel was giving a lesson in English without, the correspondent adds, the northern accent that one would expect the shovel to have contracted from its long familiarity with coals from those regions of Britain.

An investigation showed the shovel to be suspended in contact with the po ver line to the local broadcasting station, but beyond that the experts are unable to explain the clear and distinct sounds emitted. Meanwhile the Kalmar firemen are proud of their shovel and basking in the unwonted notoriety of their station.

THE British Broadcasting Corpora- IT is illegal to operate a receiving set pass work it causes distorted bearings. tion was constituted by Royal and shareholders.

At least 2500 schools in different parts of Great Britain are equipped RECENT experiments between Canwith wireless sets.

effects of the installation of "crystal control" at 2YA Wellington is the marked sharpening of the tuning of that station's wave. Many residents of the outlying suburbs of Wellington report that they are now able to "cut out" the big station and get certain Australian stations while 2YA is on the air—a feat found impossible prior to the installation of "crystal control."

without first taking out a license, Charter December 31, 1926. It replaced costing 30s. a year, from the Post Of- known fixed stations, this might mean the British Broadcasting Company, fice. Some people do manage to listen that bearings given to vessels would be which had been formed in 1923 and without a license, but it costs much consisted of some 300 manufacturers more in the end. It also costs a great dire consequences. Fortunately, one deal in self-respect.

ada and the United States showed normal and steady signals over water ONE most important and satisfactory during the night while there were astounding variations over land. difference has been interpreted as being due to a more rapid deionisation in the Heaviside layer over water than over land after sunset. Difference in ionisation is assumed to change the surface that reflects and refracts radio waves, due to vertical polarisation. While this causes fading and freaking to his needs because of its simplicity of in ordinary radio transmission, in com- operation.

Unless frequent checks are taken on several degrees in error, with possible of the first effects of night effect is to dull or blur the minimum so that the operator has ample warning.

SO far as is known Henry Taylor, of Atwood, Kan., U.S.A., is the oldest fan in the world. A radio set was installed in this venerable centenarian's home on his 103rd birthday. Broadcasting stations made special note of the unique circumstances of this birthday gift. The aged man's family selected a five-valve neutrodyne single-control receiver as best suited

# He heard the Heeney-Tunney Fight at Loud Speaker Strength

on the wonderful SCREEN-GRID

-But Read Mr Buckley's remarkable letter yourself:

> Bauchop's Hill, Burke's Pass, Aug. 6th, 1928.

I am writing to let you know how defined I am with the Screened Grid lighted I am with procured for me that Four which you procured to all that this little set is a wonder to all that hear it. Prior to this set I had a six of a disvery popular make, and for tone, distance and volume Screened Grid Four broadcast band, the Screened Crid Four comes out on ton. On the short-wave band I have comes out on top.

heard its equal.

To hear London. 58W, PCLI, 2XAF.

To hear London. 58W, PCLI, all on

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2XAD, KDKA, REM and others large

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2XAF, which was then about R5 on n.m.

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2XAF, which was then about R7 on

2XAF, which was then about R3 on p.m.

2XAF, which was the abou

Yours truly, (Sgd.) F. A. BUCKLEY



This wonderful new Screen-Grid 4-Valve Receiver is one of the most remarkable sets ever offered to the radio-loving public.

Wherever it has been tried, results have been little short of marvellous. Beginners have picked up stations in Siberia, America, Holland, England, Australia, etc., at tremendous loudspeaker volume, with the utmost ease.

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WELLINGTON, FRIDAY, SEPTEMBER 7, 1928.

#### EDITORIAL NOTES.

FINE weather only is awaited for the launching of the attempt to fly the Tasman. Based on performance the public expects the flight to be successful. Captain Kingsford Smith, with the ultimate interests of aviation at heart, has rightly declined the publicitymongering challenge issued him to fly without radio or navigational aid. No suggestion could have been more stupid. As a feat the successful crossing of these troubled waters will be outstanding. The pioneer achievement of the feat may in the long run herald a regular service for mail-carrying purposes. That is a distant possibility.

A DEVELOPMENT of American broadcasting that cannot be ignored and may contain a lesson for New Zealand is the growth As is well known American broadcastof advertising over the air. ing stations are privately owned and rely for their support upon the sale of time and sponsored programmes. Large-scale national advertisers, seeking the public good will, court same by providing "feature programmes" under their name. Newspapers, on the occasion of national events, hire stations for the broadcasting of accounts by their own special writers. For instance, the Heeney-Tunney fight was described on the air by a leading paper by its own writers as an advertisement for itself. Another paper arranged a special broadcast on short wave for New Zealand. Again, political parties in the Presidential campaign now in progress hire "time" as part of their It is computed that sixty large-scale national advertisers spent last year between £2,000,000 and £2,250,000 in broadcast adver-This method of advertising has, of course, been linked in with national newspaper and magazine advertising, and has met with the hearty co-operation of skilled advertising agencies. before an advertising convention admitted that two years ago advertising experts were sceptical of the value of radio. To-day they are The attitude of the public to the fully won and enthusiastic. sponsored programme is, of course, the crux of the matter. Whereas a year ago there was still doubt as to how the public viewed receipt of programmes at the favour of a national advertiser, to-day it is held that if these were withdrawn for any reason, there would be a demand for their restoration. That is one view. hand, it is stated that the public does not express appreciation of programmes sponsored by advertisers. This statement comes from Post Office officials, who state that "applause cards" drop to vanishing point when a radio band or orchestra is sponsored by a com-That fact may not, of course, affect that appreciation of the programme, but simply the expression of it.

New Zealand has relied so far on listeners' fees for broadcasting Would an adaptation of the American system of "selling time" be an advantage under New Zealand conditions?

### The Radio Depot

165 Manchester St., Christchurch.

E. G. SHIPLEY. RADIO SPECIALIST. 'Phone 4770.

S-O-S

TRAVEL IN COMFORT BY CAR

WELLINGTON - PALMERSTON NEW PLYMOUTH.

Use Our Booking Offices in Advance.

# Welcome Home!

#### Tom Heeney to Broadcast from 1YA

THE General Manager of the Broad- send me your cable advising that you radiogram to Tom Heeney, who is on of the Tunney-Heeney fight. board the Aorangi, en route for New General Electric Company manifested asking him to broadcast from IYA, Auckland, his greetings to the people of New Zealand. The reply, address- late in the city on the evening of the ed to Mr. Harris, who personally knows the Heeneys, has come back:

"Will be pleased to broadcast greet-

ings.—Tom."

It is the intention of the Broadcasting Company to describe the arrival and welcome at the Auckland wharf. The New Zealand boxer is sure of an enthusiastic reception, and a microphone will be installed on the wharf. for the purpose of giving listeners a realistic presentation of what is taking place.

Concerning the Heeney-Tunney fight, an interesting letter has come to hand from America. It will be remembered that a special review of the contest was broadcast by 2XAD at 3.30 p.m. New Zealand time. This review was sent as the result of a cablegram from Mr. Harris to Mr. Edgar H. Felix in New York, and the letter indicates that at his personal request 2XAD went to considerable trouble to prepare fight gave the New Zealand audience and broadcast a summary descriptive a full opportunity to realise the courof the fight specially for New Zealand- age and gameness of Mr. Heeney. I

lows, and it should be noted that he the world, and I hope that he will have expresses America's appreciation of an opportunity again to match his the fight put up by Tom Heeney:-"Dear Mr. Harris,-

"It was very kind indeed of you to the American fight fans."

casting Company recently sent a successfully rebroadcast the summary Zealand, with his wife and brothers, a most remarkable spirit of co-operation in making this possible.

"It happened that I was detained fight and did not reach home till 9.30, which was some time after the preliminaries had gotten under way. I immediately telephoned Schenectady and secured a remarkably quick connection. None of the executives were available, but, fortunately, the chief operator of the station is a personal friend, and he is responsible for making possible the rebroadcasting of the summary. The principal thing which caused me concern after I had his consent was the possibility that you might not receive word through any announcement that a summary would be broadcast for your special benefit at midnight, our daylight saving time. Apparently, from your cablegram, you did so, and I am most pleased at the outcome. I am writing one of the officials of the General Electric Company expressing your appreciation and

"I hope that the summary of the would have been delighted to see your The letter from Mr. Felix is as fol-courageous man become champion of skill against Mr. Tunney. He has certainly made himself a hero with

# "Paris" Speaking

### Broadcast of Signing of Peace Pact

THE signing of the Kellogg Peace Pact in Paris had its repercussions in radio circles in New Zealand. Great preparations had been made in Paris for the broadcasting of the speeches throughout all the countries of Europe and, in fact, over the world, for the occasion was looked upon as an epoch-marking one, and an effort was made to endow it with all the importance possible in the eyes of all peoples.

As far as the British Empire was concerned, the short wave station 5SW, at Chelmsford, was connected by land and submarine cable to the

very room in Paris where the treaty was signed.

Station 3YA went on the air to rebroadcast 5SW in the early hours of Tuesday morning, August 28, and the result was very interesting to all listeners who considered it worth while to lose their sleep for the opportunity of listening-in to Paris. With all its imperfections, owing to the adverse conditions, the rebroadcast was a remarkable achievementa relay from Paris to Chelmsford (the longest yet attempted by the British Broadcasting Corporation), a broadcast to the opposite side of the world, to be picked up on a receiving set, relayed again to the studio, and then broadcast again.

At mid-day in Wellington, a ceremony commemorating the occasion of the signing was held in the Town Hall. It was largely attended, the Prime Minister, the Right Honourable J. G. Coates, the Mayor of Wellington, Mr. G. Troup, members of Parliament, and representatives of the churches being among those present. The speeches made at this function were broadcast by 2YA and rebroadcast by 3YA, the transmission being

perfect.

"Aerial," of the Christchurch "Star," after describing his vigil in the "wee sma' 'oors," heartily congratulates 3YA on its enterprise and achievement. He concludes his article: "It was well worth the sitting up for. It is not every day one can hear such an event, and, even though the words were indistinct and one could only guess—and guess wildly as to the identity of the speakers, that did not detract from the thrill of listening in on what may prove to be one of the most important events in the history of the world."

### Know Your Set!

WHAT a great pity it is that listeners as a whole cannot be brought to take sufficient interest in their outfits to enable them to give the best results that they can. Instead of that, more than half of the listeners either let their batteries run down until their sets refuse duty or do some other silly thing; and then they blame the Broadcasting Company, when all the time it is their own fault. Personally, I can get on any night of the week good music from somewhere, and if I can do it others can do likewise. They only need educating up to it, that's all; but therein lies the difficulty. Still, no problem is too great to tackle and overcome, except, so it would seem, those two bugbears—fading and static. week there has been heaps of good entertainment in the air simply for the taking.

N. C. WINSTANLEY, Picton.

#### All Blacks' Tour

#### Question of Re-Broadcasts

SPORT-LOVERS were very loth to resign themselves to the fact that Saturday, September 8: it was impossible to rebroadcast descriptions of the All Blacks matches in South Africa, and the Broadcasting Company was repeatedly written to suggesting that it should be done, this despite the fact that it had been unnounced that such rebroadcasts were impossible.

Even recently, just before the last Test match, the company received a letter from a listener, who stated that he knew of instances of 2BL Sydney having been tuned in when rebroadcasting a South African short-wave station, which was describing a match in which the All Blacks were playing. One of his informants even heard the whistle!

The correspondent knew that no South African stations reach New Zealand, and the possibility presented itself to him that perhaps rebroadcasts could be carried out around the other two sides of the triangle.

Though incredulous regarding the rumours, the Broadcasting Company communicated with the New South Wales Broadcasting Company to ascertain what really the New Zealand listener had heard. The reply was an emphatic repudiation of the suggestion that it was a rebroadcast of a South African station, such being an impossibility.

It would be interesting to know what the New Zealand listener did hear.

It may be mentioned again that the Broadcasting Company made all inquiries, when the South African tour was arranged, as to the prospect of rebroadcasting the matches. It had seriously in view then a plan to send its own announcer. The inquiries, however, soon showed that the scheme was impracticable.

#### War-time Songs

NOTHER CONCERT TO BE GIVEN

THE "Diggers' Concert" which was given by 2YA on August 4 still produces requests for another. So another is to be arranged and the date will be duly announced in the "Radio Record."

# **Sporting**

#### Coming Attractions

Auckland v. Wanganui-1YA. Wellington v. Hawke's Bay-2YA. Club Rugby—3YA. 2nd Test—4XA. Saturday, September 15: New South Wales v. New Zealand. 3rd Test-3YA. Wellington v. Otago-4YA. Nelson v. Wellington—2YA

# Byrd's Visit

#### 4YA Ready for Antarctic Expedition

in hand to deal with the visit of situation, and the hope was expressed the wind blowing through." Commander Byrd to Dunedin. well known, the Byrd Antarctic Expedition will make Dunedin its base. While the steamers are in port, listeners-in to 4YA will hear a great deal about the expedition and every effort will be made to secure addresses by some of the personnel.

The departure of the expedition for the South Pole will be a very interest-The great send-off ing occasion. which will be given to the Americans will be fully described, and arrangements have already been made for installing a portable transmitter on a tug which will accompany the ships down the harbour.

#### AMATEUR RAIDO SOCIETY OF WELLINGTON

A meeting of the Society will be held on September 11, 1928, at 8 p.m. in DOMINION FARMERS' INSTITUTE, FEATHERSTON ST., Wellington.

Interesting Lecture and Demonstration by Mr. G. R. McCarthy (of Mack's Radio) on "Radio Reception, including Shortwave work."

Every Listener Made Welcome. W. H. TAYLOR,

Hon. Secretary.

#### Wellington Radio Society

#### Meeting of Executive

Mr. Byron Brown (president) occupied the chair at a meeting of the executive of the Amateur Radio Society of Wellington on Thursday evening, August 30.

The quality of the transmission of 2YA, Wellington, came under discussion. Some complaints were voiced, and it was decided to report to the Broadcasting Company that blasting, bad modulation, and confusion of sound was affecting reception of 2YA locally.

The meeting decided to appoint another member to the committee to fill the vacanacy caused by the resignation of the late secretary (Mr. Jones).

A resolution was adopted thanking the radio section of the Electrical Federation of New Zealand for having secured the co-operation of the Post and Telegraph Department in combating the causes of electrical leakages which have seriously interfered with broadeast listening in many areas. It was mentioned that loose bonds connecting the rails of the Wellington electrical tramways had been found to have been New South Wales v. New Zealand, a serious cause of electrical noises which marred broadcast reception, ,but these had been remedied.

A document setting out the objects of a proposed Radio Institute was brought before the meeting. The following resolution was carried unanimously:—"After mature consideration. this committee cannot see its way to endorse a certain proposal submitted to form a Radio Institute of New Zealand." The opinion was freely expressed that the broadcast listeners could best attain their particular aims and started and as the sound of the car listeners' leagues. This was regarded as ing to commence now." A RRANGEMENTS are already well the only logical outcome of the present

that a national council of listeners may be formed. So far as broadcast listeners were concerned, the proposed institute was not what was wanted.

The president was thanked for his donation for the purchase of a printing equipment for the society's window display notice of meetings.

#### Australian Golf

#### Early News over the Air

GOLFERS interested in the fortunes of the large number of New Zealand golfers competing in the Australasian championships taking place on Thursday, Friday, and Saturday, will be interested to know that arrangements have been made for the receipt of news by special cable messages and broadcast from all stations.

#### Re-Broadcast of 2FC

ON Thursday evening, August 30, at the invitation of the New South Wales Broadcasting Company, 1YA, 2YA, and 3YA rebroadcast 2FC, which was transmitting on relay an address by the Pope's Legate, Cardinal Cerretti. Atmospheric conditions were splendid for the occasion, and the rebroadcast from the three stations was very successful. It being 4YA's silent day, that station did not rebroadcast 2FC.

A LITTLE girl of nine years was listening-in just before the session objects by the federation of all the rier wave was heard through the loud existing radio societies, clubs, and speaker she was told to "hush, it's go-

"No, it isn't," she said, "that's only

Cut out this coupon and post to us; we will send you our Book of Circuits, detailing One, Two, Three and Four-valve Sets, Short-wave, Screened Grid, Gramophone Pick-up, Television, Lists of Stations, etc.

Name	BORRES 4 . * A * A * CALACA S *	•	- •	电音电震电影电池	•	•	<b>*</b> - *	٠	· [= go!eg e]
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# HARTLE & GRAY

British Radio Supplies.

CUSTOMS STREET,

AUCKLAND.

#### Radio's Benefit

#### Appreciation in Hospital

THAT wireless programmes have a definite therapeutic value to hospital patients is the testimony given by the Medical Superintendent of the Wellington Hospital, Dr. H. B. Ewen, after a brief practical experience of the operation of the wireless installation in the Wellington Hospital. This experiment, as is generally known, has been carried out through the instrumentality of the Wellington Amateur Radio Society, which is now embarking upon a campaign to secure a further £700, in order to complete the equipment of all wards in the hospital with receiving apparatus. At a meeting of the executive of the Amateur Radio Society of Wellington, held last week, Dr. Ewen wrote as follows:—

"I understand that a further appeal is being made to the public to complete the wireless installation in the main buildings at the Wellington General Hospital. There are still nine wards to be connected up at an estimated cost of £700.

"The existing installation has given every satisfaction and the results have well warranted the expenditure. Wireless 'listening in' in a public hospital is far more than an entertain-It is of definite therapeutic value in the treatment of disease. The influence of the mind over the body is well known, and anything which helps the patient to be cheerful and to lessen the tendency to worry over his condition definitely helps the body to overcome the disease. This is becoming daily more and more evident in the wards and many are the remarks of gratitude from the patients. The excellent programmes from 2YA are now well balanced to suit all tastes, and as the installation provides ear-phones for each patient, no patient is compelled to listen to any particular item if he does not wish to.

"I have no hesitation in recommending this further appeal to the generosity of the citizens of Wellington. Reports reach me from time to time from hospitals in other countries testifying to the great value of radio, and I not only heartily commend this effort to complete the installation in the main buildings, but I hope sufficient funds will be forthcoming to install a Hospital for patients suffering from tuberculosis.'

#### "Beau Ideal"

#### Autographed Copies for Listeners

"Beau Ideal." thing well worth having. last competition. If readers will par- printed. there is no entry fee; a minimum of ef- tember 24.

Mr. H. C. South, whose interesting fort is called for on the part of comtalks on "Books-Grave and Gay" are petitors; the test of skill is a simple familiar to New Zealand listeners, has one in which everyone is capable to arranged quite a novel competition for trying his or her hand; and the novels you all. His friend, Captain C. H. that are offered for prizes are given Peters, who does the book talks for the novel distinction of carrying the 3LO, Melbourne, gave him the idea, author's autograph. All competitors and was good enough also to arrange have to do is to hand-print the book for the prizes of the four autographed title "Beau Ideal" on a sheet of paper, copies of P. C. Wren's latest work, on which must also be written the A new book inscribed name and address of the competitor, with the author's signature is some- and send it in an envelope addressed At any "Beau Ideal," c/o 2YA, Wellington." rate twelve thousand Australians evi- The four prizes will be awarded to the Patent Office, London, for a revodently think so, for that was the num-senders of the four entries deemed by ber of entries 3LO received for their the judges to be the best hand-The competition closes on don the pun, this is a "novel" com- September 20 and the awards will be pared to pay royalties equal to that petition in more senses than one- announced from Station 2YA on Sep- paid the Telefunken Company in Ger-

listening in upon the invalids.

Particularly popular among the male patients were the broadcast running descriptions of racing and There was other sporting events intense disappointment when the Racing Conference debarred the broadcasters from entering the race-

Ways and means of securing the further sum aimed at for the hospital installation were considered by the committee, and as a first step Messrs. Byron Brown and I. M. Levy were appointed a sub-committee to organise a broadcast concert to be given from 2YA, Wellington, under the auspices of the society. In this connection it is hoped to arrange that the performers' fees shall go in aid of the new hospital radio fund, for which Mr. R. Brown, secretary of the Hospital Board, is acting as secretary.

### Radio Reception

#### Points for Listeners

In addition to the Medical Superin- series of lectures from recognised ex- attention will be given in these talks a single valve outfit. tendent's testimony, the executive was perts to be given at regular intervals to the eradication of the howling valve. The Dominion is not immediately afinformed by Dr. W. S. Robertson, a to members and the general public nuisance. These lectures will be fected by these decisions, although member of the staff of the hospital and Following on the very successful and given at fortnightly intervals, and they may have a very definite influence also a member of the executive of the interesting explanation of valves de-should commence at an early date.

Radio Society, that after daily con-livered by Mr. W. M. Dawson, there tact with the patients of one ward will be given on the evening of Tueswhich had the radio installation, he day, September 11, in the Dominion could vouch for the beneficial effect of Farmers' Institute Building, a lecture eventually at £1 5s. The wholesale by Mr. J. G. R. McCarthy, of Mack's price in Germany was £1 5s. and re-Radio, Limited, a lecture on radio reception, including short-wave work, system these sets could not be pro-Mr. McCarthy is a recognised expert duced at less than £3 7s. 6d. of long standing. His radio experience extends to the early days of the art in Britain and America, and of later years to New Zealand. He has many outstanding performances to his credit, and being possessed of a breezy personality and the habit of plain speaking, may be relied upon to make his lecture entertaining and instruc-On a number of occasions Mr. McCarthy, by his skilful reception, has contributed to the successful rebroadcasting of overseas transmissions. Listeners who are interested in securing the very best possible results from their sets, and attaining a high standard in reception, are cordially invited to attend the lecture of the society on Tuesday week.

> it is hoped to arrange further meetings Company for the reduction of the royat intervals of approximately three alties on valve holders, from 12s. 6d. weeks.

similar receiving set in the Ewart THE Wellington Amateur Radio So- 2XA by Mr. W. M. Dawson (under the on each additional holder. This means ciety is embarking upon the auspices of the Radio Society) on sub- a reduction of approximately £2 10s. praiseworthy policy of arranging for a jects relating to wireless sets. Special on a six-valve receiver and 7s. 6d. on

#### Radio Royalties

#### Reduction in England

A TTENTION has been focused lately on the conditions in England regarding the sale of valves and valve Up to the present every valve sets. set sold has been subject to a royalty of 12s. 6d. per valve, payable to the Marconi Company. This has considerably raised the price of sets and made them beyond the reach of many listeners, who are thereby restricted to the use of the crystal.

The question of their reduction was introduced by the Loewe Radio Company (Germany) by an application to cation of the patent rights or for a special license to permit of their manufacture in England. They were premany, which were not, however, as great as Marconis were collecting from English manufacturers.

It was claimed that wireless sets, equivalent to three-valve, could be produced in England for £1 10s, each and tail £1 19s. 6d. Under the existing

#### Tribunal Decides.

**DURING** the hearing of the application it was pointed out that the refusal of a reduction would prejudice the establishment of a new British industry, and that a commercial policy, excluding large sections of the public from the full enjoyment, was not justifiable.

In granting the license, subject to the applicants paying royalties of 10s. for each triple valve and 7s. 6d. for each double valve, the tribunal expressed the opinion that the monopoly rights were being abused.

THE decision is of momentous importance to the British radio trade. It has been followed by an ap-Following on Mr. McCarthy's lecture, plication by the Brownie Wireless to 10 per cent. on the wholesale selling In addition to the public lectures, price, subject to a minimum charge of a series of lectures will be given from 5s. on the first valve holder and 2s. 6d.

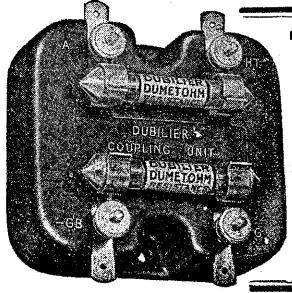
on the position relating to royalties.



Call and hear the latest model SONORA. equalled for quality of tone. Buy a SONORA and you will really enjoy Radio!

Arrange for a demonstration TO-DAY

58 Willis Street, WELLINGTON.



# The DUBILIER

RESISTANCE CAPACITY COUPLING UNIT

This method of Amplification gives nurest music-Ask for Price List.

A. E. STRANGE

404 Worcester St., Crhistchurch

### Auckland Notes

(By "Listener.")

TUESDAY evening is "operatic night" at 1YA, and during the past months Madame Irene Ainsley and her black sheep of the family, who were as the grand opera excerpts have been church he attended. As he was leadappreciated, however, they must take ing a rather gay life, he could not second place to what was presented on answer his mother's question. lent style. In the manner in which it knelt at his mother's knee. catered for public taste, this presenta- made him think, with the result that heard from 1YA. If the written appre- a Salvation Army meeting at the ciations were in keeping with the ver- Lower Hutt. bal ones which the writer has heard, the performers should feel well gratified with the result of their efforts. The operatic portion of last Tuesday's BOUND COPIES "RADIO RECORD" programme is one that could bear repeating at an early date.

 $\mathbf{A}^{\mathbf{T}}$  the time of writing news has just arrived that the trans-Tasman flight will be attempted on Sunday night. For enthusiastic listeners there will be little sleep on the night that precedes the resumption of the daily routine of work. One listener who was intrigued by the descriptions of the Suva-Brisbane flight states that he will obtain his required portion of "shut eye" on Sunday afternoon and early in that evening, so that he may not miss a detail that may be on the air from 11 p.m. till landing time. All he hopes is that the landing will occur before toil calls. He may also pray that had weather will not delay the venture.

FOR some days local listeners have been concerned about rumoured pending litigation over patent rights on radio apparatus. At first they foresaw additions to the annual license fee, but reassuring statements by the trade and others have calmed these fears. If anyone suffers financially it will not be the listener.

RECEPTION of 2YA has been commendably strong and steady of late in Auckland. The installation of crystal control may have contributed to this result, but the result itself is what appeals to listeners here. The Wellington programmes, too, have been keenly appreciated, many of the artists in the southern city being now as popular in the north as they are in by the Radio Branch of the Departtheir own district.

"THE best that anyone could wish of interference in all cities and towns a football enthusiast who was confined of this, thousands of people avoid payto his home on Saturday last but who did not miss his week-end diversion of enjoying football. His tribute to Mr. Meredith's description was well earned, for the description of the New South Wales-Auckland Rugby struggle was splendidly handled, and listeners could follow every rapidly-changing move in a spectacular game.

OUR first "mystery night" has come and gone. It has justified all that long series of varied items. Certainly took the names of all of the performusual method. He watched outside self.

#### Tribute to Sunday Service

THE following incident is vouched for:-A young man, who was the party have provided many gems for the strong Baptists, was often written to delectation of Auckland listeners. Much by his mother and often asked what Tuesday last, when selections from that night he was listening-in to the chilmost popular of musical comedies, dren's song service and it brought him "Rose Marie," were rendered in excel- back to the days when, as a child, he tion was the best that has yet been on a recent Sunday night he attended

1927-28.

WE have available a few bound copies of the first year of the "Radio Record." These are bound in full cloth, heavy boards, and the full volume is available at 27/6. Some of the numbers are out of stock, so would recommend that we prompt application on the part of those seeking to preserve, in bound form, our first year's issue.

### Over Quarter of Million Sets in Canada

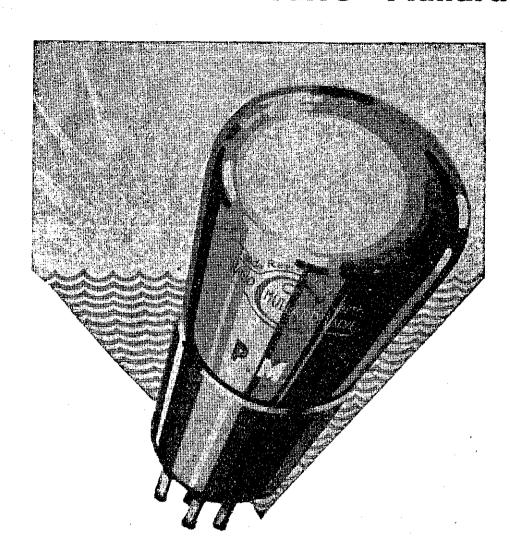
OFFICIALLY there are now 258,494 radio receivers and 91 broadcasting stations in the Dominion of Canada, according to a recent report to the House of Commons at Ottawa. Last year there were 96 stations, but five licenses were not renewed because of complaints.

The receiving sets are licensed yearly at an annual fee of 1 dollar, the proceeds from this source being used ment of Marine and Fisheries for research work and for the elimination for." This was the comment of throughout the Dominion. In spite ment, and at regular intervals there is a round-up of such offenders by the Royal Canadian Mounted Police, many being fined in local police courts.

> It has been intimated at Ottawa. the Canadian capital, that there are probably 50,000 unlicensed radio sets in the Dominion. This would bring the total up to the 300,000 mark.

was promised for it. The keenest in- the broadcasting studio before the comterest was evinced by listeners in a mencement of the programme, and some of them presented unusual diffiers who entered. This would certainculties of recognition, but this was es ly give him something to go on in his sential to such a competitive event. One guessing. The announcement of the listener, with heart set upon winning winner of the prize is now being as that gramophone, adopted quite an un- eagerly awaited as was the contest it-

# The All-British Valve---Mullard



# THEY BRING IN THEY BRING IN THEY BRING IN

If it's distant stations you're after, use Mullard P.M. Valves. Only then do you know for certain that the range of your radio set is as great as its circuit will allow. Don't handicap a good circuit get the best out of it by using Mullard valves.

It's the wonderful Mullard P.M. Filament that makes the difference. Its gigantic emission surface ensures improved results and yet it consumes only 0.075 amps. Remember, too, it's "The long filament with the long life."

EVERY RADIO DEALER STOCKS MULLARD P.M. VALVES

# THE · MASTER · VALVE

#### SPEDDING, LIMITED,

Corner Custom St. and Anzac Avenue ..... Auckland The Dominion Building ..... Wellington 

Advt., The Mullard Wireless Service Co., Ltd., London,

# Use of Radio in Education

## The Broadcasting Company's Plan Covers Great Possibilities

and entertainment has been, still as for children. is, and will continue to be, one of the main functions of broadcasting, the informative aspect will grow rapidly in importance. The means of communicating by what is known as radio broadcasting is such a wonderful thing that it is rapidly becoming so important a part of national and internafional life that, unless its place is taken by some new invention, it is likely to become one of the most powerful forces in the modern world in regard to both recreation and entertainment formation.

There is a growing tendency among adults to look to the Broadcasting Company as the purveyor of news and information on a variety of subjects. In this respect a great deal is done by the company, but it is realised that there is as yet a vast untouched field in the

In respect to children, the juvenile sessions at the various stations are a judicious mixture of entertainment and education, but the amount that is done in this direction only serves to suggest what could be done in other ways if broadcasting were more fully utilised in education, especially for children.

realised that the same principle which makes the entertainment aspect of its service so greatly valued applies microphone in the studio can be heard by thousands of people. Literally, the artist's voice is taken to them.

It would therefore appear that this the teaching of school children, especially of those in the country districts, where it is not to be expected that the pupils have the same opportunities for learning as those in the city schools have.

There are some subjects which could be admirably handled by expert lecturers speaking from the broadcasting stations, co-operating with whom would be the teachers in the individual schools. The idea is not a new one, but as it would be a revolutionary one and cause the remodelling of the whole school system in New Zealand, part of the authorities tembark upon it. That the authorities are interested it is almost unnecessary to say. The fact that a test was made from 2YA last December is sufficient proof. There are, of course, difficulties in the way, one of the principal being the cost of equipping the schools with receiving sets.

The Broadcasting Company is energetically pushing the proposal. It has advanced a proposition by which each of its four stations will broadcast a lecture or to en of half an hour four days each week, from 2.30 till 3 p.m.

There is little need to dwell on the advantages which would result from the broadcasting of such lessons. The small schools throughout the country, from the city suburbs to the far backblocks, would be able to have delivered to them by the best tutors available some of the same lessons as are given to the pupils of the largest and best city schools. The provision of daily lectures of this nature would give opportunities to country children which are now available only to the pupils of the city schools. The country school pupils, many of whom might be the foremost scholars in the Dominion if 2YA's Quality

Who is Right?

BELOW are given conflicting views Another from scattered listeners regarding their reception of 2XA.

WHILE the provision of recreation realm of education for adults as well you state in a footnote on page 24, when crystal set users in Christchurch Radio Record, 31/8/28, that the rated heard for the first time a re-broadcast power of 5 kilowatts is being fully of 1YA, and thoroughly enjoyed the maintained, that is proof that the sta- half-hour of concert provided by the tion is a failure. I can name an 80- Auckland Municipal Band under Mr. watt station in Dunedin that will pro- Christopher Smith. The re-broadcast duce results in this locality that com- is notable from the fact that the wavepare favourably with 2YA. Several of lengths of 1YA and 3YA are so close tous enthusiasts here have tried all gether, yet 3YA was able to make an means we know to make sure our sets excellent re-broadcast, the novelty of are not at fault, and were not "over- which, as well as the splendid music THE Broadcasting Company has long loading the set," and our experience is provided by the Auckland band, appealsimilar. Given good conditions, with ed to all listeners. The Auckland stathe aerial disconnected, main Aussie tion was picked up at the home of Mr. and 1YA and 3YA are no trouble, but J. M. Bingham, the chief engineer of as well as in the dissemination of in- with equal force to the educational as- 2YA is often impossible. The pro- the broadcasting company, and relayed pect—the voice of a great artist at the grammes have improved by leaps and to the studio. bounds, and if the improvements are maintained we have no grouch compeople cannot come hundreds of miles ing. I've no brick to throw, but it is to the studio to hear the artist, so the a nuisance to think that good programmes are being put on the air by 2YA and only a few close localities are principle might be applied in regard to able to enjoy them.—Claude P. Grey (Shannon).

#### Defence from H.B.

READ with disgust letters from Hawke's Bay listeners re the bad reception of 2YA. All I can say is that these hard-to-please people should look to their sets before blaming the station. It's all very well saying that 1YA, 3YA, and 4YA come in clearer than 2YA. I would suggest trying less B battery on such a high-powered station as 2YA. I am the owner of a fivevalve set, and 2YA comes rolling in as clear as a bell, practically every time they are on the air, and, furthermore, there is a natural hesitancy on the if any Napier listener wishes to prove this I invite him to come to my house any time he wishes and hear for himself. As to the programmes by the N.Z.R.B.C., all I can say is that I and others are more than satisfied.—H. R. Herford, 10 Bower Street, Napier.

#### Crystal Control Condemned.

WELLINGTON station has not been improved since the introduction of crystal control. Fading is more frequent and prolonged. 2YA never used to go dead out with me, but it will sometimes do so now. I have not noticed any difficulty in tuning-my machine has always been difficult to handle, and it is no worse. Volume is not noticeably different. I have always been in difficulties trying to cut 2YA down to a reasonable volume, and the same difficulty persists. Despite opinions to the contrary from H.B., I have always found 2YA clear and pure in timbre when the air was clear—no distortion, no mush. I can put out the highest or lowest note at concert hall volume and as clear as a bell.—J.C.P. (Cromwell).

Reception in Dunedin.

WOULD like to answer Mr. D. E. Booth's letter in this week's issue of the "Radio Record" concerning reception of 2YA here. I find that since 2YA has been put on crystal control the dials of my set must be tuned exthey had the opportunity, are entitled actly to the centre of the wave before to all the educational aids it is pos- you get clarity, and then you get volsible for the Government to give them. ume and clarity in plenty. The fading

is still very noticeable at times, but otherwise reception is good. I am up on the hills of this city, so may be in a more favourable position.—J. A. Williamson.

#### Re-Broadcast \

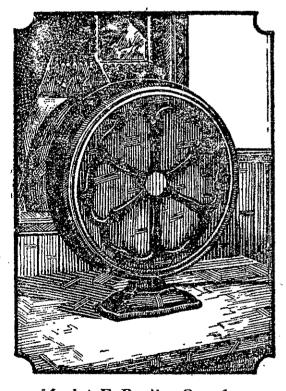
with others consider it high time A NOTHER successful re-broadcast 2YA was "put on the air." If, as

**N**X is simply an abbreviation standing for long distance. In this way "a good DX receiver" means one which has a good long distance range, and similarly, "DX reception" is the reception of signals, music, or speech, from long distances away.



WELLINGTON.

# ATWATER RADIO SPEAKER



Model E Radio Speaker

### HAS IT TONE?

The listening test of Radio is clear, natural tone. All ATWATER KENT instruments have it. Models vary. Prices vary. Tone is constant. Music, voices, when heard through ATWATER KENT RADIO are always true to life.

and the same willers as C. & A. ODLIN & CO., LTD., WELLINGTON. 'ore Toglar

# Only Loud Speakers from the list below will be Posted Free

Electric Lamp House price lists will be published from time to time. This week it is Loud Speakers of Horn or Cone type with a price range of 17/6 to 130/-.

The rapid turnover of these Radio Goods is keeping price down and stocks fresh. Nothing is in our shop long enough to become antiquated.

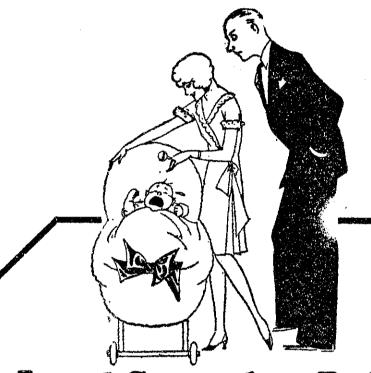
All Radio necessities are stocked here. They can be ordered by mail with utmost confidence. Sets, parts, tools, household appliances, and lighting equipment.

# Electric Lamp House

"Everything Electrical," Licensed Radio Dealers, 27 MANNERS STREET.

(3 Doors from Begg's)

WELLINGTON.



# Loud Squeaker Prices

<del>-</del>	
Hegra (Cone) (case)	17/6
Cannon Ball (Cone)	22/6
A.J.S. (Horn)	32/6
Sterling Dinkie (Horn)	35/-
Sterling Melovox (Cone)	42/-
Sterling Popular (Horn)	42/-
Sterling Baby Black (Horn)	45/-
Spheravox (Cone) (*1.*)	47/6
Amplion (Cone)	50/-
Sterling Baby Black and Gold (Horn)	50/-
Philips Baby Grand (Cone)	75/-
Ferranti (Horn)	75/-
Burndept (Horn)	105/-
Philips PCJJ Junior (Cone)	110/-
Sonochorde (Cone)	110/-
Sterling R 33 (Horn)	119/6
Philips PCJJ (Cone) (Cone) (Cone) (Cone) (Cone) (Cone) (Cone)	130/-
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# Sidelights on Trouble Tracking



HAT the Post and Telegraph Department has in commission in Wellington a motor van staffed with radio inspectors, to locate and eliminate as far as

possible interference in the receivers of licensees is generally known. Less well known, however, are the activities and accomplishments of this enterprise.

Commissioned in May of this year. the van has done excellent work, and many causes of disturbances have been eliminated. Many of these, however,

could have been cleared up without the aid of the van, had the owners known just where to look for the trouble.

Causes of Trouble.

#### HOWLING valves have caused the van many a fruitless search. Through their ature they are difficult to locate, and one readily can see the difficulties of the inspectors when, be-

ing hot on the scene of a "howler." they suddenly lose it owing to its originator, tiring of distorted reception, switching on to a station within easier

In this respect listeners are urged not to listen to distorted reception from a distant station. Straining the set in this matter causes howling in the receivers over a wide radius. Nevertheless, many radiating sets have been located by the van.

Severe disturbance has been caused through tramway bonds, links between

# Co-operation to Suppress Interference

the rails to allow of the face flow of a crust of salt was causing a bridge electricity. If, through faulty work- between the wires. manship, vibration or deterioration, these become slightly defective, an arc bridges the gap, and disturbance is caused up to a distance of a quarter of a mile. Many of these seats of trouble have been found and rectified by the Tramways Department, much to the satisfaction of the listener.

#### Unusual Causes.

IT is surprising what will cause trouble in receivers. Recently, the van was called to a locality constantly disturbed. The direction was soon picked up and the place in question reached. On investigating, the inspector found that a faulty A.C. rectifier, when left connected to the set, was causing a disturbance so intense that all stations except the local one were obliterated.

Faults on the high tension electric power lines have been the seat of much trouble. One in particular along the waterfront at Eastbourne annoyed listeners. especially during weather. Strangely, during and for some time after a fall of rain, the trouble was absent. The van, on tackling this problem, located a slight leakage at an insulator.

When rain fell this was removed; to be replaced from the spray during fine weather.

Power lines will always give a certain amount of trouble when aerials are placed too near to them, particudistressed listener complained of persistent interference.

On arriving in the locality the van was unable to pick up any serious trouble, but at the house of the licensee the cause of the trouble became apparent. The section was on a corner around which ran the city electric Parallel and close to these were the aerial and the lead-in. Both were in the magnetic field of the wires, both were picking up "noises."

The cure was obvious—a shorter aerial at right angles to one of the lines and as far removed from the other as possible.

#### False Alarms.

(N very many occasions the van has been called to a locality, to find no trouble whatever. Investigation On examination it was found that combine to distort receivers.

will sometimes cause, a click in the set, and if a receiver is situated near a large switching arrangement, the noise may be objectionable.

#### Department and Dealers Co-operate.

THERE is no doubt that the air can be practically cleared of leakage larly if they are parallel to them. One and radiation, and the Department and dealers are doing their best for the listener.

> For this reason, an organisation, planned to educate the listener to the better understanding of his set, and at the same time utilise the van to a maximum, has been planned. Details are not yet available, but the plan, in essence, is that the dealers in each locality will act as intermediaries between licensee and the Department. When a complaint is made in the future, the resident dealer will be notified, who will report on the trouble, through listening through his own receiver. If necessary he will be prepared to visit the complaining owner to ascertain if the case justifies the summoning of the van.

The actual result of the co-operation of the radio trade and the Department has usually shown that the set of the will be that complaints of interfercomplaining licensee was at fault. ence from electrical causes will first The B battery being low, faulty con- be confirmed, and a call will dispatch nections, valves or transformers, all the van to the affected area to locate The the trouble.

#### Dynamic Speakers

#### Identical with Moving Coil Type

MOVING coil loud-speakers are known in the country of their Dynamic is the name applied by the patentees, the Magnavox Company of Oakland, California, who own and control the master patents.

Little has been heard here of the dynamic speaker, but it has been inanufactured and sold in huge quantities in the United States for the past orders and are able to supply for export. Owing to the fact that the Magnavox Company are producing to the maximum of their capacity, i.e., 1,000 units per day, they have just licensed reproduction with unlimited volume.

several manufacturers to use their patents for sale on the U.S.A. market produced in types to suit all classes only, and have decided to handle the of electrical current. Australasian market themselves.

speaker in quantity on a commercial ing mains. Another type which will basis requires a considerable amount take 110 to 220 volts of D.C. current. of knowledge and experience. This is This type can be operated from any the reason why the present Magnavox D.C. current available, but is primarspeakers are the highest quality mov- ily constructed for the purpose of ing coil speakers produced anywhere.

The Magnavox Company are supplyorigin, U.S.A., as dynamic speakers, ing the largest manufacturers who produce the highest quality of radio sets in U.S.A. For instance: Stromberg-Carlson, Zenith, Splitdorf,  $\mathbf{Bosch}$ Freshman, Amrad, Gilfillan, Mohawk, De Forest Crosley, Federal. One of in June for 30,000 units.

Those who have not had the pleasure two years by the Magnavox Company, of listening to a dynamic speaker canand it is only now that the Magnavox not very well realise what a revolu-Company are catching up on their tion in sound production has taken place by this discovery. feature is that there are no parts in the dynamic speaker which can rattle. and providing the in-put is undistorted the Magnavox speaker will give perfect

Magnavox dynamic speakers are There is one type operating with 230 volts A.C. The construction of a dynamic which operates direct from the lightoperating from an amplifier of the Sampson type, from which it can be tapped off the required D.C. current. light installed in their homes with the 230 volt A.C. current merely plug into the lighting socket and take the other two connections to the radio set the above manufacturers placed a con- in the ordinary way. Those who wish tract with the Magnavox Company at to operate their dynamic speaker from the radio exhibition held in Chicago the accumulator may do so by using the 6 volt type.

> A very effective demonstration of the perfection to which sound reproduction can be brought was given at the American Radio Exhibition in Chicago. A dynamic unit operating from 230 volts A.C. current was installed in the centre of a 8ft. square panel. This large baffle increased the range of the musical scale tremendously, and the result was that it would be practically impossible to distinguish a band selection reproduced by a gramophone from the actual performance. Manufacturers claim that the most mounted in the wall of a room so reaching the back of it.

#### Radio's Influence

ANYTHING which influences a person, consciously or unconsciously, educates. If the influence is a bad one, such as that of a person's slovenly speech, or an over-gaudy wallpaper, or even poor music, the education it gives

a bad one. If the influence is good. Those who have the ordinary electric as in the truly beautiful, the "Ode to Nightingale," or a navvy offering his seat to a woman in a crowded tramcar, so also is the education received from it good.

> For this reason it is of paramount importance that those broadcasting give us the very best they can. Their task is a greater one than satisfying the public for a definite number of hours. They are educators, and so long as we are listening-in we are being educated. Is the education beneficial or harmful? That depends on ourselves. What is our attitude to those broadcasting? Do we continually harass them for second grade, accuse them of being unable to give us what we ask, and if they refuse to badly www.out.our.sets? educate us

Like a general education, a musical perfect results from dynamic speakers education is acquired. Does one wishwould be secured if the speaker were ing to become educated seek the company of the uncouth or the cultured? that the sound emitted from the front Does one being musically educated unof the speaker was prevented from ceasingly complain because he is put into touch with the best?

#### RADIO—Gilfillan and Bremer-Tully

LARGEST STOCKS OF RADIO ACCESSORIES IN SOUTH CANTERBURY. COMPLETE INSTALLATIONS A SPECIALTY.

> BREHAUT BROS., TIMARU AND GERALDINE.

KEEN rivalry exists in a certain Wellington suburb as to who shall have the tallest radio masts. real skyscrapers have been stuck up and the tallest is constructed of metal piping. It is 60ft. in height and wellstayed. The owner operates a crystal set, but it gives loudspeaker reception of 2YA, Wellington.

mast got the worst of it.

THE height of an aerial makes a noticeable difference in the volume of reception, and many a crystal set owner resident around Wellington would obtain infinitely better results if he would raise his aerial to 30 or 40 feet above fences, sheds, etc.

owners attach so little importance to the height of their aerial is evident in every suburb of Wellington. The raising of an aerial just above the 2YA. screening effect of a neighbouring tree or house will often give an increase of double or treble the volume of recep-

A CCORDING to the latest news from Melbourne, Station 3LO of that city, for the twelve months ended June 30 received a revenue, from its share of license fees, totalling £90,000. declared profit for the year ended June 30, 1928, was about £7000. fees have been paid for artists and lec-One noted aviator received £50 for a few minutes' talk before the microphone.

THE shareholders in 3LO Melbourne. which has a nominal capital of £100,000, are: Farmer and Co. (Sydney), 40,000 shares paid up to 17s.; J. C. Williamson and J. and N. Tait, 40,000 shares paid up to 17s.; the Melbourne "Herald and "Weekly Times," Ltd., 15.000 shares; and Buckley and Nunn, Ltd., 5000 shares.

TALKING to an official in a position to know, the writer was told that some of the worst electrical interference experienced by broadcast listeners around Wellington was due to faulty bonds connecting tramrails to one another. The tramrails are bonded together to form an electrical circuit, and when one of the bonds becomes loose it permits a leakage, thus causing the roaring noise heard in neighbouring loudspeakers.

# BATTERIES

MEAN DEPENDABILITY. Installed at 2YA Wellington.

All sizes.

From 9/- each.

**EXIDE SERVICE STATION** 79 Kent Terrace, WELLINGTON.

# Notes and Comments

By "Switch"

()NE listener in the suburb referred delight obtained from the children's to essayed to erect a metal pipe session. Little tots sit around the loudmast on top of his shed. This mast speaker listening with wrapt attention was going to eclipse everything in that to the entertaining chats by the vicinity, but an assistant made a slip "uncle" and "aunt" officiating in front in steadying the mast, which went of the microphone. The writer lately crashing to ground. A neighbour's witnessed such a scene. Three mites roof received some damage, but the with alert ears and wondering expressions on their faces, absorbed all that issued fr the loudspeaker with indescribable interest. It is rather a pity that broadcasting "uncles" and 'aunts" cannot see their audiences.

REMARKABLE juvenile talent is displayed during the children's sessions from 2YA Wellington, and their efforts appear to stimulate the spirit of emulation among many of THE fact that so many crystal set their little listeners. Instances are not infrequent in which youngsters have taken a fresh interest in their music or poetry after hearing other kiddies from

> RATHER clever sketch was published some time back showing a horrified father entering a room to see his enterprising kiddie, hammer in hand, sitting on the floor examining the insides of a demolished radio set. In answer to the obvious exclamation of the bewildered parent the child explains that he has been looking inside the radio for the dear, kind uncle who tells the nice fairy tales every evening!

> SOME soulless, carping cynic voiced his opinion in print some time back that the really harmless pretences by the broadcasting "uncles" and "aunts" tended to teach children to lie and foster an inclination towards deception. Who of us in our early childhood days did not obtain pleasure from the "land of make-believe?" Was not that old deception "Santa Claus" a joy and happiness to us? Many of us would like to live those days over again when fairies and gnomes were very real to us—just for one hour!

> LISTENER residing near the city tramlines states that each train passing causes interference, and desires to know of the most effective cure. The most effective cure is to change one's residence. Interference due to the proximity of trams cannot be effectively overcome any other way. A listener friend states that he gets his best entertainment from the Australian stations when the trams have ceased running, as his aerial is only twentytwo yards from the overhead wire of a busy tram route.

> WHEN undue crackling is heard from a receiving set the trouble is often found to be due to exhausted dry B batteries. A voltmeter test should tell you whether your B batteries have finished their span of usefulness. Once a 45-volt B battery has dropped to 35 volts it is ready for the dust-bin. They have lost their "pull," and cause noise like static.

> THE British Broadcasting Corporation is forecasting the possibility of being able soon to broadcast a picture of any event four minutes after the tation receives the finished picture. For many months the corpora-

VISIT to a household where there tion has been experimenting with the is a radio set and young children, reproduction of pictures by wireless, will quickly convince anyone of the and it is considered that success with "still" pictures will be the forerunner of the establishment of regular radio movies. It is reported that several Australian experimenters are interested in the scheme, and its adoption in England will only precede its inauguration in Australia by a few months.

> MELBOURNE journal says: A "Mainland listeners must have noticed the very much improved reception from 7ZL, Hobart." As a matter of fact, New Zealanders have noticed that reception from 7ZL, Hobart, went to the pack many months ago, and has not exhibited any signs of returning.

> AN Australian writer says: "The signals from the Southern Cross were as strong and clear as ever when she went on her non-stop run to Perth recently, but the wavelength had been dropped from the 33.3 metres that was used on the trip from America to 32.5 metres, and was much more subject to interference from amateur stations. However, this time they were all on the look-out for the signals, and when they found them in their midst, kept well clear. The call sign KHAB, under which she worked on the trip out here, was augmented by the Australian callsign VZGY, and she will probably always use this latter call now."

> TF the best sites for the proposed relay stations in Australia are to be successfully selected a good deal of work is ahead of the Commonwealth experts. As an indication of the importance attached to the matter of determining the proper place to put a new station by the British Broadcasting Corporation it is noted that a special portable transmitter on a motor truck is used for the purpose of locating the proper position of a new regional station worthy of London. The portable transmitter was used for several weeks, engaged in making best transmissions from various points. At the same time special measuring receivers were used so as to note the effect of the test transmission in different localities. The complexity of the problem of putting up additional stations will thus be realised.

FOLLOWING American practice, the Coronation Hotel, Sydney, and the Carlton Hotel, Brisbane, have been equipped with elaborate radio installations, with speakers, in each bedroom. in the proprietor's private suite, the public saloon, lounge bar, and dining room. Reception is obtained on sixvalve sets, and amplification is carried out on a push-pull system. In use, the installations render equally satisfactory speech or musical reception on one speaker or on all speakers simultaneously, without any increase or diminution of volume. Guests in each room of the hotels can hear the radio at any time by simply pressing a button at the bedside, as the set is always tuned in to one or other of the Australian broadcast stations. One of the chief uses of radio in hotels is to receive sporting results immediately an event is decided, and to provide music for the entertainment of guests.

SPECIAL "old folks" programme has lately been broadcast in Mel-

bourne as a midday session. This idea is not at all a bad one, and even half an hour for old folks inserted in an evening session once every quarter would find wide appreciation. Many of the old-time songs and an occasional recitation of other days would entertain the younger generation as well as the old folks.

NUMEROUS listeners in New Zealand closely follow the wrestling bouts described by 3LO, Melbourne. Next Saturday the first of the elimination contests to decide who will be given the opportunity of wrestling Ted Thye for the much-disputed light heavy-weight championship of the world will be described by Eric Welch. 3LO's special sporting commissioner. Eight wrestlers have been chosen to take part in the elimination series, in which a wrestler will have to be beaten only once to lose his chance of a title bout. The wrestlers chosen are Clarence Ecklund, "Ad" Santel, "George" Zarynoff, "Mike" Yokel, "Pinkie" Gardiner, Hugh Nicholls, Billy Meeske. and John Kilonis. When all but one of the eight have been eliminated, the remaining one will wrestle Thye for the championship somewhere about Cup time.

IN Australia a suggestion has been made for the holding of a competition for writers of short stories which are suitable for broadcasting. The sine qua non of a broadcast story should be that it does not exceed ten minutes in the reading of it.

FOR the Sunday afternoon concerts 3LO, Melbourne, not infrequently employs a gramophone, not an electric pick-up as is the general practice at broadcast stations.



Abel Smeeton, Auck-

land; Thomas Bal-

linger, Wellington;

L. B. Scott. Christ-

church.

# The Woman's Point of View "By Verity"

Links of Empire

Books

# Furniture for Babes

HIS present age has been called.

the nursery folk, for everyone is

with reason, the golden age of

THOSE listeners fortunate enough to ful, the feminine faction showing ittive and fascinating talk over the air to appreciation. It was different in at the children's session at 2YA re- Australia, she commented, wherecently, will be interested to know more temperamental and enthusiastic something of the personality of this -they rapturously applauded a rising feminine pioneer of the poster. Brown star, a new occupation for women as of hair and eye, entirely lacking in well as men, and a fascinating study the voice declamatory and the gesture leading far from parochialism that is aggressive, Miss Guy tells a tale of apt to descend upon those unready to sailing the seas, wandering the wide welcome new facets of the social whirliways of the world, gathering her gig. sheaves en route, as exemplified in her Guy by our sisters over the Tasman, posters, such as perchance we ne'er interviewed and feted by public and shall look upon the like again.

I ISTENING to her tale of effort and achievement, the psychological aphorism, that what you think you become, takes on added force. Of a tentative ambition, a hope born and nourished in the heart of a child, has evolved the hazardous, but eventually successful, grappling with difficulties of a new idea, a try-out, so to speak, of a hitherto unexploited medium. childish hope to see the world beyond, frowned on by obdurate family, kept steadily in view through an interval of teaching school, where instruction was presented through the eye as well as the ear, finally materialised in the collecting of advertisements of the -scenic loveliness of many lands, involving long rovings in strange surroundings among many creeds and classes. As a result, for our delectation we now have unique opportunity of viewing the beauty and wonder of Europe, America, and the lovely land that we of the Dominions call Home.

ACCUSTOMED as we are to frank ugliness and vulgarity of picturisations that sprawl crudely landscape of town and country, rejoice to find our graciand appreciative Prince England expressing himself in accord with and admiration of Miss Guy's venture; and ready to acclaim the wide scope of the exhibition and its potentialities for memorable setting forth of the resources of the Empire. commercial, industrial and scenic. Finally, by way of practical and sympathetic interest, H.R.H. presented Miss Guy with official photographs, to Press, and her four a triumphant one be used as she thought fit, of his re- taking her to many a lonely outpost, cent tour of Australasia, still vivid in where her vivid views of English

CHATTING over the fire of logs in the Old Land. the small and colourful studio, where hang wonderful examples of present-day posters; clad in black velvet cunningly cut and girdled with quaintness of steel and blue, Miss Guy expressed admiration of our bays and islands, the loveliness of the environs of Wellington, and appreciation of kindness and courtesy extended to her by the advertising world, and others reasonably awake to the advantages of telling the tale of our country to a wider andience, made possible by 18 sociation with so accomplished an exponent of advertising art. Men she has found notably interested and help-

hear Miss Winifred Guy's educa- self more wary and not prone to kindle Greatly entertained was Miss



the memory of his devoted Dominions. countryside must have brought poignant nostalgia to many an exile from

> To the originator of an idea which holds infinite possibility must homage be given, and good wishes for further venturesome blazing of picturesque trails.

The Poor Gentleman. (Ian Hay.)

A NOTHER of the se es of charming novels we owe to Major Beith, which are like a fresh breeze of cheer blowing across the sometimes healthy garden f p st-war fiction. A blinded officer of the Great War is the narrator of the story and its unconscious h ro. A type we all know and some of us love, immediately he is entered upon our list of tictional friends. Peacefully begins the tale in a London Park, where the Poor Gentleman, as the playing children call him, makes the casual acquaintance of that genial Cockney, Alf Noseworthy A nice little chap is Alf, trying hard to improve his English accent by a course of How to Speak Correctly. having aspirations to shine on the stage, instead of sticking to his legiti mate job of wireless mechanic, and a His yearning for the clever one. higher life leads to strange association with a gang of American Communistic scoundrels, posing as British film pro ducers, by whom battle, murder and sudden strikes are engineered with almost complete success, and they find the unwilling, efficient Alf a valuable aid in fitting up a broadcasting station to assist their villainous schemes. Hinthey imprison in a sinister moated grange, whither through their machine ations are held up the blind major. the girl of his heart, and Nigel, that amusing sprig of impertinent post war youth. Their incarceration and eventual emergence make intriguing reading, there are capital thumb-nair portraits of all sorts and conditions. Alf and his Edna are much to our taste, and that fair and frank English family with their holiday resort near a casino. The broadcasting element is introduced skilfully, tending to make this good story still more up to the minute: the American girl is frank and kind, and almost good enough for the blind soldier, who wins her heart and ours, while through the story runs a gay, sweet quality of the unconscious courage of the teller of the tale.-

#### To Avoid Breaking Machine Needles.

RVERYONE knows the annoyance and delay caused by breaking a machine needle when passing over a pin. Place the pins at right angles to the seam instead of along it. machine needle just jumps them or slides off the curved sides.

anxious to make them comfortable and happy. Their very lessons are made amusing, and their environment is planned with the idea of training them to form artistic ideals, and to cultivate good taste. In a well-known English furniture

store are being shown min\_ature reproduction Tudor armchairs for the nursery chairs that would not look out of place in mother's drawing room or dining room should there not be sufficient house space to give the young p rson a room all to himself.

There is a small Tudor oak chest, too, which would look at home in any drawing room. It is really a toy-box to hold those coys which would otherwise be inevitably hidden away by Miss or Master Two-to-Eight-years-old under chair or ches erfield, or in the sideboard cupboard of a nurseryless

The modern furniture designed is by way of being a clear-sinited educationist, for he realises that Miss or Master Two-to-Eight-years-old needs amusing as well as instructing in the canons of good taste.

So we see amusing wooden chairs which can be used in the house or in the garden. The sides are carved and painted into two realistic-looking baby elephants, which hold up tetween them the ledge of wood which forms the seat.

Even more fascinating to the small person is the bear painted in natural colouring which serve not only as a chair but as a toy box as well.

In these days of restricted house space perhaps it is as well to train a child's mind early to the shifts, subterfuges and camouflages necessary to the bed-sitting room idea in order that he may be able to plan his own perfect bed-sitting room when he grows up.

So for the room which must do duty as both day and night nursery—the nursery bed-sitting room in fact—one furniture maker is showing miniature oak dressing tables with drawers at each side and recesses at the top for brushes, combs, and other toilet necessaries with a mirror at the back, which can be shut down like the lid of a box over these recesses to form a writing table when shut,

#### Manners'

IN a crowded tramcar a stout genezed into the seat tleman he vacated for him by a polite youth

Where are Stout Gentleman: ...days, I' like anners ow? Everyone for hisself, that's what it is!"

Straphanger: "Well, governor, you've got nothing to growl about, anyway. You've got ∹eat."

Stout Gentleman: "I know I have, but what about my missus down there? The's been standing ever since we got

# Tonking's Linseed Emulsion

a Certain Cure for Coughs and Colds

# The Goman's Point of View

# Annotations of Annabel

DEAREST:

In Mr. C. K. Munro's comedy, "At Mrs. Beam's," lately presented for its elect by the Wellington Repertory Theatre Society, the denizens of the ubiquitous boarding-house live and move before us. With a reminiscent shudder one listened to the verbal spate that poured from the lips of the voluble Miss Shoe-played with extreme realism by Mrs. Coleridge, who entirely shed her own identity in that of the exhausting spinster—and pondered why it is that the same kind of people congregate in the same kind of place.

THE merit of Mr. Munro's plays lies in that factor. Not dramatic or melodramatic, except here wearing blackly beaded silk of and there, the presentation of faulty humanity in some of its least attractive phases is well and wittily accomplished. In the recent presentation. Mr. Morris Dunkley, as the drab and droning failure, pottering in and out, trying to tell his silly story and talked down by everyone, was competent and convincing. He always is. Never have I seen this versatile member of the Society in a part where he "mixed grill" of brocade and glitterfailed to achieve credibility.

FACH to his taste, and some of us and becoming. liked best the portrayal of Mr. Ian MacEwan of a crook who, for THE Masonic Hall was crowded reasons that might be clearer, is suggested, giving notable perform- temporary success. ance of a difficult role, upon which hangs much of the success of the GOOD taste or bad, 'tis all a matter comedy.

obvious facility to striking purpose. teur:one expects her to do much better, and of a surety the wider world some Hudson and Masefield are names to con- FAR superior in flavour to the ordinday will applaud her talent.

MISS Butts looked and acted as we would expect Mrs. Beam to do, ancient cut, its ample folds traditional as the aspidistra and glass case of flowers on the mantelpiece, Mr. James was sufficiently unpleasant as an unbelievably rude adolescent, Mr. Jasper Baldwin absolutely unconvincing as Colin; while Mrs. Patrick Marshall used Irish brogue with commendable audibility and aplomb, the while she wore an enviable coat, a ing silver, stoled with ermine and posied in scarlet, eminently dignified

with the world of the intelligent-"wanted" by the police of three con- sia, accompanied by his wife; and tinents, and stalked and suspected by the progress of the comedy was fol-Mrs. Beam's boarders, albeit they lowed with a receptive attention that find him too fascinating for words. gave fresh indication of the notable Mr. MacEwan's stage appearance is revival of interest in plays and playentirely in his favour, he moved and ers that is so marked a sign and acted with considerable distinction, token of latter post-war years. This always occupying a right place in the is all to the good, and if Mr. Edgar picture, and speaking his lines with Wallace does get rather too large a attractive enunciation and a sufficient share of the theatrical "loot," 'tis bemodicum of cynicism. To him and cause he appeals to the masses, who to Mrs. Coleridge much kudos is to by force of numbers hold within their be accorded; the latter, as already dispensation the loaves and fishes of

of opinion. Some there be who

but the modern. Many a friendship MISS Marjorie Statham had a diffi- is like to split upon relative merit of cult and dramatic row to hoe, Mr. Galsworthy, Clemence Dane, or and remarkable success was achieved. some raucous exploiter of the crook. So outstanding were conception and Evadne, that charming flapper, colinterpretation that it is safe to pre-lects unto herself literature pertaindict a distinguished future if a his- ing to things Chinese, her library trionic career is embraced. Artisti- ranging from lore esoteric and Buddcally made up, garbed with vivid pic- histic to the attractive tales of mixed turesqueness enhancing dark and in- marriage by Louise Jordan Miln. For triguing beauty, entirely graceful in those who wander in the outer darkswift and sudden gesture, Miss Sta- ness of literary doubt, I commend the tham used her delightful voice and following jingle of a famous racon-So good was her performance that There's Conrad and Kipling, James pour a little melted butter over the top. Stephens and Moore,

prefer the execrable jazz; others des-

pise Wagnerian magnificence, find Stravinsky adorable, and abjure all

jure;

And last, but not least, the author of loz. of butter, and a slice of finely

James Barrie and Chesterton-minus the joke-

With Huxley and Machen together we'll

Plus William McFee, with his tales of

Complete with the verse of Yeats-W.B. Your

ANNABEL LEE.

Every day is born into the world, comes like a burst of music, and rings itself all the day through; and thou shalt make of it a dance, a dirge, or a life march as thou wilt."—Car-

#### For Sandwiches

Cheese Butter.

THIS is very tasty spread on cream crackers. Put into a double saucepan 2oz. of butter, 4oz. grated cheese, and half a teacupful of milk. Season well with salt and pepper and a little made mustard. Stir over low gas till well mixed and the cheese dissolved, then turn into pots; it will keep in a cool place several days.

Tomato Cream.

THIS is much easier than slicing fresh tomatoes, and just as welcome Scald alb. of tomatoes, peel them and put in a pan with loz. of butter. Stew gently for ten minutes, then add a slice of crumbled white bread, a beaten egg, and seasoning to taste. Cook for a few minutes, then pot; when cool,

Salmon Paste.

ary bought kind. Remove the skin and bone from half a small tin of sal-Sheila Kaye-Smith and the great R.L.S., mon. Pound until smooth, then add crumbled bread; add salt, pepper, and a little vinegar; put into glass jars and cover with melted butter.

#### Hints that Help

Repairing the Carpet Sweeper.

DO not throw aside the carpet sweeper because the wheels are worn. Bind the wheels with adhesive plaster to the former thickness, and the sweeper will run smoothly again.

Longer Life for Wash Leathers.

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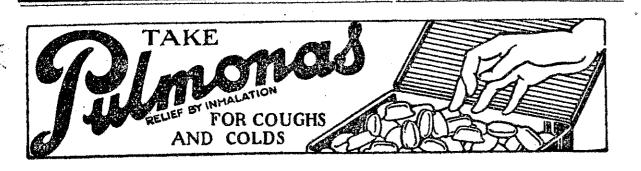
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# Features of Next Week's Programmes

1YA Notes

DIVINE service for Sunday evening will be relayed from St. Andrew's Church, the preacher being the Rev. George Budd, and the organist, Dr. Neil McDougall. This session will conclude with a gramophone lecture recital by Mr. C. B. Plummer, who is well-known in musical circles in Auckland.

I OVERS of musical comedy will look forward to Tuesday evening's performance when Madame Irene Anisley's Quartet will present excerpts from Fraser Simpson's "Maid of the Mountains." The excerpts will include the most well-known solos and and concerted items from the comedy. The quartet will have the assistance of a specially trained vocal chorus under the guidance of Madame Irene Ainsley. The soloists will also be heard in a number of light ballads. Instrumental items will be performed by the Auckland Trio and Mr. Cyril Towsey The Majestic Theatre Or-(pianist) chestra will also be heard on relay from the Majestic Theatre. Ventures in Trade" is the subject upon which Mr. A. B. Chappell will speak in continuing his talks on "Old New Zealand."

WEDNESDAY evening's programme will consist of grand organ selections, broadcast from the Auckland Town Hall, where the city organist, Mr. Maughan Barnett, will render a programme of popular and classical items. This will be followed by a gramophone lecture-recital by Mr. Karl Atkinson, of the Auckland Gramophone Society. During the early evening session on Wednesday, Mr. Norman Kerr will continue his talks on physical culture.

THE main vocalists for Thursday's variety programme will be the "Casino Quartet." who will contribute quartets and solos. Ingall's wellknown Hawaiian Orchestra will be heard in a number of Hawaiian melodies and popular airs, while Messrs. T. Harris and J. Mackle will be associated in a scene from the "Merchant of Venice" (Shakespeare). Instrumental items will be provided by the Auckland Trio and Miss Ina Bosworth (violiniste), while humour will be dispensed by the "Hebrew Two" in a conversation on "Evolution."

ONTRIBUTING the major portion

"John Ireland" --- Lecture-Recital at 1YA

THE modern British com- numbers, the work of this poser. Mr. John Ireland,

is the subject of a musical lec-

ture-recital to be given by Miss Margaret Herald, L.A.B., L.R. A.M., on Friday, September 21. The arranging of this lecture is in accordance with a suggestion from the 1YA Musical and Dramatic Committee.

Miss Herald is a keen student Ireland and



MISS HERALD -Photo Andrews.

play two pianoforte solos Of his songs, "Sea Fever" has and soprano sing

composer.

The subject of the lecture-

recital. John Ireland, was born in 1879, his father being a wellknown Manchester journalist. land attende d the R. C. M. (1893-1901)and is one of the many composers who owe their training Stanford. He has written much instrumental music

during her lecture she will and upwards of fifty songs. attained the widest popularity.

OUTSTANDING on Friday's programme should be two oneact comedy sketches of "The Plumbers" and "A Want of Harmony," produced by the Auckland Comedy Players, under the direction of Mr. J. F. Montague.

CATERING for the lighter taste on Saturday evening, the well-known Lyric Quartet will perform a number of popular quartets and solos, including "Ukulele Dream Girl" and "Some Folks Say." Mr. Alan McElwain will again contribute humour for the evening, while banjo and concertina items will also be performed. The programme will conclude with a relay of dance music from the Masonic Hall, played by Bendall's Collegians, under the direction of Mr. Edgar Bendall.

THE Church of Christ will provide the evening service to be broadof Friday's programme will be the cast on Sunday. The preacher is Mr. St. Andrew's Quartet in solos and con- E. Aldridge, the organist Mr. K. certed items, including a number of Knowles, and the choirmaster Mr. W. dian Love Lyrics" to be sung by Mr. excerpts from Gilbert and Sullivan Thomson. This will be followed by Len. Barnes, with orchestral accomoperas. The instrumentalists will in- a relay of the Auckland Municipal paniment. Mr. Arthur Coe will sing clude among others, Miss Molly Band concert in the Auckland Town two numbers, "Good Speed you, dear" Wright ('cellist) and the Auckland Hall, the band being under the baton by Del Riego, and "Swedish Love of Mr. Christopher Smith.

2YA Notes

ON Monday evening, September 10, the Ariel Singers will again be heard from 2YA in another of their varied and artistic programmes. Vocal and concerted items will include compositions by Roger Quilter, Edward German, Donizetti, dell 'Acqua, Blumenthal and others.

Supplementing the Ariel Singers will be Mr. Ernest Short (baritone), Mr. Stanley Warwick (elocutionist), and Mr. H. Temple White, who will be heard on relay from the organ of the Taranaki Street Methodist Church.

THERE are several request numbers on the programme to be given by the popular Orpheus Quartet on Tuesday evening. They include "Softly Awakes My Heart" "Samson and Delilah," to be sung by Mrs. Alice Harris; "Meadowsweet." by Miss Lily Mackie; "The Four In-Song" by Morgan. Ensemble numbers

are "Hail to the Chief" and "Ciribiribin," a vocal waltz.

Other contributing artists will be Mr. Billy Hart and Mr. Doug. Stark, specialists in their respective spheres and always welcome. The programme will also include a specially prepared gramophone recital presented by E. J. Hyams, Ltd., the Wellington distributors for "His Master's Voice" records. The recital will comprise gems from the very latest releases.

ON Thursday night the band items will be interspersed with vocal numbers by the talented Lyric Quar-Their concerted offerings will consist of both grave and gay quartettes. The opening number will be that delightfully harmonised selection by Dudley Buck, "In Absence." Then will be rendered those humorous part songs, for which this quartet is noted, "Go Ask Papa." "We laid our little one away," and "They Kissed." The concluding item wil! be the "Negro Lullaby," that song with which many a slave woman crooned her infant to sleep, in the days gone by. The humorous duet "Ballad Singers," will be rendered by Messrs. Williams and Goudie. The solo items will also be of a very high order. Miss Effie Brice will contribute elocutionary numbers, and the instrumental portion of the programme will be provided by the Municipal Tramways Wellington

BY request, the duet, "O Fairy Wand. Had I the Pow'r," will be sung by Miss Gretta Stark and Mr. Ray Kemp on Friday. This number proved a great success when sung by these artists recently. Me 'ss Stark is singing "On Mighty Pens" from Haydn's Creation, and Mr. Ray Kemp will be heard in two very fine numbers, "King Charles" and "Chant Arabe." by Bemberg.

TWO beautiful songs have been chosen by Mr. Frank Skinner, "Mignon" and "Sylvelin." Miss Rita Aronld will sing the famous "Habanera" from "Carmen," a song of love and defiance. From the "Legend of Nerbudda" will heard a beautiful scena-Miss Arnold as "Nerbudda." Mr. Frank Skinner as "Morning Breeze." Miss Gretta Stark as "Johila" and Mr. Ray Kemp as "Sone." Nerbudda has been jilted by her lover, "Sone." who falls in love with the slave "Johila." The Morning Breeze, as he floats by, tells Nerbudda of her The scena ends with a very beautiful quartet. Mr. Lionel Finch will be heard in selected elocutionary

IN arranging their programme for Saturday, the "Melodie Four" have not overlooked the fact that people who remain at home on Saturday evenings desire light music, after their week's labours. "Lay my head beneath a Rose," as harmonised by Mr. Frank Crowther, will be the open-

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ing concerted number, to be followed later by a bracket of two very popular modern songs, "Blue Skies" and "So Blue"; also arranged by Mr. Crowther. In response to the request of the Dunedin listeners the quartet will render "Johnny Schuaker," a very old Flerman part song. The solo items will be up to the usual standard. Tichener, the popular comedian, will provide the humorous element.

#### 3YA Notes

MUSICAL circles in Christchurch were grieved last week by the news of the death of Mr. E. C. Derry, founder and conductor of the wellknown "Derry's Military Band." a very popular organisation in Christchurch and which has been appearing regularly at 3YA to the great pleasure of all listeners. The military band was a hobby for Mr. Derry, who won his first cornet championships when he was sixteen years of age and who retired undefeated. A single man, Mr. Derry retired from the Railway Department ten years ago, since when he has devoted his time to his band. "Derry's Band" will continue to be heard from 3YA, listeners will be pleased to learn, and they can look forward to another of the usual bright and varied programmes on Monday evening.

MR. JOHN TAYLOR will make one Lancelot Gobo will take part. Other on Monday evening. He has a splen- ford. did baritone voice, and is sure to delight listeners with "Dear Pal o' Mine," "The Flight of Ages." and "The Another vocalist who Trumpeter." is also certain to please will be Mrs. Bessie Stewart (nee Miss Bessie Owles), well known on every concert platform  ${f in}$ Christchurch. Muriel Johns, always a favourite performer at 3YA, will be contributing more of the latest and brightest songhits on Monday.

"WHAT shall we do with our boys and girls?" a momentous question which faces every parent and to which all too many given not sufficient thought, will be the subject of a talk by Mr. Mark Rolls on Monday.

OF a miscellaneous character will be Wednesday evening's programme. A very select programme has been ar-

# Musical Comedies for 3YA and 4YA

MUSICAL comedy to-day is probably the most popular form of theatrical enterprise. Opera, drama, and vaudeville each have their own devotees, but musical comedy makes its appeal to followers of each of these forms of entertainment.

Two such productions are on the programmes scheduled for next week-"Going Up" (by Hirsch), at 3YA on Friday, and "Kissing

Time" (by Caryll), at 4YA on Saturday.

Of all the English composers of this tuneful type of entertainment, none, perhaps, has excelled Ivan Caryll, who has demonstrated repeatedly that he possesses a wonderful ability for creating light music of sheer beauty. This was evident in the earlier works he wrote or collaborated largely in. "The Girls of Gottenberg," "The Pink Lady," "Our Miss Gibbs," and numerous others, although written many years ago, still live, and will doubtless bear revival far into the future. As rich in tuneful songs as his older works are, Caryll's creative genius has developed with the years, his later plays revealing matured ability. Of these "Kissing Time" is a brilliant example, for every number in the book is unexcelled for rare beauty of melody. Each of the fourteen songs, and the concerted numbers opening and ending the two acts, possesses its own particular style, but never once through the play is the quaint lilting melody lost in the music.

ranged in which the majority of the songs to be sung will be comparatively be a sprinkling of old favourites. which will range from a plantation song to operatic excerpts. The elocutionary items on Wednesday evening will include a Shakespearean comedy sketch, in which Mr. W. H. Moses, as Gobo and Mr. Hiram Dunford as of his rare appearances at 3YA recitations will be given by Mr. Dun-

> A NIGHT of grand opera excerpts is scheduled for Thursday evening, the vocalists being the members of Madame Gower Burns's party. "Lucia di Lammermoor," "Il Trovatore," "La Boheme," "Un Ballo in Maschera," "Cavalleria Rusticana," and "Rigoletto" are among the works from which solos or quartets have been chosen.

ANOTHER feature of Thursday evening's entertainment also will be a further appearance of the Studio Orchestra, under Mr. Harold Beck who will present another very pleasing programme of bright and engaging Elocutionary numbers selections. will be given by Miss Winifred Smith.

SOUTH Sea Island love story, "Swandalaya" (by Townsend), is little known. There will, however, one of the recitations to be given by Mr. R. R. Wills on Friday evening. His other items will be two humorous ones in which a German and an Italian respectively will be the principal characters. The Radiolians have chosen "Going Up." the very popular musical play by Hirsch, for presentation on Friday evening. This play abounds in good tunes, both solo and concerted, and the radio production should be one of the most enjoyable the Radiolians have given. "Going Up" will occupy the major portion of the evening's programme.

> ()N Saturday evening 3YA will rebroadcast 2YA's week-end concert. Sunday evening's after-church concert at 3YA will consist of a gramophone recital, electrically reproduced.

#### 4YA Notes

BAND night at 4YA on Tuesday will be up to the high standard which has been set. An abundance of tuneful music will be presented by the St. lar note will be the ever-popular air will be broadcast.

with variations entitled the "Harmonious Blacksmith." An extremely pretty intermezzo, "The Bells of St. Germain," by the German composer Meiner, will also be a feature of the programme.

SOME leading local talent has been engaged to provide the vocal and elecutionary portion of the concert on Tuesday. Two songs, popular with the older generation, will be presented by Mrs. D. Carty, namely, "Where the River Shannon Flows" and "The Old Rustic Bridge by the Mill." Miss Bertha Rawlinson, possessor of a sweet little soprano voice, will render Alfred Hill's "Waiata Maori" and "The Spinning Wheel." Other vocalists will be Mr. L. E. Dalley and Mr. Bert Rawlinson.

CHEERFULNESS will be the keynote of the programme from 4YA on Wednesday evening. Bright tuneful songs and instrumental music. comic songs, patter and humorous sketches will constitute the bill of fare. Mr. Buster Brown (Scotch comedian) will tell about the "Wedding of Sandy McNab," and will discuss the virtues of "Bonnie Leezie Lindsay." He will also assure you that "It's Nice to Get Up In the Morning." Mr. Chris. Harlie the Lancashire comedian, will demonstrate "How We Laugh," will sing and patter about "As Soon as They Heard My Voice" and "It's a Bird." Paul Ruben's song, "Here's to Love," will be sung by Miss Betty Roberts, along with a popular little hit of twenty years ago-"Grow, Tittle Mushroom, Grow." Three & the latest popular songs will be sung by Miss Thelma Blackman.

FRIDAY evening's concert at will consist of studio items for first hour, followed by a relay of dance music from the Sayoy. Miss Mollie Vickers (mezzo-soprano), and Mr. L. M. Cachemaille will be the vocal art-

ON Saturday night the 4YA Harmonists will delight listeners with a presentation of the vocal numbers from "Kissing Time," and a most enjoyable evening should result. Kilda Band, under the baton of Mr. tween the acts of "Kissing Time" on James Dixon. One number of particu- Saturday night, instrumental music

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# Full Programmes for

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# Sunday, September

IYA, AUCKLAND (333 METRES), SUNDAY, SEPTEMBER 9.

3 p.m.: Afternoon session—Selected studio items.

4.0: Literary selection by the announcer.

4.8: Further selected items.

4.30: Close down.

6.0: Children's hour-Song service, conducted by Uncle Leo, assisted by cousins from Beresford Street Sunday School.

6.55: Relay of evening service from St. Andrew's Church. Preacher, Rev. George Budd. Organist, Mr. Neil McDougall.

8.30: Gramophone lecture-recital, Mr. C. B. Plummer.

9.30: God Save the King.

#### 2YA, WELLINGTON (420 METRES)—SUNDAY, SEPTEMBER 9.

3 p.m.: Afternoon session—Selected studio items.

4.30: Close down.

6.0: Children's Sunday service, conducted by Uncle Ernest, assisted by St. James' Presbyterian Sunday School Choir.

7.0: Relay of evening service from Taranaki Street Methodist Church. Preacher: Rev. Clarence Eaton. Organist and choirmaster: Mr. H. Temple White.

8.15 (approx.): Relay of band recital of Wellington Municipal Tramways Band from His Majesty's Theatre (conductor, Mr. T. Goodall). God Save the King.

#### 3YA, CHRISTCHURCH (306 METRES), SUNDAY, SEPTEMBER 9.

3 p.m.: Studio concert—Selected studio items.

4.30: Close down.

5.30: Children's song service, conducted by Uncle David. Hymns will be sung by children from Tennyson Street Congregational Sunday School.

6.30: Relay of evening service from Trinity Congregational Church. Preacher, Rev. D. Gardner Miller. Organist, Mr. Alec Mill, L.A.B. Choirmaster, Mr. A. G. Thompson, B.A.

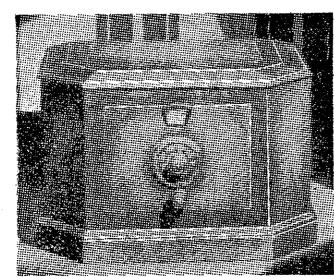
8.15: (Approx.) Gramophone recital from studio.

9.30: God Save the King.

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#### 4YA, DUNEDIN (463 METRES), SUNDAY, SEPTEMBER 9.

5.30 p.m.: Children's song service, conducted by Big Brother Bill, assisted by the scholars of the Mornington Baptist Sunday School.

6.30: Relay of service from St. Andrew's Street Church of Christ. Preacher, Pastor W. D. More. Choirmaster, Mr. W. Hickey.

8.0: Studio concert.

9.15: Close down.

# Monday, September

IYA, AUCKLAND (333 METRES), MONDAY, SEPTEMBER 10.

SILENT DAY.

#### 2YA, WELLINGTON (420 METRES), MONDAY, SEPTEMBER 10.

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

3.1: Selected gramophone items.

4.30 and 4.55 p.m.: Sporting results to hand.

5.0: Close down.

- 6.0: Children's hour, conducted by Aunt Gwen and Uncle Jeff. Piano solo, Cousin Phyllis: "Nocturne in Form of Waltz" (Besley). Story for the babes, Aunt Gwen. Song, Cousin Marjorie: "A Farewell" Piano solo, Cousin Ruby: (Liddle). Birthdays, Uncle Jeff. "Rondo," from "Pathetic Symphony" (Beethoven). Duet, Cousins Marjorie and J.: "List to the Con-Aunt Gwen. Story , Uncle Jeff. Song, Cousin Marjorie: "Sleepy Hollow Tune" (Kountz). Piano duet, Cousins Phyllis and Ruby: "Grand Vitesse" (Mullen). Puzzle. Good-night song.
- 7.0: News session, market reports and sports results.
- 8.0: Chimes of the General Post Office clock, Wellington.
- 8.1: Overture, the orchestra: "Mirelle" (Gounod-Borch). 8.11: Quartette, Ariel Singers: "Tally Ho" (Wheeler).
- 8.14: Violin solo with orchestral accompaniment, Miss Ava Symons: "Andante Symphonic" (Lalo).
- 8.20: Bass solo, Mr. J. M. Caldwell: "Rolling Down to Rio" (German).
- 8.24: Instrumental, the orchestra: (a) "Humorous Danse" (Palmgrin); (b) "Venetian Love Danse" (Rich).
- 8.32: Soprano solo, Miss Jeanette Briggs, L.A.B.: "Villanelle" (dell 'Acqua).
- 8.35: Elocution, Mr. A. Stanley Warwick: "The Well of St. Keyne" (Southey).
- 8.41: Instrumental, the orchestra: Repeat item.
- 8.49: Baritone solos ,Mr. Ernest Short: (a) "The Sun God" (James); (b) "How's My Boy" (Homer); (c) "Three" (Allitsen).

8.59: Weather report and announcements.

- 9.1: Relay of organ solos by Mr. H. Temple White: (a) "Le Soir" (Gounod); (b) "Chorale and Minuet," from "Suite Gothique" (Boell-
- 9.11: Tenor solos, Mr. Roy Hill: (a) "To Daisies" (Quilter); (b) "Oh, Mistress Mine" (Quilter).
- 9.17: 'Cello solo with orchestral accompaniment, Mr. Geo. Ellwood: "Serenade Orientale" (Popper).
- 9.23: Elocution, Mr. A. Stanley Warwick: "The Subaltern Buys the Ring" (Thomas).

9.28: Mezzo-contralto solo, Miss Ngaire Coster: "Il Segreto," from "Lucrezia

Borgia" (Donizetti). 9.31: Ballet suite, the orchestra: "Ascanio Ballet Suite," Part 2 (Saint-

Saens); 1. "Love Appears to Psyche"; 2. "Ensemble of Phoebus, Diane, Erigone, Nicoea and Bacchus with the Muses, Nymphs and Bacchantes"; 3. "Variation-Love Theme," Entrance of the Dragon of Hesperides, carrying the Golden Apple." Flute solo-4. "Goddesses, Bacchantes, Nyaids and ist, Signor Truda. Dryads."

9.43: Bass Solo, Mr. J. M. Caldwell: "Harlequin" (Sanderson).

9.47: Piano solos, Miss Alice Duff: (a) "Nocturne" (Grieg); (b) "Waldersrauchen" (Liszt).

9.55: Vocal duet, Misses Jeannette Briggs and Ngaire Coster: "Venetian Boat Song" (Blumenthal).

9.58: Choral with orchestra: (a) "A Breath of Our Inspiration," and (b) "We are the Musicmakers," from "The Merrymakers" (Elgar). His Master's Voice Record, D-1349.

#### 3YA, CHRISTCHURCH (306 METRES), MONDAY, SEPTEMBER 10.

3.0 p.m.: Afternoon session. Selected studio items.

4.25: Sports results.

10.5: National Anthem.

6.0: Children's hour. "A Night in Hawaii," with Scatterjoy and her little Hawaiian songs by Cousins Alison and Margery. friends.

# Week-all Stations-to Sept. 15

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

Zither solos by Cousin Gwen: "Aloha," "Honolulu Blues." Stories of the Islands, by Scatterjoy. Birthday greetings and best writer's verse. Ukulele duo music by Cousins Wayne and Ken. Song by Cousin Kathleen: "The Land of Nod."

7.15: News session.

Studio concert by Derry's Military Band and assisting 8.0: Chimes.

8.1: March, Band; "Tent City" (English). Valse, Band: "Charmaine" (Rapee). Baritone songs, Mr. James Taylor: "Dear Old Pal o' Mine" (Rice); (b) "The Flight of Ages" (Bevan).

8.18: Selection, Band: "Reminiscences of Wales" (Godfrey).

8.30: Happy songs at the piano, Miss Muriel Johns.

8.36: Instrumental trio, Christchurh Broadcasting Trio: "Andante and Cappriccio" (Reissiger).

8.44: Mezzo-contralto solos, Mrs. Bingham Puddey: (a) "Sweet Early Violets" (Sherrington); (b) "Who Is Sylvia?" (Schubert).

8.51: Allegro moderato, Band: "Ke Sa Ko" (Chapins).

9.3: Weather report.

9.5: Talk, Mr. Mark Rolls: "What shall we do with our own boys and girls?"

9.20: Overtures.

9.28: Baritone song, Mr. James Taylor: "The Trumpeter" (Dix).

9.32: Happy songs at the piano, Miss Muriel Johns.

9.38: Instrumental trio, Christchurch Broadcasting Trio: (a) "Minuet" (Shield); (b) "The Wood Nymph" (Lind).

9.44: Humorous descriptive sketch, Band: "A Southern Wedding" (Lotter). 9.56: Mezzo-contralto solos. Mrs. Bingham Puddey: (a) "Before the Dawn" (Lamb); (b) "Salaam" (Lamb). Two little Eastern songs.

10.1: Foxtrot March, Band: "Forgive Me" (Yellen); "Social Life" (Bohme). Announcement.

"God Save the King."

4YA, DUNEDIN (463 METRES), MONDAY, SEPTEMBER 10.

SILENT DAY.

### Tuesday, September

IYA, AUUKLAND (333 METRES), TUESDAY SEPTEMBER 11.

8 p.m.: Afternoon session. Selected studio items.

4.0: Literary selection by the announcer.

4.8: Further studio items.

4.25: Sports results.

4.30: Close down

6.0: Children's hour, conducted by Uncle George. Piano solo, Cousin Haddon: "Toccatina." Sketch, Cousin Gwen: "A Visit to a Shoe Shop." Letters and birthdays, Recitation, Cousin Jim: "My Piano solo, Cousin Haddon: Selected. Dialogues, Cousins June and Jim: "The Secret." Bedtime stories.

7.15: News and market reports.

7.30: Book review.

8.0: Chimes.

Relay of overture from Majestic Theatre orchestra, under Mr. J. Whit-

8.11: Soprano sole. Miss Nancy Hannah: "Songs My Mother Taught Me" (Dvorak).

8.15: Flute solo. 'Witches Dance' (Paganini),

8.19 Baritone solo. Mr. J. Hogan: "Harvester's Night Song" (Martin),

8.22Instrumental trio Auckland Trio: "Finale from Trio in C-Minor" (Mendelssohn),

8.32 Contralto solo, Madame Irene Ainsley: "Sink, Red Sun" (Del Riego).

8.36 Pianoforte solo Mr. C. Towsey.

8.41 Lecture on Old New Zealand, Mr. A. B. Chappell, M.A.: "Early Adventures in Trade."

8.56. Retay of musical interlude from Majestic Theatre orchestra,

9.4: Weather forecast.

Mezzo-soprano solo, Miss Nance Macklow: "Arise, O Sun" (Day),

9.9: Flute solo: "Papillion Op. 30" (Kohler).

9.13: Tenor solo, Mr. J. Maddocks: "Thou Art Risen" (Coleridge-Taylor),

9.17: Instrumental trio, Auckland Trio: "Serenade" (Drigo).

9.25: Contraito solo, Madame Irene Ainsley: "Love's Old Sweet Song" (Molloy).

\$29: Presentation of excerpts from "Maid of the Mountains" (Fraser-Simpson), under the direction of Madame Irene Ainsley. Open Chorus: "Friends Have to Part." Tenor and Chorus: "Live For To-day" Soprano and Chorus: "My Life is Love,"

Soprano Solo: "Farewell."

Chorus: "Dividing the Spoil," "We're Gathered Here."

Soprano Solo: "Love Will Find a Way."

Soprano and Tenor: "A Paradise for Two."

Mezzo-soprano and Baritone: "Husbands and Wives."

Tenor: Solo: "A Bachelor Gay."

Chorus: "When Each Day."

Soprano, Baritone and Chorus: "Good People Gather Round." Mezzo-soprano and Baritone: "Over Here, Over There."

10.0: "God Save the King."

#### 2YA, WELLINGTON (420 METRES), TUESDAY, SEPTEMBER 11.

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

3.1: Selected gramophone items.

4.30 and 4.55: Sporting results to hand.

5.0: Close down.

6.0: Children's hour, conducted by Big Brother Jack. Piano duet, Cousins Nola and Joyce: "Valse Noble" (Gurlitt). Birthdays, Big Brother Jack. Piano solo, Cousin Dulcie: "Russian Dance" (Engelmann). Recitation, Cousin Nola: "Little Pedlar of Dreams." Piano duet, Cousins Joyce and Dorothy: "Neger Tanz" (Gurlitt). Story, Big Brother Jack. Piano solo, Cousin Marjorie: "Valse" Op. 88 (Godard). Chorus (soloist, Cousin Joyce): "The Brown Thrush for Nature Lyrics."

7.0: News session, market reports and sports results.

7.40: Lecturette by representative of Agricultural Department: "For the Man on the Land."

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

8.1: Overture, the Orchestra: (a) "American Patrol" (Meacham); "Blue Danube Waltz" (Strauss).

8.11: Tenor solo, Mr. Arthur Coe: "God Speed You, Dear" (Del Riego).

8.14: Contralto solo, Miss Lily Mackie: "Meadowsweet" (Brahe).

8.17: Duet for flute and clarionet, Signor Truda and Mr. E. Wright: "Lo. Hear the Gentle Lark" (Bishop).

8.23: Humour, Mr. Doug Stark: "Richard the First" (Manning).

8.30: Baritone with orchestra, Mr. Len Barnes, Four Indian Love Lyrics (Woodforde-Finden): (a) "Temple Bells." (b) "Less Than the Dust," (e) "Kashmiri Song," (d) "Till I Wake."

8.42: Soprano solo, Mrs. Alice Harris: "Softly Awakes My Heart" (Saint-

8.46: Instrumental, the Orchestra: Request Item.

8.54: Vocal Quartet, The Orpheus Quartet: "Ciribiribin" (Pestalozza).

8.59: Weather report and announcements.

Tenor solo, Mr. Arthur Coe: "Swedish Love Song" (Morgan).

9.5: Humour, Mr. Doug. Stark: "Bella" (Lauder).

9.12: Instrumental, the Orchestra: "Hunting Song" (Bucalossi). Xylophone solo with orchestral accompaniment: "Worrying" (soloist. Mr. L.

9.22: Songs at the piano, Mr. Billy Hart: (a) "Tellin' the Birds" (Friend): (b) and (c) Selected.

9.32: His Master's Voice Gramophone recital:

Selection. Band of H.M. Coldstream Guards: "Martha" (Flotow). H.M.V. Record, C-1453

Bass baritone solo, Mr. Peter Dawson: "Sirs, Your Toast," from "Carmen" (Bizet). H.M.V. Record C-1400,

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Violin solo, Jascha Heifetz: "Hebrew Melody" (Achron). H.M.V. Record DB-1048.

Soprano solo, Miss Evelyn Scotney: "Blue Danube Waltz" (Strauss). H.M.V. Record D-1403.

Pianoforte solo, Meischa Levitski: "Hungarian Rhapsody" No. 6 (Liszt). H.M.V. Record D-1383.

Tenor solo, Mr. Joseph Hislop: "Bonnie Mary of Argyle" H.M.V. Record DB-1058.

Orchestral, Philadelphia Symphony Orchestra: "Waltz of the Flowers," from "Nutcracker Suite" (Tschaikowsky). Record D-1216.

Waltz, The Troubadors: "La Golondrina" (The Swallow). H.M.V. Record EA-349.

10.2: National Anthem.

#### 3YA, CHRISTCHURCH (306 METRES), TUESDAY, SEPTEMBER 11.

#### SILENT DAY.

#### 4YA, DUNEDIN (463 METRES), TUESDAY, SEPTEMBER 11.

8 p.m.: Town Hall chimes. 3.1: Gramophone concert.

4.0: Address on "Art Needlework" by Miss Marguerite Puechgud, under the auspices of the King Edward Technical College.

4.15: Studio music.

4.25: Sporting results.

4.30: Close down.

6.0: Town Hall chimes.

6.1: Children's hour, conducted by Big Brother Bill. The Happy Folks' Anthem. Greetings, riddles and jokes. Concerted item by the High Street School. Storytime for chickabiddies. item by the High Street School Letters, birthdays and Radio Postie. Concerted item by the High Street School. Travel talk by Big Brother Bill. Good-night.

7.15: News session.

7.30: Address.

8.0: Town Hall chimes. Concert by the St. Kilda Band, under the direction of Mr. J. Dixon, and items by assisting artists.

8.1: March, the Band: "Royal Rover" (Greenwood).8.5: Tenor solos, Mr. L. E. Dalley: (a) "I Heard You Singing" (Coates); (b) "A Little Day" (Smith).

8.10: Recital, Miss Anita Winkel; "If" (Kipling).8.13: Hymns, the Band: "Abide With Me" and "Lead Kindly Light."

8.18: Mezzo-soprano solo, Miss Bertha Rawlinson: "Waiata Maori" (Hill).

8.22: Recitations, Mr. Lester Moller: (a) "The Thousandth Man" (Kipling); (b) "The Cow" (Stanford).

8.30: Fantasia, the Band: "Rustic Scenes" (Rimmer).

8.40: Baritone solos, Mr. Bert. Rawlinson: (a) "Melisande in the Wood"; (b) "When Song is Sweet" (Sans Souci).

8.46: Waltz, the Band: "Caressante" (Moore).

8.54: Soprano solos, Mrs. D. Carty: (a) "Where the River Shannon Flows" (b) "The Old Rustic Bridge" (Shelley).

9.0: Weather report and forecast.

9.3: Cornet solo, with band accompaniment: "My Dreams" (Douglas).

9.8: Tenor solo, Mr. L. E. Dalley: "Sailor's Song" (Wagner).

9.11: Recitations, Miss Anita Winkel: (a) "Old Perriot" (Lovey); (b) Child impersonation—"I've Got the Mumps" (Green).

9.18: Air with variations, the band: "Harmonious Blacksmith" (Hurrie). 9.28: Mezzo-soprano solos, Miss Bertha Rawlinson: (a) "A Memory" (Goring-

Thomas); (b) "The Spinning Wheel" (Lees).

9.34: Recitation, Mr. Lester Moller: "Percy on Politics" (Hayes). 9.40: Intermezzo, the Band: "The Bells of St. Germain" (Meiner).

9.45: Soprano and baritone duet. Mrs. D. Carty and Mr. Bert. Rawlinson:

"There was a Lad" (Mudie).

9.50: Baritone solo, Mr. Bert. Rawlinson: "Duna" (MacGill).

9.53: March, the Band: "Black Dike" (Greenwood).

10.0: "God Save the King."

# Musical Resources of the

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FADA RADIO



# Wednesday, September 12

#### IYA, AUCKLAND (333 METRES), WEDNESDAY, SEPTEMBER 12.

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

4.0: Literary selection by the announcer.

4.8: Further studio items.

4.25: Sports results.

4.30: Close down.

6.0: Children's hour, conducted by Uncle Tom. Opening chorus, Uncle Tom. Piano solo, Cousin Frank: "Marche Militaire" (Schubert). Story for tiny tots. Letters and birthdays. Song, Uncle Tom. Record. Piano solo, Cousin Frank: "To the Spring" (Grieg). Uncle Tom, Closing chorus. Storytime.

7.15: News and market reports.

7.45: Talk on "Physical Culture," by Mr. Norman Kerr.

8.0: Chimes.

8.1: Relay of Grand Organ selections by Mr. Maughan Barnett.

9.30: Gramophone Lecture-recital, by Mr. Karl Atkinson.

#### 2YA, WELLINGTON (420 METRES), WEDNESDAY, SEPTEMBER 12.

#### SILENT DAY.

#### 3YA, CHRISTCHURCH (306 METRES), WEDNESDAY, SEPTEMBER 12.

3.0 p.m.: Afternoon session. Selected studio items.

4.25: Sports results.

6.0: Children's hour. A night with Brother Bill and his records. March, "March of the Toys." Camp fire songs and choruses by Cousin Vernon and the Scouts. Children's dances: (a) "Sir Roger de Coverley," (b) "Highland Fling." Story time with Brother Bill. Birthday greetings. Songs by Cousin Harold: "Robbin, Robbin," "Will You Walk a Little Faster?" Sketch by Dismal Desmond.

7.15: Addington Stock Market reports.

7.30: News session.

8.0: Chimes.

Miscellaneous programme.

8.1: Overture, relay from Strand Theatre of orchestra, under conductorship of Mr. Harry Elwood. Tenor songs, Mr. T. G. Rogers: (a) "Love Sounds the Alarm"

(Handel); (b) "There is a Valley" (Bates).

8.9: Pianoforte solos, Miss Aileen Warren: (a) "Gangar," Peasant March (Grieg); (b) "I Love Thee" (Grieg); (c) "Country Gardens" (Grainger).

8.18: Soprano and contralto duet, Misses Hilda Hutt and Nellie Lowe > "Where the Chestnuts Bloom" (Newton).

8.22: Instrumental Trio, Christchurch Broadcasting Trio: "Larghetto and Finale" (Gade).

8.30: Soprano songs, Miss Hilda Hutt: (a) "Nightingale of June" (Sanderson); (b) "Love I have Won You" (Ronald).

8.37: Shakespearean Sketch, Messrs. W. H. Moses and Hiram Dunford: From "The Merchant of Venice" (Shakespeare). Gobbo, the father,

Mr. W. H. Moses; Lancelot Gobbo, the son, Mr. Hiram Dunford. 8.45: Clarinet solo, Mr. S. E. Munday: "Le Cygne."-The Swan (Saint-Saens).

8.50: Mixed vocal quartet: "Bring Us Good Ale" (Holst).

8.54: Weather Report.

8.56: Overture.

9.4: Contralto songs, Miss Nellie Lowe: (a) "Two Eyes of Grey" (Mc-(Geoch); (b) "Ma Curly Headed Baby" (Clutsam).

9.10: Instrumental trio, Christchurch Broadcasting Trio: "Hymn to the Sun" (Rimsky-Korsakov). "Spanish Dance No. 4" (Moskowski).

9.18: Recitations, Mr. Hiram Dunford: "When You Feel All Right," (b) "Bad Luck for the Girls."

9.25: Operatic choral items, La Scala Opera Chorus: (a) "Soldiers' Chorus" from "Faust" (Gounod); (b) "La Sonnambula" (Bellini), H.M.V.

9.33: Baritone songs, Mr. A. G. Thompson; "Blow, Blow Thou Winter Wind" (Sargeant), "The Strolling Player" (Trotere).

9.5.1: Clarinet solo, Mr. S. E. Munday: "The Toreador's Song," from "Carmen" (Bizet).

9.48: Tenor and baritone duet, The Dulcet Duo: "The Moon Hath Raised Her Lamp Above" (Benedict). Mixed Quartette, The Dulcet Quartet: "In This Hour of Softened

Splendour" (Pinsuti).

Announcement.

"God Save the King."

#### 4YA, DUNEDIN (463 METRES), WEDNESDAY, SEPTEMBER 12.

7 p.m.: Town Hall chimes.

7.1: Request gramophone concert.

7.40: News session, Burnside stock sales report.

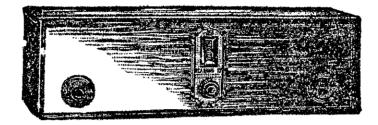
8.0: Town Hall chimes.

Orchestral music relayed from the Octagon Theatre, under the direction of Monsieur Henri de Rose, M.B.

8.10: Humorous songs, Mr. Chris. Harlie: (a) "As Soon as They Heard My Voice" (Castling): (b) "It's a Bir ' (Foley).

8.18: Piano-accordion solo, Mr. E. Heaney: Selected.

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- 8.21: Light mezzo-soprano solos, Miss Betty Roberts: (a) "Roses of Picardy" (Haydn Wood); (b) "Grow Little Mushroom Grow" (Miler).
- 8.27: Humorous sketch, Miss Sheila Neilson and Mr. J. B. McConnell: Selected.
- 8.37: Popular song hits, Dunedin Banjo Trio: (a) "Ramona" (Wayne); (b) "Until To-morrow" (Van Alstyne); (c) "Freshie" (Grier).
- 8.47: Humorous Scottish song, Mr. Buster Brown: "The Wedding of Sandy McNab" (Lauder).
- 8.51: Saxophone solo, Mr. J. McCaw: "Serenata" (Moszkowski).
- 8.54: Popular song hits, Miss Thelma Blackman: (a) "Some Sunny Day" (Berlin); (b) "After I Say I'm Sorry" (Lyman).
- 9.2: Weather report and forecast. 9.4: Orchestral music from the Octagon Theatre.
- 9.12: Humorous song, Mr. Chris, Harlie, "How We Laugh" (Andrews),
- 9.15: Piano-accordion solos, Mr. E. Heaney: (a) "Auld Robin Gray"; (b) "Woodland Flowers" (traditional).
- 9.22: Mezzo-soprano solo, Miss Betty Roberts, "Here's to Love" (Rubens).
- 9.26: Humorous sketch, Miss Sheila Neilson and Mr. J. B. McConnell. 9.36: Popular song hits, Dunedin Banjo Trio: (a) "After the Storm" (Nelson); (b) "Cherrio" (Vibo); (c) "Home, Sweet Home" (Messiri); (d) "To-night's My Night with Baby" (Butterworth).

  9.46: Humorous Scottish songs, Mr. Buster Brown: (a) "Bonnie Lizzie"
- Lindsay" (Lauder); (b) "It's Nice to Get Up in the Morning" (Lauder).
- 9.53: Saxophone solos, Mr. J. McCaw: (a) "Calico Rag" (Johnson); (b) "Saxophone Waltz" (Disk).
- 9.59: Popular song, Miss Thelma Blackman: "In a Little Garden" (Iola),

10.4: Close down.

# Thursday, September I3

1YA, AUCKLAND (333 METRES), THURSDAY, SEPTEMBER 13.

3 p.m.: Afternoon session—Selected studio items.

- 3.30: Talk on "Gas Cooking" by Gas Company's representative
- 3.45: Further studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Studio items.
- 4.25: Sports results.
- 4.30: Close down.
- 6.0: Children's hour conducted by Peter Pan, assisted by pupils from Bayfield School, in part-songs, recitations, and solos. Letters and birthdays. Bedtime stories.
- 7.15: News and market reports.
- 8.0: Chimes.

- 8.1: Orchestral: Parsifal Prelude" (Wagner).
  8.9: Vocal trio, The Casino Trio: "The Viking Song" (Coleridge-Taylor).
  8.13: Instrumental trio, Ingall's Hawaiian Orchestra: (a) "Kawaihau Waltz"; (b) "Waikiki Medley" (arr. Ingall).
- 8.23: Tenor solo, Mr. T. Moffatt: "Obstination" (Fontenailles).
- 8.27: Dialogue, Messrs. T. Harris and J. Mackie: "Shylock and Antonio," from "Merchant of Venice" (Shakespeare).
- 8.33: Soprano solo, Miss Dorothy Youd: "Blackbird's Song" (Scott).
- 8.37: Instrumental trio, Auckland Trio: "Rondo from Trio in B Flat" (Schubert).
- 8.46: Saxophone solo, "Saxanola" (Doerr).
- 8.50: Contralto solo, Miss Martha Williamson: "Cradle Song" (Somerville).

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- 8.54: Orchestral, Ingall's Hawaiian Orchestra: (a) "Three o'Clock in the Morning" (Robledo); (b) "Hanalei Bay."
- 9.2: Weather forecast.
- Tenor solo, Mr. J. Moffatt: "Si Mes Vers Aviant" (Hahn).
- 9.7: Talk by Mr. Culford Bell on "Great Authors."
- 9.17: Orchestral, "Madame Pompadour Selection" (Fall).
- 9.25: Soprano solo, Miss Dorothy Youd: "Pierrot at the Dance" (Drum-
- 9,29: Violin solo, Miss Ina Bosworth: "Serenade" (Drdla).
- 9.33: Humour, The Hebrew Two: "Conversation on Evolution." 9.40: Instrumental trio, Auckland Trio: "Serenata" (Moszkowski).
- 9.48: Contralto solo, Miss M. Williamson: "The Auld Hoose" (Old Scottish).
- 9.52: Saxophone solo, "Valse Hilda" (Doerr).
- 9.55: Orchestral, Ingall's Hawaiian Orchestra: (a) "Hilo Waltz Melody" (arr. Ingall); (b) "Hawaiian Echoes" (Roberts).
- 10.2: Vocal trio, The Casino Trio: "When the Swallows Homeward Fly"
- 10.6: God Save the King.

#### 2YA, WELLINGTON (420 METRES), THURSDAY, SEPTEMBER 13,

- 3 p.m.: Chimes of the General Post Office clock, Wellington.
- 3.1: Selected gramophone items.
- 4.30 and 4.55: Sporting results to hand.
- 5.0: Close down.
- 6.0: Children's hour conducted by Aunt Gwen. Nursery rhymes. Recitation, Cousin Molly, "Bedtime" (Vandegrift). Story, Cousin Betty. Birthdays, Aunt Gwen. Song, Cousin Betty, "A Song of Roses" (Wright). A trip to the Zoo: Big Cousin Vermont imitates birds and animals. Song, Cousin Betty, "An Arcadian Lullaby" (Krogmann). Recitation, Cousin Molly, "The Tale of a Dog and a Bee" (Anon.).
- 7.0: News session, market reports and sports results.
- 7.40: Lecturette, Mr. Ashcroft Edwards, "Of Interest to Motorists."
- 8.0: Chimes of the General Post Office clock, Wellington. Studio concert by Wellington Municipal Tramways Band (conductor, Mr. T. Goodall), assisted by 2YA artists.
- 8.1: March and overture, Wellington Municipal Tramways Band: (a)
  "Cameronians" (Lovell); (b) "Don Giovanni" (Mozart),
  8.12: Tenor solos, Mr. Charles Williams: (a) "Mountain Song" (Corder);
  (b) "Bright are the Tiny Billows" (Schirmer).
- 8.19: Vocal quartet, The Lyric Quartet: "In Absence" (Buck).
- 8.23: Euphonium solo with band accompaniment, Bandsman L. Claydon:
  "The Gipsy's Warning" (Hartman).
  Waltz, Wellington Tramways Band: "A Waltz Dream" (Strauss).
  8.36: Baritone solos, Mr. Will Goudie: (a) "Romany Road" (Dickson); (b)
- "Can't Remember" (Goafley).
- 8.43: Elocution, Miss Effie Bryce: "The Burglar" (Anon.). 8.49: Selection, Wellington Tramways Band: "Faust" (Gounod).
- 8.59: Weather report and announcements.
- 9.1: Quartets, The Lyric Quartet: (a) "Go Ask Papa" (Parks); (b) "We Laid Our Little One Away" (Oakley).
- 9.7: Pianoforte solo, Mr. C. Howard: "Wiener Blut" (Strauss). Singers" (Lane Wilson).
- 9.15: Messrs. Chas. Williams and Will Goudie, ballad.
- 9.19: Air varie, Wellington Municipal Tramways Band: "Eventide" (Rim-
- 9.29: Elocution, Miss Effie Brice: "The Haunted Mere" (Walter de la Mare).
- 9.34: Vocal quartet, The Lyric Quartet: "They Kissed" (Hawley).
- 9.38: Bass solos, Mr. W. Binet Brown: (a) "When Song is Sweet" (Sans Souci); (b) "The Ringers" (Lohr).
- 9.45: Quartet, The Lyric Quartet: "Negro Lullaby."
- 9.49: Selection and March, Wellington Tramways Band: "Merry Wives of Windsor" (Nicolai); (b) "The Toilers" (Moss).
- 10.0: National Anthem.

#### 3YA, CHRISTCHURCH (306 METRES), THURSDAY, SEPTEMBER 13.

- 3 p.m.: Afternoon session—Selected studio items.
- 4.30: Close down.
- 6.0: Children's session conducted by Chuckle and Aunt Pat-Stories and birthday greetings. Half-an-hour's programme by St. Michael's Choir-boys under the direction of Mr. Vernon Griffiths.
- 7.15: News session.

Suite-Grieg).

- 7.30: Talk.
- 8.0: Chimes.
- 8.1: Overture.
- 8.7: Baritone solos, Mr. Clive Hindle: (a) "She Alone Charmeth My Sadness" (from "Irene"-Gounod); (b) "Femme Sensible Ontends Tu" (from "Arcodant"-Mehul),
- 8.15: Orchestral suite, "Dance Macabre" (Saint Saens), H.M.V. Record,
- 8.23: Contralto solo, Mrs. Ann Harper: "Carilnoghi" (Donizetti).
- 8.27: Tenor solo, Mr. Harold Prescott: "Land of My Fathers" (from "Lucia di Lammermoor"—Donizetti). Andaluza" (Sarasate); (b) "Anitra's Dance" (from "Peer Gynt"
- 8.31: Orchestral selections, Studio Orchestra: "Serenade," (a) Romanga.
- 8.46: Soprano solo, Madame Gower-Burns: "Teachea La Notte" (from "II Trovatore"—Verdi). 8.50: Recitals (to music and without), Miss Winifred Smith: (a) "Old
- Pierrot" (Levey); (b) "The Pathway of Gold" (Greene).
- 8.55: Ballet, Studio Orchestra: "Coppelia Ballet" (Delibes).

- 9.5: Tenor and baritone duet: Grand Opera Duo: "Rudolph and Marco" (from "La Boheme"-Puccini).
- 9.9: Weather forecast.
- 9.11: Overture, Studio Orchestra: "Hungarian March" (Berlioz).
- 9.21: Contralto solo, followed by soprano solo Mrs. Ann Harper and Madame Gower-Burns: (a) "L'Esperto Nocciero" (Bononcini); (b) "Hinemoa" (from "Hinemoa"—Alfred Hill).
- 9.28: Instrumental trio (violin, 'cello, and harp: "Serenade of Olden Time" (Silvestri), Zonophone record EE79.
- 9.32: Baritone solo, Mr. Clive Hindle: "Eri Tu Che" (from "Un Ballo in Maschero"-Verdi).
- 9.36: Selection, Studio Orchestra: "Second Sullivan Selection" (Sullivan). 9,46: Tenor solo, Mr. Harold Prescott: "Siciliana" (from "Cavalleria Rus
  - ticana"—Mascagni).
- 9.50: Recital, Miss Winifred Smith: "The Doom of the Stephanus" (from
- "The Sign of the Cross"—Barrett).

  9.56: Soprano and contralto duet, followed by quartet, Madame Gower-Burns and Mrs. Ann Harper, followed by Grand Opera Quartet-(a) "Madame Butterfly and Suzzuki" (from "Madame Butterfly" —Puccini); (b) Quartet from "Rigoletto" (Verdi). "God Save the King."

#### 4YA, DUNEDIN (463 METRES), THURSDAY, SEPTEMBER 13. SILENT DAY.

# Friday, September 14

#### IYA, AUCKLAND (333 METRES), FRIDAY, SEPTEMBER 14.

- 3 p.m.: Afternoon session--Selected studio items.
- 4.0: Literary selection by the Announcer.
- 4.8: Further studio items.
- 4.25: Sports results.
- 4.30: Close down.
- 6.0: Children's session conducted by Nod and Aunt Jean. Duet, Veni and Adele de Marr. "Very Suspicious." Recitation, Edna de Marr: "And So Was I." Letters and birthdays. Duet, Veni and Adele de Marr, "The Backward child." Bedtime stories. Song, Aunt Jean, "Good-night."
- 7.15: News and market reports.
- 7.45: Close down.
- 8.0: Chimes.
- 8.1: Orchestral: "Orfee Aux Enfers" Overture (Offenbach).
- Vocal quartet, The St. Andrew's Quartet, "Madrigal" from "Ruddigore" (Sullivan).
- 8.14: Wurlitzer Organ, "Forgive Me" (Yellen).
- 8.18: Tenor solo, Mr. R. Peter: "The Gentle Maiden" (Somerville).
- 122: Instrumental trio, Auckland Trio: "Overture to Flying Dutchman"
- 8.31: One-act comedy, Auckland Comedy Players, under the direction of Mr. J. F. Montague: "The Plumbers."
- 8.51: Vocal duet, Miss L. Solomon and Mr. R. Peter: "I Know a Maid" (from Ruddigore"—Sullivan).
- 8.55: Cornet solos: (a) "At Dawn" (Code); (b) "At Sunset" (Code).
- 9.2: Weather forecast.
- Contralto solos, Miss Phyllis Gribbin: (a) "Trees" (Rasbach); (b) "To Music" (Schubert).
- 9.9: Orchestral, "Die Fledermans Selection" (Strauss).
- 9.17: Bass solo, Mr. Arthur College: "I'm a Roamer" (Mendelssohn).
- 9.22: 'Cello solo, Miss Molly Wright: "Andantino" Martini).
- 9.26: Soprano solo, Miss L. Solomon: "Bird Songs" (Lehmann).
- 9.30: Wurlitzer Organ, "Russian Lullaby" (Berlin).
- 9.33: Sketch, Auckland Comedy Players: "A Want of Harmony."
- 9.45: Duet, Miss Gribbin and Mr. College: "There Grew a Little Flower" (from "Ruddigore"—Sullivan).
- 9.49: Instrumental trio, Auckland Trio: (a) "Serenade" (Widor); (b) "Waltz" (Elkin).
- 9.57: Vocal quartet, St. Andrew's Quartet: "Thanks be to God" (arr. Churchill).
- 10.1; "God Save the King."

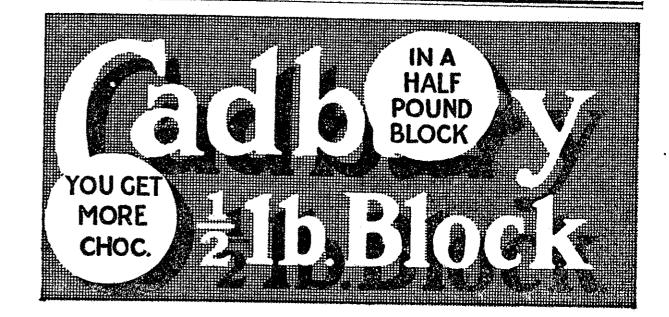
#### 2YA, WELLINGTON (420 METRES), FRIDAY, SEPTEMBER 14.

- 3 p.m.: Chimes of the G.P.O. clock.
- 3.1: Selected gramophone items. 4.30 and 4.55: Sports results to hand.
- 5.0: Close down.
- 6.0: Children's session conducted by Uncle Ernest—Song, Cousin Ailsa, "All the Tears that Children Shed" (Arundale). Cousin Babs, "Berceuse" (Chopin). Birthdays, Uncle Ernest. Song, Cousin Joyce, "Up in the Sky" (Arundale). Piano solo, Cousin Babs, "Musical Box" (Severae). Song, Cousin Ailsa. "White Bird" (Arundale). Story, Uncle Ernest. Song, Cousin Joyce, "Almond Blossom" (Arundale). Good-night poem.
- 7.0: News session, market reports and sports results.
- 8.0 Chimes of the G.P.O. clock.
- 8.17 Overture, the Orchestra: "Gluck Overture" (Suppe). 8.10: Trio—The Etude Trio: "Breathe Soft, Ye Winds" (Paxton).
- 843: Soprano solo, Miss Gretta Stark: "On Mighty Pens" (from "The Creation"—Haydn).
- 8.17: Instrumental, the Orchestra: (a) "Coronach" (MS.); (b) "Passepied" (from "Le Roi S'Amuse"—Delibes): (c) "Minuetto All'antico" (Karganoff).

- 8.28: Baritone solo, Mr. Ray Kemp: "King Charles" (White). 8.32: Recitals, Mr. Lionel Inch: (a) "Ballad of the Clampherdown" (Kipling); (b) "Bugler Allen" (Taylor).
- 8.39: Tenor solos, Mr. Frank Skinner: (a) "Mignon" (d'Hardelot); (b) "Sylvelin" (Sinding).
- 8.45: Organ solos: (a) "The Question" (Wolstenholme); (b) "The Answer" (Wolstenholme)—H.M.V. Record E415.
- 8.53: Vocal duet, Miss Gretta Stark and Mr. Ray Kemp: "Of Fairy Wand" (from "Maritana"-Wallace) (by request).
- 8.58: Weather forecast.
- 8.58: Weather forecast.
- 9.0: Instrumental, the Orchestra: Request number.
- 9.8: Scena, Etude Quartet: "He Has Called Her" (from "The Legend of Nerbudda"-Bath).
- 9.13: Instrumental, the Orchestra: "Caravan in the Desert" (Niemann).
- 9.17: Baritone solo, Mr. Ray Kemp: "Arab Song" (Bemberg). 9.21: Minuet, the Orchestra: "Celebrated Minuet" (Boccherini).
- 9.26: Recitals, Mr. Lionel Inch: (a) "Bannerman Rode the Grey" (Paterson); (b) "An Old Sweetheart of Mine" (Harris).
- 9.33: Contralto solos, Miss Rita Arnold: (a) "Habanera" (from "Carmen" (Bizet); (b) "Angels Guard Thee" (Godard),
- 9.39: Instrumental, the Orchestra: "Ascanio Ballet Music," Part 1 (Saint-Saens)-(1) "Entry of the Master of the Games," (2) "Venus, Juno, and Pallas," (3) "Diana, Wood-Nymphs and Water-Nymphs," (4) "Bacchus and the Bacchantes," (5) "A Vision of Phoebus Apollo, and the Nine Muses," (6) "Phoebus and the Harp and Cupid." (Saint-Saens makes great use of the woodwind in this ballet of the gods, and the second number is particularly notable for the brilliant flute solo, played by Signor Truda.)
- 9.53: Vocal quartet, Etude Quartet: "See Our Oars" (Stevenson).
- 9.56: Light opera selection, the Orchestra: "Ruddigore" (Sullivan). 10.6: God Save the King.

#### 3YA, CHRISTCHURCH (306 METRES), FRIDAY, SEPTEMBBER 14.

- 3 p.m.: Afternoon session—Selected studio items.
- 6.0: Children's hour-Opening chat and story for the Tiny Tots by Big Brother. Songs by Cousin Dorothy, "The Sugar Plum Tree." Choruses by Shirley Juvenile Choir, "Merry Sunbeams," "The Song of the Lark," "Good-bye." Birthday greetings. Recitations by Cousins Ralph, Selwyn, Nola, and Kathleen, "The Poet's Corner," "What the Choir said about the New Bonnet," "Bad Sir Brian." Playette, "The 'Sorry-for-it' Society."
- 7.15: News session.
- 7.30: Football review by Mr. J. K. Moloney.
- 8.0: Chimes.
- Vocal excerpts from musical play "Going Up" (by Hirsch) and popular programme.
- 8.1: Rebroadcast of 2YA, Wellington (conditions permitting).
- 8.7: Opening chorus followed by bass solo and chorus-The Radiolians and Mr. W. J. Richards: "I'll Bet You" (Hirsch).
- 8.14: Violin solo, Miss Irene Morris: "Air from Concerto" (Goldmark).
- 8.18: Contralto and bass duet, Radiolian Duo: "I Want a Boy" (Hirsch). Soprano and contralto duet, Radiolian Duo: "If You Look in her Eyes" (Hirsch).
- 8.25: Instrumental trio, Christchurch Broadcasting Trio: "Presto" (Hammel). 8.33: Tenor solo and chorus, Mr. Gregory Russell and Radiolians: "Going
- Up" (Hirsch).
- 8.37: Trumpet solo, Mr. Percy Reeves-"Carnival de Venice" (Arban).
- 8.42: Contralto and tenor duet, Miss M. Russell and Mr. Gregory Russell: "The Touch of a Woman's Hand" (Hirsch).
- 8.46: Recitations, Mr. R. R. Wills: "Swandalaya" (South Sea Island love story—Townsend).
- 8.50: Wurlitzer Organ solo: "After I've Called You Sweetheart" (Little). 8.54: Tenor and bass duet, Radiolian Duo: "Down, Up, Left, Right" (Hirsch).
- 8.58: Weather report.
- 9.0: Overture, "Going Up." 9.9: Soprano and bass duet, Radiolian Duo: "Do It for Me" (Hirsch).
- Soprano solo and chorus, Radiolian Duo: "Tickle Toe" (Hirsch). 9.17: Violin solo, Miss Irene Morris: "Aubade" (D'Ambrosio).
- 9.21: Soprano and tenor duet, Mrs. Claris Shaw and Mr. Gregory Russell: "Kiss Me" (Hirsch).



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3.25: Instrumental trio, Christchurch Broadcasting Trio: (a) "Barcarolle"
       (Tschaikowsky); (b) "Scherzo" (Gade).
9.33: Scene and chorus: The Radiolians.
9.37: Trumpet solo, Mr. Percy Reeves: "Coming thro' the Rye" (Rimmer).
9.42: Chorus, Radiolians: "Hip Hooray" (Hirsch).
9.46: Humorous recitations, Mr. R. R. Wills: (a) "The German on the
Telephone"; (b) "Carlotta Mia" (humorous Italian love story).
9.53: Wurlitzer Organ solo: "Just a Memory."
9.57: Bass solo and chorus, followed by finale-Mr. W. H. Richards and
          Radiolians: "There's a Brand-new Hero" (Hirsch); "You Start
          to Sway" (Hirsch).
      Announcement.
      God Save the King.
      4YA, DUNEDIN (463 METRES), FRIDAY, SEPTEMBER 14.
3 p.m.: Town Hall chimes.
3.1: Gramophone concert.
3.15: Fashion talk by Miss Buccleuch, of the D.S.A., Ltd.
3.30: Afternoon-tea music from the Savoy.
3.45: Studio music.
4.0: Music from the Savoy.
4.15: Gramophone selections.
4.25: Sporting results.
4.30: Close down.
6.0: Town Hall chimes.
6.1: Children's hour, conducted by Aunt Sheila and Big Brother Bill. The
          Happy Folks' Anthem. Greetings, riddles, and jokes. Concerted
          item by Musselburgh School. Storytime for chickabiddies: Aunt
          Sheila. Concerted item by the Musselburgh School. Letters,
          birthdays, and Radio Postie. Concerted item by the Musselburgh
          School. Aunt Sheila and Big Brother Bill talk about animals
          that used to live on the earth. Concerted item by the Musselburgh
          School.
7.15: News session.
8.0: Town Hall chimes.
8.1: Orchestral selection.
8.10: Mezzo-soprano solos, Miss Molly Vickers: (a) "Oh, No, John" (tradi-
tional); (b) "Salaam" (Lang).
8.16: Recitation, Miss Madge Yates: "The Storming Party" (Doyle).
8.20: Baritone solo, Mr. L. M. Cachemaille: "Sea Fever" (Clarke).
8.24: Cornet solos, Mr. George Christie: (a) "Tranquility" (Hume); (b)
          "Romance" (Jenkins).
8.30: Mezzo-soprano solo, Miss Molly Vickers: "My Rose" (Lacey).
8.34: Recitations, Miss Madge Yates: (a) "The Chicken"; (b) "The Old
          Stage Queen."
8.42: Pianoforte solo, Mrs. Ernest Drake: "Nocturne" (Chopin).
8.46: Baritone solos, Mr. L. M. Cachemaille: (a) "Waiata Poi" (Hill); (b)
"Uncle Rome" (Homer).
8.52: Cornet solo, Mr. George Christie: "The Mocking Bird" (Cox).
8.59: Weather report and forecast.
9.2: An hour's dance music from the Savoy by Alf. Carey and his orchestra.
10.2: Close down.
     Saturday, September 15
   1YA, AUCKLAND (333 METRES), SATURDAY, SEPTEMBER 15.
2.45: Relay description of Rugby football match, Mr. W. J. Meredith,
            announcer.
3 p.m.: Afternoon session—Selected studio items.
4.0: Literary selection by the Announcer.
4.8: Further studio items.
4.30: Close down.
6.0: Children's hour, conducted by Cinderella. Song, Cousin Doreen, "Mr.
          Nobody." Piano solo, Cousin Dick: "Tarantelle" (McDowell).
          Letters and birthdays. Song, Cousin Doreen, "Twinkle, Twinkle,
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Little Star." Recitation, Cousin Dawn (selected). Piano solo, Cousin Dick, "Shepherds' Dance" (German). Bedtime stories. 7.15: News and market reports.

8.0: Chimes.

8.1: Orchestral, "Italians in Algiers" (Rossini).

8.9: Vocal quartet, The Lyric Quartet: "Ukulele Dream Girl" Crowther).

8.13: Tenor solo, Mr. H. Richards: "My Laddie" (Thayer). 8.17: Banjo solo, "Unconquered" (Pidoux). 8.21: Bass solo, Mr. E. Thomas: "Chorus, Gentlemen" (Lohr).

8.26: Concertina, "Impudence" (Macay).

8.30: Vocal quartet, The Lyric Quartet: "Soldier's Farewell" (Kindel).

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8.34: Orchestral, "Rhapsody in Blue."
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8.42: Tenor solos, Mr. A. Ripley: (a) "A Memory" (Parkes); (b) "The

Star" (Rogers).

8.47: Banjo solo, "A Plantation Episode" (Grimshaw). 8.51: Vocal duet, Messrs. Richards and Thomas: "Fairings" (Martin). 8.55: Concertina, "Poppies" (Moret).

8.59: Weather forecast.

9.0: Humour, Mr. A. McElwain: "Some Humour."

9.5: Vocal quartet, The Lyric Quartet: "Some Folks Say" (Huntly). 9.9: Relay of dance music from Mason Hall Dance Orchestra under Mr. Edgar Bendall.

11.0: God Save the King.

#### 2YA, WELLINGTON (420 METRES), SATURDAY, SEPTEMBER 15.

3 p.m.: Relay description of Rugby representative football match. Nelson v. Wellington, from Athletic Park.

6.0: Children's session-Aunt Gwen, Uncle Toby, and pupils of Mrs. Theo. Monologue, Cousin Marjorie: "Leetle Rosa" (Anon.) (second junior test under 16 years, Wellington Competitions, 1928). Birthdays, Aunt Gwen. Monologue, Cousin Audrey, "Old Chap" (Anon.). Birthdays, Uncle Toby. Song, Cousin Jim, "I Hear You Calling Me" (Marshall). Recitation, Cousin Maisie, "Bedtime" (second character recital, Wellington Competitions, 1928). Recitation, Cousin Peter: "Mr. Brown Gets His Hair Cut" (first prize winner, Wellington Competitions, 1928). Song, Uncle Recitation, Cousin Joyce, "Little Helper" Toby (selected). (Anon.) (first girls' test under 9 years, 81 competitors, 6 years Mouth-organ solo, Uncle Toby (selected). Recitation, Cousin Ian, "The Boy with the Pony" (Anon). Good-Night song.

7.0: News session, market reports and sports results.

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

8.1: Overture, the Orchestra: "Bing Boys" (Ayer-Baynes).

8.11: Vocal quartet, Melodie Four: "Lay My Head Beneath a Rose" (Falkenstein) (by request).

8.15: Tenor solos, Mr. Frank Bryant: (a) "My First Love" (Lohr); (b) "You'd Better Ask Me" (Lohr). 8.21: Entertainment piano, Will Gardner: (a) "That's Another One Gone"

(from "Phi Phi"—Darewski); (b) "A Little Bit of Heaven" (Polyglot version, Gardner)—Zonophone record 5079. 8.27: Baritone solo, Mr. R. S. Allwright: "The Village Blacksmith" (Weiss).

8.31: Instrumental, the Orchestra (request number). 8.39: Humour, Mr. Geo. Titchener: "I Am Sure I'll Sleep Well To-night"

8.46: Vocal quartet, Melodie Four: "Johnny Schmoker" (Dix). 8.50: Instrumental, the Orchestra: "The Street Singer" (Fraser-Simpson).

9.0: Weather forecast. 9.2: Tenor solos, Mr. Sam Duncan: (a) "A Dream" (Bartlett); (b) "There

is a Flower that Bloometh" (from "Maritana"-Wallace),

9.9: Jazz piano solos—(a) "The Dancing Tambourine" (Ponce-Polla); (b) "The Doll Dance" (Brown)—Zonophone record EE98.

9.15. Mr. George Titchener: "Pass the Salt."

9.22: Minuet and song, the Orchestra: (a) "Minuet in G" (Paderewski); (b) "Chanson Joyeuse" (Ravena).

9.32: Vocal quartet, Melodie Four: "So Blue" (De Sylva, Brown and Hen-

9.36: Instrumental, the Orchestra: "Three Spanish Dances" (Moszkowski). 9.46: Bass solos, Mr. W. W. Marshall: (a) "Who Keep the Sea" (Breville-Smith); (b) "Friendship" (Harvey).

9.53: Instrumental, the Orchestra: Dance numbers.

10.3: Dance programme.

11.0: Close down.

#### 3YA, CHRISTCHURCH (306 METRES), SATURDAY, SEPTEMBER 15.

2.45 p.m.: Relay description of Rugby football match-New South Wales versus New Zealand-from Lancaster Park (Third Test).

6.0: Children's session, conducted by Uncle Sam. Story for the Tiny Tots, Uncle Sam. Songs, Cousin Francis, "In a Little Old Garden,"
"Stay With Me, Summer." Birthday greetings. Recitations,
Cousin Dorothy, "On the Bus Top," "Miss Dorothy Enters the
Ministry," "The Sad Fate of Mrs. Medders." Story-time, Uncle Sam, "The Secret Garden" and "The Settler of Serpent Creek,"

7.15: News session.

7.30: Sports results.  $\cdot$ 

8.0: Rebroadcast of 2YA, Wellington, including dance music programme.

11.0: God Save the King.

#### 4YA, DUNEDIN (463 METRES), SATURDAY, SEPTEMBER 15.

2.45 p.m.: Relay from Carisbrook ground of description of inter-provincial football match, Wellington v. Otago.

7.15: News session.

7.30: Lecturette, under auspices of W.E.A.

8.0: Town Hall chimes.

8.1: Orchestral selections from the Strand Theatre, under the baton of Mr. L. D. Austen.

8.15: The 4YA Harmonists present selections from the musical comedy, "Kissing Time" (Caryll). Soprano ...... Miss Roma Buss

Mezzo-soprano ..... Miss Mollie Andrews Tenor ..... Mr. C. C. Scott Baritone ..... Mr. F. M. Tuohy Act L

Opening chorus. Soprano solo—"Godmothers." Baritone solo—"My Motors."

Mezzo-soprano, tenor, and baritone trio—"A Happy Family."

Mezzo-soprano solo—"Some Day Waiting Will End."

Tenor solo—"Desertion."
Soprano, tenor, and baritone trio—"I Like It."

Mezzo-soprano and baritone duet—"Don't Fall in Love With Me."
Finale—Act I.

Pianoforte solos—Mrs. Ernest Drake, (a) "Intermezzo in C" (Brahms); (b) "Valse, Op. 64, No. 1" (Chopin).

Recitation—Miss Roberta Williams, "The Vicar's Presentation." Violin solo—Mr. A. R. Watson, "Spring Song" (Mendelssohn). Flute solo—Mr. J. W. Stewart, "The Little Flirt" (De Lorenzo).

Opening chorus.

Soprano, tenor, and baritone trio—"Oh, How Warm It Is, To-day." Baritone solo—"Women Haven't Any Mercy."

Mezzo-soprano and tenor duet—"Joan and Peter."

Mezzo-soprano solo—"Thousands of Years Ago."

Soprano solo-"Oh, My Cherie."

Mezzo-soprano and baritone duet—"There's a Light in Your Eyes." Finale—Act II.

Instrumental trio—(a) "I Dreamt That I Dwelt in Marble Halls" (Balfe); (b) "La Paloma" (Yradier).

Recitations—Miss Roberta Williams, (a) "The Three Crosses";

(b) "Hullo! What Are You Doing Here?"
 Flute solo—Mr. J. W. Stewart, "Spanish Serenade" (Popp).
 Violin solo—Mr. A. R. Watson, "Chant Sans Paroles" (Tschaikowski).

\* 10.0: God Save the King.

# Sunday, September 16

1YA, AUCKLAND (333 METRES), SUNDAY, SEPTEMBER 16.

3 p.m.: Afternoon session—Selected studio items.

4.0: Literary selection by the Announcer.

4.8: Further selected studio items.

4.30: Close down.

6.0: Children's service, conducted by Uncle Leo, assisted by cousins from the Greenlane Congregational Sunday School.

6.55: Relay of Divine service from the Church of Christ. Preacher, Mr. E. Aldridge. Organist, Mr. H. Knowles. Choirmaster, Mr. W. Thomson.

8.30: Relay of military band selections by Auckland Municipal Band, under the direction of Mr. Christopher Smith.

30: God Save the King.

#### 2YA, WELLINGTON (420 METRES), SUNDAY, SEPTEMBER 16.

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

4.30: Close down.

6.0: Children's Sunday service, conducted by Uncle Ernest, assisted by cousins from Cambridge Terrace Congregational Sunday School Choir.

7.0: Relay of evening service from St. Thomas's Anglican Church, Newtown. Preacher, Rev. C. V. Rooke, M.A. Organist and choirmaster, Mr. Wenzel Collie, L.L.C.M.

8.15 (approx.): Studio concert, arranged by Mr. Roy Hill.

Overture—"Egmont" (Beethoven).

Mezzo-contralto solo-Miss Ngaire Coster, "O, Rest in the Lord," from "Elijah" (Mendelssohn).

Trumpet and organ selection—"A Trumpet Voluntary" (Purcell). Bass solo—Mr. J. M. Caldwell, "Honour and Arms" (Handel). 'Cello, organ, and orchestra—"Solemn Melody" (Walford-Davies).

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Vocal quartet—Ariel Singers, ""This World is But a Fleeting Show" (Waley).

Overture-"Rosamund" (Schubert).

Soprano solo.—Miss Jeanette Briggs, L.A.B., "Rejoice Greatly," from "The Messiah" (Handel).

Symphony—"First Movement, Fifth Symphony" (Beethoven).
Vocal duet—Miss Ngaire Coster and Mr. J. M. Caldwell, "O, Love Divine" (Stainer).

Operatic selection—"Il Trovatore" (Verdi).

Tenor solo-Mr. Roy Hill, "How Vain is Man," from "Judas Maccabeaus" (Handel).

Band selection—"William Tell" Overture (Rossini).

God Save the King.

#### 3YA, CHRISTCHURCH (306 METRES), SUNDAY, SEPTEMBER 16.

3 p.m.: Recital from the studio of gramophone records, electrically reproduced.

4.30: Close down.

5.30: Children's song service, conducted by Uncle David, assisted by scholars from the Moorhouse Avenue Church of Christ Sunday School.

6.30: Relay of service from Church of Christ, Moorhouse Avenue. Preacher,
Pastor J. Crawford. Organist, Miss E. Hepburn. Choirmaster,
Mr. H. Ames.

7.45: (approx.): Recital from the studio of gramophone records, electrically

reproduced. 9.30: God Save the King.

#### 4YA, DUNEDIN (463 METRES), SUNDAY, SEPTEMBER 16.

5.30: Children's song service, conducted by Big Brother Bill, assisted by scholars from the Knox Church Sunday School.

6.30: Relay of service from the Hanover Street Baptist Church. Preacher, Rev. E. S. Tuckwell, M.A. Choirmaster, Mr. H. P. Desmoulins. Organist, Mr. Upton Harvey.

8.0: Sacred concert, arranged by Mr. Desmoulins, from the church.

9.15: Close down.

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#### ANSWERS TO CORRESPOND-ENTS.

W.H." (Westport): "There are two jacks on the panel of the receiver, one from each stage of audio. The jack at the back is from the second audio stages. It has not been stated which plug on the panel was used, but, presuming that phone strength was obtainable from the first audio jack and nothing from the two second-stage ones, it is evident that either the final audio valve or transformer is at fault. The valve may yet light, but be dead, as explained in the "Record" last week. Have it tested, likewise the transformer, if the valve is O.K."

A.R." (Hataitai).—The "Game of Life" will be given Monday, September 24.

'M.W." (Okaramio).—The list you require would involve well over a thousand names, some being stations heard only for a few miles. The list of those heard in New Zealand is available through our Listeners' Guide. ANE (Bandoeng, Java), operating on 31.93 metres (9395 kc.), is on the air from 10 p.m. till 12 midnight, Tuesdays and Thursdays. A 5-watt broadcaster is attached to this station and operates on 310 metres.

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General Appreciation.

FELT it my duty saying how write appreciated  $ext{the}$ session provided to listeners. It has idea of a programme:often occurred to me what a vast amount of work there is in collecting the latest news and musical programmes. Personally I think the wireless is the greatest boon to the country the world has ever known. It is just twelve months since I bought my wireless set, and I did not realise till then what beautiful music was put over the air.—J. F. Osborne (Nelson).

Sunday Concerts.

WE read of someone in the "Radio Record" of August 17 complaining about the Wellington Sunday concerts. Now I feel I must write our appreciation of them. We live in the country, and have quite a lot of listeners on Sunday nights who cannot get away early enough through the week to get to town for concerts early enough, and how they do enjoy the concerts on Sunday nights. I once heard a musician say that all music is sacred, and I agree with him, and convey my thanks to the contributors of 2YA, and hope we won't be cut out of our Sunday concerts, as I'm sure there are enough stations on the air to suit all tastes.— Housewife (Totara).

#### Sunday Afternoon Concerts.

I SHOULD like to express my appreciation of the Sunday afternoon concerts at 3YA. The records are so good and well chosen. I also congratulate the "Christchurch Broadcasting Trio" and the "Studio Orchestra," the first performance of the latter being very fine. I am unable to go out at night and the radio concerts give me many a pleasant evening.—S. E. Maude (Christchurch).

#### A Model Programme.

IN the current issue of the "Radio Record" I am taken to task as an "ignorant dealer" and practically told I would not know good music if I heard First, I am an old orchestral member; thirty years ago I used to play for Bland Holt, Pollard's Opera Co., Williamson Musgrove Opera Co., This disposes of my being able to appreciate good music. Second, I am no dealer, and what is more have no connection with any dealer or agents, but I always have visitors five or six nights a week. I always treat listeners as prospective buyers, and that will only take place if you do as advised in "Radio Record" of August 3, p. 32 and 33, except that I do not only tell others but I try to show others and thus widen the radio circle, etc. Third, the following is my idea of a stock programme and stock is right phrase as 2YA programmes are the cials for their decision to ban the same artists every week, with the broadcasting of races. Will this tend Thursday night band as an exception. to stop illegal betting? No, of course Some of them must have a lease of the not. Will the ban encourage people to studio and will not forego a single go to a meeting? If these gentlemen do not like any item my advice is item, as for example I wanted to hear wish to stop news from getting out think of those who do, and instead of in just as it was due, but a "barrow" disconnect all telephones leading from or switch in to a programme that does

much I and four items bracketed: if this is "Radio Record" not what we used to call stock proand the entertainment and news gramme, what is? Now this is my

- 1. Clock.
- "Overture 2. Overture—Orchestra, William Tell."
- 3. Songs at piano.
- 4. Violin solo, "Mendelssohn's Spring
- 5. Humorous item (song or recital). 6. Orchestra, "H.M.S. Pinafore," introducing "We Sail the Ocean
- Blue, "Little Buttercup." etc. 7. 'Cello solo, "Broken Melody" or "Barcarolle" ("Tales from Hoffman").
- 8. Violin, flute and piano, "Mocking Bird."
- 9. Songs at piano.
- 10. Humorous item.
- 11. Xylophone solo, "Legend of the Bells" ("Les Clotches de Corneville").
- 12. Pianoforte solo, Marche."
- 13. Orchestra (repeat item or encore). 14. Orchestra, "Blue Danube Waltz," Good night.

This type of programme would not require a galaxy of quartets and other artists as it only requires two artists outside the orchestra. Artists and instruments are in the studio. not use them?—J.K. (Trentham).

#### 2ZM, Gisborne.

WHILE thanking you for the space in this matter, I express sorrow for the impression conveyed that my receiver tuned in the above on the con- then would be. denser from 1 to 180. It does not, but different people owning first-grade expensive American sets affirmed that he interfered with Christchurch and Auckland transmissions. My object in writing was to get Mr. Stevens to tune his station to his allotted wavelength (for I consider he was tuned too high), and not to draw in other correspondents. I am fully aware of Mr. Stevens's capabilities, and know that he can yet improve his station so that it will not interfere. I have noted the visits to his place of a technical officer of the Telegraph Department, and I am pleased to say there has already been an improvement. A little further adjusting could be carried out yet. I am deeply sensible to the advantage of having a local station during the summer past Saturday nights. season, but that is no reason why we should be inflicted with a poor one all the remainder of the year when the owner has the ability to put things right.—A.K. (Gisborne).

A Country View of Racing Ban.

TAKE this opportunity of recording my protest against the racing offitone came through. Of course I pre- the course. The ban is all bunkum, as suit.

anyone can get a race result from any part of New Zealand within 30 minutes, and often within five minutes if the meeting is close. Take the country people. I live 80 miles from the nearest course, and attend only three meetings a year, and never bet off the course. Why should we be barred. I in future am going to keep away from the meetings. I bought a wireless set to bring sumed he had not finished his turn, town activities to my humble home to He is always well to the front, three surrounded with bush and a mud road (18 miles) in the bargain. Do the officials expect me to leave my daily work and attend their meetings? It looks like it. Can any of the gentlemen responsible for the bar say they have never bet off the course when a meeting has been held away from their town and they could not attend? Nuff said! I know many of these gentlemen turned their backs when the Heeney-Tunney fight was being broadcasted, and do they not enjoy listening to the football and boxing? I guess they do. If horse racing is the good clean sport that we are led to believe it is, why be ashamed to broadcast and let the Press get in first? One can get results within a short space of the running of a race without a radio, so why blackball the poor old thing?—Countryite.

#### Radio In the Country.

WE in the country have few amusements and, believe me, radio "Militaire proves a blessing. One often reads per medium of your mailbag various letters expressing dissatisfaction of programmes broadcast and of transmission of various stations. All I can say is that, to we poor country folk the programmes are A1, especially Saturday nights' transmission is good. My opinion is that the town folk are too well catered for in the way of amusement and consequently grow fastidious or else they require to purchase a decent valve set. The remedy I would suggest would be to send a few of them out on to a farm for a while and see what their complaints

> I also wish to express my disappointment of the attitude taken up by the Racing Conference re broadcasting of races. This, the broadcasting of races, was one of the main reasons why I purchased a powerful set. Being a Christchurch man, naturally my interests are centred there, and as my people are owners of race horses, I went in for an 8 valve set, which would get Christchurch in daytime. What now is my disappointment to hear of the conference's absurd prohibition of results.

> Allow me, per medium of your paper or otherwise, to thank the Boxing Association and also 4YA for excellent broadcasts of events at the ring on the We always have all boxing enthusiasts here whenever a match is on, and they, everyone of them, thoroughly enjoy them. The Tunney-Heeney fight came through very good and could be heard 50 yards away. We obtained same from Wellington and, believe me, the boxing fans had a day out that day.

In conclusion I must once again rexpress my satisfaction and appreciation of all programmes broadcast and also of your valuable paper. To those wh a special item one Tuesday and tuned quickly, why not stop the Press and complaining so much either switch off

A closing suggestion is that either in earlier hour for concert session or a half-hour broadcast of gramophone records say from 7.30 to 8, from one of the four stations would give great pleasure to country folk whose calling calls for early retiring.—E. B. Stevens (Whakatane).

#### The King's English.

IN your last issue Mr. Stuart W. Hunt is ever so willing to condone the announcer's mispronunciations and other mistakes, because he has a pleasant voice and cheerful manner. That is quite nice of Mr. Hunt, but it does not cure our squirms when we hear simple English words pronounced almost out of all recognition. Mr. Hunt tells us he likes the present announcer better than previous ones. Well, that's a matter of opinion. At least the previous announcer spoke cultured English in a man's voice, rich and full. That "pleasant voice and cheerful manner" seems to me to come over the air like a mother crooning her baby to sleep. His "Good night" reminds me even more so of the same thing.-Homo.

#### Mr. Howard and Race News.

I CAN only say you are wrong in your summary of my position re broadcasting. As a fact I took up the attitude that broadcasting is a news service, that the Government has no more right to interfere and say what shall be broadcast than they have to say what news shall go in a newspaper. that the matter of broadraces was purely  $_{
m the}$ casting between the domestic matter racing frathe B.C.C.  $\mathbf{and}$ ternity. Now get that point clear-my argument was that it was not a question for the Government.

It was urged by others that the Government should interfere and force the Racing Conference to allow racing to be broadcast. All right, once admit which should be cut right out. Hoping the right of the Government to do for more news and less rubbish. that and where will it stop? I hold the B.C.C. should be as free as the "Dominion" to publish what it likes.—

E. J. Howard. [Our point was that Mr. Howard showed no concern for the people being deprived of their just rights in news. It is not a question only between the Racing Conferences and the Broadcasting Company. It is a question of the rights of the public to news at the earliest moment after the event. In this case broadcasting is being refused the privileges of the Press, and an attempt made to suppress the distribution of news by one medium while permitting it at the same time by another. Mr. Howard's attitude is not

logical or democratic, and is opposed to the interests of a sport-loving people. Does he support the Racing Conferences in their demand for some of the few shillings of listeners? If broadcasting is a news service, as stated by him, why permit monopolistic and partial restrictions to operate against the people's interests?—Ed.]

#### 9XF Trying Out.

I MAVE just received a letter from 9XF stating that he will be testing out every Sunday evening our time from 7.30 to 10.30 with the call WENR on 288 and 240 metres, and wants reports on tests; he is using 50,000 watts.

Also, WLW will be on the air September 17, using 50,000 watts on 428 on their tests.—S. Ellis, Okato, D.X.

Best of the Week.

WOULD like to express my appreciabecause you have published one or two letters protesting against these broadthat these are the finest entertainments of the week. I make this assertion as one who is travelling in the radio business, demonstrating nightly, and coming into contact with practically every set owner in my districts. There is plenty of sacred music, etc., for those who want it, in the Children's Hour, services from N.Z. stations, and then from Australia. But it must not be overlooked that there is a large number of subscribers who do not want four or five hours of this. I think, however, that such concerts should not be relayed, which obliges many to listen to them or nothing.—C. J. Fleming (Auck-

#### Broadcasting Announcers.

WILLIAM FERGUSSON and others have complained of the quality of announcing from 2YA. Now, Sir, let me tell these critics that this Dominion is fortunate in the standard of its announcing. 3YA, Christchurch, and 1YA, Auckland, have announcers who will compare favourably with any announcers in the world, and that is saying a lot. The present announcer at 2YA is fair, but I feel sure will improve, and the man at 4YA is also good, so in my opinion the listeners in New Zealand are very fortunate. I would draw the attention of the company, however, to the fact that from 2YA the quantity of news is not as great as from the other stations, nor does the man at the microphone use as much discretion in what he puts over the air. If Mr. Coates attends a dog fight we get the fact the same evening supplemented with a five-minute talk, which is nothing more than propaganda, Listening-in (Rangataua)...

Unusual Station.

NOULD anyone give me the call sign of a station between 400 and 420 metres, which broadcasted a description of a boxing mach at 11.45 p.m. on August 25. I picked this station up, but bad fading and heavy static made me miss the call-sign. The announcer called one of the fighters "Marks" or "Markis," and said that no blood had been drawn and that the boxers were not warmed up.-C. Hodgson (Wai-

"Rubber Dolls."

HE announcers advice to listeners on the 20th instant is as follow:--"Radio sets are not rubber dolls, and they will not squeak unless they are squeezed." Well, sir, I think there must have been some rubber dolls at the studio on this date, and they were getting squeezed very much, for when the Instrumental Studio Trio were announced it took them fully one minute tuning in. It would make a person sick listening to them. I would like to know why the same man sings four songs on end? Why not give him a spell and let him get his breath, for the further he goes the worse he gets. -Constant Reader (Petone).

Well Satisfied.

THE new size of "Radio Record" is certainly a big improvement on metres: these two stations want reports the old style, and I wish to congratulate you. The souvenir number was

absolutely A1. I see some of your to demonstrate, as you cannot hold a correspondents are growling. All I tion of the concerts broadcast from can say is that some people are never Saturday is the busy day in a large 2YA on Sunday evenings. I do this satisfied. The programmes being put number of country towns, and all we over the air are voted first-class by all those of our friends who hear them. casts, and I am in a position to assure Anyone who is dissatisfied with them you that opinion is almost unanimous ought to give up listening in.—"Interested Listener" (Granity).

#### Ahead of Australia.

WOULD not be without this paper for double the price, as I consider alone are more than worth the subscription. I have constructed his fivevalve shielded "Browning Drake" and can hold 2FC at speaker strength all day. The programme of New Zealand stations are quite all right, but I 3 o'clock. In a farming community there is nothing to stop them tuning three, and dealers have not a chance (Ngaruawahia).

cow cocky in town after three. Again, get on that day is football, a poor thing to demonstrate with. I am not growling at the football broadcast, but a little music from, say, 2 till 3 would be a benefit.—G.L. (Inglewood).

#### 2YA The Favourite.

T HAVE read the criticisms in your paper one from Palmerston and "Megohm's" constructional articles one from Trentham, both running 2YA down and lauding Australia. Although 2YA fades here, on account of, I believe, earth condition, 2YA is everybody's favourite, and no doubt beats all the Australian stations, both in programme and clearness. However, if would like to see 2YA get going before these two listeners like Australia best the farmers are about from eleven till in there and staying there.-E.C.P.



# A Double-Roll Loud Speaker



ERE is a loudspeaker that will interest a great many listeners, especially those who are using horn-type speakers and wish to try the effect of

a cone type. This speaker will compare favourably with many cone speakers costing several pounds, and will outclass many in the reproduction of high notes, whilst still retaining the bass. If any constructor is not satisfied with clearness and faithfulness of according to the constructor's taste reproduction from this speaker, he may look for the trouble in his receiver, as the speaker has been constructed and tested by the writer on a receiver giving thoroughly clear and undistorted output, which was faithfully reproduced by the double-roll speaker now described.

#### The Driving Unit.

THE success of this speaker depends to a great extent upon being able to procure a suitable driving unit, and such is now available in the "omniphone" unit, which may be obtained has a hole drilled centrally near each from Harrington's (Ltd.) branches for 30s., plus 8d. postage.

This unit is primarily intended to place on tables, chairs, doors, etc., converting them at once into a loudspeaker diaphragm with surprising results, but an even better performance is obtained when the unit is made to drive a suitably constructed loudspeaker.

The unit is the well-known type in which a reed works between the two adjacent poles of a powerful permanent magnet, the whole being encased in a neat metal case, the driving spindle projecting from the end. On the end of the driving spindle is a knob together with either inch nails or \$in. which fits friction-tight, and may be screws, according to the style of work-

# Quality Reproduction of High and Low Notes with Great Volume

By Megohm

removed for attaching to a cone. for connecting up.

THE frame is of simple construction and may be finished and elaborated and ability. Soft wood is best for frames for speakers of this type, so O.B. rimu will be very suitable, and the thickness should be 3-8 inch. board 11½ x 32½ inches will provide material for the whole, excepting the piece to hold each side of the unit.

Three pieces are required 20 x 33 inches, two pieces 124 x 34 inches, and a small piece measuring  $5 \times 2\frac{1}{2}$  inches, this latter being used to clamp the unit down. To hold the unit in place two small pieces  $2\frac{1}{3} \times 1 \times 7-8$  inches will be required. These two are drilled near each end and well countersunk to take No. 6 1in. screws, and the 5-inch piece end to take similar screws. The object of the box-like frame is to assist in amplifying the deep notes, so that the 34 dimension should not be reduced, as the size given secures good even amplification. If more prominence is required for the deep notes, the sides of the frame may be made an inch or two deeper. If the back of the frame is left open, the speaker must be laid that the back is closed, but if the back is filled in with three-ply the speaker may be used anywhere.

The four sides of the frame are put

A manship being put in. The centre strip flexible cord of about six yards in which holds the unit is put in position length is furnished with 'phone tips after the unit has been attached to it, and must be secured to the short-ends of the frame by \$in. screws to facilitate removal if necessary. The side of this strip on which the unit is placed must be half an inch out of centre, so that the driving spindle of the unit occupies a central position, so that the space at one side will be five inches and the other side 6 3-8in.

#### Attaching the Unit.

THE unit is attached to the centre strip by fixing one of the short 7-8in, pieces of wood about 11in, out of centre, that is, in a position that allows the driving spindle of the unit to be ten inches from either end of the strip. Then a 3-8in, hole is to be drilled in the strip in a position to allow the flexible lead to be threaded through. Near the outlet for the cord on the unit there is a small projecting screw for which a depression must be made at the edge of the strip, and the unit will now lay snugly on the surface of the strip, with its beaded edge projecting. The other 7-8in. piece is pressed close against the other side, and secured with the screws. The 5in. piece is now secured to clamp the unit by means of a screw at either end of the 7-8in, piece underneath. A line horizontally or hung on the wall, so must now be drawn inside each end of the frame, 6 3-8in. from one side. This indicates the unit side of the centre strip, and on the 5in. side of these lines two holes are to be drilled in each end of the frame for the securing screws, which can then be put in, completing the body of speaker.

#### The Paper Diaphragm.

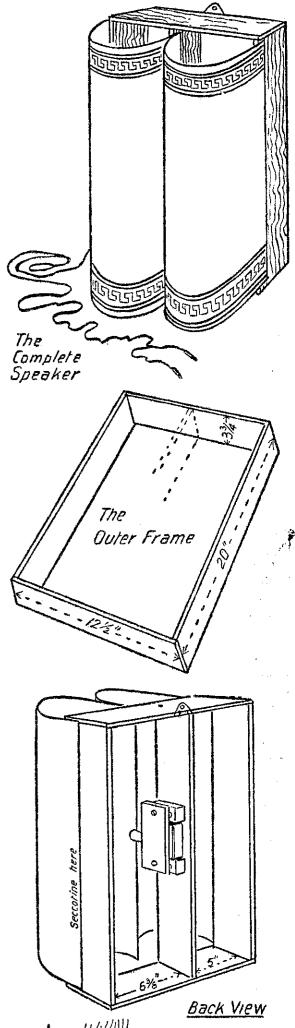
'HE diaphragm is made from special cone paper if procurable. Johns, Ltd., Auckland, stock a sheet 25 x 25 for 4s. 6d. If other paper is used it must be as non-resilient as possible, and the nearest approach is the paper used as a cover for booklets, etc., by printers. The sheet is to be trimmed to 20 x 25 for use.

Constructors in country towns will be able to get from the local printing office a sheet of heavy pamphlet cover paper, and if this is 20 x 25 it will do quite well. If the sheets are smaller, get two and cut them each to 20 x  $12\frac{1}{2}$ , joining the two edges to form the centre ridge by means of a half-inch joint of seccotine. Cover papers are often obtainable in attractive browns and greys, which considerably add to the appearance of the finished article. If the constructor is artistically inclined, embellishment may be added with Indian ink.

The sheet having been cut to size, it is folded in the centre by bringing the corners together, stroking the fold down with a paper-knife or other suitable tool. Then at the top and bottom of what are to be the outside edges, a pencil mark is made half-an-inch from the edge as a guide for attaching to

#### The Connecting Link.

CONNECTION between the unit and diaphragm is easily established by means of a cork not less than in. diameter, cut to a length of in. A



MNIPHONE

Hagara

Front View

Details of Double-Roll Speaker

Unit with Top and

Bottom Supports



hole is bored with an awl just slightly out of centre, to fit over the driving spindle, from which the small knob is removed. About 1-16in. from the hole a slit is made in the widest end of the cork about in. deep. The cork is now placed on the spindle, and the centre of the diaphragm gently worked into the slot, which can be slightly opened with the thumb, in order not to strain the reed of the unit. Now on one edge of the frame, spread seccotine to a width of exactly half-an-inch, not missing any portion. The best method of doing this is to put the seccotine on roughly from the tube, and then with a small folded piece of cardboard, spread the seccotine evenly, when the edge of the diaphragm may be applied, using the marks at the ends as a guide. The paper is carefully pressed down, care being taken to ensure that at the outer edge of the frame the paper adheres everywhere, as any unglued space is liable to cause unwanted vibration. The other end of the diaphragm is secured in the same way, and the speaker is ready for a trial run, which will be a revelation to listeners who have been accustomed to the more or less ordinary type of horn speaker.

As mentioned above, the speaker is capable of reproducing what the receiver is able to deliver. If the receiver gives crystal clarity, the speaker will reproduce it. If clear reception is not obtained, it will be a good cue to make improvements in the audio department of the receiver on lines that have been indicated from time to time

in this column.

If the last valve is "going off," that is, losing emission, it may give distortion that is easily mistaken for "rattle" in the speaker, and if the last walve is not a power valve equal to handling the volume the receiver is capable of giving, then overloading of this valve occurs, with the inevitable distortion, and impaired reproduction.

It should be noted that an essential point is to have the diaphragm about # inch shorter than the frame, so that when standing on a table, the lower edge of the diphragm is about ½ inch clear of the surface of the table.

If the diaphragm shows any tendency to sag, it should be supported by a thin rubber band attached inside the centre ridge about 2in. from the top, and over a small hook under the centre of the top of frame.

If a smaller unit is used to work the speaker, results in proportion to the capabilities of the unit are all that

must be expected.

The "omniphone" unit is also suited to drive a linen-diaphragm speaker as recently described.

to being placed (sideways) in a cupboard below the receiver.

An ingenious person could elaborate the frame to act as a protection to the ends of the rolls by enlarging the wood ends of frame to come out in rolls. A narrow ornamental edge of metal could then be fastened round, edges of rolls must not be allowed to or losing any of its energy. touch anything.

Linen-Diaphragm Speaker.

referred to as the "Air-chrome" market.

# A New "A" **Battery**

NEW type of A battery accumulator has been invented by a Portuguese Jesuit.

As far as can be gathered, the Almeida accumulator resembles the existing ones in so far as it has its positive and negative plates with a container and electrolyte, but it is much lighter, while the container itself can be made from a cheaper material than hitherto. The electrodes themselves are particularly interesting, the positive plate ing 200 volts, 30 milleamps from 240being a mixture of what may be termed a "passive" conductor and a small proportion of silver, the latter acting as a catalytic agent.

#### Not Expensive.

SINCE the quantity of silver used is quite small, there is no fear of great expense entering into the cost of manufacture. Expressing it in simple language, we may say that as far as chemical reactions are concerned the silver only works by its "presence," and is not "consumed" in the actual sense of the word.

The negative electrode is essentially, but not wholly, metallic zinc, and the two electrodes work in an electrolyte made up from a solution of chloride of zinc with salts of the same metal (such

as zinc bromide).

The accumulator is remarkable in that as soon as it is assembled it can be charged and discharged immediately without any of the usual process of formation, and this undoubtedly is a distinct advantage.

Examining this process, we find that what has been termed the passive conductor of the positive plate, e.g., graphite, generally works with the silver (reduced to powder) to facilitate the action that is being developed by the catalytic agent during the process of charge. As soon as a charging current flows electrolysis begins, first the bromide and then the chloride of zinc being decomposed.

#### Cannot "Sulphate."

FOR the purposes of explanation, the inventor splits up the actual charge and discharge periods into three phases.

Sulphation, that bugbear of the acid types of accumulators, unless due care and attention is paid to them is nonexistent in the Almeida accumulator.

Parasitic discharges do not take place in the positive plate, since it only his type of speaker lends itself well consists of a passive conductor and a catalytic agent; while, since the negative plate is practically metallic zinc resting in a solution of chloride or bromide of zinc, no internal reactions oc-

In consequence of this important a semi-circle projecting outside the feature it does not matter in what state of charge or discharge the accumulator may be left. It can be reprojecting over edges of rolls, but not tained in that condition for an indefitouching them. The top and bottom nite period without discharging itself

These features, coupled with the fact that numbers of tests have established a figure of 93 per cent. for the accumulator efficiency, calculated on the usual THE linen-diaphragm speaker is often basis, should serve to awaken a good deal of thought, and further developspeaker, that being the name given to ments are awaited with interest to see a commercial make on the American how far theory and practical laboratory experiment can be borne out when

it comes to be tackled from the point suggests high quality. The Internaof view of bulk manufacture.

Large Capacity.

ADDED to this, weight for weight, the capacity is ten times greater; or, conversely, capacity for capacity, the weight is only one-tenth of the av-

#### Tips and Jottings

#### New Eliminators.

TWO types of Igranic B eliminator are now obtainable, the V208 giveliminator is switched on. Arrange- latter case we are practically only en-Price, £15 15s. Both units are en-though they are in separate containers, steel case, whilst the interior finish without altering the voltage.

tional Radio Co., Courtenay Place Wellington, are the distributors.

#### Series and Parallel.

WHEN battery cells are connected together in series their individual erage weight for the other two types. voltages add together, and the amperage is unaltered. When they are connected in parellel, the amperes are added together and the voltage remains that of one cell. Suppose we have ten accumulator cells of two volts and 5 amps. each. If these are connected in series by joining negatives and positives alternatively, the total output will be 5 amps. at 20 volts, but if they are convolt mains, and retailing at £10 10s. nected in parellel by connecting all The V208A is the same as above, with negatives together and all positives tothe addition of an A battery charger gether, the output will be 50 amperes that automatically cuts out when the at 2 volts. It will be seen that in the ments are made whereby the A charge larging a single battery cell by joining can be varied from trickle to 1.3 amps. on extra plates of the same kind, alclosed in an attractive-looking pressed so that we increase the ampere hours



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THE BATTERY PEOPLE.

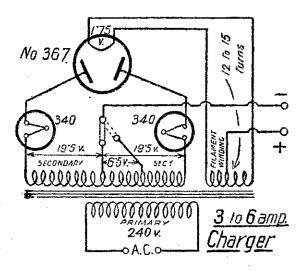
WELLINGTON, Phone 20-937.

AUCKLAND, Phone 45-696.

# Battery Charger Giving 3 to 6 amps.

correspondent very kindly reported at a later date that the alterations advised had been carried out, and gave the required result.

The only alteration to the trans-



windings. For the primary winding. in place of 26's enamelled previously specified. In addition to previous recommendations it would be an advantage to put 35 less turns on the very little in temperature on the highprimary winding, making the total 1065. As the filament winding has to to its own 8.5 amps., 14's d.c.c. wire charging with it 20-volt Varta B bat must be used instead of 18's. The necesasry, but this would only be 1-8in. pose. or  $\frac{1}{4}$ in, at the most.

used, which cost 17s. 6d. Two resist increased by reducing the primary ance lamps No. 340 costing 10s, 6d, turns to 1060.

SOON after the publication of the 1.3 each go with these valves, but the examp. A battery charger on March perimenter in question used in their an experimenter wrote inquiring if place two variable resistances, presumit would be possible to alter this ably power type rheostats, by means of charger to give a greater amperage, which the output is controlled. Whe greatly facilitates erection. Putting The charger can easily be constructed ther lamps or rheostats are used, one up a 40-foot pole is no small matter, eight, people should be prevailed upon with differences in the winding that is placed in each plate circuit, and the but if proper arrangements are made, will allow a charging rate up to 6 two centres of the secondary winding all will go smoothly, and no mishaps amperes for a 12-volt battery. This are joined to form the negative output. The positive is the centre tap of the filament winding as usual.

There is a method by which the charging rate can be varied from 3 to 6 amps, by means of a switch as shown in the diagram, which switches over to a tap in one side of the secondary winding in order to reduce the charging rate to about 3 amps.

#### Original Specifications.

THE original transformer specifications require a stalloy core 11 by 14in., requiring strips 14in. wide. 3 dozen 3ft. long or  $4\frac{1}{2}$  dozen 2ft. long. costing about 7s. 6d. at Johns, Ltd.. Auckland. The spool ends are 3 x 23 in., and the inside width 24in. The secondary windings each consist of 126 turns of 18's d.c.c.

Constructors should obtain the March 2 "Record" from the office, full instructions being there given. If Philips rectifiers and resistances 24's s.w.g. d.c.c. wire should be used through dealers, send direct to Philips Lamps, Ltd., Hope Gibbons' Buildings, Courtenay Place. Wellington.

This charging transformer rises

Two constructors of the original 1.3 carry the output amperes in addition amp, charger state that they are blocks in parellel, placing the re stalloy should not be cut until the sistance lamp in its socket so that only spool is wound, in case a slight in two pins are engaged, thus converting crease of the window width is found the charger to half-wave for that pur-

When winding the 1.3 amp, primary A Philips 367 valve is the rectifier the secondary voltage can be slightly

# Erecting the Aerial Mast

### Putting Up a 40-Footer

LAST week a handy mounting for an fastened or "belayed," as a nautical aerial mast was given which man would term it.

A 40-foot pole should have three sets of galvanised stays of stranded wire similar to that used for clothes-lines, the latter being very suitable, and obtainable anywhere. One set of stays height. If the top backstay is hauled should be attached to the top extrem- at this juncture, the pull only serves ity of the pole, and not from one to three feet down, as is often seen. The and does not admit of the same lifting two other sets of stays are spaced out power being applied. to divide the height about into thirds. Thus it will be seen that there will be three backstays, and three stays at each side to be secured at an angle towards the opposite pole or other end of the aerial, so that the pole is properly supported without depending upon the aerial in any way for support.

bolted in the double support, the top side. All persons handling stays must bolf is placed in the upright with a be ready to quickly secure them to the hammer handy for knocking it in at cleats whenever necessary. former are in the primary and filament there is any difficulty in procuring the proper moment. The pole lays along the ground, halvards in place carried out, the operation will soon be and secured to the lower end of pole, successfully concluded. Once the pole All stays must be secured in their re- is upright the top bolt is hammered in, spective positions, and the cleats to and all stays are secured as rapidly as which all stays are to be fastened possible, after which their lengths must be fixed in position, a separate may be adjusted at leisure in order to cleat for each stay. A handy way of get the mast exactly vertical. A  $2\frac{1}{2}$ in. making cleats on fences is to hammer square pole 40 feet long is very flexible in two four-inch neils two or three when in a horizontal position, and far inches apart, then bend them over in more difficult to handle for this reason opposite directions, forming a secure than would be supposed, without exfixing around which the stays can be perience

Not less than six, and if possible to lend their aid for a few minutes when all is ready. Two are required to attend to the backstays, and as soon as the pole has been raised to a sufficient angle they must assist in the raising by hauling on the backstay connected to two-thirds the total to accentuate the bending of the pole,

The two tallest assistants may lift the pole at a position near its base, whilst two others, each armed with a 10 or 12-foot pole with T-piece nailed at the top, alternately lift and support the mast, moving the point of support lower as the mast rises.

A person on each side looks after the side stays, steadying the mast to With the lower end of the pole prevent it diverging unduly to either

If procedure similar to the above is

#### A Reader's Wave-Trap

An Auckland experimenter sends the following wave-trap, which he claims will give very good results, inreasing rather than decreasing volume. Our correspondent states that the trap has been tried out on four different sets in Auckland, and proved

effective, cutting out 1YA and enabling Australian stations to be received on Readers Wave Trap SET

the loudspeaker. An aerial and leadin totalling 58 feet is used. The trap. it is stated, is also useful on a shortwave set.

Two separate coils consisting of 42 turns each if 24's d.c.c. wire are wound on a 3in. former 42in, long, a space of at least one inch between each coil. One coil is tapped at the twenty eighth turn from centre, and the other at the fourteenth and twenty-eighth. The aerial ' to be tried connected to each of the taps for best effect.

#### 

given here as it will no doubt interest some experimenters. It does not appear to differ very radically from other wave-traps in which a tapped coil and variable condenser are used.

Solution for Daniel Cells.

There has been no opportunity for

the writer to test this circuit. It is

CONSTRUCTORS of the Daniel cell, gravity type, are reminded that the strength of acid solution should not be stronger than 1 of acid to 40 of water, and as weak a solution as 1 in 80 works very satisfactorily, and is often stated as the correct strength.

#### Short-wave Coil Connections.

WHEN connecting up coils in a shortwave receiver it should be remembered that the side of the primary connected to the aerial goes towards the secondary coil, and the side of the secondary coil connected to the grid is placed towards the aerial coil. The side of the tickler away from the secondary connects to the plate. The winding of all coils must be executed in the same direction

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### Glossary of Wireless Terms

From week to week we give here assection of the glossary of wireless terms from the "Listener's Guide."

I'AX-OUT.—The positions the various components of a receiving set occupy in exact relation to each other. The layout of any receiver is not the haphazard thing which some imagine. It is no use placing a certain component in a certain position just because it looks pretty or makes the panel balance. When writers specify that certain components should be placed in a definite position, one may be quite certain that such an arrangement has a definite object in view, and that if results are to be expected from the set, then no deviation from the original design can be tolerated.

LEAD-IN.—The wire connecting the aerial to the aerial terminal of the receiving set. The lead-in should not be of a lighter-gauged wire than the aerial. It should be brought into the house through a porcelain or ebonite tube, which being an insulator prevents losses through electrical leakages.

LIGHTNING ARRESTER.—A device with a very small spark gap frequently connected between the lead-in and earth wires of the receiver, so that if the aerial is struck by lightning the discharge will jump across the gap and not flow through the circuit and damage the apparatus. Under the Underwriters' Association's regulations of New Zealand all receiving installations must be equipped with a lightning arrester.

LOADING COIL, -An additional coil, usually placed in the aerial circuit by which the wavelength of that circuit is regulated. Usually used for increasing the wavelength. See "Aerial Tuning Inductance."

LOCAL OSCILLATIONS .- See "Oscillator," "Heterodyne," 'Beat-note."
LOUD SPEAKER.—Any receiving de-

vice designed to reproduce signals or speech loud enough to be heard without Individual use of the conventional telephone receivers. The cone loud-speaker is a later development than the horn type which, however, retains great popularity.

LOW TENSION, or L.T.—See "Tenon." Applied to "A" battery.

MAGNET, ELECTRO.-A fundamental portion of the usual telephone receiver or speaker. The electro-magnet has a permanently magnetised steel core, which keeps the diaphragm under a certain tension. When speech currents are circulating through the electro-magnet windings, the amount of this tension is varied, and the diaphragm vibrates, setting the air above it in motion and so giving rise to sound waves which reproduce faithfully the sounds at the transmitting

MEGOHM.—One million ohms. See

MICROFARD (Abbreviated Mfd.).— One-millionth part of a farad, and the practical unit capacity. See "Farad."

METRES.—Commonly used in wireless to denote wave-length. A metre is a French measure of length equal to nearly 39½ inches (39.37 inches).

MICA .- An insulating mineral comcomponent parts of fixed condensers.

MICROPHONE.—A device commonly used in a broadcasting studio for receiving sound waves which are thereby transformed into electrical variations and after being taken through the transmitter are subsequently radiated from the broadcast station's aerial.

MILLIAMPERE.—One-thousandth of an ampere.

MODULATION.—The controlling of the waves radiated from a broadcast station in such a way as to make them vary in exact reproduction of the current impulses received from the microphone. Modern practice is to make these impulses control the power available to the valve generators setting up the oscilla- FEDERAL, MOHAWK, GLOBE Federal Radio House, tions whose energy is radiated from the aerial system. Good modulation means clarity and faithful tone in broadcast FERRANTI RADIO COMtransmission.

MORSE-CODE.—The system of dots and dashes by means of which international telegraphic communication is carried out. A working knowledge of the code, both for sending and receiving, is a necessary qualification for a transmitting license.

"MUSH."-Descriptive of blurring of MARCONI ECONOMY VALVES All Radio Dealers. signals either due to defective transmision or interference of other stations or perhaps howling valves on the receiver

NATURAL WAVELENGTH.—Every aerial, coil or circuit has a natural wavelength, or responds to some given frequency by virtue of its inherent characteristic. If that natural wavelength differs from that of the signal to be received, the frequency of the aerial or circuit must by "tuning"—that is, by the addition or subtraction of either (or both) inductance and capacity—be brought to correspond with that of the signal.

NOTE-MAGNIFIER. — Alternative term for low-frequency (audio) amplification. Most commonly used in Eng-

### 

### Gips and Jottings

#### Stalloy Strips Cheaper.

THE price of stalloy strips is now 1s. 6d. per dozen less than the prices ruling until recently, which means that a supply of stalloy formerly costing 12s. 6d. is now obtainable for 7s. 6d.

#### Valves in Series.

SOMETIMES valve filaments are operated in series, more usually in cortable sets, when the "peanut" valves are used on account of their is used, it is very important that each of them should require the same current (amperes), but the voltage is not so important. The applied voltage will quired by one valve.

#### Avoid Cheap Transformers.

CHEAP audio transformers are kept CROSLEY RADIO SALES AND D. A. Morrison and Co. the necessary amount of wire to give the necessary inductance in the primary winding. In consequence of this, the low notes of music are badly distorted or lost. Such transformers will provide such a decreased overall amplification that the failing of volume will be very evident.

#### Resistance Coupling Condensers.

T is very important that a good grade of mica condenser be used compactness. Whatever kind of valve as a coupling condenser in resistancecoupled amplifiers. The reason for this is that the slightest leakage in the condenser tends to allow the grid of the next valve to become positively be the total of all the filaments, whilst charged. If this happens, distortion the amperes required will be that re- occurs, and amplification is considerably reduced.

# RADIO DIRECTORY

### What to Buy and Where

#### **AUCKLAND**

monly used for radio purposes in the ATWATER-KENT RADIO .. Frank Wiseman, Ltd. 170-172 Queen Street, Auckland ALTONA & HAMMARLUND. Johns, Ltd. Chancery Street, Auckland. ROBERTS SETS. AMPLION LOUDSPEAKERS ... All Radio Dealers.

BREMER-TULLY RADIO exercited Superadio, Ltd.,

BURGESS RADIO BATTERIES, All Radio Dealers.

FADA RADIO ...... National Electric & Eng. Co., Ltd.

PONENTS

GILFILLAN AND KELLOGG . Harrington's, Ltd.,

GREBE RADIO ..... Howie's,

MULLARD VALVES .... All Radio Dealers.

RADIOLA RECEIVERS ..... Farmers' Trading Co., Ltd.,

RADIOTRON VALVES

N.Z. Made T.C.C. CONDENSERS

147 Queen Street, 'uc' no

Custons St.; Ra Supplies, Symond St.

8 Darby Street, Auckland.

A. D. Riley and Co., Ltd. Anzae Ave., Auckland, and all leading dealers.

138-140 Queen Street, Auckland.

Dilworth Building, Custom st., Auckland

Hobson Street, Auckland.

..... All Radio Dealers.

RELIANCE BATTERIES Reliance Battery Mfg. Co., Ltd., 96 Albert Street, Auckland.

> A. D. Riley and Co., Ltd. Anzae Ave., Auckland, and all leading dealers.

#### COUNTRY TOWNS

[4Ke] e e

**BROWNING-DRAKE** AND SERVICE ..... Otane, H.B.

BATTERY MODELS .... Ltd. Cuba Street, Palmerston North.

**SERVICE** 

GAROD, CROSLEY, RADIO AND ACCESSORIES .....

GILFILLAN, FEDERAL, STAN-DARDYNE AND GARRARD ELECTRIC RADIO - ALL ACCESSORIES .....

GREBE, CROSLEY RADIOLA SERVICE

RADIOLA DEALER SERVICE

PHILIPS VALVES AND **APPARATUS** 

SALES J. H. Sinclair,

CROSLEY ELECTRICAL AND The Forrest-Crosley Radio Co.,

The Avenue. Wanganui.

The Hector Jones Electrical Co. King and Queen Streets, Hastings.

W. M. Pitcher and Co. Hamilton.

AND E. Dixon and Co., Ltd.,

AND G. C. Carrad.

140 The Avenue, Wanganut.

ROLA CONE SPEAKERS J. B. Wackwan and Co., Federal Radio Dealers, New Plymouth.

All Good Radio Dealers,

HAVE recently been experimenting with screen grid valves, and, although not satisfied with earlier results, have one working quite well now as a high frequency amplifier on the short wave receiver.

The valve used is the Philips A442. This fits into the ordinary American valve socket, the plate lead coming through the top of the valve.

At present it is being used as a separate unit, being completely screened,

The tuning is not very critical. I grid circuit is within, say, three or purpose. four degrees either side of the resonance point.

wonderfully. Body capacity is entirely absent; one's hand can be put to within the field of the coils before any difference is noticed. This applies to the lowest wave-length the receiver is capable of receiving, about 15 metres.

The dial readings are altered all through the scale, less capacity being required than before in the tuning condenser. This applies to a greater extent to the lower wave-lengths of each coil; in fact, it has been necessary to radio-telephone experiments with Java. wind another coil to fill a gap.

THE circuit used is similar to those published for all the screen grid valves. Instead of the usual coil for aerial coupling, I am using a midget condenser with all plates, but three removed. With this arrangement there are not any "dead spots"; the receiver oscillates smoothly "all round the dial." is advised by some writers. Bye-pass condensers are inserted between the screen which is connected to each.

League of Nations' Broadcasts.

REPORTS on the international broadcasts of the League of Nations, which are now being tabulated, may lead to the establishing of a regular short-wave radio service for the broadcasting of these meetings. As an experiment, the sessions of the last meeting of the League were broadcast by station PCLL, Kootwijk, Holland, on awave-length of 18.4 metres, using a power of 25,000 watts.

English, French, Dutch, and Japanese, Lake honey Togo (?) Springs, for full speaker strength. and all listeners were asked to send dance music. From 3 till 3.30 p.m., a postcard and describe the strength when they signed off, reception was R8 and clarity of the signals. So far the on speaker. success of this test is not known, for

### Round the World on Short Wave

Notes of special value to short-wave enthusiasts are contributed weekly to the "Radio Record" by Mr. F. W. Sellens, Northland, Observations from others are welcomed.

in these broadcasts to justify the con- when rapid fading was noticed. struction of a special high-power shortwave station which can be used for 5 p.m. was R6. the leads going through ebonite bush- broadcasting and for carrying on the League's own business.

While this is not the first time that have tound that if a station is strong addresses in these meetings have been enough to be readable when properly broadcast, it was the first time that tuned in, it can be heard if the screen short-waves have been employed for the

Radio was first used by the League of Nations in 1925; in 1926 an opening Beside the gain in signal strength, address was sent over long-distance the screen grid steadies the receiver lines from Geneva to Prague, and there broadcast. Later, English, Danish German, and French stations joined in broadcasting other important speeches from the meetings.

All this was done on the regular wave-length used by these stations, and reception was limited to a comparatively small area. The Dutch shortwave station at Kootwijk, which is frequently heard in this country, was originally constructed to carry on

Reception of distant stations has not been quite so good during the past week; 5SW and PCJJ have both been troubled at times with rapid fading.

#### Saturday, August 25.

At 6 p.m. 5SW was about R5 on the speaker. An operatic tenor was heard first singing some of Caruso's songs. This was followed by a lady singing It was not found necessary to insert "Robin Adair" and "Home, Sweet radio chokes in any battery leads as Home." Reception was both clear and steady.

2XAD was first tuned in at 2 p.m. screen grid and plate leads, and the Strength R5. The programme was supplied by the National Broadcasting and Concert Bureaux. One singer, who was apparently a bit of a humorist, said that when a boy he won a gold watch. A visitor to his school offered a gold watch to the best singer. Only two boys, another and himself, had the courage to go on the platform. visitor gave him, the speaker, the worse than the other!

At 2.30 p.m. the first part of the programme was completed, and they

thought that there is sufficient interest nals got fairly weak toward 6.30 p.m., when volume was at its best.

Signal strength at its best from 4 till

#### Sunday, August 26.

At 12 a.m. KDKA was about R2. later on when I tried for them they were either off the air or too weak.

2XAF were not up to their usual form. They reached R6 at 3.30 p.m., but static spoilt reception.

The Crosley Radio Corporation station WLW, on about 52 metres, was heard soon after 3.30 p.m., but a slight fault was discovered which put the set out of action till they were off the air.

Monday, August 27.

3LO from 6 a.m. till about 6.15 a.m. were having some trouble, as music came through very patchy. From 6.15 reception was splendid, best volume ever, but, as is usual with this station, fading was bad.

During the evening, 2FC on 28.5 metres were broadcasting their usual programme on dual wavelengths.

Tuesday, August 28.

58W was R2-3 at 6 a.m., increasing to R5 at 7.30 a.m., but rapid fading spoilt intelligibility.

#### Wednesday, August 29.

Reception of 5SW was similar to Tuesday. PCJJ was also subject to rapid fading. They were very weak at 5.30 a.m. At About 6.15 a sudden increase in volume was noted. A lady was talking for a while soon after 6 a.m., but could not understand the nature of her speech.

At 10 p.m., on about 70 metres, a foreigner was talking very fast. may have been RFM, call sign heard. Strength, R8.

#### Thursday, August 30.

metres, was very good until they went apparatus and soften or omit others. on relay for the talk by Cardinal Ceretti, when they were unsteady at times, The announcements were made in went over to Reilly's Lake House, but every word was clearly heard at

#### Friday, August 31.

not any talk or music.

was audible.

The strength of reception given is the circuit may be correct. on the loudspeaker, using the screen grid mentioned.

#### Radio Transmitters.

of Radio Transmitters (N.Z.A.R.T.), Bay, FRIDAY, SEPTEMBER 7, 1928.

and a Wellington branch was formed. The following were elected as the branch executive: Chairman, Mr. R. Clark; vice-president, Mr. J. Johnson; secretary-treasurer, Mr. V. Parminter: committee, Messrs. F. Blackwood, C. H. Brown, H. C. Dixon, F. W. Sellens, and J. G. Tinney. Social and Listeners' Committees were also formed.

The object of the N.Z.A.R.T. is to increase interest in amateur radio in every way possible. Regular meetings are to be held at which lectures and demonstrations by capable persons will be given on subjects of particular interest to short-wave amateurs.

Slow Morse transmissions for the beginner have been arranged. All interested are invited to join. The shortwave listener is eligible; the listener of to-day is the transmitter of to-morrow. Full particulars available from Mr. V. Parminter, hon. secretary, 8 Arlington Street, Wellington.

The revised list of short-wave sta-Static was very bad during the even- 'tions will probably be ready for the next issue. The call, wave-length, location, and where possible, the power, and schedule in New Zealand time will be given.

> During the week 2FC, when broadcasting on 28.5 metres, announced that tests were being carried out with a view to the interchange of broadcast programmes with America.

#### New Use for X-ray

NEW use for the X-ray has been recently developed by a German scientist. It makes possible the use of these rays in photographing radio receiving sets, parts and other electrical equipment; thus bringing out constructional details of such apparatus which would be nearly impossible to illustrate by line drawings or diagrams.

At least one German publication has made arrangements to illustrate a series of constructional articles; with X-ray photography of the sets and parts in place of the usual blue print and diagrams.

An important feature of this 58W was again spoilt by rapid fad-method of illustration is that it is After hearing the other boy sing, the ing. The carrier only was audible at a comparatively simple matter to re-6 a.m. Strength increased later, but touch such photographs to bring out watch, saying he could not possibly be too unsteady to enjoy. 2FC. on 28.5 important features of the set or

THE San Francisco "Radio" remarks:--"Some constructors seem to think that they know more than the experienced designers of circuits PCJJ, at 5.30 a.m., was R3-4, with which employ such tubes as the PCJJ was not heard till about 4 p.m. rapid fading; signals increased to R6 shielded-grid and a.c. types. W en reports continue to be received from when their regular transmission was at 6.30 a.m., and then got weaker their own 'improvements' fail they listeners at distant points, but it is heard. Very clear and steady till sig- again. The fading was not noticed are prone to blame the circuit, which they have not followed, rather than 58W, a little stronger than previous their own departures therefrom. mornings, but rapid fading still very Fully half the questions which a troubleman is expected to answer A strong carrier on about 50 metres, arise from neglect to follow accepted where the German is sometimes trans- practice." The same comment may mitting was heard for some time, but apply when amateur constructors blame the new shielded grid valves At 17 p.m. the carrier only of 58W for not coming up to expectations. Simply the lay-out is at fault though

> Printed and published for the New Zealand Radio Publishing Company At a meeting of the Second District at the registered office. Wakefield Radio Transmitters' Association held Street, Wellington, of the Wellington' on August 28, it was decided to affili Publishing Company, by Archibald ate with the New Zealand Association Sando, of 47 Freyberg Street, Lyall

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