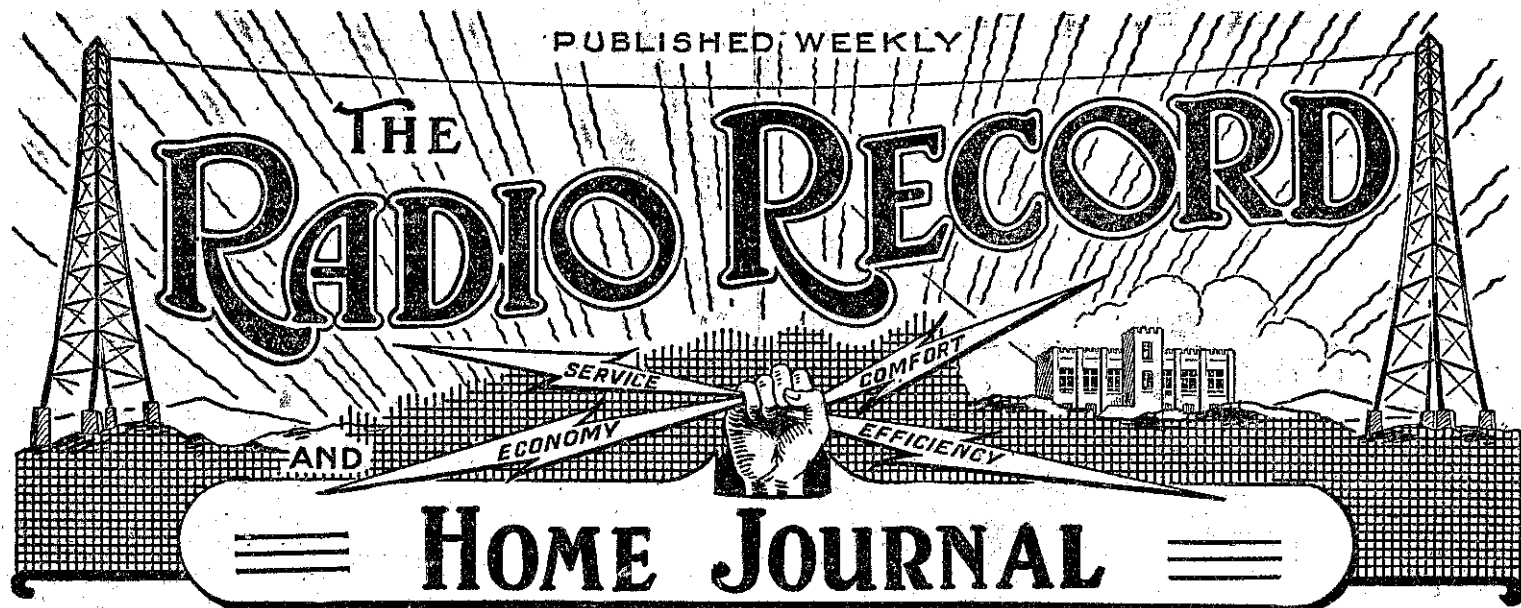


PUBLISHED WEEKLY

THE RADIO RECORD

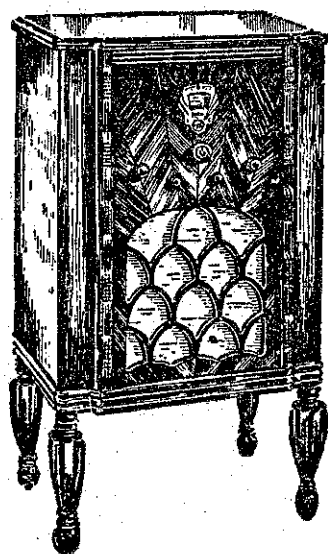


Vol. V., No. 15.

WELLINGTON, FRIDAY, OCTOBER 23, 1931.

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MY. 224

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PERFECT radio detection is a matter of perfect valves. This new 2.5 volt Osram is, like the entire 2.5 Osram series, definitely non-microphonic. Shocks or vibration do not affect it. It is the **ONLY** screen-grid valve that is perfectly noiseless in operation.

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Brunswick Bldgs., 49 High Street, Auckland.

Hannaford Chambers, 145 Worcester Street, Christchurch.



THE German Government is considering the initiation of a daily "State" broadcasting hour for the purpose of issuing decrees and acquainting listeners with the home and foreign political situation.

RECENTLY an international athletic meeting between Germany and England took place at Cologne. In order to give listeners as efficient a relay as possible, gramophone recordings were taken of the most interesting portions of the contest, and were broadcast in the evening.

THERE are now 612 broadcasting stations in the United States—a substantial decrease from the 733 peak point just before the Federal Radio Commission took over control in February, 1927. Though it is following a general policy of licensing no more new stations, except in the few remote areas not now receiving good radio service, the commission has authorised eleven new stations since the first of this year. On the other hand, twenty stations have gone off the air since last January. Applications for new broadcasting stations are nevertheless still being received at the rate of about one a day.

IT has always been one of England's proudest claims that its broadcasting service is second to none, and on many occasions unqualified endorsement of this claim has come from other countries. The latest tribute to British broadcasting comes from France where a well-known periodical organised a referendum to decide which of the better-known European stations had the best programmes. Under the first heading the London National transmitter secured the most votes out of the huge number that were cast, while Stuttgart-Muhlacker was second, and Radio Paris third. The highest votes for the best programme were accorded to the London Regional station, followed by Radio Paris and Strassburg in that order.

FRENCH listeners are bewailing the fact that their country possesses no palace of radio like England, Germany, and other European Powers. The authorities are reminded also that a suitable model for a broadcasting house is being sought in Stockholm; that Oslo has a similar project in view; that Vienna is negotiating for the fine buildings belonging to a bank recently bankrupt, and that Rome is designing a special home of broadcasting. Considering that France has not yet succeeded in establishing a suitable broadcasting organisation, it seems that house-hunting projects are decidedly premature.

FRANCE'S radio regulations, hitherto so lax that her stations have been causing serious interference with those of other countries, are being tightened up by the Postmaster-General, who is granting no more licenses for new stations. An interesting development in French broadcasting is the fact that British advertising sponsors have been buying time on French stations in order to reach the English audience.

THE U.S. Navy Department has recently purchased for experimental purposes two Hoovenaire sound system units for use in aviation communication. In a recent test at the Lakehurst, N.J., airship station, a communication read from the ground into one of the units was heard and copied aboard the dirigible Los Angeles while she was at an altitude of about 3000ft. with engines running. In a second test a speech transmitted into one of the units was heard and copied, in the face of a 20-knot counter wind, at a distance of eight miles. A second speech was heard and copied at a distance of eighteen miles with a wind of 20 knots in the line of transmission. In the Hoovenaire system the amplified microphone currents actuate a novel form of valve which admits more or less compressed air into the throat of the loudspeaker horn. It is claimed that much less electrical amplification of the microphone output is required than for any other public address system.

THE exhibition at the Royal Albert Hall, London, which was held recently in connection with the Faraday centenary celebrations, illustrated the basic principles and the modern methods which have made possible such things as broadcasting, radio-telephony and television. The exhibits included illustrations of Faraday's original experiments, relics of scientific discovery and working models. The radio industry itself was represented at the exhibition by a "co-operative" exhibit staged by the Radio Manufacturers' Association. The main feature of the display was a series of striking statistics illustrating the growth of the radio industry in the last six years. An annual turnover of no more than £4,000,000 in 1924 was shown to have increased to £20,000,000 in 1930. Similarly listeners' licenses in 1924, numbering little more than one-and-a-half millions, was shown to have increased nearly threefold by the end of 1930. Other figures testified to the amazing growth of the industry in the country where much of the pioneer work, from the days of Faraday onwards, was carried out.

The Sacking of KAIAPOHIA PA

On Sunday afternoon, October 25, and on Monday, October 26 (beginning at 10.30), 3YA will carry out special broadcasts on relay of commemorative services and celebrations in connection with the centenary of the sacking of the Kaiapohia pa by Te Rauparaha. Distinguished visitors will be present at the functions, one of which will be the opening of a new fence, built to represent the old palisade, on the site of the original defensive works. This ceremony will be performed by his Excellency the Governor-General, Lord Bledisloe.

DRIVE through Kaiapoi to-day, carry straight on up the Main North Road to the memorial marking the site of the old Kaiapohia Pa, which, exactly 100 years ago, was sacked and burned by Te Rauparaha, the fierce northern chief; or turn off and drive through Tuahiwi, and you will find the inhabitants pursuing their peaceful lives surrounded by rich, fertile country, well ordered and kept.

Little can be seen to recall the stirring days preceding 1831. No casual observer would realise that fearless Maori warriors fought and died in hundreds over this very ground—the Ngai-Tahu defending their pa, the Ngatitoa and other tribes under Te Rauparaha seemingly avenging the killing of some of their chiefs but, in reality, endeavouring to subdue the Ngai-Tahu and wrest from them their wealth.

Still living at Tuahiwi are descendants of the great chiefs of the Ngai-Tahu, who, under Turakautahi, founded and settled the Kaiapohia Pa about the year 1700. They represent the seventh, eighth, ninth and tenth generations, and are at present organising the centenary celebrations of the evacuation of the pa, to be held from October 24 to 26, when Maoris from every part of New Zealand will forgather at one of the largest hui ever held, and the first centenary celebration Maori history knows.

From a strategic point of view, the site of Kaiapohia—a tract of land about ten acres in extent, jutting out into a lagoon—could scarcely have been better chosen. The Lagoon, Tai-rutu by name, was, in turn, surrounded by vast areas of swamp and offered protection and practical immunity from attack on three sides. The land side, which covered the south end, was guarded by high earthworks—the remains of which can be seen to-day—outside of which were erected strong wooden palisades that extended right round the pa. Behind the earth-wall was a double row of palisades. The fortifications were completed by the erection of a high watch-tower at the south end, and the pa was deemed impregnable.

In a spirit of revenge for insults and fired by avarice on account of the greenstone treasures which the Ngai-Tahu possessed, Te Rauparaha decided to attack the pa.

Despite Te Rauparaha's protestations of friendliness, the Kaiapohians were rightly suspicious, and they killed eight chiefs who had entered the pa. Te Rauparaha went back to Kapiti and planned revenge. Three years later he came again.

After a siege of three months, and during which time he realised the futility of a frontal attack, Te Rauparaha conceived the scheme of firing the wooden palisades. Three parallel trenches, constructed in zig-zag fashion, were dug up to the foot of the stockade, and bundles of manuka scrub were gathered. As soon as there was sufficient scrub for the purpose, the bundles were carried up the trenches and placed

one on top of the other at the foot of the palisade. The daring of this operation was magnificent as the warriors engaged in it were exposed to the deadly fire of the

Ngai-Tahu. Notwithstanding the enormous loss of life, the piles of scrub grew higher and higher.

As the work progressed, the dreadful significance of it became impressed upon the occupants of the pa, and various methods of escape from the impending disaster were attempted. One night, Taiaroa, with the force he brought from the Peninsula, withdrew from the stronghold, with the object of attacking the northerners from outside, and so creating a diversion. He was, however, destined never to do so.

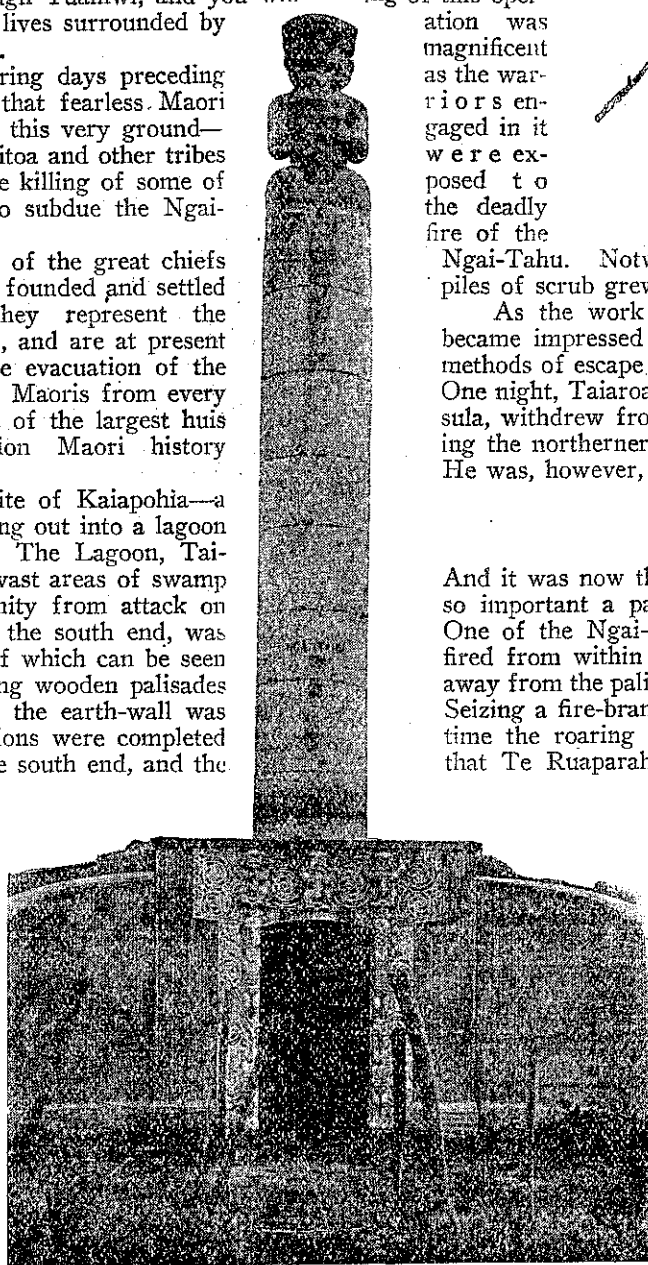
AT last, after feverish suspense, the fatal day dawned. A nor'-wester sprang up. And it was now that the vagaries of Canterbury winds played so important a part in the success of Te Rauparaha's plan. One of the Ngai-Tahu chiefs decided that if the scrub were fired from within the prevailing wind would carry the flames away from the palisades, and so thwart the northerners' chances. Seizing a fire-brand, he thrust it into the dry scrub, and in no time the roaring flames rose high. It appeared for a while that Te Rauparaha's final effort to sack the stronghold was going to prove as futile as his previous attempt.

But at this juncture, as in so many others of his eventful life, Te Rauparaha's characteristic good fortune did not desert him. While his men were being mown down under the galling musketry of the enemy, the wind swung suddenly round to the south, and the whole aspect of the combat was instantly changed. The flames were carried high against the walls, licking the palisades with fiery tongues, while dense clouds of smoke rolled backwards, driving the garrison from the trenches and from every station of defence.

By this marvellous reversal of fortune Te Rauparaha was not slow to profit, and no sooner had the firing of the defenders slackened than his men crept up to the walls, and, as an essential precaution, filled up the loopholes through which the Ngai-Tahu marksmen (Concluded on page 2.)



Te Rauparaha.



THE TIKI KAIAPOI.

Erected on the site of the old Kaiapohia Pa.

The Sacking of Kaia-pohia Pa

(Continued from page 1.)

had taken aim. This must have seriously hampered the defenders, had they been disposed to stand to their posts. But they were no longer animated so much by the desire to save the pa as to save themselves. Panic had now taken the place of heroism and despair had completely extinguished all idea of defence. The *saave qui peut* of Napoleon became equally the policy of Ngai-Tahu, and from this point there was nothing heroic in the defence of Kaiapoi. In a marvellously short space of time the flames had completely enveloped the outer works; and, while they were eating their way through the wooden walls, many of the besiegers were indulging in the wild joy of the war-dance, which, according to one native chronicler, was so vigorously conducted that "the noise they made was like thunder, and the earth trembled." As soon as a breach had been made, the attacking force rushed between the burning palisades, and the massacre—for it can be described by no other word—commenced.

No semblance of resistance was offered except by a desperate few, and those who still lingered were either struck down by their infuriated pursuers or were captured and bound, to be spared or killed, as future circumstances might dictate.

At the time of the sacking the total population of Kaiapohia was about 1000 men, women and children. Some escaped in the confusion following the burning of the pa, many were killed, and a considerable number were taken to Kapiti.

As can readily be imagined, the Ngai-Tahu, as soon as they were sufficiently recovered from the terrible shock of the destruction of their pa, began to organise an expedition to avenge the defeat. Maoris throughout the South Island rallied to the cause, and a party of 270 warriors left for Cook Strait. Soon another party sailed and came within an ace of achieving its object. But the wily Te Rauparaha escaped during the conflict.

A few months later another expedition, numbering 400 warriors, started for Cook Strait in a flotilla of canoes and boats. Although it engaged Te Rauparaha's men, no definite decision was reached. Shortly afterwards hostilities between the two tribes ceased. Te Rauparaha's tribe quarrelled with its allies, the Ngatiawa, and fearing a coalition against him, the chief made peace with the Ngai-Tahu and returned several chiefs



TE ARI PITAMA

who will carry out the duties as Announcer for 3YA on Monday, October 26, when the proceedings in connection with the centenary commemorative celebrations at Kaiapohia Pa will be broadcast.

3YA listeners know Mr. Pitama well as a lecturer on Maori subjects, but, apart from his command of English and his radio personality, singular interest attaches to his association with the centenary celebrations. His great grandfather was the principal actor in a dramatic incident when the pa was sacked, and the event described by the late Rev. Canon J. W. Stack, a pioneer Anglican missionary and authority on the Maori, appears on this page.

whom he had captured at the sacking of Kaiapohia, and the other prisoners.

Since then the Ngai-Tahu have made no attempt to rebuild Kaiapohia, being content to settle at Tuahiwi. The site of the old pa is now a reserve, marked by the monument erected to its founder, Tarakautahi.

An Historic Association.

Mr. Te Ari Pitama, who will act as announcer for 3YA when the proceedings in connection with the celebrations are being broadcast, has an historic association with the famous event.

Among the captives taken from the Kaiapohians was a handsome lad named Pura (known to Lyttelton residents as Pitama), who took Te Rauparaha's fancy, and was led by him into his whare. To prevent his escaping during the night, the old chief tied a stout cord round the boy's body and fastened the end of it to his own wrist.

During the early part of the night Te Rauparaha was wakeful, and kept pulling the cord to assure himself that his prisoner was safe; but when sleep overpowered him the cord relaxed, and

the boy, who was watching for an opportunity to escape, successfully disengaged himself from his bonds, and having fastened the check string to a peg which he found in the floor, crept cautiously out of the hut.

It was too dark for him to distinguish anything, and as he passed out he overthrew a pile of brushwood, which slipped down and completely covered him.

Old Rauparaha, roused by the noise, sprang to his feet and immediately discovered the trick which had been played upon him. He at once gave the alarm, and roused the whole camp. Suddenly awakened from profound sleep induced by weariness after the violent exertion and excitement of the previous day, and by the sense of security ensured by victory, the northern warriors were in the condition to give way to panic, and it was well for them that the circumstance which caused the disturbance in their camp proved after all to be of such a trivial nature.

With shouts and cries the men rushed hither and thither in wild confusion, some calling out that the

prisoners had escaped, others that the camp was being attacked by their friends, who were attempting to rescue them. Torches were lit and seen flashing in all directions, guns were fired, and the greatest commotion prevailed everywhere.

All the time this uproar was going on, the cause of it was lying perfectly still under the fallen pile of brushwood, beside the commander-in-chief's hut. He knew that if discovered he would be immediately put to death, as it was an unpardonable offence for a prisoner to escape.

Escape, however, at such a moment was impossible, and poor Pura lay in the greatest state of terror and alarm, expecting every moment that his hiding place would be found out. Fortunately for him that was not to be; and when the alarm subsided and stillness once more reigned, he quietly extricated himself and groped his way out of the camp into the surrounding flax swamps, under cover of which he escaped. Journeying southward, he fell in with the main body of the fugitives, who were travelling on in the same direction till they reached a place of safety.

October "Radio Log"

DXERS will find this month's "Radio Log" of considerable interest. Probably what will appeal to them most is a complete list of Australian stations, together with a dxer's map of Australia. The list is up to date and sets out all the Australians operating on a regular schedule. The map shows the location of the stations listed.

There is also a list of the European stations with over 10 kilowatts of power, and this sets out the characteristic calls and signals used. In addition, there is a list of Mexican stations whose power exceeds 1 k.w. There is an interesting account of the new German station at Hellsberg recently been received in New Zealand, and gleanings from the American stations—many of these newsy paragraphs have been contributed by a DX member in America. Certain regulations of the DX Competition are under fire, and correspondents' views on this matter have been given full expression. There is a very useful wrinkle for extending the tuning range of your set, so that you can pick up the stations below 200 metres.

The "Log" will be on sale this week and can be obtained from all book-sellers and dealers, price 6d. a copy.

Sporting Relays

WITH the approach of summer, arrangements are being made for relaying a number of seasonal sporting events from 1YA, and sporting listeners are promised some first-class fare. Alf Mattson, the well-known dirt track rider, who has recently returned from England, is at present giving a series of talks on his tour abroad during the Friday evening sports session, and during the broadsiding season which opens in Auckland on December 4 it is expected that some of the racing will be relayed by 1YA. It is also hoped to relay some yacht racing this summer, and cricket, too, will have a place on the northern programmes. A tentative arrangement has been made to rebroadcast the Melbourne Cup on November 8.

N
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A 3YA Recital,

Friday, October 30.

Spirituals and Plantation
Songs

will be featured by Hubert Carter, Esme
Stephens, Nancy Bowden, Findlay Robb,
Lilian Harper.

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Here is a radio small enough to pack in your suitcase. Big enough to give real performance.

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Death of America's Greatest Inventor



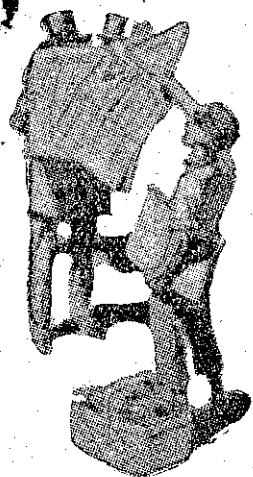
THOMAS ALVA EDISON

Mr. A. R. Harris, general manager of the Radio Broadcasting Company, had the distinction of being personally acquainted with the late Thomas Alva Edison. It was in 1911 that Mr. Harris, then a youth, left his home in New Zealand and went to America, where he joined up with the Edison activities at Orange, New Jersey, subsequently becoming assistant-chief of the Research Laboratory of the Edison Storage Battery Company. During the two years Mr. Harris was thus engaged, he came much in contact with Mr. Edison, and has ever since acted as the firm's representative in this country. When in America last year Mr. Harris had the pleasure of again meeting the famous inventor.

THE three characteristics of Mr. Edison that impressed me most were his indefatigable energy, his wonderful intuition, and his undaunted spirit in the face of innumerable obstacles. His will was indomitable. Edison had said that genius was one per cent. inspiration and 99 per cent. perspiration.

I was never able to decide on the ratio of the two as far as Edison was concerned. There was certainly more than one per cent. inspiration in him, but he was such a tireless worker that I do not see how his formula for a genius could be reduced on the perspiration side! It was small wonder that such a methodical and phenomenal worker as Mr. Edison should have accomplished so much in his long life. There is no more striking instance in the realm of peace of a man beginning life with no prospects so far as money was concerned, and yet achieving world fame. From the time he was eleven years old he had worked—that was for 73 years—longer than the allotted span of life for the average man. The eight-hour day did not enter his theories or his practice.

In my time Mr. Edison was to be found in the laboratory at any hour of the day and up to midnight, and frequently later. I remember an instance that happened one time when he was ill and his wife was concerned about him. She had arranged with him to be sure to leave the laboratory at midnight. At that time he was busy developing the new Edison Disc Record, and, as was characteristic of him, he concentrated on the job. When Mr. Edison happened to look up at the clock the hands were at 12.20. Up he jumped and made hurried preparation to redeem his overlooked promise to his wife. But a member of the staff, happening to look at his watch, remarked that the clock was an hour fast. Then it came to light that someone had put the clock on. Edison, instead of being annoyed by the incident, showed extreme pleasure at having more time. He settled down to work



Edison's Life Story

told by

A. R. HARRIS

again, and immediately forgot all about the clock.

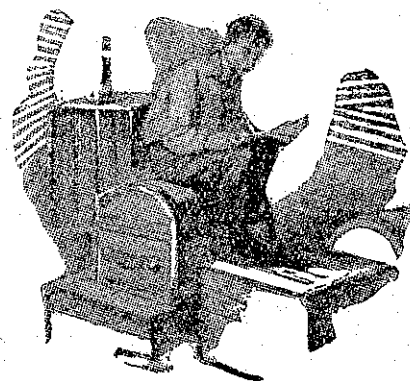
Mr. Edison personally made a practice of hearing at least 2½ per cent. of all the records produced in his factory, and he did this after working hours—no mean task. It was characteristic of Edison that, having to meet difficulties of any sort, he stuck to the job until they were solved. The staff engaged on those occasions was designated "the insomnia squad."

SUCH an occasion arose when he first produced his battery. Through the expansion and contraction of one of the conducting substances used, trouble was caused after he had placed the battery on the market. Although those people who had received the batteries were perfectly satisfied, he was not. He at once closed down his factory, and with his staff busied him-

self in the laboratory, working night and day. At the end of four months they were all worn out except Edison, who was the hardest worker. He slept on the premises, often for an hour or so, on a desk.

The intuition of Mr. Edison was uncanny. At one time we were busy making tests, using various percentages of lithium, in combination with another chemical, for the purpose of improving the durability of one of his inventions. Mr. Edison had proposed the use of lithium, so lithium was tried, but without any result. However, he still persisted, and after many further tests and much work, sure enough the required results were obtained. We tried to get out of him how it was that he had suggested lithium, and why he had carried on when the results were not encouraging. He replied that he could not explain, except that he knew lithium was the thing.

On another occasion, when he first announced certain results in connection with one of his products, he was severely criticised by one authority, who said that the results were impossible. Edison (Concluded on page 8.)



The New Zealand Radio Record

—AND— Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX, 1032, WELLINGTON.

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

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

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

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

WELLINGTON, FRIDAY, OCTOBER 23, 1931.

FAIR PLAY IS BONNY PLAY.

WE are sorry to have to direct attention to the policy of a radio contributor in another journal. Following upon the speech on unemployment by the Right Hon. J. G. Coates, given from 2YA on Tuesday evening last, and rebroadcast by the other stations throughout the Dominion, this particular contributor, "Grid Bias," wrote in the columns of his paper alleging that 2YA's transmission had been so distorted as to make the broadcast almost a complete fiasco. We can perhaps accept the experience as being that of "Grid Bias" on his own set, which he claims to have been specially evolved. There is abundant testimony available, however, from the Company's own experts and disinterested listeners, to the effect that the transmission was perfectly correct and clear. The present writer heard the speech on a modern full-powered set within half a mile of 2YA, and found the reception perfectly clear and distinct, giving the characteristic timbre and forcefulness of Mr. Coates's voice with full accuracy. We reproduce elsewhere the text of statements in the controversy between "Grid Bias" and Mr. A. R. Harris, general manager of the Radio Broadcasting Company, which has appeared in the columns of the paper to which "Grid Bias" contributes. It is to be noted that the paper in question, in contrast to usual journalistic practice, excised material portions of Mr. Harris's last statement. That action will carry its own lesson to listeners.

IN his concluding statement Mr. Harris makes the offer to demonstrate to any reputable gathering of interested listeners, organised or unorganised, at any time, the clarity of transmission from 2YA. The "Radio Record" is prepared to supplement that offer by Mr. Harris by direct challenge to "Grid Bias" to subject his receiving apparatus to test. We are prepared to hire the Concert Chamber of the Wellington Town Hall, or any other hall chosen by "Grid Bias" in Wellington, at any date suitable to him, pay the expenses of "Grid Bias" removing his receiving apparatus to that hall, and subject it to test of 2YA's transmission against commercial receivers of standard type. To give interest to the event, we suggest that three judges of musical experience be appointed, to be screened from the competitors, and an award of first, second and third made for prizes donated by the "Radio Record." This test should once and for all clear up the points of, first, the clarity of transmission from 2YA; secondly, the quality of the receiving set possessed by "Grid Bias"; and, thirdly, his capacity to criticise from a technical point of view the transmission of 2YA. In order that the most absolute fairness shall prevail in con-

nection with this test, we are prepared to entrust the whole of the arrangements to any committee appointed by the Wellington Radio Dealers' Association.

THE "Radio Record" believes strongly in the truth that "fair play is bonny play." The Company has suffered very largely in silence under the criticisms of the writer in question, but the time would seem to have arrived when an exposure should be made and the matter brought to the test. Reasonable criticism is always welcome, but when criticism reaches the stage of being the expression of unreasoning obsession, amounting to an apparent vendetta, it is time to make complaint and to inquire what hidden motive is the inspiration of these continual unwarranted attacks. We also give as a small additional item in the case a contrast in parallel columns of different reports of the speech by the Postmaster-General in reply to Saturday's deputation. That difference is so pointed as to make comment unnecessary.

Passing of Thomas Alva Edison

Special Commemorative Service from 2YA

THE overseas programme to be broadcast by 2YA on Wednesday evening next, the 21st inst., will be preceded by a specially arranged introductory programme appropriately commemorative of the passing of Thomas Alva Edison, one of the world's outstanding international personalities. After an appropriate announcement, Liszt's symphonic poem, "Les Preludes," will be played, followed by the message specially recorded by the great inventor for the people of New Zealand. "The Long Day Closes" and Sousa's march, "The Stars and Stripes," will conclude the musical portion of the station's tribute, which later in the evening will be appropriately voiced by Dr. Guy H. Scholefield, who will speak on the international work and worth of the man who is entitled to rank in the memory of the nations as the world's greatest inventor.

Breakdown at 2YA

Mary Massey

A Speedy Replacement

ON Monday evening last 2YA suffered a breakdown of a major character. The motor generator that supplies the current to the plate supply of the transmitter suffered a short circuit in the armature.

This mishap was of a major character, but the company keeps a spare armature for this particular machine at the station, with the result that its experts were able to get busy at once and install the spare and put the station back on the air again within several hours. If the spare part had not been available a serious and sustained breakdown would have occurred, as it would have been necessary either to get the part rewound or replaced by importation from overseas. This is the first occurrence of this kind that has taken place within the company's operation of its service, and the fact that the breakdown was so quickly repaired justified the company's policy of maintaining spares.

The incident showed how dependent a broadcasting service is on the engineers, the "men behind the guns," who work unheard and unseen to keep the service going, and, when a breakdown occurs, effect repairs with the minimum of delay.

In the case of the mishap at 2YA, frequent announcements were made from the YA stations, while 2ZW, Wellington, also courteously rendered great service in that direction.

MISS MARY MASSEY (principal soloist at the Wanganui Garrison Band's concert), who is a pupil of the Stratford Convent, is only 23 years of age and has met with remarkable success in Taranaki. She has been soloist for the Stratford Choral Society for a number of years, leading lady for Stratford Amateur and Dramatic Society, leading soloist for Hawera Male Choir, and soloist for New Plymouth Choral Society. At the recent Hawera Competitions Miss Massey won the sacred solo, open soprano solo, own selection, soprano solo, second in the solo and accompaniment. The adjudicator remarked that the performances of Miss Massey stood out as the festival and her beautiful singing would live long in his memory. 2YA listeners will hear her singing "Lo, Here the Gentle Lark," and "Ritorna Vincitor."

SORE THROAT?

Pulmonas
INVALUABLE PASTILLES
for
QUICK
RELIEF



An Unjustified Press Attack

Radio Writer's Charges Refuted by Management

"Evening Post" Adopts Peculiar Tactics

QUITE a storm in a teacup developed in Wellington following 2YA's transmission of the speech on Unemployment by the Rt. Hon. J. G. Coates on Tuesday evening last. "Grid Bias," the radio writer of the "Evening Post," condemned the transmission as "distorted," and claimed 3YA was better. Mr. A. R. Harris, who was in Wellington, promptly replied and revealed that, but for a few minutes at the start, 3YA was reproducing 2YA directly. He invited "Grid Bias" to explain that discrepancy and offered to give any set of reputable listeners a test at any time to demonstrate the accuracy of 2YA's transmission. A feature of the later stages of the correspondence was that the "Evening Post" deleted substantial passages from the statement by Mr. Harris, and also condensed a letter from a correspondent supporting his view, while giving in full in its correspondence columns a letter condemning the transmission—which letter, by the way, bore a suspicious resemblance to the style of "Grid Bias." The attitude of "Grid Bias" on radio matters has been so partisan for some time past that it is plain a special objective is in view, rumoured, amongst other things, to include a seat for him on the Radio Board if and when established!

Arising out of the incident, a definite challenge to "Grid Bias" has been issued by the "Radio Record."



HE original comment by "Grid Bias" in the "Evening Post" of October 15 was:—

"As heard in the Wellington broadcast, Mr. Coates's voice was quite unfamiliar in tone, and the sibilants and ch sounds were nearly all violently distorted. Some of the defects seemed to be due to faulty placing of the microphone, but the major part of the distortion probably occurred elsewhere, perhaps in the amplifier apparatus in the transmitter. This was indicated by the fact that the Christchurch and Auckland broadcasts were far better, notwithstanding the intervening land-lines, and both gave a fair approximation to the actual timbre of the Minister's voice.

"The Wellington broadcast was almost a fiasco, for the speech transmission was so irritating as to distract attention from what Mr. Coates was saying."

Reply by Mr. Harris.

TO this comment Mr. A. R. Harris, general manager of the Radio Broadcasting Company, promptly replied. He said he desired to take strong exception to the statement that the speech was spoiled by bad transmission.

Mr. Harris said that the transmission was carefully checked, both locally and at various points throughout the Dominion. From the company's own knowledge, and from reports received from official listeners, they knew that the address was received with the utmost clarity, not only locally, but all over the Dominion.

It was impossible to get good reception out of bad transmission, and if the majority of listeners throughout the country received the address clearly and satisfactorily, as they did, then the fault complained of did not lie in the transmission, as inferred by the "Post" contributor, "Grid Bias."

He (Mr. Harris) was not, however, surprised to learn that distortion was experienced in Wellington with some sets, as he had previously pointed out that multi-valve sets, particularly those of earlier types, were overloaded when used in close proximity to so strong a station as 2YA. In modern developments some sets were fitted with local switches to take care of this feature, and in the very latest sets a special

new type of valve was used, designed among other things to eliminate the necessity for the local switch, and also avoid overloading the detector valve.

It was only natural that on a lower-powered station transmissions would come through more clearly on sets that suffered by use near a high-powered

station, due to the weaker strength of the signals. Various statements to this effect had been made from time to time in the past by the company in reply to complaints similar to that made by "Grid Bias."

The company had also made application to the Department for a license

to operate a smaller 100-watt transmitting set in conjunction with the larger transmission, so that users of large sets in Wellington would be able to work directly on the smaller station without having to disconnect their aerial or make special provision in their sets for handling the higher power of the main transmitter. That permission, however, had not been accorded.

This overloading of sets was a point that had been stressed, not only by public statements but also, as a matter of fact, the company's engineer, by means of actual demonstration at private residences in Wellington and locality, had proved the truth of this factor.

It was therefore surprising, in view of those statements and the demonstrations referred to, for "Grid Bias" to persist in making the statements he does.

2YA's transmission on the occasion referred to was absolutely sound and correct, and the fact that it was received satisfactorily all over the Dominion, as well as locally, on all suitable types of receivers, proves the utter falsity of the statements made blaming the transmission for distortions experienced at the receiving end.

Rejoinder by "Grid Bias."

"GRID BIAS" made the following rejoinder:—"As the broadcast speech is gone forever and cannot be called in evidence, its actual quality cannot be tested. I am not disturbed by the allegation that 'the majority of listeners throughout the country received the address clearly and satisfactorily.'"

"The statement that the speech was badly distorted was not published without corroborative complaints from other listeners than myself: and it is of interest to note that one of these listeners went out of his way this morning to praise the transmission of the symphony concert—which I myself was unfortunately unable to hear.

"What does disturb me, however, is the persistence of the company and its officials, when complaints are made about the defective transmissions, in blaming the listeners' receivers. I have been actively interested in radio reception for many years—perhaps longer than Mr. Harris—and I can assure him that I know perfectly well when my set is overloading.

Is this Fair Reporting?

Two Versions of What Mr. Hamilton Said

LISTENERS in Wellington have become aware in the last few months that an extremely partisan attitude on the radio question has been adopted by the "Evening Post." We give below, side by side, the report of the speech by the Postmaster-General, the Hon. A. Hamilton, in reply to Saturday's deputation, as culled from the two Wellington papers, and invite readers to compare the two and note the significant omissions from the "Evening Post's" report:—

From the "Evening Post."

In reply, the Minister said he was glad to have the deputation express its opinion, which would be available to Cabinet when it was reaching a decision. He did not know whether the public realised to the full the importance of that decision. The Government fully realised the possibilities of broadcasting, which were enormous and might well play an important part in the social and educational life of the people. What the Government had to decide was whether broadcasting was to be controlled by a company or a Government-appointed board, and it was just a question whether a company could provide a better board of management than the State. He did not want to express his personal opinion at that stage, as he anticipated that Cabinet would reach a decision over the week-end. He could assure the deputation that all aspects of the matter would be very carefully considered before a decision was reached.

From "The Dominion."

Mr. Hamilton said that he realised the importance of the points the deputation had raised. He realised that broadcasting had an important future, but the question of control had not yet been definitely decided on. It seemed strange that broadcasting control had not settled down to uniformity throughout the world.

Dr. Sutherland: It is settling down now.

The present company had taken a great risk in investing in broadcasting when it did, Mr. Hamilton said, and it was entitled to some consideration. Its license expired at the end of the present year, and it was not asking for a renewal. What it was asking for was control by a public company.

Professor Robertson: that would still be private control.

Mr. Hamilton: "It would be controlled by a company of which half the shareholders would be listeners-in." Whether the Government could nominate a better board of control than the listeners-in could was a question Cabinet hoped to decide during the week-end. He hoped to be able to make an announcement at an early date.

"As it has a dynamic speaker and a power valve with an output which can reach four watts the neighbourhood is likely to know it too. It has been specially arranged to avoid overloading by 2YA, although it is quite possible to overload it by reception of other New Zealand and Australian stations. Moreover, I have never been able, by overloading a receiver with too powerful a carrier, to produce distortion of the kind of which I complained. The too frequent use of this stock reply to complaints is one of the many grievances held by listeners and traders against the company."

Mr. Harris Replies Further.

Excisions by "Evening Post."

TO this Mr. Harris made further reply, but the "Evening Post," for reasons of its own, excised material points from his statement. Fortunately a carbon copy is available, and in the following statement the parts excised or so drastically condensed as to lose point are set out in black type so that readers may follow the situation fully.

Mr. A. R. Harris, general manager of the Radio Broadcasting Company, before sailing for the south on Friday evening, said, in the course of an interview, that he would like to remind

"Grid Bias," in relation to his continual complaints about the transmission of 2YA, that on one occasion the chief engineer of the company, Mr. J. M. Bingham, after a previous complaint from him, attended at his own house with a set and demonstrated to "Grid Bias" that the transmission at 2YA was perfectly correct. The reception on that occasion on the machine taken to the home of "Grid Bias" was perfectly correct and clear, but "Grid Bias" refused even then to admit the falsity of his own statements, and claimed that "something had been done" to the set which Mr. Bingham brought in. The absurdity of that contention when it was a matter of merely receiving clearly the sounds put on the air will be apparent to all listeners, and a sufficient demonstration of the attitude of "Grid Bias" himself.

[Omitted from statement appearing in the "Post."]

Mr. Harris further stated that he would like "Grid Bias" to explain, out of the wealth of technical knowledge and experience which he claimed to possess, how it was that the transmission by 3YA of Mr. Coates's speech was, on "Grid Bias's" own confession, "far better than 2YA," when that transmission was merely 2YA's original transmission, picked up and rebroadcast without, as "Grid Bias" suggested, the use of land-lines. The actual fact was that a land-line was arranged for the transmission. It was used for the first ten minutes of the speech to Christchurch, but was unsatisfactory, and the land-line was then abandoned, 2YA picked up direct on the air, and rebroadcast by 3YA. How was it possible for 2YA to issue a distorted transmission for the benefit of Wellington residents, and at the same time send on to Christchurch a transmission which was picked up perfectly clearly and rebroadcast in a manner to satisfy the very critic who complained of the local reception of the same original broadcast?

To the unbiased listener the absurdity represented by such a posi-

tion would be at once apparent, but perhaps "Grid Bias" would concentrate on the problem and give his explanation.

[Omitted from statement appearing in the "Post."]

Mr. Harris continued that his company was perfectly prepared at any time to demonstrate the accuracy of the transmission of 2YA to any reputable body of interested listeners, organised or unorganised. At such a demonstration it would be possible to illustrate technically the perfection at-

tained in the regular transmission of 2YA as that transmission left the station.

In conclusion, Mr. Harris said that the insistence of "Grid Bias" on his continual complaints about transmission, in spite of all the proof and demonstration given him to the contrary, showed that it was not a matter of reason with him, but an absolute obsession, revealing bias of such a calibre that his name should be changed from "Grid Bias" to "All Bias." In season and out of sea-

son "Grid Bias" had complained of 2YA's transmission and service generally. On occasions his statements had been shown to be false and misleading, and corrections forced in his own columns upon, for instance, financial matters. The "Post" had the reputation of being in general a fair paper, but the attitude adopted by "Grid Bias" on matters relating to the broadcasting service was seriously jeopardising that reputation, and leading the general public to assume that "Grid Bias" was waging a vendetta to further an object of his own.

[Omitted from statement appearing in the "Post."]

Only One Check on Christchurch.

"GRID BIAS" replied: "The explanation of the problem presented by Mr. Harris is neatly supplied by Mr. Harris. The check on the Christchurch transmission was made in the first few minutes of the speech. I was well aware, when I wrote the original paragraph, that the Christchurch transmission was only in part made over the land-line. It will no doubt appear to most readers of Mr. Harris's statements that he would have been in a stronger position if he had brought out his little problem yesterday, instead of the worn-out device of blaming other people's equipment."

In regard to the second paragraph quoted, offering a demonstration of the technical perfection of 2YA's transmission, surely Mr. Harris realises that listeners are much more concerned with the transmissions as they are able to hear them than with "technical illustrations." The demonstration of perfection that is required is one that lasts all the time.

Final Comment.

"GRID BIAS" originally wrote that 3YA was "far better" than 2YA. He now admits he tested 3YA only in the first few minutes of the transmission. But that transmission which he then found better than 2YA was not good enough for the company's experts, and they abandoned the landline to give a direct re-broadcast. Evidently their standard of quality is higher than that of "Grid Bias." It is also to be noted that "Grid Bias" made his sweeping statement regarding 3YA on the basis of only one test in the first few minutes of a long transmission. Secondly, his reception of 2YA could not have been so much of a "fiasco" as he claimed or he would surely have preferred to listen direct to 3YA which he says he found so much better! However, "Grid Bias" apparently broadens his charge to include 2YA at all times, so he will have the less diffidence in accepting the challenge we have pleasure in making him in another column.—Ed.

3YA Musical and Dramatic

MR. S. WILLIAMSON (representing the Musicians' Society) presided at a meeting of the 3YA Musical and Dramatic Committee on October 8, when there were also present Messrs. F. H. Christian (Harmonic Society), Geo. Manning (W.E.A.), W. H. Dixon (Royal Christchurch Musical Society), K. Atkinson (staff), J. Mackenzie, and C. S. Booth. The station manager submitted his report on programmes broadcast and proposed. The community singing programmes were discussed and suggestions were advanced.

Challenge to "Grid Bias"

Special Offer made by "The Radio Record" for an Independent Test

ON another page we give in full the controversy that has waged between "Grid Bias" of the "Evening Post," and Mr. A. R. Harris, general manager of the Radio Broadcasting Company, upon the point of the efficiency or otherwise of the transmission by 2YA of the speech on unemployment by the Rt. Hon. J. G. Coates on Tuesday, October 13.

On a number of previous occasions "Grid Bias" has complained of distortion on the part of 2YA. In previous statements Mr. A. R. Harris has explained that a careful check is maintained upon all transmissions, and that proof was submitted to "Grid Bias" in his own house by the chief engineer of the Radio Broadcasting Company of the efficiency and clarity of 2YA's transmission. The technical explanation of the liability to distortion being suffered on multi-valve receivers in close proximity to so high-powered a station as 2YA is referred to by Mr. Harris in his statements elsewhere and is supported by the practical experience of innumerable listeners.

The major point is that 2YA cannot at one and the same time issue transmission which was received clearly at a distance, and transmission which is distorted locally. Obviously the transmission as sent out must be one thing or the other, and if certain listeners get distorted reception locally, then the fault must lie in their own receivers.

In order to set this matter at rest once and for all, the "Radio Record" now issues a definite challenge to "Grid Bias."

The "Radio Record" is prepared to hire the Concert Chamber of the Town Hall, or any other suitable hall in Wellington, on any evening convenient to "Grid Bias," for the purposes of a demonstration.

The "Radio Record" is prepared to pay the expenses of "Grid Bias" removing into that hall his receiving set and returning it to his home. The "Radio Record" is prepared to invite representatives of any commercial receiving set to demonstrate their sets alongside that of "Grid Bias." The same offer will be open to the Radio Broadcasting Company to demonstrate on any set it chooses.

The "Radio Record" is prepared to arrange for three musical judges, to be screened from the sets, to make an award as to the clarity of reception of the sets under test. Prizes of £5 5s., £3 3s. and £2 2s. will be awarded for the sets placed first, second and third.

The "Radio Record" is prepared, in order to secure absolute fairness and equity of administration, to entrust all arrangements for this test to a committee appointed by the Wellington branch of the Radio Dealers' Association.

WILL "GRID BIAS" ACCEPT OUR OFFER?

We want to know definitely once and for all

- (1) Whether 2YA'S transmission is correct or not.
- (2) Whether the receiver of "Grid Bias" as specially prepared by him is capable of good reception compared with standard sets.
- (3) Whether the comments of "Grid Bias" are based on reason or are merely "all bias," and part of a deliberate campaign entered upon for a special predetermined purpose calculated to prejudice the Radio Broadcasting Company.

From

Ghoulies and Ghosties

Good Lord  Deliver Us
—Old Scottish Litany

THE one night of the year when devils and witches are abroad on their baneful midnight errands—that is Hallowe'en. On that night each year a maze of queer superstitions and rituals arising far back in the days of Druidism was once observed all over the British Isles. Unfortunately these traditional customs have not survived the materialism of modern times, except for traces appearing each year in the more remote parts of the British Isles.

The curious charms and spells employed varied greatly, even from county to county, but one in which apples, nuts and ale played a prominent part, seems to have been almost universally observed. The entertainment portion of all Hallowe'en activities consisted chiefly of "bob apple," or the art of endeavouring to secure with the mouth alone an apple suspended from a beam or floating in a tub of water, and of course drinking and feasting. Every house abounded in the best viands that could be afforded, while apples and nuts were devoured in abundance. The nutshells were burnt and from the ashes many strange things were foretold. In this rural sacrifice of nuts propitious omens were sought touching matrimony. A girl wishing to know if her lover was faithful, placed two nuts on the bars of the grate, naming them after her lover and herself. If the nut representing the lover cracked or jumped, he would prove unfaithful. If it began to blaze or burn he had a regard for the person making the trial; while if both lay still and burnt together it prognosticated a happy marriage or a hopeful love.

Fire appeared to play a big part in the ritual designed to protect mortals from the evil machinations of witches and other ghostly enemies. In Lancashire, for example, it was once believed that witches assembled on Hallowe'en to do "their deeds without a name" at their general rendezvous in the forest of Pendle, a ruined and desolate farmhouse, known as the "Malkin Tower" because of the awful purposes to which it was devoted.

This superstition led to a ceremony called "lecting the witches." It was believed that if from eleven to twelve o'clock at night a lighted candle burned steadily while being carried about over fells and hills, it had so far triumphed over the evil power of the witches who, as they passed to the Malkin Tower, would employ their utmost efforts to extinguish the light. If this was

so, the person whom the candle represented might safely defy their menace during the season. If by accident, however, the light went out, it was an omen of evil to the luckless wight for whom the experiment was made.

In Aberdeen, at the conclusion of various magic ceremonies around the hallows fire, the male members of a family would mount guard over it, for neighbours would often clan together, either from humour or pique, for the purpose of scattering certain fires. The resulting battles were often highly entertaining.

In North Wales there once existed a similar custom in which every family for about an hour at night made a great bonfire in the most conspicuous place near the house. When the fire was almost extinguished everyone would throw a white stone into the ashes, having first marked it, and, after saying their prayers while circling the fire, they would retire. It was believed that, if in the morning any one of the stones were missing, the person who threw it in would die within a year.

That even Royalty, as late as 1874, participated in the revels and customs of Hallowe'en, is shown by the following extract taken from the "Guardian," dated November 11 of that year:

"HALLOWE'EN was duly celebrated at Balmoral Castle. Preparations had been made days beforehand, and farmers and others for miles around were present. When darkness set in the celebration began, and her Majesty and the Princess Beatrice, each bearing a large torch, drove out in an open phaeton. A procession formed of the tenants and servants on the estates followed, all carrying huge torches lighted. They walked through the grounds and round the Castle, and the scene as the procession moved onward was very weird and striking. When it had arrived in front of the Castle an immense bonfire, composed of old boxes, packing-cases, and other materials, stored up during the year for the occasion, was set fire to. When the flames were at their brightest a figure, dressed as a hobgoblin, appeared on the scene, drawing a car surrounded by a number of fairies carrying long spears, the car containing the effigy of a witch. A circle having been formed by the torch-bearers, the presiding elf tossed the figure of the witch into the fire, where it was speedily consumed. This cremation over, reels were begun, and were danced with great vigour to the stirring strains of Willie Ross, her Majesty's piper."

Endless curious love divinations were always practised on Hallowe'en. Even snails were used for this purpose. They were placed on an ash-covered hearth, and it was thought that in their crawling they would reveal the initials of the lover's name. In a poem of some sixteen stanzas, entitled "Hallowe'en," Robert Burns mentions no fewer than ten different ways in which a man or woman might see as in a vision, or at all events learn something about, their future partners in marriage.

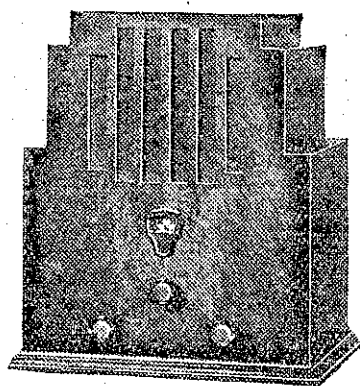
In the South of England if a girl had two lovers and wished to know which was the more constant, she produced two brown apple kernels and stuck one on each cheek, after having (Concluded on page 17.)

In this country very little is known of old English traditional customs such as those of Hallowe'en—so called because it is the vigil of All Saints' Day, which falls on November 1. In the following article are outlined a few of the old superstitious rites and love divinations once practised by all classes on this occasion.

Arrangements have been completed for the broadcasting from 4YA of a Hallowe'en concert, to be given on October 31 in His Majesty's Theatre, Dunedin, under the auspices of the Dunedin Burns Club.



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Edison's Life Story

(Continued from page 3.)

claimed that he could get certain results from the oxidation of iron in an alkaline solution. The critic said that such results were impossible, as the electro motive force set up by the oxidation of iron in an alkaline solution would decompose the water, and the other results claimed to be obtained were not obtainable. Mr. Edison, however, had made his own practical tests and satisfied himself, and was not deterred by the theory of anyone. It was subse-



GEORGE BOSHER.

tenor, better known as Colin Cameron, late of N.Z. Diggers, possesses a voice of exceptional quality. He has been engaged to sing at the Wanganui Garrison Band's concert, which is to be broadcast on relay by 2YA on Thursday, 29th inst.

quently found that he was right. Had the critic tested his theory to four places of decimals, instead of to only two places, he would have seen that Edison was correct. It was a very small difference, but it was vital.

Research From all Angles.

IN his researches Edison did not believe in following the beaten track. When working on an invention, it was as though he was setting out to climb to the summit of a mountain which had not been roaded. Instead of following the usual route, which would reach only a known distance, he would approach it from different angles, and go as far as possible in each instance. The results would then be compared, when it would be found that one line of investigation would reach further than the other, and so his researches would proceed until the desired end was obtained.

Practical Tests.

TO illustrate how practical the great inventor was in all his work. Mr. Harris related how one of the research engineers in the Phonograph Department, after spending months introducing what he thought was a perfect disc record, proudly produced it to Mr. Edison, who deliberately dropped it on the floor, where it broke to pieces. The feelings of the engineer

can be imagined, but as a result of that drastic, but common-sense test, the disc records which were finally approved by Mr. Edison were practically unbreakable.

In another instance, for the purpose of testing a piece of apparatus, before putting it on the market, he had it mounted on a trolley, and employed a husky big Italian for a fortnight to bump it against a brick wall. There was also an element of caustic humour in the tests which he devised for some newly invented concrete furniture. He was assured that it had been given every possible test. "Ship it to San Francisco and back again," said Mr. Edison, who evidently appreciated the handling it would receive going across the whole of the continent and returning. In all his researches he always had an ingenious but vital method of practical testing.

The Last Meeting.

ASKED if, on his last visit to America in connection with broadcasting, he had seen the great inventor, Mr. Harris said he had made a point of doing so. "I made a special journey to his home, and was delighted to renew acquaintance with him. He was older, certainly, than when I worked in his laboratory, and he had grown deaf, so that it was difficult to carry on conversation with him—in fact, one could only communicate by writing. But there was no doubt that his intellect was as keen as ever. Mr. Edison did not take his deafness as an affliction—instead, he considered that the advantages of being deaf outweighed the disadvantages, but it seemed sad that the man who had given the world the phonograph should have been deprived of the pleasure afforded by it in its present perfected state."

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The Wanganui Garrison Band who will broadcast on relay from 2YA on Thursday, October 29.



Famous N.Z. Band to Broadcast Relay from Wanganui

ONE of the main features most listeners can look back with pleasure to is the relays of the concerts given by the Wanganui Garrison Band in their own city. Another of these concerts will be given on Thursday, October 29, and listeners are assured that this concert will come up to the very high standard already set.

The band itself has a splendid record. Formed in 1882, and therefore one of the oldest contesting bands in the Dominion, it has a record second to none in New Zealand and Australia. To its credit in band championships are 27 firsts, 10 seconds and four third prizes. Among these is the championship won at the Christchurch International Exhibition—the largest band contest ever held in New Zealand, in which 29 bands, including the famous Newcastle City Band, under W. Bricknell, contested.

The band, playing under James Crichton, gained the honour of the International Prize Band. In 1910 the band, under Albert Wade, won the championship of Australia

at Ballarat. It is the only band which has visited Australia and been successful in winning the Australian-New Zealand Championship. At the Dunedin Exhibition contest in 1926, when F. J. Rickets, better known as Kenneth Alford, and conductor of the Argyll and Sutherland



Mary Massey, L.A.B., whom you will hear next Thursday from 2YA. Miss Massey is well known in Taranaki as a dramatic soprano.

Highlanders' Band, was adjudicator, the combination was successful in both contest selections.

Still numbered among the ranks are W. Francis, Jas. McGrath, J. Collins, W. Summers, Scotty Miller and H. Hall, members who have been with the band very many years and who have helped to build up this creditable record.



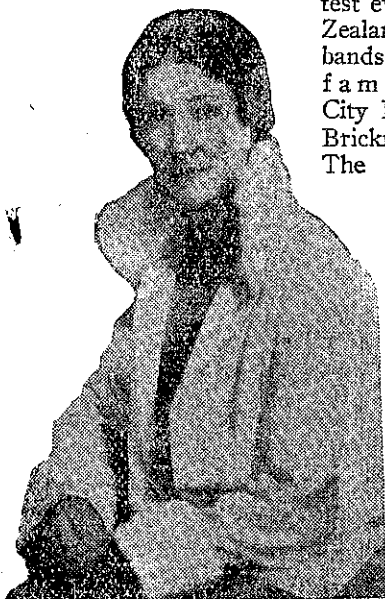
Mrs. S. Kendall, F.T.C.L., a talented pianist, who will be one of the accompanists.

The late secretary of the band, J. Trussell, who has been a member for over 40 years, is in charge of the Junior Band, comprising over 30 members. Some 14 members have graduated from this combination to fill the ranks of the senior band.

The band will be supported by many fine vocalists, including Mary Massey, L.A.B., dramatic soprano, and Edna Rothery, siffleuse, both well-known Taranaki artists; C. Haar, who will sing two of Wallace's freebooter songs; and Geo. Boshier. Other soloists will be Jim Scott (musical monologues), C. Tucker (flute solos), Owen Williams (euphonium solos) and J. Farrell (cornet solos).

Among its items, the band will include the march, "Wanganui City," composed by Thomas Gray, deputy-conductor of the band. Mr. Gray is one of the best-known bandsmen in New Zealand, having won New Zealand championships with trombone, euphonium, and E flat bass.

The other items will include selections (Concluded on page 10.)



Edna Rothery, Siffleuse. A well-known New Plymouth artist who will be heard in several numbers.

Band Concert

(Continued from previous page.)

from "William Tell" and the "Valkyrie," a descriptive piece, "Jamie's Patrol," and Godfrey's "Reminiscences of the Plantation."

The accompanists for the evening will be Mrs. S. Kendall, F.T.O.L., and Beryl Masters, L.A.B.

2YA Church Service Advisory Committee

THE Rev. C. V. Rooke (Anglican), Pastor W. G. Carpenter (Church of Christ), Rev. R. J. Howie (Presbyterian), Mrs. D. Basham, and Mr. J. Ball were present at a meeting of 2YA Church Service Committee held on October 6, at which the Rev. C. V. Rooke presided.

The chairman reported that a deputation had waited on the Hon. J. B. Donald, Postmaster-General, who had given his assurance that if he were Minister, religious services would continue to be broadcast.

An application from St. Peter's Church (Anglican) for inclusion in the rota was considered, and it was decided that in the event of the elimination of one of the two Anglican churches at present on the rota St. Peter's would receive favourable consideration.

After a general discussion on religious broadcasts the meeting adjourned till Tuesday, November 3.



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Six Talks on "The Life and Work of Bernard Shaw"

By the
Rev. William A. Constable, M.A.
Synopsis No. 3—*Satirist.*

To be broadcast from 1YA, Tuesday, October 27, at 7.30 p.m.

SHAW first entered the drama as a Socialist propagandist. Whilst he wisely refrains from preaching any particular panacea in his plays, his aim is definitely to make people think about social problems. His first plays are "Plays Unpleasant," dealing in "Widowers' Houses" with slum property, and in "Mrs. Warren's Profession" with prostitution (the latter was stupidly banned by the censor).

He deals with the general problem of poverty and man's responsibility for it in "Major Barbara," in the preface to which he says:—"We must share the world's guilt or go to another planet: we must save the world's honour if we are to save our own." Here we have Shaw as a destructive critic of social evils in the drama.

We next turn to his more definite work as a satirist, where his task is to lash the evils and follies of our age with the whip of ridicule. This is first revealed in "Arms and the Man," where romantic militarism is satirised. Military stupidity again catches it in the person of Major Swindon in the brilliant court-martial scene of "The Devil's Disciple," with its fine characterisation of General Burgoyne.

"The Doctor's Dilemma" is throughout laughable satire of the medical profession, which has always tended to be the butt of the comic dramatists even before the classic satire of Moliere.

Political satire is very common in Shaw's plays from the characterisation of Tom Broadbent "the Gladstonised Englishman" in "John Bull's Other Island" to the whole theme and treatment of "The Apple Cart."

In his popular play "Pygmalion" we have a richly humorous satire of "middle class morality" in the dustman, Alfred Doolittle, who describes himself as "a member of the undeserving poor." Whilst moral priggishness and respectability are more seriously criticised by Undersheff, the millionaire armament manufacturer in "Major Barbara," who says:—"You are all alike, you respectable people. You can't tell me the bursting strain of a ten-inch gun, which is a very simple matter, but you all think you can tell me the bursting strain of a man under temptation. You daren't handle high explosives, but you're all ready to handle honesty and truth and justice and the whole duty of man, and kill one another at that game." Question for discussion:—

In his endeavour for social betterment, does Shaw achieve more by his satirical ridicule of social evils, or by his more serious criticism?

Adult Education by New B Class Station Radio

International Conference

AT the annual conference of the World Association for Adult Education held in Vienna from August 18 to 22 there were two main subjects for discussion—"Adult Education and Unemployment" and "Adult Education and Broadcasting."

In the wireless section the use of broadcasting as a means of direct education was considered from several viewpoints; for instance, in combating illiteracy; in supplementing technical and vocational training; in supplying professional and technical information, as in agriculture; and in increasing

musical appreciation. The possibilities of broadcasting in the teaching of foreign languages was also considered, and plans for international co-operation brought forward.

LISTENERS will be interested to read of the advent in the near future of a new B class broadcasting station in Wellington operating under the call of 2ZR on a frequency of 1280 kilocycles (234.4 metres).

2ZR is being built by Messrs. Green and Dixon, radio engineers, and will be operated by them from a central position in the city.

Children's Sessions

FROM 2YA.

Monday.—Uncle Jeff is with us again to-night, with his cheerful songs and puzzles, too. Cousin Eileen is bringing choruses and songs, and with Uncle Harry, Kipling Lady, and "Budge and Toddy" you should all enjoy the Children's Hour.

Tuesday.—There is to be a little play called "Fairy Frolic" and the Fairies will sing and play on their silvery bells and cobweb harps. Miss Vera Boesley has prepared this programme and Jumbo will conduct the session.

Wednesday.—Cousin Dorothy will give a little talk about how they celebrate the coming of Captain Cook in Tonga. Aunt Daisy will have some Cheerful Chirpers to sing choruses.

Thursday.—Miss Nalder has promised us a "Dutch Evening" to-night, for it's tulip time now. You will hear

Flax Industry

MR. R. SEMPLE, M.P., will, on Friday evening next, October 23, give at 7.40 from 2YA a talk on "The Value of the New Zealand Flax Industry, why it has declined, and how to save it." Mr. Semple has for a long time taken a keen interest in the flax industry, and his talk will be of special value to all interested in it.

the story about "Saving the Dike." There will be clog dancing, "Mr. Baggy Breeches," Dutch gardens (not forgetting the windmills), and the Dutch National Song. Big Brother Jack and Uncle George will be present.

Friday.—Tweedledum and Tweedledee are going to follow the Fairies into Fairyland to-night, and you will hear all about the Land of Toadstools, and how Bufo won the King's Prize with his One-legged Stool. Mr. Norman Izett is bringing some little tots to play and sing.

Saturday.—As you all know, this is the night for Hallow'een parties. Therefore, Mrs. Isobel Halligan has arranged a little play called "All Hallow'een," and after that there will be a real party to celebrate the event. What fun all the little people who have birthdays will have.

Sunday.—The Song Service will as usual be conducted by Uncle George.

GOOD JOBS FOR RADIO EXPERTS

The modern radio is a long way ahead of the simple sets that almost anyone could make, consequently, there is a great demand from Radio Manufacturers, Dealers, Shipping Companies, and the Government for MEN WHO KNOW. The I.C.S. RADIO COURSE was planned to meet present-day demands. We train you for REAL success in Radio. Write for illustrated literature and full particulars.

**The International Correspondence
Schools (N.Z.), Ltd.,**
1822 WAKEFIELD ST., WELLINGTON.

WHEN me neighbor starts to put up a aerial stick I knew it was time I gave 'im a few 'ints on radio reception. Believin' in comfort, I carried our dust tin down the garden for a seat. The wind blowin' the other way didn't make it unpleasant for either of us. He was busy knockin' two sticks together, when I said to be sociable like:

"Broadcastin' is a wunnerful business!"

"Yes," said 'e, "and it's only in its infancy!"

"Yer read that in the papers," I said. "Personally I reckons it's in its dotage, and for why? Because the 'ole business is a fake from A to Z, in all its P's and Q's, in the three R's, in everything except the £ s. d.

"That there inventor, Macaroni, started the business, and it's the biggest bluff since Julius Caesar built the pyramids to run into when the Babylonians started bombin' Palestine. He told the newspapers it was a museum to put mummies in, and everybody believed it.

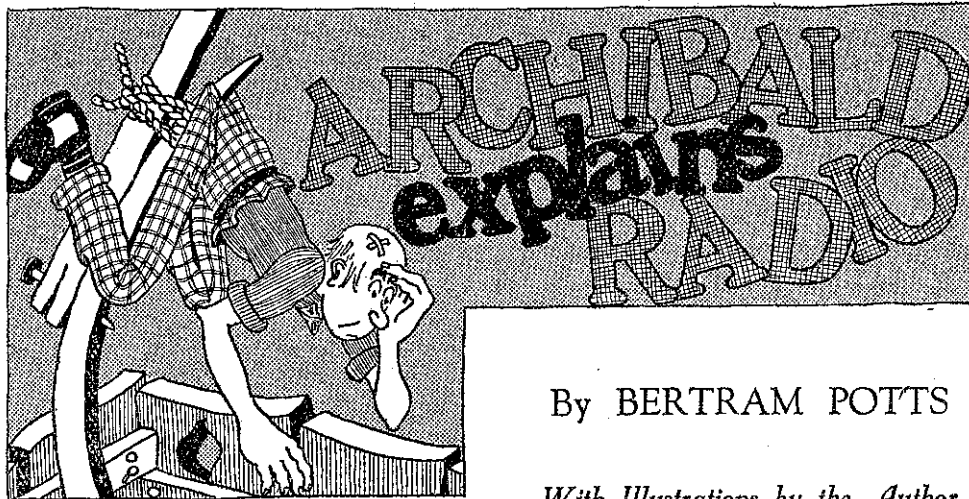
"Well, this 'ere Macaroni chap explains it some-thin' like this. The lady soprano singer exercises her laryngitis in song in front of the microscope in the study. The voice goes along a 'ollow wire to the radio company's engine room, where the noises are shot into the atmospheric conditions prevailing—and go bumping along from wave to wave. Who ever seen waves that 'igh? Nobody did! They says, of course, these are invisible waves, what nobody ever seen. Yet somebody draws a picture of them for the 'Radio Record' a few weeks back!

"If you 'ave a aerial stick in yer back garden, the sounds, what 'ave been 'ornpipin' along the waves, spot it in the distance, 'ops on to the wire, and slides right to yer set, and into some electric light globes, what don't even give enough light to read by! I reckon that there Macaroni 'as shares in every electric light works were globes are made.

"ANYWAY, I'm tellin' yer what the papers says and not what I think. After the voice goes through the globes, it's supposed to get condensed in the condenser. What rot! 'Ave yer ever opened one of them there condensers? I've seen condensed milk, but never a condensed concerto. What did I find when I opened one?—just bits of tin and wire!"

'E asked me to give 'im a 'and to put the pole up and for ten minutes we was busy fixin' guy ropes and such like. When every-thin' was fast, 'e discovered 'e 'ad not tied his wire on the top. I offered to climb up, bein' light, but it was a mad sort of pole. It started to bend, and he said "drop off" or it would break. Wat with tryin' to let go and 'ang on at the same time, I got 'ung up by the pants on the sharp end of the lower post, where 'e 'ad tied the top part on. I felt a jackass tryin' to 'ang up with dignity. 'E 'ad the 'ide to laugh and I got annoyed. 'E tried standin' on the fence to lift me down, and in the end 'e cut me pants and let me drop off. Anyway I fell on 'is best cabbages and 'e got annoyed when I laughed.

In the end we fixed the aerial sticks before it got dark—and we listened in after tea. There was somethin' wrong with the set, for



By BERTRAM POTTS

With Illustrations by the Author

'e could 'ear nothin'. 'E 'ad a little workshop under the 'ouse, and we went there to adjust somethin'.

"I was tellin' you this afternoon," I said, "about the kidstake the radio folks puts over. The voice when it comes out of the condenser is very small now and looks round for the transformalin gadget where it's disinfected in case the singer 'as adenoids or

tonsolititis. This process is supposed to transform it—and in spite of what they says it don't get transformed at all, for it is still a voice when it comes out like it was when it went in!

"Well, when the soprano solo or quarto, or whatever it is, comes out of the transformer it is ready for the loudspeaker, as if it wasn't good enough when it was fust sung. It pops along a wire and when it sees that it 'as come to the end it drops off into the same song, what it was singin' when it fust left the study! What I wants to know is, how does the voice know which song it is, when it ain't got any brain to remember with? And why don't the second verse come through fust sometimes when they all go together into the accumulator? That's never been answered!

"I ET me tell yer the truth about the broadcastin' business and 'ow radio really works. The fust time I suspected something was wrong and fishy was when I visited a friend's set. He twisted the 'andles round and presently we 'eard some music. 'It's Three-'Ello Melbourne,' 'e says. Just then the music stopped and a man says it's '2YA, Wellington, now closin' down. G-o-o-o-o-d night' like as if 'e were paid by the minute and 'e was tryin' to get some overtime by makin' it spin out. Known' as it couldn't be the set what 'ad told a lie, it must 'ave been the station-pronouncer what 'ad forgot what station he was supposed to shout out. Anyway it filled me 'ead with doubts.

"Listen!" I continues. "I reckons when yer fills in the paper for a license, they secretly connects yer 'ouse up unbeknown to yer with 'ollow pipes. What's the army of men for diggin' in the road all over the town and country? I seen more trenches in Wellington than I seen in France and Belgium. They says it's the water or the gas! But most of them's broadcastin' men puttin' tubes into the streets. As soon as they knows yer thinks of buyin' a radio—for no man can keep it to 'imself—they connects yer 'ouse up on the quiet, and the inspector comes along and there yer are!"

"'Ow is it pirates get music without tellin' nobody?" asks 'e.

"Where do they buy the light bulbs for the set," I retorts, "the resistances and the static? At a shop! Well, what's to prevent the shopkeeper followin' them



'ome and there yer are! They work 'and in mouth with the navvies what connect the 'ouses with the 'ollow pipes.

I was standin' on a box tryin' to find the 'idden broadcastin' wire that I knew must be somewhere under the 'ouse, when I slipped off on to me 'ead, so I 'ad to go 'ome. It was a pity, for I could see 'e was not convinced, him not bein' a thinkin' type of man.

Yours faithfully,
ARCHIBALD.

News and Views of the D.X. Club

Answers to Correspondents

J.P.C. (Palmerston North), and DX-23MC (Christchurch): A discussion on whether or not Australian stations should be cut out of the competition appears in this month's "Radio Log." Alterations will not be made to the rules until after the next competition, closing on December 31.

C.G. (Gisborne) and others: Your letters have been passed over to the editor of the "Radio Log," and appear in this month's issue.

DX39MC (Kaikoura): International return postage coupons may be obtained from your local post office for 5d. This would make dxing a dear proposition, however.

A.E.J. (Levin): No, we think umbrella aerial would not be as efficient as your present one. Are the stations you have logged all verified?

"Gipsy Moth" (Auckland): Your excellent log shows just what can be done with

Are YOU a Member of the DX Club?

If not, post your application to the DX Editor, Box 1032, Wellington, enclosing 2/6 to cover cost of badge and certificate (post free). Subscription to the "Radio Log"—the DXer's own magazine—is 6/6 per annum, post free. Book your order now and receive the latest in DX news.

det. 2 audio set. You would notice an appreciable difference if you increased your plate voltage to 90, and a still further one with 150 volts. Four Americans are certainly all you can expect from your set. With regard to your earth, the lead floor you mention is acting as a counterpoise, and is evidently quite efficient.

R.J.W. (Kapiti): Sorry there was a mix-up concerning your subscription. DX Club membership is not restricted to just one member of a family. The more the merrier.

DX74W (Wellington): We are afraid we do not know who is the youngest member of the club, as particulars concerning age are not required from prospective members.

"Red Bird" (Wellington): You should be pleased to receive verification in any form. Cards no doubt look very nice, but they are expensive items, and times are hard.

DX36MC (Blenheim): Call sign, town and State is quite sufficient. WGN, Tribune Company, Chicago, Illinois. Addresses of American stations were given in the first two issues of the "Radio Log."

DX91A (Hamilton): We apologise for the misprint, which was due to a typographical error. For the benefit of other readers, two South African stations mentioned in a letter by "Digger" (Hamilton), in a recent issue, were given as ZTC and ZTJ, instead of ZTC and ZTJ.

J.B. (Kohukohu): Your letter has been filed with other reports on heterodyne interference.

N. Jenkins (Masterton): All particulars of N.Z. "B" stations and amateur transmitters published in the "Log" are as given by the Post and Telegraph Department. No amateurs transmit on the broadcast band.

H.F.A. Masterton: Thanks for schedules. These appear in this month's "Radio Log."

DX6MC (Christchurch): Your complaint that the DX forms do not provide sufficient space for weather conditions is the first we have received on this score. If other dxers agree with you we will make the necessary provision.

Addresses and Addresses Wanted

"Jumbo" (Otago): S. Kuhn. Radio Journal, Station OKR, Bratislava, Czechoslovakia.

Identification Wanted

Station heard at 2.45 a.m. on October 11, a few degrees above 221, Hastings. "Hallo, hallo," was heard, followed by whistling and talking.—DX5NW (Nelson).

Station heard at R2-3 on October 9 on approximately 560 k.c. (545m.). Items heard: 2.40 a.m., "Down the River of

Golden Dreams"; orchestra, 2.44 a.m., "When It's Springtime in the Rockies"; another orchestral item.—DX23NC (Christchurch).

American on approx. 1035 k.c. (289 metres) heard on an early morning session on October 14 transmitting request items from 11.10 N.Z. Summer Time onward. Items heard: 11.12, "Sidewalks of New York"; 11.15, "The Girl From Texas"; 11.25, "Red Wing," a two-step. He then faded out. Announcer mentioned something about being 27 miles from New York.—DX34MC (Christchurch).

Station on 630 k.c. (476 m.) heard at approx. 7.30 p.m. on October 13. Items heard include: "One Heavenly Night" and "Drink, Brothers, Drink." Later I heard 1YA's announcer introducing the Rt. Hon. J. G. Coates.—DX2HB (Hastings).

Stranger heard at 7.15 p.m. on October 12 on approx. 528 m. (572 k.c.) asking for reports from DX members of New Zealand as they were putting over dance music for them. They did not give any call, however.—DX64A (Mokau).

Station heard on the evening of October 8 on 2ZI, Hastings's, frequency, 1330 k.c. (225 m.). Musical items, which sounded like recordings. Also could any listener oblige me with the name of the song sung by — Merrick from KFI, Los Angeles, at about 7.45 p.m. on October 12 (their Sunday programme)? The song is usually the concluding number of the Hotel St. Francis dance programme.—"Argonaut" (Auckland).

Stations Identified

"Riser" (Dunedin): Station on 276m. (1030 k.c.) is Konisberg, Germany. "Marama" (Colac Bay), Cracow (Poland, 244m. (1235 k.c.). The cuckoo call is characteristic of this station.—H.F.A. (Masterton).

W.H. (Onehunga): Station on approx. 1250 k.c. (240 metres), with a call like KPAC, would be KTAT, Fort Worth, Texas, on 1240 k.c. (242 metres).

"Hydro" (Napier): 7DR, Devonport, Tasmania, power 7 watts. He called me the last three Saturdays and Sundays at midnight Tasmanian time. B.W. (Stratford) also heard him.—J.P.C. (P.N.).

A.E.J. (Levin): Music may occasionally be heard faintly in the background during the evening talk from 2YA. It is not, however, another station, but merely one of the orchestras practising in the next studio. G.Y. (Wellington): You heard KZRM, Manila, on approx. 382 m. (785 k.c.). The announcer always pronounces the "Z" as "Zee."

DX Topics

Europe on One Valve!! In the "Questions and Answers" columns, T. A. (Morrinsville) asks if anyone has logged more than 40 stations

NEW REDUCED PRICES for PHILIPS A.C. VALVES

F 109 A	(226)	10/6
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F 242	(224)	16/-
F 203	(245)	12/-
C 603	(171A)	15/-
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1560	(280)	12/-
1562	(281)	45/-

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on a one-valve set. I use only two valves, and have logged 15 European stations. I once heard Konigsberg very faintly on one valve. KGRS, Amarillo, Texas, on 1410 k.c. (213 metres), was logged on October 15.—H.F.A. (Masterton).

Recent Loggings.

LATEST loggings include WABC, 860 k.c. (349 metres); KGW, 620 k.c. (484 metres); and 6PR, Perth, testing on 880 k.c. (341 metres). I do not agree with Mr. Ellis in his statement concerning the omission of Australian stations in the DX Competition. In this district, at least, some of the Americans are much easier to log than some of the Australian "B's."—DX9500 (Dunedin).

Twenty Europeans Heard.

THE Europeans have been coming in very well lately. One morning recently I heard 20. The best received were OKR, Bratislava, Czechoslovakia, and OKB, Brno; Muhlack, Germany; EAJ13 and EAJ1, Barcelona; Heilsberg, Germany; Crakow, Poland; and Turin, Italy. There are also a number of others which are loud on some mornings, while on others they are almost inaudible. The new amateur Australian transmitters heard recently are:—7DR, Devonport, Tasmania, and 80B, Richmond, Victoria. The latter station was on the air at 4 a.m. on the 11th, when strength was R7. KECA, Los Angeles, on 1430 k.c. (210m.), has been heard consistently of late.—N. Jenkins (Masterton).

Reports Wanted.

THE following is an extract from a letter received from KMOX, St. Louis. DX6MC (Christchurch):—"As you probably realise, any report that you can make on the reception of future programmes will be of considerable help to us. If you experience any difficulty with fading, etc., and care to write us again, we would appreciate your giving us information as to your local weather conditions, both before and after, as well as during the period of reception."

"The organist, Miss Jules, whom you heard, is one of the finest available, and much appreciated your comments. I am

American Reception Table

FOLLOWING is a table, showing relative strengths of reception (R1-10), by American stations tuned in one evening recently.—N. Jenkins (Masterton):—

KFI	9
KPO, KGO, KTM	8
WABC, KOA, WMAQ, KGER	7
KHJ, KFSD, KHQ, KNX ..	6
WENR, WBBM, KDYL ...	5
KGMB, KOIL, KFOX	4
KMCS, KSL, KFBI	3
KFVD, KOMO, KVI, KV00 ..	2
KDB, WBAP, KGB	1

extremely sorry that you are able only to tune in our late programme, as we have quite a varied schedule, and I would be interested in hearing your reaction to the various types. Yours, etc., William H. West, chief engineer." (The concluding paragraph is an invitation to visit the studio and see their 50 k.w. transmitter.)

DX Jottings.

LATEST verifications include WOL, Ames, Iowa; JOGK, Kumata; VR3RI, Melbourne; and VK3RG, Castlemaine. Has any dxer heard VK3EK, Melbourne.—DX8400 (Dunedin).

2GB Black-listed.

I NOTICE that DX1NW has 2GB on his black-list for not replying to him in four months. I sent for verification to this station a fortnight ago, and received it a few days ago. Nevertheless, he is still on my black-list, because, al-

Special Broadcast for N.Z.

The following information appears in a personal letter recently received from the Assistant Manager of station KFI, Los Angeles.—D. M. Walsh (Auckland).

"We will be glad to send greetings from KFI to our radio friends in New Zealand on Friday, October 23, at approximately 11.30 P.S.T."

This broadcast may be picked up in New Zealand at 7.30 p.m. the following day.

though I enclosed two one penny Australian stamps, he sent the card with no stamps at all, and I had to pay 3d.—DX17A (Auckland).

New Ship-to-shore Transmitter.

A NEW station at present testing in Gisborne on 1500 kc. (200 m.) is not a new B station. It is owned by the Harbour Board, and will be used as a ship-to-shore radio telephony station, and the call, pro tem, is ZL2AE. DX17HB (Gisborne) and "Wainui" (Gisborne): My address is available at the "Radio Record" office.—DX31HB (Gisborne).

DX-ing with a One-valver.

I HAVE often read discussions in the "Radio Record" on the possibilities of the one-valve receiver. I have owned one for some time, and up to the present have received no less than 72 stations, including Japanese, of which I have heard five. On inspection, the log shows: New Zealand 27, Australian 28, American 17, making a grand total, with the above, of 72. I constructed a second one-valver, and I received 24 stations, including five Americans, in four hours. My aerial is approximately 150 feet long, 55 feet high at one end, 46 feet at the other. A galvanised earth pipe is used.—J.V.K. (Palmerston).

Reports Wanted.

ON September 21, at approximately 9.30 p.m., I picked up KFBI, Milford, Kansas, and KYA, San Francisco, on special transmissions. Both were asking for reports from New Zealand. KFBI closed at 11.45 p.m. I noticed several DX-ers have been complaining about 4BO not sending verification cards. I sent him a report on September 14, and received two cards in return on the 29th. One of them had been sent from Brisbane to Sydney by air mail. The only Australian who has kept me waiting is 2GB.—DX23A (Cambridge).

Long-Lived Valves.

I HAVE been a keen listener on the broadcast band now for nearly six years, and can still remember 2YA's predecessor, 2YK. I am still using my original receiver, a five-valve commercial neodyne battery-operated set. The only alteration I have made was a transformer replacement. I am still using my original set of valves—201A's—and estimate that they have had at least 7000 hours' use in my broadcast receiver alone. Three of them I also use in my short-wave receiver, which is 3½ years old, while one of the remaining two is also used as an oscillator in my transmitter (ZL2HR). A short while ago I replaced them with a new set of valves, but could notice no difference, so returned them. They are truly general purpose valves. During the period I have been listening, however, I have done very little reporting. My aim has not been quantity, but

Heckling by Radio

DURING recent municipal elections in Holland agitation occurred in political circles owing to the sudden arrival on the scene of a secret broadcast transmitter operated by a small reactionary party.

Just when election fever was at its height thousands of listeners were amazed to hear on the official wavelength of Hilversum, Holland's main station, the announcement: "Hallo! Vote for Vohydbond, list No. 3. Down with the Reds!" Later on, during the Hilversum musical programme, the same voice was heard attacking Socialists, Protestants and Catholics, while inviting listeners to vote for the aforementioned candidate.

The authorities are still diligently hunting for the offending transmitter.

variety. I endeavour to secure a verification from each country (or, in the case of Australia, each State). South America is the only continent which I have not heard a broadcast station. My first verification was received from VK3BY, four years ago. One station who had several tests with me was VK2BV, Waverley Radio Club, Sydney. So far as I know, I am the only person in New Zealand who has received a verification from them. He uses only 2½ watts input.—A. Stevens.

Audible Journalism

ONCE more Mahomet must go to the mountain, this time in the shape of the American newspaper interests, who are making determined efforts to "capture" broadcasting stations which have threatened to swallow up their advertising revenue. According to an American report, the papers realise that they have little chance of obtaining permission to erect new stations, and consequently their labours are directed towards acquiring existing plants.

The Federal Radio Commission has generally been favourably disposed towards newspaper ownership of stations, probably because the newspapers are almost invariably the leaders of popular opinion in their respective communities. The new movement is said to be inaugurating an era of "audible journalism."

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We have, printed on good, durable paper, a practical Log Chart that enables you to follow on your control dial the exact position at which a station should come in. These are selling like hot cakes at 4d. each, plus 1d. postage.

RADIO

TIME TABLE

We still have a few Radio Time Tables left. They are printed on strong paper that stands folding, and enumerate all the leading New Zealand, Australian and American stations, including a number of short-wavers. Frequency, wave-length and power are given of each station, also the call and location. The reasonable price is 4d. each, plus 1d. postage.

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Exact replicas of the Club Badge done in two colours on gummed paper. Will stick to anything. Attach them to your letters, envelopes, etc. Price: 3/- a hundred.

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QUESTIONS: ANSWERS

FRANK KEE



The Technical Editor will, through these columns, be pleased to help readers experiencing trouble with their sets. Queries are limited to three—for more than this a shilling fee is charged, and a similar fee is payable for queries answered by post. Supplying layouts, circuits and solutions of intricate theoretical problems is beyond the scope of this service.

A coupon must accompany all requests for information. Non-appearance of the coupon in any issue cannot be regarded as a reason for its not being used.

Address all queries, The Technical Editor, Box 1032, Wellington.



PUSHPULL (Auckland).—I intend using an ordinary audio transformer as input to a pushpull stage. Will you show how the grid bias is to be connected?

A.: The two resistances are used across the secondary, as was shown in the "Diagnosis" a short time back. The other connections are then the same; you merely regard the centre tap of the resistance as the centre tap of the transformers and the two ends, of course, are the same as when a transformer is used.

EXPERIMENTER (Dunedin).—We have no technical data concerning the speaker you mention.

2. Where can I obtain the paper to make the cone?

A.: Any well-known dealer could obtain it for you.

3. I have a four-valve B.D. with a 245 in the last stage; 180 volts are used on the plate. Will this be suitable to operate a dynamic speaker?

A.: With 180 volts only you would be better to use a valve of the P265A class, and work this at maximum.

ELECTRO ((Kelso).—Is the Loftin-White, with E443 as output sufficient to work a dynamic speaker? It will overload a cone, but when I connect it to a dynamic, the field current of which makes very little difference, the volume level falls considerably.

A.: There is something wrong with your speaker or field supply. The Loftin-White will give you excellent volume from the ordinary dynamic speaker. When you connect the field coil you should notice a decided step-up in volume. Have you tested your accumulator with a meter when it is on load?

2. The power transformer is 60 watts and does not overload. Would this be sufficient to supply the field current of a high voltage dynamic speaker?

A.: No; the field coil takes a fairly heavy load, and your transformer does not have a great deal of power to spare.

FAN-1927 (Napier).—I have an old battery set with R.C.C. amplification. What valves do you suggest with a view to economy in running?

A.: Use 221's in all stages except the last, where you can use one of the high-gain power-valve type valves.

2. What values of resistance are usually used?

A.: The resistances in the plate circuit are generally 100,000 ohms. Those in the grid circuit 250,000 ohms.

3. Could s.g. valves be used, and if so, how?

A.: S.G. valves could be used, but the change would be uneconomic. The set would have to be completely redesigned on the radio side.

T.K.B. (Cambridge).—Are PM3, and PM4 suitable valves for the "Kestrel Three"?—Yes, but M4D is a better detector than PM3.

2. Are details of an a.c. version of the "Kestrel Three" available?

A.: Not at the present time. We hope to have them ready shortly.

SUPER SIX (N.P.).—Will the super six be more powerful than the "Outspan Five"?

A.: Considerably so, but it must be used from a loop antenna, and this will offset, to some extent, the abnormal sensitivity of the receiver.

2. Will it be single dial control, and when will it be out?

A.: It will have two dials, and we hope will be out next week.

3. What will be the cost, including the valves?

A.: Somewhere in the vicinity of £14.

A.S.C. (Christchurch).—Why do I blow out so many valves?

A.: Your voltages are too high, due, probably to an incorrect number of turns on the primary winding. Your best plan is to communicate with the agents who sold you the set and get their service man to put a meter in the circuit.

B.B. (Gisborne).—What is the solution used in a bulkite electrolytic charger?

A.: Sulphuric acid specific gravity 1200. 2. Should I use 201A valves in my set?

A.: You can use them in all stages except the last, where we should advise you to use one of the high gain power valves.

3. Would a wavetrap separate the local stations from 22W?—We think so.

DX72W (Wellington).—When I switch on my set a loud plop comes from the speaker, and then the music is heard. At other times when the set is switched on the items come through without the plop.

A.: This may be due to your set oscillating, or to a defective transformer, or valve.

J.B.C. (Petone).—I have a five-valve set, but when I put the speaker on

the cabinet a loud whine is heard in the speaker.

A.: This is caused through a microphonic valve. Place a leather cap or a cocoa tin inverted over the detector.

2. If I wish to build the "Outspan Five" could I do so by using R.C.C. amplification?

A.: Yes, the "Outspan" would be quite suitable for resistance capacity coupling to the audio, but you would have to use three valves instead of the two we specify for transformer coupling.

NOISE (Christchurch).—Refer back to a short article in the "R.R." a couple of weeks ago, in which it is pointed out that when the dual wavetrap was first described a wire was left out of the layout diagram.

2. Is it possible to charge an "A" battery from the generator of a motor-bicycle?

A.: Yes, but watch the charging rate. It should not be more than 4 or 5 amps.

3. What is the method of connection?

A.: Disconnect the two wires now going to the accumulator on your motor-bicycle and take them instead to the "A" battery. Start the engine running and leave it on until the battery is charged. It will possibly be a rather expensive method of charging an accumulator, but otherwise it should be satisfactory. Adjust the charger to a high rate and set the motor-bicycle running slowly.

C.T.H. (Dennistown).—Is the pentode valves better than the make I mention, and if so could they be used in my American a.c. set?

A.: You do not give us very many particulars about your receiver. We presume it is one of the a.c. type. You cannot use a pentode in it, and must replace

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"Elementary Principles of Wireless Telegraphy and Telephony," by Bangay. Revised edition by O. F. Brown, M.A. B.Sc., 13/2.

"Morse Made Easy," 7d.

"Perry Auto-Time Morse System," 10d. R.A. Handbook (Handy's), 8th edition, 5/3.

"Technical Instruction for Wireless Telegraphists," by Dowsett. Just issued. 31/-.

Blue Prints—"Batteryless Neutrodyne," "Selective Crystal Set, Two Stages Audio," "6-Valve Neutrodyne, One Transformer and Two Resistance coupled Audio Stages," "3-Valve Browning-Drake," "7-valve Super Het," 1/6 each.

"Scott's Radio Handbook," 6th edition 1/3.

"Q.S.T.," Sept. 1/10.

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(2) Write legibly, and on one side of the paper.

(3) We do not design circuits, but accept suggestions for feature articles

with the valves as they were originally. The make of valve you mention is a standard first-class one, and by using this you cannot go wrong.

R. M. (Grey): I have an a.c. set, the electricity being taken from a light socket. When the power is on at the light and the set off I find that I can get a spark by touching the earth wire to the chassis. Should this be so?

A.: It depends on the situation of the set switch. If it is in the primary lead there should not be a spark. If it is on the secondary it is quite possible. Have you tried turning the plug connecting your set with the lighting system around? In any case, the defect is not serious, and there is no need to worry about it.

C. R. M. (Christchurch): Patent earths are rarely a success. We cannot quite understand your particular installation, but we think, however, that by burying the whole outfit and carrying the lead to the set, you will be doing more or less rightly.

DUPLEX (Auckland): Concerning the Advance receiver in this year's "Guide," the theoretical diagram shows the fixed condenser connected to r.f. C1 as 1. Should this be 1mfd.?

A.: It is really immaterial which is used. When the paper condenser was used the necessary alteration to the diagram was overlooked.

2. The list of parts shows two .5 mfd. condensers, but I can trace one only in the circuit.

A.: Only one .5 condenser is required—probably it was intended to use another where a 1 mfd. has been placed. These small discrepancies occur through drawing diagrams before the finish of experiments in order to save time, but actually the working of the set is not affected.

3. My variable condensers have 23 plates and 11 plates respectively. What are the present values, and what value of fixed condensers is required in series to adapt these to a shortwave set?

A.: You have not told us what make of condenser you are using, nor the size of the plates. The 23 plate condensers will probably be .00035 and the eleven plates one .00015. In this case the value of series condensers are .00014 and .000075.

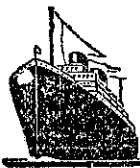
C. B. (Auckland): Oscillation in the "Advance" s.w. set will take place only on certain places of the two tuning condensers. One has to strike a combination between the two condensers before the set will oscillate properly. The set has been made exactly to specifications.

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A.: Making the set "exactly to specifications" still allows the constructor a considerable margin of difference between his own set and the original, but such differences do not necessarily prevent good results from being obtained. Your trouble with oscillation is unusual in that there are so many patches around the dials. The patches are known as "holes" and are caused chiefly by poor or unsuitable r.f. chokes, so we suggest your making up or purchasing another choke different from the one you are using. This applies particularly to the choke associate with the tickler, which has to be about 80 millihenries. Since

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the publication of the "Guide" it is possible to obtain 50,000 wire wound Colvern potentiometers, and you are recommended to use one of these for the detector screen. Fear and Co., of Wellington, stock them in case you have difficulty in obtaining them locally. You can also try connecting the 2 mfd. condenser across the screen potentiometer from the arm to the earth instead of as shown. The reaction plop can be reduced by using a .0001 fixed reaction condenser in place of the .0005, if this has not already been done. This, of course, reduces reaction on all coils. Make sure that all resistances are good, especially 1000 ohms to the tickler and the .5 grid. By a little perseverance you will be rewarded with a very fine receiver. Many constructors have built it, and been highly satisfied.

SIMPLEX (Waikanae): I want to use a crystal set in Waikanae, 37 miles from Wellington. Which circuit of those I enclose would be the most suitable?

A.: We think you will not get a crystal set to work in Waikanae; 25 miles is the very outside range of 2YA. Probably your number 3 circuit would be the best.

2. I intend to use a .00035 variable condenser. How many turns will be needed on the coil?

A.: On a 2in. coil using 26 d.s.c. wire, about 80 turns.

3. Will cardboard former do for the coils?

A.: Yes, but Exelon would be better.

S. D. (Auckland): You probably have a loose connection. If you cannot locate it yourself, get in touch with a service man.

AMBITIOUS (Tolaga Bay): I am contemplating constructing the Trindyne battery set described in the "R.R." using 230 and 231 valves. Would this receiver give good loudspeaker reception of 2YA at 7 p.m. all the year round?

A.: We are doubtful. The particular circuit may not be suitable for your requirements. Why not stretch a point and make up a set such as the "Kestrel Three"? Under these circumstances you would get good results. You could use 230 and 231 types of valves in this circuit.

2. I intend using the resistor method of obtaining bias. What should the value of the resistances be?

A.: Don't; with batteries it is uneconomical. You are dissipating valuable energy through resistances. Use a "C" battery; it is cheaper.

3. How long should a set of standard upright "B" batteries and an air cell last with an average use of, say, three hours nightly?

A.: The "B" batteries should last approximately 7 months, and the air cell, we believe, about two years.

3. Could you explain super-regeneration?

A.: Super-regeneratives have the advantage of the abnormal sensitivity, which most users of regenerative detectors will have noticed to exist, at the moment when the detector valve goes into, or emerges from, oscillation. It is, of course, impossible to maintain the required condition by moving the reaction control backward and forward by hand, so the result is achieved automatically by varying the grid potential. If the variations were made at an audible frequency, the commencement and cessation of oscillation would be audible as a note of a frequency determined by the rapidity of the variation. By choosing suitable circuit constants, however, the variation may be made at a frequency higher than 10 k.c., which is about the upper limit of audibility. As a matter of fact, super-regenerative receivers used on the broadcast reception, apart from the fact that their use on an ordinary aerial is prohibited, suffer somewhat from the use of the super-audible oscillation, but in the reception of extremely shortwave lengths, this receiver is most successful.

4. What is the equivalent in the nearest s.w.g. wire of 60, 25 and 9 turns of 30 d.c.c. b. and s. wire on a 1in. former?

A.: The equivalent of 30 B. and S. is 33 s.w.g. The number of turns can remain the same and also you can use number 32 s.w.g. wire instead of 33 without any ill-effect.

5. Could you inform me how the r.f. current is introduced or coupled to the transmission line of a wired wireless telephone?

A.: Modulated r.f. currents are usually introduced into wired wireless systems by tuned r.f. transformer. Although the writer is not familiar with such systems, it is understood that it is the usual thing to tune both primary and secondary of the transformer, although in some instances only the secondary is tuned. The rest of the line is, of course, simply in series with the secondary.

THIRD GRID (Greymouth):—What effect has (a) the plate current of (1) the oscillator, (2) the modulator, (b) the mu of the (1) oscillator, (2) modulator, (c) the impedance of (1) the oscillator to the modulator, have on (A) the

output, (B) the percentage of modulation in a Hartley transmitter with Heising modulation?

A.: You make our head swim with those A's, B's, 1's and 2's. Still, let us see if we can get them right without getting them mixed up.

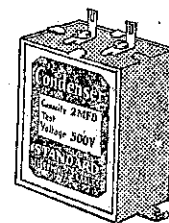
A.: (A1) The greater the plate current of the oscillator, provided adequate excitation is present, means increased output. Unless this is balanced by corresponding increase in the capacity of the modulator it is also likely to result in a reduction of the modulation percentage. (A2) The plate current of the modulator has in itself little effect on operation. A greater variation in plate current, however (i.e., from maximum to minimum of an audio cycle) will increase either the percentage of modulation or the size of the oscillator valve which can be effectively modulated. Obviously a greater variation in current will in certain cases only be possible with a greater average current, so that the average current may be of importance indirectly.

(B1) The mu or amplification factor of the oscillator is, within limits, not of very great importance. Generally speaking, a low mu valve requires a greater grid excitation than one having a higher amplification constant. On the other hand, however, it is probable that, for a given plate voltage, a higher output can be obtained from a low mu valve if sufficient excitation is provided. Extremely low mu valves usually require too much excitation to make good oscillators.

(B2) See C2 below.
(C1) The impedance of the oscillator in relation to its amplification constant is some indication of the overall efficiency of the valve. A valve of high impedance, the mu of which is not correspondingly high, is likely to require too much excitation (and grid current) in comparison with its output to be a satisfactory proposition.

(C2) The impedance of the modulator is of importance as a guide to the plate current variations which can be expected, since these variations determine the percentage of modulation as explained above.

(Continued on page 29.)



For Home-set Builders

Above is shown a 500-volt Standard Condenser, which is so popular with Home-set Builders. It has all the soundness of construction and reliability common to the whole range of Standard Condensers (500 to 2500 volts) and possesses the maximum insulation qualities. Another practical feature is lugs at each side, which enable the Condenser to be easily screwed firmly into position, while leads to terminals on top are quickly adjusted by means of closely-fitting screws. Obtainable from all Radio Dealers.

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Voltage Regulating Devices

Methods of Preventing Fluctuation

By "Cathode."

THERE are two main types of voltage regulating devices. One is concerned with the a.c. input to a receiver and operates to maintain the voltage of this substantially constant notwithstanding line voltage variations. The other is applied across the output or part of the output of a B supply device, and is intended to maintain the B voltage approximately constant in spite of variations in the current drain from the unit.

The two types of device may also be distinguished by the receivers in which they are incorporated. The first type is usually found in a low-priced receiver in which the safety margin of transformer and condenser has been made so small as to render protection against line fluctuations essential. The second is seldom found in any commercial receivers, but is the more expensive and is intended to improve the results of the receiver rather than to protect any of its components against breakdown.

Line Voltage Regulator.

WE shall deal with the first type, the line voltage regulator first.

In essentials all these devices are the same. Whatever their outward appearance, they contain a resistance element, usually a wire winding, having an extremely high temperature coefficient.

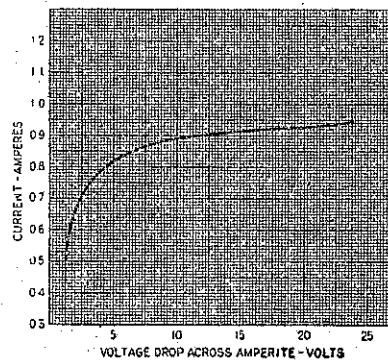
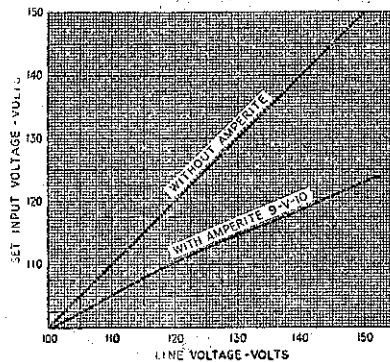
Their operation is simple. Assume that we have such a device connected in series with the primary of a power transformer feeding a set. Under normal operating conditions, say, the set draws half an amp at 100 volts.

Under these circumstances the voltage regulator has a working resistance of 20 ohms, thus reducing the line voltage of 110 volts to the required 100 volts and running just slightly

warm. Now, owing to a temporary reduction in the load on the supply line, the voltage rises to, say, 120 volts. The first and obvious result is that the set will draw more current through the regulating resistance. The second and less patent effect is that the increased current will heat the voltage regulator, the resistance of which will by reason of its high temperature coefficient, increase to, say, 30 ohms. The drop in voltage across a 30-ohm resistance will be 15 as compared with 10 volts across a 20-ohm resistance. Thus the voltage applied to the power transformers will rise from 100 to 105 as compared with the rise to 110 which might have been anticipated.

Fig. 1 shows a typical set of curves for a device of this kind.

Fig. 2 shows the simple manner in which it is connected.



Figs. 1 and 2 showing how voltage regulating devices maintain voltage at a constant figure.

It is unfortunate that the available types of regulators are designed for insertion in a 110-volt line and not for the 230-volt supply common in New Zealand. One particular regulator (i.e., Amperite 5A5) is suitable

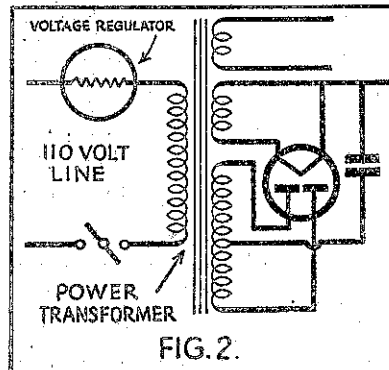


FIG. 2.

for sets drawing half an ampere, however, so that the larger receivers taking 100 watts or more from the supply line may have this unit incorporated in them. Where a receiver is wired for 110 volts and this is derived from a step-down transformer the appropriate unit may be wired

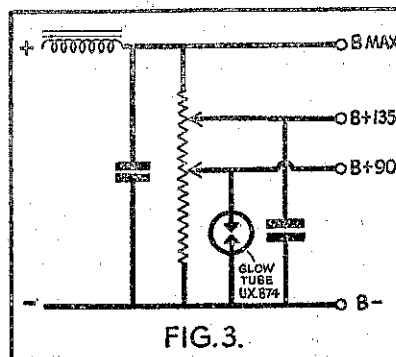


FIG. 3.

in series with the transformer in the receiver proper. The step-down transformer will not usually require any protection.

Perhaps the writer may be permitted to express his own private opinion that power apparatus should be designed on sufficiently generous lines to render line voltage regulators unnecessary.

Internal Voltage Regulator.

COMING now to the other type of voltage regulator, this is represented by the UX874 voltage regulator tube, which maintains a constant potential drop of 90 volts over a wide range of current values. It is normally connected in parallel with the lower portion of a potential divider across the output of a B supply unit as in fig. 3. The tap to which one terminal of the 874 is connected maintains the required voltage of 90 almost irrespective of the drain from this point. It will also be clear that other tapings on the potential divider will maintain a much more constant potential than would otherwise be the case. A voltage of 180 can be maintained absolutely constant if desired by connecting two of these tubes in series.

If the UX874 is examined it will be found to be simply a neon glow tube of unusually accurate characteristics. To start the characteristic blue glow a potential of 125 volts is necessary, but as soon as the tube flashes the increased current through the potential divider drops the voltage across the tube to 90, where it stays until the current through the tube falls to less than 5 milliamperes, a condition not likely to arise if the tube is connected across suitable points. The maximum current which the 874 will pass is 50 milliamperes.

Apart from its value as a voltage regulator, the UX874 is extremely helpful in reducing back coupling, particularly in an audio amplifier. Considered from this viewpoint, it has been found equivalent to a condenser

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Notes and News from the North

(By "Call-up.")

MR. A. R. HARRIS recently suggested that Dr. de Clive Lowe write a colourful historical drama. The result of his suggestion is "The Doge of Venice," in which the author, whose radio plays have already won him an enviable reputation, has drawn upon an authentic plot with authentic characters and incidents to form a really skilful drama. The play will be presented from IYA by Mr. J. M. Clark and his company of players on November 4.

THE International Evening Talk that was to have been given from IYA by Mr. Norman Heath, consul for Latvia, on October 27, has now been postponed owing to the speaker having been suddenly called to England on business. In his place Mr. A. B. Chappell, M.A., will speak on "A Look at the League of Nations." Other interesting talks to be given from the Auckland station in the course of the next week or two include one on "Chrysanthemums," by Mr. H. Dale, and another by "Lee-For-Brace," bearing the intriguing title "Are Sailors Superstitious?" both of which will be given on October 31.

SINCE the beginning of October the Sunday afternoon organ recitals from the Town Hall have been relayed on alternate Sundays, and this practice is to continue. A relay of the Municipal Band concert on November 1 will be given by IYA.

SEVERAL interesting new artists are to appear from IYA in the near future. On October 28 Miss Amy Eaton, a well-known Wanganui soprano, will sing solos, and on the same date Miss Noni Wright will give humorous items. Miss Wright recently scored a success when she took one of the leading roles in the Auckland Little Theatre's production of "A Bill of Divorcement." Mr. Tom Cooper, formerly a leading Dunedin bass, who is now resident in Auckland, will make his initial appearance at IYA on October 31.

of 26 mfd. connected in the same position.

The UX874 is particularly commended to the notice of the amateur transmitter as a means of maintaining the oscillator voltage constant in a low-powered M.O.P.A. transmitter. It is entirely possible, with its help, to use the same plate supply for both oscillator and amplifier, the oscillator voltage remaining perfectly steady when the amplifier is keyed.



The lower photograph shows Aunt Daisy and her "Cheerful Chirpers," with Mr. Ball. Aunt Daisy's Wednesday afternoon children's sessions are always bright and varied, and are in great favour with young listeners in all over New Zealand. In the upper photograph Aunt Daisy is seen with a number of little patients in the paralysis ward of the Wellington Public Hospital. She often visits there to distribute the loads of presents sent in by children throughout Radioland.

IYA Church Service Committee

A MEETING of the IYA Church Service Committee was held on October 13, there being present: Revs. G. Coats (Anglican), W. D. Morrison-Sutherland (Presbyterian), Geo. Heighway (Congregational), W. Walker (Methodist), Ensign Thorne (Salvation Army), and Mr. L. C. Barnes, who presided.

The matter of arranging a date for the broadcast of a Unitarian service was left to the chairman.

The station manager reported that arrangements had been made to broadcast the services to be held in St. Matthew's Church at midday on Thursdays.

Arrangements for Christmas and New Year broadcasts were made. A Presbyterian service will be broadcast on Christmas morning and a service at St. Matthew's in the evening.

Hallowe'en

(Continued from page 7.)

named them from her lovers) while she repeated this couplet:

"Pippin, pippin, I stick thee there,
That that is true you may'st declare."
She then patiently waited until one fell off, when the unfortunate swain, whose name it bore, was immediately discarded as being unfaithful.

The traditional dishes prepared for Hallowe'en feasting were often anything but palatable. For instance, women would take the yolks from hard-boiled eggs, fill the cavities with salt, and eat egg, shell, and salt! And worse still, they would suffer agonies rather than quench their thirst before morning, for to do so would break the spell.

In the Isle of Man the evening meal is for some peculiar reason always composed of potatoes, parsnips, and fish, pounded together and mixed with butter.

And so we might proceed through every county in England, Ireland and Wales, encountering in each different customs and quaint superstitions which have almost become extinct. Several still linger in the more out-of-the-way rural districts, but generally Hallowe'en is little more than a name for the evening of October 31.

IF you find that an abnormally heavy plate current is being taken by an R.C. coupled valve with normal grid bias, the insulation of the coupling condenser can be suspected, as it is possible that B battery leakage across this component will nullify the value of the grid bias to some extent.

Burgess Batteries
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big events.

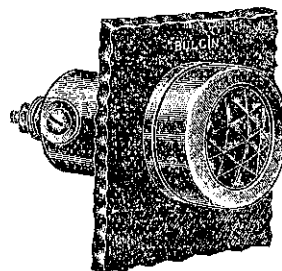
Why?

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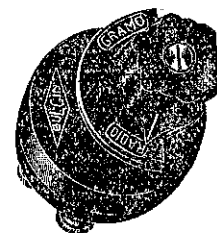
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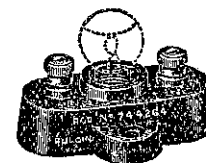
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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

From 1YA

THE evening service will be relayed from the Baptist Tabernacle, the preacher being the Rev. Joseph Kemp, and the organist and choirmaster, Mr. A. E. Wilson. During the after-church concert, Barry Coney, baritone, will sing several numbers with orchestra accompaniment, including "Farewell, Minnehaha." Kay Christie, well-known contralto, has included among her numbers two negro spirituals. The remainder of the programme will be given by the Salon Orchestra, under the direction of Harold Baxter. As usual, Mr. Baxter has chosen some very fine numbers, including "Der Schauspieler-Director" and "Cyrano de Bergerac."

Wellington Features

THE evening service to be conducted in St. Thomas's Anglican Church will be relayed, the preacher being the Rev. C. V. Rooke and the organist and choirmaster Mr. W. A. Gatheridge. At 8.15 p.m. a concert by the Wellington Municipal Tramways Band, under the conductorship of E. Franklin, will be relayed from St. James Theatre.

Christchurch Items

FROM 3 o'clock the religious ceremonies connected with the centenary commemoration of the sacking of Kaiapohia pah will be relayed from Tuahivli.

The service will be conducted by the Rt. Rev. F. A. Bennett, Bishop

of Aotearoa. The preacher will be Piri Wiri Tua (Ratana), and delegates of other denominations will also be present. A Maori choir of several hundred voices will participate.

The evening service from Knox Church, to be conducted by the Rev. T. W. Armour, will be relayed. The choir conductor will be Mr. A. G. Thompson and the organist Miss Victoria Butler. The studio after-church concert will be provided by 3YA artists. Following the concert programme will be a half-hour's gramophone lecture recital by Karl Atkinson, entitled "Strictly British."

At 4YA

THE service in Trinity Methodist Church will be broadcast, the Rev. H. E. Bellhouse being the preacher, the choir conductor being Mr. James Simpson. A relay of 3YA's concert will follow.

MONDAY

1YA Broadcasting

BEING Labour Day, 1YA will be on the air from noon to broadcast the results of the second day of the Auckland Trotting Club's spring meeting at Alexandra Park. A special holiday programme has been arranged, the artists including Joan Laird, soprano; J. F. Montague, who is giving humorous items; J. Macpherson (making his first appearance at 1YA). Ernest and Wendy Luks, who are very popular with listeners, will appear twice in humorous and melodious numbers, and the Mati Trio will be heard in several Hawaiian numbers. 1YA

Items from 2YA

The "Musical Portrait" for the evening will be of Beethoven, but from quite a different standpoint from any previously presented. Signor Lucien Cesarini and his Grand



REV. W. CONSTABLE, M.A., who is delivering a series of six lectures on George Bernard Shaw from 1YA.

—S. P. Andrew, photo.

Opera Company will perform Beethoven's arrangement of Scottish and Irish national songs with trio accompaniment.

These old favourites are arranged as duets, trios and quartets, as well as solos, and they will include "Lochnagar," "Charlie is My Darling" and "Sally in Our Alley." Gordon Short (pianist) will play Beethoven's "Scottish Dances"; and the Orchestra, under the conductorship of Signor A. P. Truda, will contribute the overture "Fidelio" and other numbers.

3YA Schedule

AT 10.30 a.m. the station will come on the air for the purpose of relaying the proceedings at Kaiapohia.

Under the auspices of the W.E.A., the Rev. Hubert Jones, Mus. Bac., will speak on "Music." The evening concert will be provided by the Christchurch Municipal Band and supporting artists.

From Dunedin

THE lecturer on the international programme will be Mr. John Ash, of the "Evening Star," speaking on

Featurettes

Kaiapohia Pa Celebrations

3YA, Sunday and Monday.

British Songs

2YA, Monday.

Eva Stern—Pianiste

1YA, Wednesday.

Children's Festival of Music

3YA, Wednesday.

Orphans' Club

1YA, Thursday.

Wanganui Garrison Band

2YA, Thursday.

Negro Spirituals

3YA, Friday.

Hallowe'en

4YA, Saturday.

Community Sing

2YA, Saturday.

"The Problems of the North-West Pacific."

TUESDAY

Jottings from 1YA

AT 7.40 p.m., the Rev. W. Constable, M.A., will give the third of his series of W.E.A. talks on George Bernard Shaw. The speaker on the International Programme will be Mr. A. B. Chappell, who will speak on "A Look at the League of Nations."

Wellington Notes

THE concert programme will be of the popular type. Contributing will be: W. E. Crewes, baritone, in three songs from a cycle by Conningsby Clarke, and in two Australian songs, "Bush Night Song" and "Stockrider's Song"; and Miss Gwladys Edwardes (soprano) in four Woodforde-Tinden songs. A feature of the programme will be the reappearance of those popular entertainers Mr. and Mrs. Albert Russell, who will be heard in two humorous interludes. Mrs. Russell will sing two contralto solos, "Wilderness" and "Sink, Red Sun." The Salon Orchestra will contribute to the programme and selected recordings will also be included.

From Dunedin

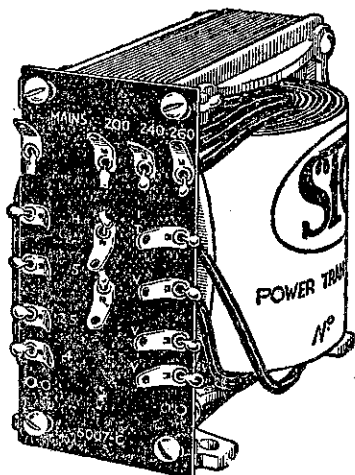
THE W.E.A. Lecture by Mr. Lloyd Ross will be "The Difference Between Sweden and the United States." The band of the First Otago Regiment, under Lieut. Llew O. Asten, assisted by 4YA artists, will provide a programme of miscellaneous items to-night.

Silent day at 3YA.

WEDNESDAY

Gleanings from 1YA

THE outstanding feature in to-night's programme will be two



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planoforte recitals to be given by Eva Stern, who was for some time an artist with the National Broadcasting Company's studios, New York. Besides being one of America's best known radio artists, Miss Stern also appeared as a recitalist in New York and elsewhere in the States.

Press comments on Miss Stern's work indicate the high standard on which this young lady's art is based.

Amy Eaton, a soprano, who is well-known in Wanganui and Wellington, will be heard in several numbers. Noni Wright, who makes her first appearance before the microphone in humorous items, is already well known to Auckland listeners for her work with the "Little Theatre Society."

The Salon Orchestra, under the direction of Harold Baxter, will provide the instrumental portion of the programme, and will also accompany Len Barnes, baritone, who is singing "Star of the Desert" and a group of ballads.

Notes from Wellington

AT 7.40 p.m., Mr. F. M. Bateson, sectional secretary, N.Z. Astronomical Society, will lecture on "Measuring the Universe." Dr. Guy H. Scholefield, O.B.E., will be the lecturer on the International Programme.

3YA Topics

THE programme will include a twenty minutes' relay of items given at the Radiant Hall during the third annual Children's Festival of Music. One hundred and fifty members of the Training College classes and Boys' High School Orchestras will be taking part under the direction of Mr. T. Vernon Griffiths. The studio concert will be contributed by well-known 3YA artists.

New Songs by Alfred Hill

MR. ALFRED HILL has written two new Maori songs, and has dedicated them to his brother, Mr. E. J. ("Teddy") Hill, the well-known Wellington tenor. Alfred Hill has scored these two songs for the 2YA Orchestra, and his brother will sing them for the first time in New Zealand on Monday, November 16. They are: "Sweet Maori Maid" (a love song), and "Her Little Flaxen Skirt" (poi song). Mr. Hill will also sing the famous "Waiata Poi." All three will be with orchestral accompaniment.

Features from 4YA

During the first hour a classic programme will be provided. Selections from Lane-Wilson's melodious song-cycle "Dorothy's Wedding Day" will be sung by the Select Four, members of which combination will also be heard in trios and solos.

Half an hour's lecture recital on "Grand Opera" given under the auspices of the Society of Professional Musicians of Otago by Mons. Paerl Saldaigne, assisted by Mr. C. G. Drummond, will follow.

THURSDAY

Home Made Drinks

THE home science talk from 1YA, 2YA and 3YA, prepared by the



Hubert Carter

(Tenor).

Last week, Hubert Carter sang grand opera numbers for 3YA. Next Friday evening he will present a recital of plantation songs and negro spirituals. Such is his artistry that he easily adapts himself to the dramatic powers of grand opera or to the airiest of light melodies. He is a master of every class of vocal work within the scope of a tenor voice.

An accomplished platform singer, known to concert-goers throughout New Zealand, Mr. Carter is also a finished radio artist. He has studied

microphone technique and he makes the most of his beautiful flexible tenor voice when in front of the microphone. He has broadcast in Australia as well as in New Zealand. Mr. Carter, only a few years ago, returned from England, where he studied under Sir Henry Wood, from whom he obtained his knowledge of most of the big works of his repertoire.

Home Science Extension Department of Otago University, will be on "Delicious Drinks made at Home."

Selections from 1YA Programme

A STUDIO concert will be provided by the Auckland Orphans' Club Orchestra, whose numbers include "Echo de Bastions," "Fingal's Cave," and "H.M.S. Pinafore" selection.

Of interest on the programme will be a sea chanty to be played by the orchestra and conducted by Trevor Sparling, who arranged the music.

From 2YA

AT 7.40 a lecturette, "Conservation of Vision," will be broadcast by Mr. F. Clayton, Librarian of the Department of Health.

A concert by the Wanganui Garrison Band will be relayed from the Opera House, Wanganui.

Christchurch Topics

PROFESSOR TOCKER, speaking on "The Economic Situation in Germany," will be the lecturer on the evening's international programme.

FRIDAY

Notes from Auckland

Rex Harrison, the well-known baritone from Christchurch, has been specially engaged to appear on this programme. He will sing the "Prologue" from "Pagliacci," "Tangai," and "Waiata Maori." Orchestral music will be provided by Reg. Morgan and his orchestra, and as usual some very fine and varied items have been included.

2YA Selections

TO-NIGHT'S miscellaneous programme should prove acceptable to all listeners. The Orchestra's numbers will include the selection "On with the Dance" and the fantasia "Vision

of Salome." Featured on the programme will be R. M. Stratmore (concertina virtuoso), who will be heard in a number of familiar melodies. Stewart Adair (boy soprano) will also be heard in several numbers. The major portion of the vocal items will be given by the Lyric Quartet, who will be heard in solos and quartets.

3YA Programme

A recital of negro spirituals and plantation songs will be featured by Hubert Carter (tenor), Esme Stevens (soprano), Nancy Bowden (Contralto), Finlay Robb (baritone), and Lillian Harper (at the piano). Also on the evening's programme will be Clive Hindle (baritone).

Jottings from 4YA

ARTHUR GORDON'S Dance Band will be featured on the programme, playing popular hits and the latest dance tunes. Popular quartets will be sung by the Happy Four. The Radiettes will contribute song, patter, and dance.

SATURDAY

Auckland Selections

AN artist new to Auckland listeners, in the person of Thomas Cooper, who possesses a very fine bass voice, will be heard to-night in several numbers with orchestral accompaniment. "Lee Fore Brace," popular with all listeners, will give the first part of a thrilling sea story. "The Mutiny." Popular songs will be given by that talented young lady, Eileen Smithson, and orchestral music will be supplied by the Salon Orchestra.

Wellington Notes

THE station will be on the air from noon to broadcast the results of the Wellington Trotting Club's meeting. At 7.40 p.m. Professor P. W. Robertson, author of "A Soul's Progress" and "Life and Beauty," will give a lecturette under the auspices of the W.E.A., entitled "The Meaning of Beauty."

In the evening a farewell Community Sing-song Concert, to be held in the Town Hall, will be tendered to Mr. and Mrs. Albert Russell.

Notes from 3YA

L. C. QUANE, a popular tenor who has just returned from a trip abroad, will present some familiar numbers: "I Heard You Go By," "Duna," "Sally in Our Alley," and "The Sea Gipsy." Mrs. D. W. Stalard's contralto solos will include two old-time songs. Jazz improvisations will be played by Edna Jarden, pianist.

4YA Programme

A Halloween concert, to be given in His Majesty's Theatre, Dunedin, under the auspices of the Dunedin Burns Club, will be broadcast.

Programme Jottings

FOR Race Carnival Week in Christchurch, November 7-14, special programmes have been arranged by 3YA.

In St. Matthew's Church, Auckland, services for businessmen are held every Thursday from 12.15 to 12.30, and are broadcast by 1YA.

The coloratura soprano, Margherita Zelanda, is to give two public concerts in Christchurch on November 10 and 11. Broadcasts will be carried out by 3YA.

Play Competition

READERS who were interested in the plays recently published in the "Radio Record," as a result of a competition announced through the "Dairy Exporter" and the "Radio Record," will be interested to note that arrangements have now been made for two of the plays to be presented by Mr. Victor Lloyd and his company. The plays chosen are "The Signal," by Helen Gordon, and "The Impostor," by Mary Scott. "The Signal" will be given on the evening of Tuesday, November 3, and "The Impostor" on the evening of Tuesday, December 1. As a matter of fact, "Helen Gordon" is a nom de plume of Mrs. Mary Scott, so that the authoress will have the pleasure of hearing both of her plays presented over the air.

3YA will broadcast a programme of old-time dances on Tuesday, November 10. The instrumentalists will be Peter Bryson's Dance Band.

3YA has arranged a concert to be given by old-time performers, Christchurch artists well known in the "almshouses." A talk recalling old days will also be given, Mr. Selwyn Bruce giving reminiscences of "Early Canterbury."

An old-time dance programme (recordings) will be broadcast by 3YA on October 28.

Records made by a New Zealand cornetist who has "made good" in the leading band circles at Home will be heard from 2YA next Saturday evening, October 24. The player is J. Robertson, champion cornetist of New Zealand in 1927. He is a son of Mr. J. M. Robertson, of Westport.

Full Programmes for Next

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

Sunday, October 25

IYA, AUCKLAND (875 KILOCYCLES)—SUNDAY, OCTOBER 25.

- 3.0 : Selected recordings.
 3.15 : Literary selection.
 6.0 : Children's song session, conducted by Uncle Leo.
 7.0 : Relay of divine service from the Baptist Tabernacle. Preacher, The Rev. Joseph Kemp. Organist and Choirmaster, Mr. A. E. Wilson.
 8.30 : Selection—New Light Symphony Orchestra, "Madam Butterfly."
 Baritone—Mr. H. Barry Coney, with orchestral accompaniment, "Farewell, Minnehaha" (Coleridge-Taylor).
 Overture—Salon Orchestra, under the direction of Mr. Harold Baxter, "Der Schauspiel-Director" (Mozart); orchestral, "Hungarian Dance No. 16" (Brahms).
 Contralto—Miss Kay Christie, with orchestral accompaniment, (a) "Castilian Lament" (Del Riego); (b) "Hills of Donegal."
 Choral—Sheffield Choir, "Thanks be to God" (from "Elijah").
 Evening weather forecast and announcements.
 Ballet—The Salon Orchestra, "Callirhoe" (Chaminade).
 Baritone—Mr. H. Barry Coney, with orchestral accompaniment, (a) "Loving Smile of Sister Kind" (Gounod); (b) "Star of Eve."
 Medley—Ilya Livschukoff's Orchestra, "Dividends" (Morena).
 Contralto—Miss Kay Christie, Negro Spirituals, (a) "Were You There?" (b) "By an' By" (arr. Burleigh).
 Morceaux—The Salon Orchestra, (a) "Hindoo Dance" (Shelley); (b) "Love Song" (Paderewski); caprice, "Squirrel Dance" (Smith).
 Piano—Raie da Costa, "Die Fledermaus" Selection (Strauss).
 Suite—The Salon Orchestra, "Cyrano de Bergerac" (Rosse).
 God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, OCTOBER 25.

- 3.0 : Selected gramophone recordings.
 6.0 : Children's song service, conducted by Uncle George, assisted by the children's choir from the Terrace Congregational Church.
 7.0 : Relay of evening service from St. Thomas's Anglican Church. Preacher, Rev. C. V. Rooke. Organist: Mr. W. Gatheridge. Choirmaster: Mr. Wenzel Collie.
 8.15 (approx.): Relay from St. James Theatre of concert by the Wellington Municipal Tramways Band (Conductor, Mr. E. Franklin).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 25.

- 3.0 : Relay from Tuahiwi Maori Pa of opening service of Centenary Commemoration of the Evacuation of the Kaiapohia Pa. The service will be conducted by Mangai Piri Wiri Tua (Ratana), and a Maori choir of over 200 voices will participate.
 5.30 : Children's song service, by children of Presbyterian Sunday Schools.
 6.15 : Chimes.
 6.30 : Selected recordings.
 7.0 : Relay of evening service from Knox Presbyterian Church, Bealey Avenue. Preacher: Rev. T. W. Armour. Organist: Miss Victoria Butler. Choir conductor: Mr. A. G. Thompson. L.A.B.
 8.15 (approx.): Overture—Berlin State Opera Orchestra, "Caliph of Bagdad" (Boieldieu) (Poly. 23028).
 8.21 : Baritone—Mr. Clive Hindle with orchestral accompaniment, (a) "O Star of Eve" (Wagner); (b) "Invictus" (Huhn).
 8.27 : Violin—Miss Dora Deal, "Meditation" (from "Thais") (Massenet).
 8.32 : Contralto—Miss Alice Vinsen, with orchestral accompaniment, "The Lost Chord" (Sullivan).
 8.36 : Suite—Christchurch Salon Orchestra (Conductor, Mr. Francis Bate), "From the South" (Nicode): (a) "A Legend"; (b) "A Moorish Dance Song"; (c) "In the Tavern."
 8.45 : Soprano—Miss Addie Campbell, with orchestral accompaniment, (a) "Rosa Resurget" (from "Life of a Rose") (Lehmann); (b) "Ave Maria" (Gounod).
 8.52 : Organ—Terence Casey, "Devotion" (Ketelbey) (Col. 01633).
 8.55 : Baritone—Mr. Clive Hindle, "Mandala" (Willeby).
 8.59 : Violin—Miss Dora Deal, (a) "Madrigale" (Simonetti); (b) "Toy Soldiers' March" (Kreisler).
 9.4 : Weather forecast and station notices.
 9.6 : Waltz—The Salon Orchestra, "Liebeslieder Waltzes" (Brahms).
 9.14 : Contralto—Miss Alice Vinsen "Cradle Song" (Fritz Kreisler).
 9.17 : Piano—Michael Zadora, "La Passion" (Lamare) (Poly. 23022).
 9.20 : Soprano—Miss Addie Campbell, "Tell Me My Heart" (Bishop).
 9.23 : Orchestral—The Salon Orchestra, (a) "Serenade" (Widor); (b) "Moresca" (Lao Silesu).
 9.30 : A Gramophone Recital by Mr. Karl Atkinson, "Strictly British."
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, OCTOBER 25.

- 3.0 : Afternoon session.
 5.30 : Children's song service, conducted by Big Brother Bill.
 6.15 : Instrumental recordings.
 6.30 : Relay of Evening Service from Trinity Methodist Church, Stuart Street, Dunedin. Preacher: Rev. H. E. Bellhouse. Choirmaster: Mr. James Simpson.
 7.45 : Selected recordings.
 8.15 : Relay of concert programme from Station 3YA, Christchurch.
 10.0 : God save the King.

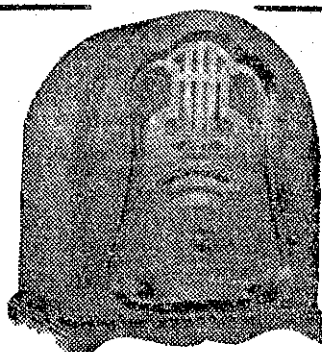
2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, OCTOBER 25.

- 6.0 to 6.45 : Children's Sunday Service.
 8.15 to 10.0 p.m. : Concert programme.

Monday, October 26

IYA, AUCKLAND (875 KILOCYCLES)—MONDAY, OCTOBER 26.

- 12.0 : Results of the Auckland Trotting Club's Spring Meeting.
 8.0 : Chimes. Orchestral—Dajos Bela Orchestra, "Strauss, the Waltz King, at Home" (Weber) (Parlo. A4260).
 8.9 : Soprano—Miss Joan R. Laird, (a) "The Fairy Tales of Ireland" (Coates); (b) "The Rose of Tralee" (Schneider).
 8.15 : Hawaiian Instrumental—Mati Trio, (a) "Hula Rag" (Kailli); (b) "Viennese Nights" (Romberg); (c) "Tahitian Melody" (Lou).
 8.23 : Entertainers—Ernest and Wendy, "Bits and Pieces" (own arrgt.).
 8.33 : Xylophone—Rudy Starita, "Dance of the Raindrops" (Evans).
 8.36 : Novelty piano and vocal—Don Tasker and Johnnie Madden, "Group of Novelty Piano and Syncopated Song Numbers."
 8.56 : Quickstep—Debroy Somers Band, "Community Medley" (Somers).
 9.0 : Evening weather forecast and announcements.
 9.2 : Baritone—Mr. J. B. Macpherson, (a) "Long Ago in Alcalá" (Messa-ger); (b) "Limehouse" (Hyden).
 9.8 : Orchestral—Herman Finck and His Orchestra, "Bacchanalia."
 9.16 : Entertainers—Ernest and Wendy, "Bits and Pieces" (own arrgt.).
 9.26 : Hawaiian Instrumental—Mati Trio, (a) "Ukulele Moon" (Kailli); (b) Latest Hit; (c) "Yaka Hula" (Kailli).
 9.33 : Humour—Mr. J. F. Montague, "While I Think of It" (own arrgt.).
 9.44 : Soprano—Miss Joan R. Laird, (a) "Love's Own Kiss" (from "High Jinks") (Friml); (b) "Annie Laurie" (Lehmann).
 9.49 : Accordion—"Morceau"; "Old Comrades" (Telke) (Parlo. A3130).
 9.52 : Baritone—Mr. J. B. Macpherson, (a) "The Bonny Sailor" (Rowley); (b) "Oberon in Fairyland" (Slater).
 9.57 : March—Regimental Band of H.M. Grenadier Guards, "With Sword and Lance" (Starke) (Col. D041).
 10.0 : God save the King.



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2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, OCTOBER 26.

- 10.0 : Chimes. Selected gramophone recordings.
 11.12 : Lecturette—"Cooking."
 11.37 : Lecturette—"Health Hints or First Aid."
 12.0 : Lunch hour music.
 2.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Uncle Jeff.
 6.0 : Dinner music session (H.M.V.)—
 Vienna Philharmonic Orchestra, "Morning, Noon and Night in Vienna."
 The Six Nite Lights, "Love's Old Sweet Song" (Molloy) (Parlo.).
 International Novelty Orchestra, "Gold and Silver" (Lehar).
 Victor Concert Orchestra, "Romance" (Tschaikowsky) (Zono. EF7).
 Philadelphia Symphony Orchestra, "Casse Noisette Suite" (Tschaikowsky): (a) Miniature overture, (b) March, (c) Dance, (d) Arab Dance, (e) Chinese Dance, (f) Dance of the Flutes, (g) Waltz of the Flowers (D1214/6).
 Paul Whiteman and His Orchestra, "Caprice Futuristic" (Malneck).
 New Mayfair Orchestra, "Sons o' Guns" Selection (C1982).
 New Light Symphony Orchestra, "Barcarolle" from "Tales of Hoffmann" (Offenbach) (B2377).
 International Novelty Orchestra, "Emperor" (Strauss) (Zono. EF22).
 7.0 : News, market reports and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes. Overture—Berlin State Opera Orchestra, "La Muette de Portici" (Auber) (Poly. 66388).

- 8.8 : Signor Lucien Cesaroni's New Zealand Grand Opera Company present Scottish and Irish National Songs arranged by Beethoven (with trio accompaniment).
 Trio—Miss Eunice Standen, Messrs. Ray Trewern and G. Gray, "Lochnagar."
 Contralto—Mrs. H. Maplesden, "Bonnie Laddie, Highland Laddie."
 8.15 : Duet—Messrs. J. Ross and G. Gray, "Farewell Bliss."
 Bass—Signor Lucien Cesaroni, "The Soldier."
 8.21 : Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Fidello."
 8.31 : Quartettes—Lever String Quartet, two transcriptions: (a) "Etude No. 7" (Chopin); (b) "Moment Musical" (Schubert) (DOX199).
 8.39 : Trio—Miss Janet Stirling, Messrs. J. Montgomery and G. Gray, "Ye Shepherds."
 Soprano—Miss Eunice Standen, "Sally in Our Alley."
 8.45 : Piano—Mr. Gordon Short, "Scottish Dances" (Beethoven).
 8.53 : Instrumental—2YA Orchestra, "Cavalleria Rusticana" (Mascagni).
 9.0 : Weather report and station notices.
 9.2 : Trio—Miss Eunice Standen, Miss Ruth Mann and Mr. F. Hurley, "Charlie is My Darling."
 Baritone—Mr. G. Gray, "The Pulse of an Irishman."
 9.10 : Bass—Signor Lucien Cesaroni, "Brian of Glenaar" (Graham).
 9.13 : Instrumental—2YA Orchestra, (a) "Adagio" (Moonlight Sonata) (Beethoven); (b) "Minuet in G" (Beethoven).
 9.21 : Tenor—Mr. Ray Trewern, "The Enchantress's Farewell."
 Contralto—Mrs. Keith McAllum, "Faithful Johnnie."
 9.27 : Fantasia—The Paul Godwin Orchestra, "Eugénie Onegin" (Poly. 19504).
 9.35 : Duet—Messrs. Ray Trewern and G. Gray, "The Chase of the Wolf."
 9.39 : Soprano—Miss Janet Stirling, "O, Might I But My Patrick Love."
 Trio—Miss Janet Stirling, Mr. J. Montgomery and Signor Lucien Cesaroni, "Duncan Gray."
 9.46 : Cello—Cedric Sharpe, (a) "Serenade" (Pierne); (b) "Minuet."
 9.52 : Instrumental—2YA Orchestra, "Awakening of Spring" (Bach); "Serenade D'Amour" (Von Blon).
 10.0 : Dance programme (Polydor)—
 Foxtrots—Ilja Livschakoff's Dance Orchestra, "Happy Go Lucky" (arr. Michaeloff) (23483); "The Day Will Come When Roses Are Aglow"
 Waltzes—Paul Godwin's Dance Orchestra, "Darling, Your Mouth is Music to Me" (Hollander) (23728); Ilja Livschakoff's Dance Orchestra, "Times Will Change" (arr. Michaeloff) (23484).
 10.12 : Tangos—Juan Llossas and His Orchestra, "Twilight" (Bianco) (22984); "La Cumparsita" (Rodriguez) (P40529); "Breezes from the Andes" (Porschmann) (22984).
 10.21 : Vocal—Layton and Johnstone, "One Night Alone With You."
 10.24 : Foxtrots—Ben Berlin's Dance Orchestra, "I Think of Mady" (Jurmman) (23730); Ilja Livschakoff's Dance Orchestra, "My Dear Old Aunt" (Abraham-Gilbert) (23759).
 Waltzes—Ilja Livschakoff's Dance Orchestra, "Sweet Are Your Your Looks, Oh Peppina" (Stolz) (23743); Hawaiian Orchestra, "It Happened in Monterey" (Rose) (23726).
 10.36 : Tangos—Ben Berlin's Dance Orchestra, "You are Not the First One" (Jurmman) (23730); Ilja Livschakoff's Dance Orchestra, "Beautiful World" (Lehar) (23729).
 Foxtrot—Ilja Livschakoff's Dance Orchestra, "I am so Happy To-day."
 10.45 : Vocal—Layton and Johnstone, "Bye Bye Blues" (Hamm) (Col. DO286).
 10.48 : Foxtrots—Ilja Livschakoff's Dance Orchestra, "In a Little Bar" (Lehar) (23729); "On the Banks of the Stream" (23483).
 Waltz—"On the Shores of the Blue Sea" (arr. Benedict) (23484).
 Foxtrot—Paul Godwin's Dance Orchestra, "Incidental Flirtation."
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, OCTOBER 26.

- 10.30 : Relay from Kaiapohia Pa.—Last day of Centenary Celebrations of Evacuation of Pa.
 The opening of the Memorial Fence of the Pa by His Excellency the Governor-General, Lord Bledisloe, followed by luncheon, speeches and music.
 2.0 : Dances and choir competitions.
 4.30 : Sports results.
 5.0 : Children's hour.
 6.0 : Dinner music session (Parlophone).—
 Berlin State Opera Orchestra, "The Magic Flute" Overture (Mozart).
 Orchestra Mascotte with Dajos Bela, "Whispering of the Flowers."
 Grand Symphony Orchestra, "Chinese Street Serenade" (Siede) (A4159); "Midsummer Night's Dream" Scherzo (Mendelssohn), (A4084); "Japanese Lantern Dance" (Yoshitomo) (A4159).
 Dajos Bela Orchestra, "The Court Ball" (Lanner) (A4172).
 Grand Symphony Orchestra, "The Jewels of the Madonna" (Wolf-Ferrari)—(a) Intermezzo; (b) Apache Dance (A3171).
 Orchestra Mascotte with Dajos Bela, "The Flowers' Dream."
 Dajos Bela Orchestra, "The Three Waltz Kings—Viennese Waltz Fantasia" (Strauss) (A4217).

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AUCKLAND — CHRISTCHURCH — WELLINGTON.

- Grand Symphony Orchestra, "Midsummer Night's Dream—Wedding March" (Mendelssohn) (A4084).
 Dajos Bela Orchestra, "Woodland Peace" (Favilla) (A4172).
 Edith Lorand's Orchestra, "Norma" Fantasia (Bellini) (A4011).
 7.0 : News and reports.
 7.30 : Workers' Educational Association Session—Rev. Hubert Jones, Mus. Bac., "Music."
 8.0 : Chimes. Programme by the Christchurch Municipal Band and assisting artists.
 March—Band, "Unity" (Foxhall); waltz—"Down the River of Golden Dreams" (Klenner and Shilkret).
 8.11 : Tenor—Mr. David H. Law, (a) "Altho' the Silver Moon Were Mine" (Lohr); (b) "Internos" (Macfadyen).
 8.16 : Instrumental trios—Christchurch Broadcasting Trio, (a) "Serenata" (Moszkowski); (b) "Swedish Folk Song No. 1" (Svendson); (c) "Pierrette" (Chaminade).
 8.24 : Humour in song and story—Mr. Jock Lockhart, (a) "Back Went Mac For His Macintosh" (Castlin); (b) "They Took No Notice Of Us."
 8.32 : Cornet solo with Band, "As You Pass By" (Russell).
 8.37 : Mezzo-contralto—Miss Marion Macpherson, (a) "Ere the Moon Begins To Rise" (Loth); (b) "The Cuckoo Clock" (Grant Schaefer).
 8.42 : Medley—Light Opera Company, "Leslie Stuart Songs."
 8.50 : Selection—Band, "Rigoletto" (Verdi).
 9.2 : Weather forecast and station notices.
 9.4 : Selection—Regal Salon Orchestra, "Memories of Mendelssohn."
 9.12 : Tenor—Mr. David H. Law, (a) "To Daisies" (Quilter); (b) "All The Fun of The Fair" (Easthope-Martin).
 9.17 : Intermezzo—Band, "Bells of Ouseley" (Ord Hume).
 9.24 : Chorus with Orchestra—Light Opera Company, "The Blue Mazurka."
 9.28 : Instrumental—Christchurch Broadcasting Trio, (a) "Japanese Intermezzo" (Williams); (b) "Dream Castles" (Hope).
 9.35 : Humour in song and story—Mr. Jock Lockhart, "I Can't Make My Mind Up" (Leo).
 9.39 : Selection of popular melodies—Band, "All Trumps" (John Neat).
 9.47 : Mezzo-contralto—Miss Marion Macpherson, (a) "Ships of My Dreams" (Stephenson); (b) "The Angelus at Sea" (St. A. Johnson).
 9.52 : Chorus with orchestra—Jack Hylton and His Orchestra, "Medley of Chappell Ballads" (H.M.V. C1846).
 10.0 : March—Band, "The Old Cork Road" (Adams).
 10.6 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, OCTOBER 26.

- 8.0 : Selected recordings.
 4.30 : Sports results.
 5.0 : Children's hour, conducted by Uncle Jack.
 6.0 : Dinner music session (Polydor)—
 Great Symphony Orchestra, "A Rendezvous with Lehar" (arr. Ilmby).
 Marek Weber and His Adlon Orchestra, "Lettre a Armand" (19528).
 Paul Godwin's Orchestra, "Serenata" (Clement) (19628).
 Philharmonic Orchestra, Berlin, "Euryanthe" Overture (Weber).
 Efm Schachmeister's Orchestra, "Gipsy's Farewell" (tradit.) (20455).
 Philharmonic Orchestra, Berlin, "Tannhauser Grand March" (Wagner).
 Marek Weber and His Adlon Orchestra, "Dreams" (Wagner) (19528).
 Paul Godwin's Orchestra, "Types Tziganes" (Clement) (19628); "Side-lights Medley" (Morena) (27168).
 Efm Schachmeister's Orchestra, "White Acacia" (tradit.) (20455).
 Philharmonic Orchestra, "Prelude to Act 3, 'Lohengrin,'" (Wagner).
 7.0 : News and reports.
 8.0 : Chimes. Specially-recorded International Programme:
 Dr. Eugene Ormandy and His Salon Orchestra.
 The Flying Song Squadron.
 Forget-me-not.
 Weather report.
 Lecture—Mr. John Ash, of the "Evening Star, "The Problems of the North-West Pacific."
 The Irresistible Imps.
 Whispers.
 God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, OCTOBER 26.

8.0 to 10.0 p.m.: Concert programme.

Tuesday, October 27

1YA, AUCKLAND (875 KILOCYCLES)—TUESDAY, OCTOBER 27.

- 8.0 : Selected recordings.
 4.30 : Sports results.
 5.0 : Children's session, conducted by Uncle Dave.
 6.0 : Dinner music session (Polydor)—
 Symphony Orchestra, "Frederick" Medley (Lehar) (27070).
 Polydor String Orchestra, "In Indra's Land" (Lincke) (19677).
 State Opera Orchestra, Berlin, "La Dame Blanche" (Boieldieu).
 Symphony Orchestra, "Eva" Medley (Lehar) (27073).
 Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger) (19749).
 State Opera Orchestra, Berlin, "German Dances" (Schubert) (66458).
 The Paul Godwin Orchestra, "Poipourri of German Folk Songs."
 7.0 : News, and market reports.
 7.30 : W.F.A. session—The Rev. William Constable, M.A., "George Bernard Shaw."

- 8.0 : Chimes. Specially Recorded International Programme.
 Dr. Eugene Ormandy and His Salon Orchestra.
 The Flying Song Squadron.
 Forget-Me-Not.
 Weather report.
 International Talk—Mr. A. B. Chappell, "A Look at the League of Nations."
 The Irresistible Imps.
 Whispers.
 God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, OCTOBER 27.

- 10.0 : Chimes. Selected gramophone recordings.
 11.12 : Lecturette, "Fabrics and Fashions."
 12.0 : Lunch-hour music.
 2.0 : Educational session.
 3.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Jumbo.
 6.0 : Dinner music session (Columbia)—
 Columbia Symphony Orchestra, "March of the Toys" (Herbert).
 Court Symphony Orchestra, "Destiny Waltz" (Baynes) (564).
 New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor)—(a) Un Sonnet d'Amour; (b) La Tarantelle Bretilante (02589).
 Columbia Symphony Orchestra, "The Flatterer" (Chaminade) (01371).
 Halle Orchestra, "Rosamunde Ballet Music" (Schubert)—(a) Andantino; (b) Allegro Moderato and Andante (04200).
 J. H. Squire's Celeste Octet, "Memories of Mendelssohn" (02838).
 Berlin State Orchestra, "Wiener Blut" (Strauss) (04337).
 New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor)—(a) La Caprice de Nanette; (b) Demande et Response (02588).
 H.M. Grenadier Guards Band, "Martial Moments" (arr. Winter) (9065).
 7.0 : News, market reports and sports results.
 7.40 : Lecturette by Representative of the Agricultural Department, "For the Man on the Land."
 8.0 : Chimes. Potpourri—Berlin State Opera Orchestra, "The Gipsy Baron."
 8.8 : Baritone—Mr. W. E. Crewes, (a) "Come and Find the Quiet Places"; (b) "The Garden Where My Soul Was Born"; (c) "The Water-Lily" (Clarke).
 8.15 : Overture—2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), "A Night in Venice" (Strauss, arr. Wiegand).
 8.24 : Entertainers—Mr. and Mrs. Albert Russell, "Plantagenet" (David); "Wilderness" (Kumer); "Tricks of the Trade" (Russell).
 8.36 : Male quartet—Fritz Priess Quartet, (a) "Lebwohl—Schwarzbraunes Magdelein" (Beda); (b) "In der Pfalz" (Benes) (Poly. 23746).
 8.42 : Soprano—Miss Gwladys Edwardes, with orchestral accompaniment, (a) "Ashoo at Her Lattice"; (b) "Only a Rose" (Woodforde-Finden).
 8.48 : Instrumental—2YA Salon Orchestra, "Gems from Maritana" (Wallace).
 9.0 : Weather report and station notices.
 9.2 : Medley—Ilja Livschakoff's Orchestra, "Dividends" (Morena) (Poly.).
 9.8 : Baritone—Mr. W. E. Crewes, with orchestral accompaniment, (a) "Bush Night Song"; (b) "Stockrider's Song" (James).
 9.14 : Instrumental—2YA Salon Orchestra, (a) "Chanson Triste"; (b) "Humoresque" (Tschalkowsky).
 9.24 : Entertainers—Mr. and Mrs. Albert Russell, Humour—"Oo! Ha! Ha!" (Wallace); "Sink, Red Sun" (Del Riego); "Before and After."
 9.36 : Piano—Patricia Rossborough, "Frederica" Selection (Lehar) (Parlo.).
 9.42 : Soprano—Miss Gwladys Edwardes, with orchestral accompaniment, (a) "Kashmiri Song"; (b) "At Nightfall" (Woodforde-Finden).
 9.48 : Instrumental—2YA Salon Orchestra, (a) "Hungarian Serenade" (Jonieres); (b) "Adieu" (Friml); (c) Latest Dance Novelties.
 10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, OCTOBER 27.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, OCTOBER 27.

- 8.0 : Selected recordings.
 4.30 : Sports results.
 5.0 : Children's hour, conducted by Aunt Leonore.
 6.0 : Dinner music session (H.M.V.)—
 London Palladium Orchestra, "Nautical Moments" (arr. Winter).
 Organ—Sandy Macpherson, "L'Heure Bleue" (Spolianski) (B3300).
 Vienna Philharmonic Orchestra, "Hungarian Dance No. 1."
 Berlin State Opera Orchestra, "Oberon" Overture (Weber) (D1816).
 Jack Hylton and His Orchestra, "Steppin' Out" (Vauchant) (B5727).
 National Military Band, "Ben Hur" (Byng) (Zono. A365).
 New Mayfair Orchestra, "Follow Through" Selection (De Sylva).
 De Groot and His Orchestra, "I Love You" (Grieg) (B3184).
 Marek Weber and His Orchestra, "Lehariana" (Geiger) (C1679).
 De Groot and His Orchestra, "Romance" (Rubenstein) (B3184).
 Vienna Philharmonic Orchestra, "Hungarian Dance No. 3" (Brahms).
 Jack Hylton and His Orchestra, "Lonesome Little Doll" (Boutelje).
 Organ—Sandy Macpherson, "In an Old World Garden" (Pepper).
 7.0 : News and reports.

- 7.40: Talk, under auspices of the W.E.A.—Mr. Lloyd Ross, M.A., "The Difference Between Sweden and the United States."
- 8.0: Chimes. Programme by Band of 1st Otago Regiment (Conductor: Lieut. Llew. O. Asten), and assisting artists.
- March—The Band, "To The Front" (Hume); Dance, "Rosita."
- 8.10: Soprano—Miss Evelyn Shepard, (a) "Love in Spring" (Gounod); (b) "Bonnie Wee Thing" (Burns).
- 8.16: Violin—Maitland McCutcheon, L.R.A.M., "Rondo" (Mozart).
- 8.23: Accordion—Rene Leroux and His Musette Orchestra, (a) "They Don't Have It" (Olivier); (b) "During The Dance" (Lenoir).
- 8.29: Bass—Mr. F. E. Woods, "The Gladiator" (Adams).
- 8.32: Selection—The Band, "Around The Map" (Finck).
- 8.46: Contralto—Miss Lucy G. James, (a) "Horses of the Dawn" (Brett); (b) "Song of the Open" (La Forge).
- 8.52: Idylle—The Band, "Evening Breeze" (Langey).
- 8.57: Tenor—Mr. J. B. Hamilton, "McGregor's Gathering" (Lee).
- 9.0: Weather report and station notices.
- 9.2: Selection—Paul Godwin's Orchestra, "Japanese Lantern Dance."
- 9.6: Soprano—Miss Evelyn Shepard, "Love Triumphant" (Brahms).
- 9.9: Waltz—The Band, "Roses of the South" (Strauss).
- 9.19: Humour—Regal Sketch Company, "Mr. Sparrow Puts Up For Parliament" (Watson Lee) (Reg. G20466).
- 9.25: Violin—Maitland McCutcheon, L.R.A.M. (a) "Gavotte" (Bach), (b) "Souvenir" (Drdla).
- 9.33: Bass—Mr. F. E. Woods, (a) "Let Me Love Thee" (Arditi); (b) "The Devout Lover" (White).
- 9.39: Clarinet—Bandsman G. Congalton, with band accompaniment, "Romance and Polacca" (La Thiere).
- 9.45: Contralto—Miss Lucy G. James, "The Last Song" (Rogers).
- 9.48: Organ—Leo Stin, "Morning" (from "Peer Gynt Suite") (Grieg).
- 9.51: Tenor—Mr. J. B. Hamilton, (a) "Macushla" (Macmurrough); (b) "Passing By" (Purcell).

- 9.57: March—The Band, "Lynwood" (Hume).
- 10.1: God save the King.

Wednesday, October 28

IYA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, OCTOBER 23.

- 3.0: Chimes. Selected recordings.
- 3.15: Literary selection.
- 4.30: Sports results.
- 5.0: Children's session, conducted by Uncle Reg.
- 6.0: Dinner music session (Parlophone)—
Grand Symphony Orchestra, "Zampa" Overture (Herold) (A4020).
Dajos Bela Orchestra, "Dynamiden" Waltz (Strauss) (A4118); "O Sole Mio" (arr. Lindemann) (A4014); "Kaiser Waltz" (Strauss).
Grand Symphony Orchestra, "The Tea-House of a Hundred Steps."
Dajos Bela Orchestra, "Be Embraced, Ye Millions" (Strauss) (A4118).
Berlin State Opera Orchestra, "Aida" Selection (Verdi) (A4192).
Berlin State Opera Orchestra, with Karol Szreter, pianist, "Hungarian Rhapsody No. 2" (Liszt) (A4109).
Dajos Bela Orchestra, "Narcissus" (Nevin) (A4032).
Grand Symphony Orchestra, "Japanese Cherry Blossom Festival."
Dajos Bela Orchestra, "Souvenir Valse Boston" (Pazeller) (A4014).
Opera Comique Orchestra, "Gopak" (Moussorgsky) (A3028).
- 7.0: News and market reports.
- 7.40: Talk—Mr. W. L. Wilson, Superintendent Auckland Fire Brigade, "Fire Prevention."
- 8.0: Chimes. March—Salon Orchestra, under the direction of Harold Baxter, "Under Orders" (Glogau); rhapsody, "Slavonic Rhapsody."
- 8.11: Soprano—Miss Amy Eaton, (a) "Carissima" (Penn); (b) "Spring's Awakening" (Sanderson).
- 8.17: Pianoforte recital by Eva Stern—(a) "Nocturne in F Sharp Major" (Chopin); (b) "Ecossaises" (Beethoven); (c) "Alt-Wien" (Gadowski); (d) "Waltz in E Minor" (Chopin).
- 8.32: Baritone—Mr. Len Barnes with orchestral accompaniment, "Stars of the Desert" Suite (Woodforde-Finden)—(1) "Stars of the Desert"; (2) "You are All That is Lovely"; (3) "The Rice was Under Water"; (4) "Fate."
- 8.42: Humour—Miss Noni Wright, "At the Box Office Window."
- 8.49: Arnold Greer, "Medley of National Airs" (Zono. 5087).
- 8.55: Waltz—Salon Orchestra, "The White Dove" (Lehar); intermezzo, "Water Lilies" (Clark).
- 9.3: Evening weather forecast and announcements.
- 9.5: Pianoforte recital by Eva Stern—(a) "Impromptu in E Flat" (Schubert); (b) "Liebestraume" (Liszt); (c) "Caprice Espagnole" (Moszkowski); (d) "Impromptu in A Flat Major" (Chopin).
- 9.20: Soprano—Miss Amy Eaton, (a) "I Know a Lovely Garden" (D'Hardelet); (b) "April Morn" (Batten).
- 9.26: Characteristic—Salon Orchestra, "Ghost Dance" (Salisbury); (b) "Slavonic Dance No. 9" (Dvorak).
- 9.34: Humour—Miss Noni Wright, "Humour at the Piano" (arr. Wright).
- 9.38: Baritone—Mr. Len Barnes, with orchestral accompaniment, (a) "Gipsy Love Song" (Herbert); (b) "For the Green" (Lohr).
- 9.45: Chorus—The Salon Group, (a) "The Fortune-Teller" (Herbert); (b) "Kiss Me Again" (Herbert) (H.M.V. EB58).
- 9.53: Selection—Salon Orchestra, "Firefly" (Friml).
- 10.3: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, OCTOBER 23.

- 10.0: Chimes. Selected gramophone recordings.
- 11.37: Lecturette—"Hollywood Affairs."
- 12.0: Lunch hour music.
- 2.0: Selected recordings.
- 3.15: Lecturette—Miss Ruth Hay, "Swimming."
- 3.30 and 4.30: Sporting results.
- 5.0: Children's hour, conducted by Aunt Daisy.
- 6.0: Dinner music session (Polydor)—
Paul Godwin's Orchestra, "From Ear to Ear" (Morena) (19623).
Great Symphony Orchestra, "The Master Miner" (Zeller) (23315).
Paul Godwin's Orchestra, "Alsatian Country Dance, No. 2" (Merkelt) (21210); "Smitten" (Ziehrer-Hruby) (21709).
Symphony Orchestra, "Countess Maritza" (Medley) (Kalman).
Paul Godwin's Orchestra, "Flower Song" (Lange) (21709); "Marietta" Fantasia (Strauss) (27154).
Association des Concerts Lamoureux, Paris, "Petite Suite" (Debussy): (1) En Batteau, (2) Cortège, (3) Menuet, (4) Ballet (66958/9).
Paul Godwin's Orchestra, "Alsatian Country Dance, No. 1" (Merkelt).
- 7.0: News, market reports and sports results.
- 7.40: Lecturette—Mr. F. M. Bateson, Sectional Secretary, N.Z. Astronomical Society, "Measuring the Universe."
- 8.0: Chimes. Dr. Eugene Ormandy and His Salon Orchestra.
Mirth Quakers.
Weather report.
International talk—Dr. Guy H. Scholefield, O.B.E.
Stardust.
Whispers.
God save the King.

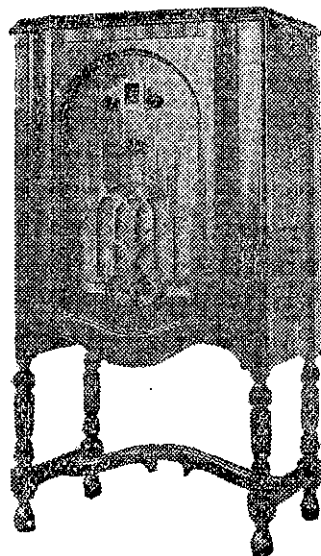
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3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, OCT. 28.

- 3.0 : Gramophone recital.
 4.30: Sports results.
 5.0 : Children's hour, conducted by Uncle John.
 6.0 : Dinner music session (Columbia)—
 Herman Finck and His Orchestra, "Melodious Memories" (DOX155).
 Jacques Jacobs Ensemble, "Wiener Blut" (Strauss) (02556).
 J. H. Squire's Celeste Octet, "Twilight on the Waters" (Squire).
 Bohemian Orchestra, "Love and Life in Vienna" (Komzack).
 Regal Orchestra, "Pagliacci" Selection (Leoncavallo) (G30007).
 Jacques Jacobs Ensemble, "Sobre Las Olas" (Rosas) (02556).
 J. H. Squire's Celeste Octet, "The Piccaninnies' Picnic" (Squire).
 Court Symphony Orchestra, "The Windmill Man" (02909).
 Plaza Theatre Orchestra, "The Three Bears" (Coates) (02744).
 Herman Finck's Orchestra, "Schubertiana" (arr. Finck) (02721).
 Bohemian Orchestra, "Destiny Waltz" (Baynes) (Reg. G20775).
 7.0 : News and reports.
 7.30: Addington stock market report.
 8.0 : Chimes. Overture—Paul Godwin's Orchestra, "Lastspiel" (Bela).
 8.4 : Tenor—Mr. Jas. Shaw with octet accompaniment—Recit. "Deeper and Deeper Still"; aria, "Wait Her, Angels" (from "Jephtha") (Handel).
 8.9 : Piano—Miss Merle Miller, "Ballad in A Flat" (Chopin).
 8.14: Soprano—Mrs. W. B. Harris, "Solweig's Song" (Grieg).
 8.18: Orchestral—Studio Octet (Conductor, Harold Beck), (a) "Priests' March" (Mendelssohn); (b) "Don Giovanni" Overture (Mozart).
 8.27: Baritone—Rev. C. F. Cross, (a) "By a Bierside" (Armstrong Gibbs); (b) "Road to the Isles" (from "Songs of the Hebrides").
 8.31: Relay from the Radiant Hall (portion of 3rd Annual Children's Festival of Music).
 Orchestral—Training College and Boys' High School Orchestras, (a) "Northern Song"; (b) "Song of Sunshine"; (c) "Happy Song."
 8.43: Choral—Children's Festival Choir, (a) "Come, Let Us All This Day" (Bach); (b) "May Dew" (Sterndale Bennett); (c) "Nymphs and Shepherds" (Purcell).
 From the studio:
 8.53: Instrumental—Studio Octet, "Gavotte" (Elvey).
 8.57: Tenor—Mr. Jas. Shaw, (a) "The Sands o' Dee" (Clay); (b) "The Coming of a Dream" (Knight).
 9.4 : Weather forecast and station notices.
 9.6 : Selection—De Groot and His Orchestra, "Autumn" (Chaminade).
 9.10: Soprano—Mrs. W. B. Harris, with octet accompaniment, (a) "Should He Upbraid" (Bishop); (b) "Chanson Indoue."
 9.17: Piano—Miss Merle Miller, "Il Moto Continuo" (Weber).
 9.21: Baritone—Rev. C. F. Cross, (a) "Fain Would I Change the Note" (Tobias Hume); (b) "Shall I Come, Sweet Love" (Campion).
 9.24: Orchestral—Studio Octet, (a) "Cuban Dance" (Cervantes); (b) "Minuet" (Haydn).
 9.30: Programme of old-time dance music—
 Waltzes—Debroy Somers' Band, "Valse Memories" (arr. Somers) (Col. 01702); Dinicu and His Orchestra, "Destiny Waltz" (Baynes).
 9.36: Polka—Debroy Somers' Band, "Polka Medley" (Grossmith) (DO284).
 9.39: Valeta—Cec. Morrison and His A.B.C. Dance Band, "Dreaming."
 9.42: Mazurka—Cec. Morrison and His A.B.C. Dance Orchestra, "Moonwinks" (Stevens) (Parlo. A3221).
 9.45: Lancers—Court Symphony Orchestra, "Community Lancers."
 Waltz—The Troubadours, "Popular Songs of Yesterday" (H.M.V.).
 9.59: Boston two-step—Debroy Somers' Band, "Barn Dance" (Lutz).
 10.2 : Schottische—Cec. Morrison and His A.B.C. Dance Band, "The Birds and the Brook" (Stults) (Parlo. A3221).
 10.5 : Waltz—International Concert Orchestra, "Blue Danube Waltz."
 10.10: Maxina—Bert Firman's Dance Orchestra, "My Lady Dainty" (Hesse).
 10.13: Polka—International Dance Orchestra, "Grandfather's Polka."
 10.16: Waltz—Eddie Thomas's Collegians, "The Missouri Waltz" (Logan).
 10.20: Lancers—The Ball Room Orchestra, "Fink-a-Lincke Lancers" (Winter).
 Waltz—Jacques Jacobs' Ensemble, "Over the Waves" (Rosas).
 10.37: Maxina—Cec. Morrison and His A.B.C. Dance Band, "Maxina."
 10.40: Valeta—International Novelty Quartet, "Cuckoo" (Jonasson).
 10.43: Schottische—Gil Dech and His Syncopators, "Dance of the Honeybees."
 10.46: Waltz—The Ball Room Orchestra, "The Costume Ball" (Winter).
 10.49: "Paul Jones" (Parlo. A2749).
 10.55: Waltz—Rio Marimba Orchestra, "Three O'Clock in the Morning."
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, OCTOBER 28.

- 3.0 : Selected recordings.
 3.15: Talk—"Spring Salads," by the Home Science Extension Service of Otago University.
 4.30: Sports results.
 5.0 : Children's hour, conducted by Big Brother Bill.
 6.0 : Dinner music session—
 Dajos Bela Orchestra, "Fantasie Orientale" (Lange) (Parlo. A4003).
 Ilja Livschakoff's Orchestra, "Somewhere a Voice is Calling" (Tate).
 Paul Godwin's String Quartet, "A Fragile Spring Has Blossomed Forth" (23374).
 Paul Godwin's Orchestra, "Pritzel Dolls" (Rauls) (21712).
 Bereny's Hungarian Gipsy Symphony Orchestra, "Tales from the Vienna Woods" (Strauss) (23691).
 Great Symphony Orchestra, "Edmund Eysler's Operettas" Selection.
 Ilja Livschakoff's Orchestra, "Volga—Russian Medley" (23373).
 The Pozniak Trio, "Three Miniatures—Elegie" (Juon) (62549).

- Ilja Livschakoff's Orchestra, "The Rosary" (Nevin) (23648).
 Paul Godwin's Dance Orchestra, "Little Bird's Evening Song" (21013).
 Edith Lorand's Orchestra, "After the Ball" Waltz (Harris) (Parlo).
 Bereny's Hungarian Gipsy Symphony Orchestra, "Original Hungarian Dance" (arr. Bereny) (Poly. 23691).
 Paul Godwin's Trio, "Largo" (Handel) (23374).
 Ilja Livschakoff's Orchestra, "Troika—Russian Medley" (23373).
 Balalaika Orchestra, "Auf dem Wege Nach Petersburg" (Poly. R40090).
 7.0 : News and reports.
 7.15: Talk—Mr. G. A. Holmes, under the auspices of 4YA Primary Productions Committee, "Turnip Manring."
 8.0 : Chimes. Overture—Berlin State Opera Orchestra, "Jabel" (Weber).
 8.9 : Song cycle—Select Four, "Dorothy's Wedding Day" (Lane-Wilson).
 8.21: Trios—Mons. B. L. H. de Rose, Messrs. A. Pettitt and L. Hunter—
 (a) "Thais" (Massenet, arr. Alder); (b) "Goyescas" Intermezzo.
 8.33: Continuation of song cycle, "Dorothy's Wedding Day," by the Select Four.
 8.44: 'Cello—Mr. L. Hunter, "Chanson Triste" (Sycora).
 Trio—Mons. de Rose, Messrs. Pettitt and L. Hunter, "Allegro from Trio, Op. 12, No. 2" (Fesca).
 8.56: Tenor—Mr. J. E. Davies, "Two Welsh Folk Songs in Welsh" (tradit.).
 9.0 : Weather report and station notices.
 9.2 : Lecture-recital under the auspices of the Society of Professional Musicians of Otago presented by Mons. Paul Saldaigne, assisted by C. G. Drummond, "Grand Opera."
 9.30: Dance music session—
 Foxtrots—The Radiolites, "I'm Happy When You're Happy" (Baer) (Reg. G21042); The Rhythmic Eight, "Oh! Donna Clara" (Petersburski) (Zono. 5757); Victor Arden, Phil Ohman, and Their Orchestra, "The Sleepy Town Express" (Gillespie) (H.M.V. EA880); Havana Novelty Orchestra, "Little Spanish Dancer" (Seymour).
 9.42: Waltzes—Paul Godwin's Dance Orchestra, "Don't Ask How, Don't Ask Where" (Heymann) (Poly. 23841); "Why Must I Just Be the Stepchild of Luck?" (Kollo) (23843).
 9.48: Foxtrots—Paul Godwin's Dance Orchestra, "Can You Be Happy with Moonshine Alone?" (Kollo) (23842); "Love was Smuggled Into My House" (Heymann) (23841).
 9.54: Vocal—Layton and Johnstone, "When Your Hair Has Turned to Silver" (Tobias) (Col. DO381).
 9.57: Foxtrots—The Society Serenaders, "After Your Kiss" (Elliscu) (Reg. G20947); The Rhythmic Eight, "Living a Life of Dreams" (Cowan) (Zono. 5757); The Society Serenaders, "Soldier on a Shelf" (Reg.).
 10.6 : Waltzes—Ilja Livschakoff's Dance Orchestra, "Fleurette" (Gilbert) (23878); Paul Godwin's Dance Orchestra, "It'll Be Sunshine Tomorrow" (Meisel) (23886).
 10.12: Foxtrots—Stellar Dance Band, "When It's Harvest Time in Tennessee" (Lumsdaine) (Reg. G20934); Nat Shilkret and His Orchestra, "The Wedding of the Birds" (Tobias) (H.M.V. EA857); Stellar Dance Band, "Every Day is a Rainbow Day for Me" (Bradman) (Reg.).
 10.21: Vocal—Marion Harris, "Would You Like to Take a Walk?" (Dixon).
 10.24: Foxtrots—Leonard Joy's All-String Orchestra, "On a Little Balcony in Spain" (Klein) (H.M.V. EA854); Gus Arnheim and His Coconut Grove Orchestra, "The Little Things in Life" (Berlin) (H.M.V. EA856); The Southerners, "Yours and Mine" (Nelson) (H.M.V. EA854); Wayne King and His Orchestra, "One Little Raindrop."
 10.36: Waltzes—Ilja Livschakoff's Dance Orchestra, "When You are in Love" (Grock) (Poly. 23878); Paul Godwin's Dance Orchestra, "Don't Leave Me" (Monosson) (23886).
 10.42: Foxtrots—Nat Shilkret and His Orchestra, "Baby's Birthday Party" (Ronell) (H.M.V. EA857); Gus Arnheim and His Coconut Grove Orchestra, "Them There Eyes" (Pinkard) (EA856).
 10.48: Vocal—Layton and Johnstone, "Wedding Bells are Ringing for Sally."
 10.51: Foxtrots—Wayne King and His Orchestra, "Dream a Little Dream of Me" (Kahn) (H.M.V. EA892); Rudy Vallee and His Connecticut Yankees, "Thinking of You, Dear" (Bronson) (EA855); Paul Godwin's Dance Orchestra, "I Am So Shy, Madam" (Poly. 23843).
 11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, OCT. 28.

- 6.30 to 7.30 p.m.: Children's session.
 7.30 to 8 p.m.: Sports talks.

Thursday, October 29**1YA, AUCKLAND (875 KILOCYCLES)—THURSDAY, OCTOBER 29.**

- 12.15: Relay of special midday service from St. Mathew's Church.
 3.0 : Chimes. Selected recordings.
 3.15: Talk—"Delicious Drinks made at Home." Talk prepared by the Home Science Extension Service Otago University.
 4.30: Sports results.
 5.0 : Children's session, conducted by Skipper.
 6.0 : Dinner music session (Columbia)—
 Percy Pitt's Orchestra, "Raymond" Overture (Thomas) (DOX84).
 Orchestre Symphonique de Paris, "L'Arlesienne Suite" Intermezzo.
 Musical Art Quartet, "Deep River" (arr. Conrad Held) (01625).
 Continental Novelty Orchestra, "Las Lagarteranas" (Foulkes).
 Band of H.M. Grenadier Guards, "Ivanhoe" Selection.
 J. H. Squire's Celeste Octet, "La Serenata" (Braga) (9116).

Plaza Theatre Orchestra, "My Lady Dainty" (Hesse) (01438).
 B.B.C. Wireless Symphony Orchestra, "Il Trovatore" Selection.
 Orchestre Symphonique de Paris, "L'Arlesienne Suite" Entr'acte, Le
 Cuisine De Castelet" (Bizet) (01326).
 Musical Art Quartet, "Serenade" (Herbert) (01625).
 Berlin Philharmonic Orchestra, "Roses of the South" Waltz.
 Continental Novelty Orchestra, "Los Claveles De Sevilla" (Guerrero).
 J. H. Squire's Celeste Octet, "Serenade" (Titl) (9116).
 Plaza Theatre Orchestra, "The Busy Bee" (Bendix) (01438).

7.0 : News and market reports.

7.40 : Talk under auspices of N.Z. Manufacturers' Association—"Farm Im-
 plements."

8.0 : Chimes. Concert by the Auckland Orphans' Club Orchestra under the
 conductorship of Mr. Harold Baxter.

March—The Orchestra, "Vimy Ridge" (Bidgood); Overture, "Echo De
 Bastions" (Klein).

8.11 : Tenor—Orphan Frank Campbell, (a) "I Know of Two Bright Eyes"
 (Clutsam); (b) "Mighty Lak' a Rose" (Nevin).

8.17 : Orchestral—The Orchestra, "Incidental Music to Henry VIII" (Sul-
 livan); Sea Chanty, "Shenandoah" (arr. Sparling).

8.30 : Humour—Orphan Cedric Zahara, "Public Conversations" (Leo).

8.36 : Orchestral—The Orchestra, (a) "Melody in F" (Rubenstein); (b)
 "Bells of St. Martin" (Rondelle); (c) "Irish Patrol" (Puerner).

8.47 : Tenor—Orphan Frank Campbell, "In Sweet September" (Temple).

8.51 : Overture—The Orchestra, "Fingal's Cave" (Mendelssohn).

9.0 : Evening weather forecast and announcements.

9.2 : Selections—The Orchestra, "H.M.S. Pinafore" (Sullivan); "Eastern
 Pictures" (Pratt).

9.18 : Humour—Orphan Cedric Zahara, "Little Happenings" (Farjeon).

9.22 : Suite—The Orchestra, "A Day in Naples" (Byng); March, "Night."

9.33 : Programme of dance music (Brunswick)—
 Foxtrot—Hal Kemp and His Orchestra, "Medley of Southern College
 Songs" (4958).

Waltz—Carter's Orchestra, "Wednesday Night Waltz" (Williams).

9.45 : Lloyd Huntley and His Isle O' Blues Orchestra, "Lonely" (Gray).
 Ben Bernie and His Orchestra, "I Still Belong To You" (Eliscu).

Lloyd Huntley and his Isle O' Blues Orchestra, "Gee, But I'd Like To
 Make You Happy" (Shay) (4937).

9.54 : Vocal—Chester Gaylord "What's The Use?" (Jones) (4928).

9.57 : Foxtrots—Phil Spitalny's Music, "Maybe It's Love" (Mitchell)
 (4917); Tom Gerun and His Orchestra, "Maybe I'm in Love With
 a Dream" (Gerun) (6057); Tom Clines and His Music, "Why Have
 You Forgotten Waikiki?" (Kahn) (4882); Phil Spitalny's Music,
 "Beyond the Blue Horizon" (Robin) (4917).

10.9 : Vocal duet—Cotton and Morpheus, "Never Swat a Fly" (de Sylva).

10.12 : Foxtrots—Six Jumping Jacks, "You're Simply Delish" (Freed)
 (4948); Jacques Renard and His Orchestra, "Readin', Ritin',
 Rhythm" (Hartman) (4940); Six Jumping Jacks, "It's a Great
 Life" (Robin) (4948); Tom Gerun and His Orchestra, "I'm Happy
 When You're Happy" (Baer) (6057).

10.21 : Waltzes—Bob Haring and His Orchestra, "One Love" (Koehler)
 (4973); Castlewood Marimba Band, "Song of the Islands" (King).

10.27 : Foxtrots—Jacques Renard and His Orchestra, "If I Knew You Better"
 (Hartman) (4940); Tom Gerun and His Orchestra, "What a Fool
 I've Been" (Gendron) (4942); Bob Haring and His Orchestra,
 "Baby's Birthday Party" (Ronell) (4973); Castlewood Marimba
 Band, "Drifting and Dreaming" (Gillespie) (4955).

10.39 : Vocal—Chester Gaylord, "I'll Be Blue Just Thinking of You."

10.42 : Foxtrots—Tom Clines and His Music, "Passing Time With Me" (Hill)
 (4941); Meyer Davis' Hotel Astor Orchestra, "It Seems To Be
 Spring" (Marion) (4882); Tom Clines and His Music, "What's The
 Use of Living Without Love?" (McCarthy) (4941).

Waltz—Carter's Orchestra, "The Waltz of the Hills" (Fields) (4935).

10.54 : Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Wond'ring"
 (Sherman) (4970); Ben Bernie and His Orchestra, "You Are The
 Melody" (De Sylva) (4950); Tom Gerun and His Orchestra, "After
 All You're All I'm After" (Newman) (4942).

11.3 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, OCTOBER 29.

10.0 : Chimes. Selected gramophone recordings

10.45 : Lecturette, "Cooking."

12.0 : Lunch-hour music.

2.0 : Selected recordings.

3.15 : Lecturette—Miss I. F. Meadows, "Delicious Drinks Made at Home."
 Talk prepared by the Home Science Extension Department of Otago
 University.

3.30 and 4.30 : Sporting results.

5.0 : Children's hour, conducted by Uncle George and Big Brother Jack.

6.0 : Dinner music session (H.M.V.)—

Berlin State Opera Orchestra, "The Beautiful Galathea" Overture.

De Groot and his Piccadilly Orchestra, "Dear Love o' Mine" (Lewis).

Marek Weber and His Orchestra, "Siren Magic" (Waldteufel) (B3527).

New Symphony Orchestra, "Pastoral Dance" from "Nell Gwynn."

National Symphony Orchestra, "William Tell" Overture (Rossini).

De Groot and His Piccadilly Orchestra, "Two Little Tired Hands."

New Symphony Orchestra, "Country Dance" from "Nell Gwynn."

De Groot and His Orchestra, "Traume" (Wagner) (C1966).

New Symphony Orchestra, Le Cid" Ballet Music (Massenet)—(1)

Castillane; (2) Aubade; (3) Andalouse; (4) Arragonaise; (5)

Madrilene; (6) Navarraise (C1638-9).

Marek Weber and His Orchestra, "My Dream" (Waldteufel) (B3527).

De Groot and His Orchestra, "Autumn" (Chaminade) (C1966).

7.0 : News, market reports and sports results.

7.40 : Lecturette under the auspices of the Health Department, Mr. F. Clay-
 ton, "Conservation of Vision."

8.0 : Chimes. Relay from the Opera House, Wanganui, of concert by the
 Wanganui Garrison Band (under the direction of Mr. J. M. Watson)
 and assisting artists.

March—The Band, "Wanganui City" (Gray).

Selection—Band, "William Tell" (Rossini).

Song—Mr. C. Haar, "The Rebel" (Wallace).

Whistling solo—Miss Rothery, "Invercargill" (Lithgow).

Song—Mr. George Bosher, with violin obbligato, "Serenade" (Schubert)

Grand selection—Band, "The Valkyries" (Wagner).

Musical monologue—Master Jim Scott, "The Stuffed Owl."

Aria—Miss Mary Massey, "Ritorna Vincitor" (Verdi).

Descriptive—The Band, "Jamie's Patrol" (Dacre).

Flute solo—Mr. C. Tucker, "Scherzo Capriccio" (Sabathil).

Song—Mr. C. Haar, "Cradle Song" (Wallace).

Euphonium solo—Mr. Owen Williams, "Jenny Jones" (arr. Watson).

Whistling solo—Miss Rothery, "A Whistler and His Dog" (Douglas).

Tenor—Mr. George Bosher, "Let Me Like a Soldier Fall" (from "Mari-
 tana"—Wallace).

Cornet solo—Mr. J. Farrell, "I Bring a Love Song" (Romberg).

Song—Miss Mary Massey, with flute obbligato by Mr. C. Tucker, "Lo!
 Here the Gentle Lark" (Bishop).

Recitation—Master Jim Scott, "The Yukon Trail."

Selection—Band, "Reminiscences of the Plantation" (Godfrey).

God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, OCTOBER 29.

3.0 : Gramophone recital.

3.15 : Lecturette—"Delicious Drinks Made at Home." Talk prepared by
 the Home Science Extension Service, Otago University.

4.30 : Sports results.

5.0 : Children's hour, conducted by Ladybird and Uncle Frank.

6.0 : Dinner music session (Polydor)—

Paul Godwin's Dance Orchestra, "Medley of Popular Student Songs."

Paul Godwin's Quintet with harp, "Extase—Reverie" (Ganne) (19928)

Paul Godwin's Orchestra, "Poranek" Waltz Intermezzo (Lindsay).

Organ—Leo Stin, "Chanson Hindoue" (Rimsky-Korsakov) (23165).

Polydor Orchestra, "Cocou—Imitative Waltz" (Jonasson) (23563).

Paul Godwin's Orchestra, "In the Rosary" (Bialecki) (21005); "Tin
 Soldiers' Parade" (Jessel) (19659).

Berlin State Opera Orchestra, "Introductions to Acts 1, 2, and 3 from
 'Carmen'" (Bizet) (27190).

Paul Godwin's Quintet with harp, (a) "Popular Song"; (b) "Tale."

Paul Godwin's Orchestra, "La Serenade" Waltz (Metra) (22872).

Organ—Leo Stin, "Werther" (Massenet) (23165).

Paul Godwin's Orchestra, "Fairy Doll" Waltz (Bayer) (21005).

Paul Godwin's Dance Orchestra, "Siamese Parade" Fantasy (Lincke).

Polydor Orchestra, "Valse Poudree" (Poppy) (23563).

7.0 : News session.

7.15 : Talk—Mr. E. E. Wiltshire, "Books of the Month."

7.30 : Talk—Mr. R. McGillivray, Superintendent of Department of Agricul-
 ture (under the auspices of the 3YA Primary Productions Commit-
 tee), "History of Artificial Fertilisers."

8.0 : Chimes. Specially-recorded International Programme.

The Vitaphone Orchestra.

The Irresistible Imps.

The Flying Song Squadron.

9.0 : Weather forecast and station notices.

9.2 : International talk—Professor A. H. Tocker, "The Economic Situation
 in Germany."

Forget-me-not.

Whispers.

10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, OCTOBER 29.

SILENT DAY.

Friday, October 30

1YA AUCKLAND (875 KILOCYCLES)—FRIDAY, OCTOBER 30.

3.0 : Chimes. Selected recordings.

3.15 : Literary selection.

4.30 : Sports results.

5.0 : Children's session, conducted by Nod and Aunt Jean.

6.0 : Dinner music session (H.M.V.)—

New Mayfair Orchestra, "Lilac Time" (Schubert, arr. Clutsam).

New Symphony Orchestra, "Nell Gwynn Dance No. 3" (German).

New Symphony Orchestra, "Scenes de Ballet, Op. 52" (Glazounoff)—

(1); Preamble No. 4, Scherzino; (2) Marionettes, No. 6; (3)

Mazurka; (5) Pas de Action; (7) Valse; (8) Polonaise (C1752-3-4)

Zonophone Salon Orchestra, "Eleanor" (Deppen) (Zono. 5574).

De Groot and Piccadilly Orchestra, "Waldteufel Memories" (B3084).

Royal Opera Orchestra, "Carmen" Ballet No. 2 (Bizet) (C1424).

New Light Symphony Orchestra, "Minuet" (Boccherini) (B3086).

- Zonophone Salon Orchestra, "Evensong" (Easthope Martin) (Zono.).
 Royal Opera Orchestra, "Carmen" Entr'acte and Ballet No. 1 (Bizet).
 7.0 : News and market reports.
 7.40 : Sports talk.
 8.0 : Chimes. Medley—Jack Hylton and His Orchestra, "Melodious Memories" (Finck) (H.M.V. C1575).
 8.9 : Contralto—Miss Winifred Johnson, (a) "In the Gardens of England" (James); (b) "In Maytime" (Speaks).
 8.15 : Selection—Reg. Morgan's Orchestra, "Rigoletto" (Verdi).
 8.25 : Baritone—Mr. Rex Harrison, Prologue to "I Pagliacci" (Leoncavallo).
 8.30 : Vocal trios—The Baraldi Trio, (a) "Orpheus With His Lute"; (b) "Beauteous Morn" (German) (H.M.V. B3067).
 8.36 : Waltz—The Orchestra, "Listening to the Violin" (Rotter and Grotte).
 Violin solo—Mr. Gar. Fowler, "Hungarian Dance" (Brdla).
 Selection—The Orchestra, "Rhythmic Paraphrase on 'Faust'."
 8.50 : Baritone—Mr. Rex Harrison, (a) "Tangi" (Hill); (b) "Waiata Maori" (Hill).
 8.57 : Cornet solo—Del Stalgers with Goldman's Band, "My Heaven of Love."
 9.0 : Evening weather forecast and announcements.
 9.2 : Medley—Herman Finck and His Orchestra, "Plantation Melodies."
 9.8 : Saxophone—Mr. C. Hoffmann, "Valse Marylan" (Wiedoeft).
 March—The Orchestra, "En Avant" (Kreutsmur).
 9.16 : Contralto—Miss Winifred Johnson, (a) "If You Were Here" (Squire); (b) "Little Rose of Love" (Forster).
 9.22 : Piano—Mr. Cyril Towsey, "Ballade in A Flat" (Chopin).
 9.30 : Humour—Mr. Dan Flood, (a) "Apres Vous" (Kent); (b) "I Forget" (Hastings); (c) "The Hon. Bertram on Candidates" (King).
 9.41 : Selection—Light Opera Comedy, "The Quaker Girl" (Monckton).
 9.49 : Foxtrots—The Orchestra, "Ninety-nine Out of a Hundred" (Johnston); "Cross Your Fingers" (Coats); "Why?" (Coats).
 10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, OCTOBER 30.

- 9.0 : Chimes. Selected gramophone recordings.
 1.12 : Lecturette—"Fashions."
 2.0 : Lunch hour music.
 2.0 : Selected recordings.
 3.30 and 4.30 : Sporting results.
 5.0 : Children's hour, conducted by Uncle Jim.
 6.0 : Dinner music session (Parlophone)—
 Dajos Bela Orchestra, "Faust" Waltz (Gounod) (A4010).
 Major Bowes' Capitol Theatre Trio, "My Isle of Golden Dreams."
 Raie da Costa Ensemble, "Rag Doll" (Brown) (A2677).
 Berlin State Opera House Orchestra, "The Mastersingers" Overture.
 Barnabas von Gezy and His Orchestra, "Pardon, My Lady" Tango.
 Dajos Bela Orchestra, "Vienna Bon Bons" Waltz (Strauss) (A4056).
 Grand Symphony Orchestra, "Polonaise No. 1 in A" (Chopin) (A4089).
 Raie da Costa Ensemble, "Laughing Marionette" (Collins) (A2677).
 Pavilion Lescant Tango Orchestra, "In a Little Cafe" Tango (A2898).
 Major Bowes' Capitol Theatre Orchestra, "Pale Moon" (Logan).
 Dajos Bela Orchestra, "The Swallows" Waltz (Strauss) (A4010).
 Grand Symphony Orchestra, "Hungarian Dances, Nos. 5 and 8."
 Frank Westfield's Orchestra, "The New Sullivan" Selection (A2679).
 Dajos Bela Orchestra, "Roses of the South" Waltz (Strauss) (A4056).
 7.0 : News, market reports and sports results.
 8.0 : Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Southern Star" (Asher and Mahl).
 8.8 : Tenor—Mr. W. Roy Hill, (a) "The Asra"; (b) "I Feel Thy Perfume Wafted" (Rubenstein).
 Quartet—The Lyric, "Serenade" (Mendelssohn).
 8.16 : Concertina—Mr. R. M. Stratmore, (a) "Life's Dream is O'er" (Asher); (b) "Imitation—Various" (arr. Stratmore).
 8.23 : Tenor—Mr. Chas. Williams with orchestral accompaniment, "Pale Moon" (Logan).
 Quartet—The Lyric, with orchestral accompaniment, "Oh, Isis and Osiris" (Mozart).
 8.29 : Boy soprano—Master Stewart Adair, (a) "In April Time" (Maundrell); (b) "O, for the Wings of a Dove" (Mendelssohn).
 8.35 : Selection—2YA Orchestra, "On with the Dance" (Coward—Brahm).
 8.45 : Baritone—Mr. Will Goudie, with orchestral accompaniment, "It's a Beautiful Day" (Bennett).
 8.49 : Concertina—Mr. R. M. Stratmore, "Scotch Medley" (arr. Stratmore).
 8.56 : Boy soprano—Master Stewart Adair, "Bird Songs at Eventide."
 9.0 : Weather report and station notices.
 9.2 : Suite—2YA Orchestra, "Three Light Pieces" (Somerville).
 9.10 : Bass—Mr. W. Binet Brown, with orchestral accompaniment, "Lighterman Tom" (Squire).
 Quartet—The Lyric, Negro Spirituals (O'Hara): (a) "Git Yo' Ticket"; (b) "Talk About Jerusalem."
 9.20 : Fantasia—2YA Orchestra, "Vision of Salome" (Lampe).
 9.30 : Dance programme (Parlophone)—
 Foxtrots—Tom Rock and His Orchestra, "Truly, I Love You" (Hirsch) (A144); Sam Lanin and His Famous Players, "It's a Lonesome Old Town" (Tobias) (A3146); Ray Seeley and His Orchestra, "There's Something Missing in Your Eyes" (Gilbert) (A3144); Ed Loyd and His Orchestra, "Walkin' My Baby Back Home."
 9.42 : Waltz—Hotel Pennsylvania Orchestra, "The Kiss Waltz" (Dubin).
 9.45 : Foxtrots—Sam Lanin and His Famous Players, "Oh, Why?" (Stothart) (A3117); Ray Seeley and His Orchestra, "You're the One I Care For" (Gray) (A3154); Ed Loyd and His Orchestra, "I am the Words, You are the Melody" (De Sylva) (A3117).

- 9.54 : Vocal—John Warren, "I Miss a Little Miss" (Coots) (A3125).
 9.57 : Foxtrots—Sam Lanin and His Famous Players, "The One-Man Band" (Baxter) (A3160); Ed Loyd and His Orchestra, "Sing-Song Girl" (Hanley) (A3154); The New York Syncopators, "The King's Horses" (Graham) (A3160).
 10.6 : Waltzes—Pavilion Lescant Orchestra, "Drink, Brother, Drink" (Bendix) (A3150); The Orquesta Tipica Francisco Canaro, "Bells of Hawaii" (Heagney) (A3177).
 10.12 : Foxtrots—Ed. Loyd and His Orchestra, "Hullabaloo" (Dolen) (A3115); Hotel Pennsylvania Orchestra, "Sing Something Simple" (Hupfield) (A3127); Ray Seeley and His Orchestra, "Hurt" (Solomon) (A3126); Hotel Pennsylvania Orchestra, "A Peach of a Pair" (A3124).
 10.24 : Vocal—Melville Gideon, "Lady, Play Your Mandolin" (Caesar).
 10.27 : Foxtrots—Sam Lanin and His Famous Players, "To-morrow is Another Day" (Green) (A3129); The New York Syncopators, "I'm so Afraid of You" (Kalmar) (A3145); "The Little Things in Life."
 10.36 : Tango—Pavilion Lescant Orchestra, "Oh! Miss Greta" (Flossas).
 10.39 : Vocal—John Warren, "Heavenly Night" (Brown) (A3125).
 10.42 : Foxtrots—Russ Morgan and His Orchestra, "Little Sunshine" (Mitchell) (A3129); Ed Loyd and His Orchestra, "Hello! Beautiful!" (Donaldson) (A3153).
 10.48 : Waltz—Sam Lanin and His Famous Players, "Tears" (Capano).
 10.51 : Foxtrots—Sam Lanin and His Orchestra, "Crying Myself to Sleep" (Wendling) (A3147); "When You Were the Blossom of Buttercup Lane" (Dubin) (A3153).
 Waltz—Fred Rich and His Orchestra, "When Your Hair has Turned to Silver" (Tobias) (A3159).
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, OCTOBER 30.

- 3.0 : Gramophone recital.
 4.30 : Sports results.
 5.0 : Children's hour, conducted by Chuckle.
 6.0 : Dinner music session (H.M.V.)—
 H.M. Coldstream Guards Band, "Wedding of the Rose" (Jessel).
 Vienna Philharmonic Orchestra, "Dorfschwalben Waltz" (Strauss).
 Instrumental trio—Fritz Kreisler, Hugo Kreisler and M. Rauchslein, "Syncopation" (Kreisler) (DA961).
 Organ—Jesse Crawford, "Serenade" (Friml) (EA638).
 International Novelty Orchestra, "Four Little Farms" (Zono. EE182).
 Coldstream Guards Band, "Suite Francaise" (Foulds) (B2751-2).
 De Groot and His Orchestra, "Samson and Delilah" Selection.
 Marek Weber and His Orchestra, "Cavalleria Rusticana" Selection.
 Organ solo—Jesse Crawford, "Indian Love Call" (Friml) (EA638).
 Instrumental trio—Fritz Kreisler, Hugo Kreisler and M. Rauchslein, "Marche Miniature Viennois" (Kreisler) (DA961).
 De Groot and His Orchestra, "Louise" Selection (Charpentier).
 International Novelty Orchestra, "To Die Dreaming" (Zono. EE182).
 7.0 : News and reports.
 7.30 : Talk—Mr. D. E. Parton, "Pioneers of Radio."
 8.0 : Chimes. Recital of Negro Spirituals and Plantation Songs by Hubert Carter, assisted by Mrs. Esma Stevens, soprano; Miss Nancy Bowden, contralto; Mr. Finlay Robb, baritone; Miss Lilian Harper, pianiste.
 Selection—National Symphony Orchestra, "The Evolution of Dixie."
 8.6 : Quartet—Mrs. Stevens, Miss Bowden, Hubert Carter and Mr. Finlay Robb, "When You Hear De Banjo" (Scott Gatty).
 8.9 : 'Cello—Mr. Francis Bate, "Menuet" (Boellmann).
 8.14 : Tenor—Hubert Carter—Plantation Songs: (a) "Let Miss Lindy Pass" (Rogers); (b) "Ma Little Banjo" (Dichmont); (c) "Lie Still, Little Robin" (Noel Johnson).
 8.20 : Quartet—"Down By Dat Ribber" (Scott Gatty).
 8.23 : Instrumental trios—Gladys Vincent, Francis Bate and Merle Miller, "Romance in A" (Papini).
 8.28 : Tenor—Hubert Carter, Spirituals, (a) "Tis Me O Lord"; (b) "Steal Away"; (c) "Sometimes I Feel Like a Motherless Child."
 8.34 : The Quartet—"Far, Far Away" (Scott Gatty).
 8.37 : Violin—Miss Gladys Vincent, (a) "Viennese Melody"; (b) "Pachelbel" (Kreisler).
 8.43 : Tenor—Hubert Carter, Spirituals, (a) "Were You There?" (b) "Every Time I Feel the Spirit"; (c) "I Got a Robe" (Burleigh).
 8.49 : The Quartet—(a) "My Old Kentucky Home" (Foster); (b) "Good Night" (Scott Gatty).
 8.57 : Instrumental—Banglora Hawaiian Orchestra, (a) "When You Played the Organ" (Gilbert); (b) "Moonlight on the Colorado" (King).
 9.4 : Weather forecast and station notices.
 9.6 : Talk—Te Ari Pitama, "Maori Customs."
 9.21 : Minnet—Plaza Theatre Orchestra, "Lover's Lane" (Ketelbey).
 9.25 : Baritone—Mr. Clive Hindle, (a) "Sea Fever" (Ireland); (b) "Four Jolly Sailormen" (German).
 9.29 : Instrumental—Banglora Hawaiian Orchestra, (a) "Coral Sands of My Hawaii" (Heagney); (b) "Song of Hawaii" (Corbell).
 9.36 : Male quartet—The Big Four, "The King's Horses" (Graham).
 9.39 : Instrumental—Gladys Vincent, Francis Bate, Merle Miller, (a) "Les Bon Vieux" (Antoine Banas); (b) "L'Heure Bleue" (Spolianski).
 9.47 : Baritone—Mr. Clive Hindle, (a) "Still in Dreams" (Chuckerbutty); (b) "The Fortune Hunter" (Willeby).
 9.52 : Medley—Paul Godwin's Orchestra, "Shout But Delicious."
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, OCTOBER 30.

- 3.0 : Selected recordings.
 4.30 : Sports results.

- 5.0 : Children's hour, conducted by Aunt Shefla.
 6.0 : Dinner music session (Columbia)—
 Albert Sandler and His Orchestra, "For You Alone" (Geehl) (01912).
 J. H. Squire's Celeste Octet, "Hungarian Dance in A Minor" (Brahms).
 Milan Symphony Orchestra, "Semiramide" Overture (Rossini).
 Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures."
 Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
 Eddie Thomas' Collegians, "The Missouri Waltz" (Logan) (02553).
 Gil Dech Ensemble, "Valse Parisienne" (Roberts, arr. Barry) (01923).
 Debroy Somers Band, "Mister Cinders" Selection (Ellis and Myers).
 J. H. Squire's Celeste Octet, "Minuet In D" (Mozart, arr. Willoughby).
 Organ—Emil Velasco, "Estrellita" (Ponce) (01795).
 Albert Sandler and His Orchestra, "Salut D'Amour" (Elgar) (01912).
 J. H. Squire's Celeste Octet, "Hungarian Dance in D" (Brahms).
 Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey) (DOX21).
 Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
 Gil Dech's Ensemble, "Italian Nights" (Roberts) (01923).
 7.0 : News and reports.
 8.0 : Chimes.
 Medley—Paul Godwin's Orchestra, "Count of Luxembourg" (Lehar).
 8.9 : Quartets—The Happy Four, (a) "Broom, Green Groom" (Reay); (b) "Gossip Joan" (Shaw).
 8.16 : Popular hits—Arthur Gordon's Dance Band, (a) "Cinderella's Wedding Day" (Cobey), (b) "Hello Beautiful" (Donaldson).
 8.28 : Male Choir—The Parlophone Variety Company, "An Imaginary Broadcast" (Parlo. A3141).
 8.29 : Dances—Arthur Gordon's Dance Band, (a) "Running Between The Raindrops" (Gibbons), (b) "Try Dancing" (Revel).
 8.36 : Contralto—Miss Mary Somerville, (a) "Love in Spring" (Gounod); (b) "Maori Slumber Song" (Te Rangī Pahi).
 Quartet—The Happy Four, "Scots Wha Hae" (Patterson).
 8.46 : Piano—Mrs. C. Drake, (a) "Valse in A Major" (Levitzi); (b) "Gopak" (Moussorgsky).
 8.50 : Song, patter and dance—The Radiettes, (a) "Why Shouldn't I?" (Freed); (b) "I Wanna Sing About You" (Friend).
 8.59 : Waltz—Arthur Gordon's Dance Band, "When Your Hair Has Turned To Silver" (Tobias).
 9.2 : Weather report and station notices.
 9.4 : Selection—Paul Godwin's Orchestra, "The Merry Peasant."
 9.12 : Quartet—The Happy Four, "Come Back To Erin" (Claribel).
 Tenor—Mr. G. Crawford, "The Bluebells of Scotland" (Barker).
 9.19 : Popular hits—Arthur Gordon's Dance Band, (a) "Walking My Baby Back Home" (Ahlert); (b) "Here We Are" (Romberg).
 9.26 : Banjo—Harry Reser, (a) "Flapperette" (Greer); (b) "Cracker Jack."
 9.32 : Song, patter and dance—The Radiettes, "Let's Get Friendly" (Yellen).
 9.42 : Dance Novelty—Arthur Gordon's Dance Band, "Wanganui Moon."
 9.46 : Quartets—The Happy Four, (a) "John Peel" (arr. Reay); (b) "Cuddle Doon" (Robertson).
 9.53 : Popular hits—Arthur Gordon's Dance Band, (a) "I Miss a Little Miss" (Coop); (b) "There's a Good Time Coming" (Butler).
 10.0 : God save the King.

Saturday, October 31

1YA, AUCKLAND (875 KILOCYCLES)—SATURDAY, OCTOBER 31.

- 3.0 : Chimes. Selected recordings.
 3.15 : Literary selection.
 4.30 : Sports results.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner music session (Columbia)—
 Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen).
 Debroy Somers' Band, "The Desert Song" (Romberg) (02700).
 J. H. Squire's Celeste Octet, "Memories of Devon" (Evans) (DO254).
 New Queen's Hall Light Orchestra, "Summer Days Suite" (Coates):
 (a) In a Country Lane; (b) On the Edge of the Lake; (c) At the Dance (02590/1).
 H.M. Grenadiers Band, "New Sullivan" Selection (arr. Godfrey).
 Zurich Tonhalle Orchestra, "Andante" (Mozart) (02978).
 Johann Strauss and His Orchestra, "Voices of Spring" (Strauss).
 Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (02622).
 J. H. Squire's Celeste Octet, "Collette" (Fraser-Simson) (DO254).
 Zurich Tonhalle Orchestra, "Gavotte from Idomeneo" (Mozart).
 New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates).
 Johann Strauss and His Orchestra, "Radetzky March" (Strauss).
 7.0 : News and market reports.
 7.40 : Talk, under the auspices of the Auckland Horticultural Society and New Zealand Institute of Horticulture—Mr. H. Dale, "Chrysanthemums."
 8.0 : Chimes. Selection—Court Symphony Orchestra, "The Three Musketeers" (Friml) (Col. DOX197).
 8.9 : Bass—Mr. Thomas Cooper, with orchestral accompaniment, (a) "The Mighty Deep" (Jude); (b) "The Stormfiend" (Roedel).
 8.16 : Selection—Salon Orchestra, under the direction of Mr. Harold Baxter, "Serbian Dances" (Sistek); "Serenade" (Albenez).
 8.27 : Popular songs—Miss Eileen Smithson, (a) "One Heavenly Night" (Brown); (b) "I Feel You Near Me" (Hanley).
 8.33 : Selection—Salon Orchestra, "The Passing Show" (Finck).

- 8.43 : Bass—Mr. Thomas Cooper, "The Bells of St. Mary's" (Rodney).
 8.47 : Organ—Reginald Foort, "A Musical Trip Round the British Isles."
 8.55 : Idyll—Salon Orchestra, "Christmas Morn" (Amers); intermezzo, "La Presentation" (Marie).
 9.3 : Evening weather forecast and announcements.
 9.5 : A sea story—"Lee Fore Brace," "Superstitious Sailormen" (Eadie).
 9.25 : Selections—Salon Orchestra, (a) "Dance of the Sun Feast" (Waller); (b) "Divertissement Espagnole" (Desormes).
 9.34 : Popular songs—Miss Eileen Smithson, (a) "Wedding Bells are Ringing for Sally" (Sherman and Lewis); (b) "You're Always in My Arms" (Tierney).
 9.40 : Band—H.M. Coldstream Guards Band, "Belle of New York" (Kerker).
 9.44 : Male quartet—Gresham Singers, (a) "Wake, Miss Lindy" (Warner); (b) "Sweet Kitty Clover" (Hewitt) (H.M.V. B2410).
 9.50 : Suite—Salon Orchestra, "Ukrainische" (Rubenstein).
 10.0 : Programme of dance music (Panachord)—
 Foxtrots—Owen Fallon and His Californians, "If You Should Ever Need Me" (Dubin) (P12124); Benny Goodman and His Orchestra, "It Looks Like Love" (Freed) (P12149); All Star Californians, "Cheerful Little Barful" (Gershwin) (P12000); Milt Shaw and His Detroiters, "When You Were the Blossom of Buttercup Lane" (P12059); Tom Owen and His Orchestra, "Imagine" (Burtnett) (P12078); Mills Music Masters, "Little Spanish Dancer" (Seymour) (P12078); Mills Music Masters, "Please Don't Talk About Me When I'm Gone" (Clare) (P12091).
 10.39 : Waltz—Jack Richard and His Miami Orchestra, "The Kiss Waltz."
 10.42 : Vocal—Amy Ostinga, "If You Haven't Got Love" (De Sylva).
 Tangos—Jan and Patrick Hoffmann Band, "Yours is My Heart for Ever" (Lang) (Poly. 23982); Paul Godwin's Dance Orchestra, "A Spanish Tango and a Girl Like You" (Rotter) (23986).
 10.51 : Foxtrots—Milt Shaw and His Detroiters, "To Whom it May Concern" (Mitchell) (P12040), "They'll All Be There But Me" (Kahal) (P12088); "Happy" Dixon's Clod Hoppers, "When the Bloom is on the Sage" (Howard) (P12040).
 11.0 : Sporting summary.
 11.10 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, OCTOBER 31.

- 12.0 : Results of Wellington Trotting Club's Meeting, interspersed with selected gramophone recordings.
 5.0 : Children's session, conducted by Aunt Molly.
 6.0 : Dinner music session (Columbia)—
 London Theatre Orchestra, "Maid of the Mountains" Selection.
 J. H. Squire's Celeste Octet, "Second Movement from Symphony Pathétique" (Tchaikowsky, arr. Robertson) (02937).
 Symphony Orchestra, "When the Lemons Bloom" (Strauss) (02529).
 Plaza Theatre Orchestra, "A la Gavotte" (Finck) (01439).
 Musical Art Quartet, "To a Wild Rose" (McDowell) (01506).
 Organ—G. T. Pattman, "Alice, Where Art Thou?" (Trdtl.) (DO146).
 J. H. Squire's Celeste Octet, "Operatica" (arr. Squire) (DOX62).
 Symphony Orchestra, "Doctrinen" (Strauss) (02529).
 Plaza Theatre Orchestra, "Minuet" (Finck) (01439).
 Organ—G. T. Pattman, "Cinderella" Waltz (Pattman) (DO146).
 Musical Art Quartet, "Mighty Lak' a Rose" (Nevin) (01506).
 J. H. Squire's Celeste Octet, "Scene de Ballet" (De Beriot, arr. Sear).
 H.M. Grenadier Guards Band, "Hyde Park Suite" (Jalowicz): (a) Sunday Morning Church Parade; (b) "Rotten Row"; (c) On the Serpentine; (d) Around the Bandstand (DOX198).
 7.0 : News, market reports and sports results.
 7.40 : Lecture—Professor P. W. Robertson, a W.E.A. Lecture, "The Meaning of Beauty."
 8.0 : Chimes. Relay from the Town Hall of Community Singing in conjunction with the 2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), being a farewell to Mr. and Mrs. Albert Russell prior to their departure on a visit to America and England.
 10.0 : Dance programme (Panachord)—
 Foxtrots—Benny Goodman and His Orchestra, "What have We Got to do To-night but Dance?" (Kahn) (P12138); Ed Loyd and His Orchestra, "Mary Jane" (Robinson) (P12147); Benny Goodman and His Orchestra, "I Wanna be Around My Baby all the Time" (Tobias) (P12138); Mark Fisher's Orchestra, "You'll be Mine in Apple Blossom Time" (Tobias) (P12147).
 10.12 : Waltz—The Ambassadors, "One Love" (Koehler) (P12003).
 Foxtrots—Art Kahn's Orchestra, "It's a Lonesome Old Town" (Tobias) (P12081); Milt Shaw and His Detroiters, "The River and Me" (Dubin); (P12060); Art Kahn's Orchestra, "Truly" (Hirsch).
 10.24 : Vocal—Hal Stead, "Running Between the Raindrops" (Dyrenforth).
 10.27 : Tango—Juan Llossas and His Orchestra, "My Beautiful Vis-a-vis."
 Foxtrots—Milt Shaw and His Detroiters, "The Sleepytown Express" (Gillespie) (P12061); Ralph Bennett and His Seven Aces, "Yours and Mine" (Nelson) (P12062); Milt Shaw and His Detroiters, "The King's Horses" (Graham) (P12061).
 10.39 : Waltzes—Jack Richard and His Miami Orchestra, "Two Hearts in Waltz Time" (Robinson) (P12003); Jan and Patrick Hoffman Band, "Until We Meet Again, Sweetheart" (Lombardo) (Poly.).

- 10.45: Vocal—Hal Stead, "I Found a Million-Dollar Baby" (Rose) (Parlo.).
 10.48: Tango—Juan Llossas and His Orchestra, "For the Last Time Let Me Dance With You" (Thommsen) (Poly. 23951).
 Foxtrots—Art Kahn's Orchestra, "You Didn't Have to Tell Me" (Donaldson) (Pana. P12090); Ralph Bennett and His Seven Aces, "Fall in Love with Me" (Tobias) (P12062); Milt Shaw and His Detroiters, "Blue Again" (Fields) (P12090).
 11.0: Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, OCTOBER 31.

- 3.0: Gramophone recital.
 4.30: Sports results.
 5.0: Children's hour.
 6.0: Dinner music session (Parlophone)—
 Frank Westfield's Orchestra, "The Belle of New York" Selection.
 Dajos Bela Orchestra, "Strauss, the Waltz King at Home" (Weber) (A4200); "Ideale" (Tosti) (A4015); "Viennese Life" Waltz.
 Victor Olof Salon Orchestra, "Grieg" Selection (arr. Urbach).
 Dajos Bela Orchestra, "Serenade" (Moszkowski) (A4015).
 Berlin State Opera Orchestra, "Wine, Women and Song" Waltz.
 Dajos Bela Orchestra, "Traumideale" (Fucik) (A4250).
 Frank Westfield's Orchestra, "Our Miss Gibbs" Selection (Monckton).
 Barnabas Von Geczy and His Orchestra, "Strauss Waltz Medley."
 7.0: News and reports.
 7.30: Sports results.
 8.0: Chimes. Medley—Debroy Somers Band, "Stealing Thro' the Classics."
 8.8: Tenor—Mr. L. C. Quane, with orchestral accompaniment, (a) "I Heard You Go By" (Wood); (b) "Duna" (McGill).
 8.14: Cornet—Mr. Herbert F. Vincent, with orchestra—(a) "Arbucklenian Polka" (Harimann); (b) "I Hear You Calling Me" (Marshall).
 8.21: Burlesque—The Chatterboxes, "Thought Reading."
 8.29: Selection—Salon Orchestra (Conductor, Mr. Francis Bate), "Lilac Time" (Schubert, arr. Clutsam).
 8.39: Contralto—Mrs. D. W. Stallard, with orchestral accompaniment, (a) "Sympathy" (Marshall); (b) "Husheen" (Needham).
 8.45: Male quintet—The Maestros, "Songs of Old Erin" (arr. J. Francis).
 8.53: Piano—Miss Edna Jarden, "Maurice Chevalier's Souvenir Song Collection" (arr. Frisk).
 8.58: Flute duets with orchestra—Jean and Pierre Gennin, (a) "Pizzicat Pierrette"; (b) "Valse Des Mascottes" (Gennin) (Col. DO203).
 9.4: Weather forecast and station notices.
 9.6: Orchestral—Salon Orchestra, (a) "Then You'll Remember Vienna"; (b) "I Bring a Love Song" (Romberg).
 9.15: Tenor—Mr. L. C. Quane, (a) "Sally in Our Alley" (Carey); (b) "The Sea Gipsy" (Willeby).
 9.21: Selection—Albert W. Ketelbey's Orchestra, "Jungle Drums."
 9.25: Humour in song and story—The Chatterboxes, "Derry Down Dey."
 9.37: Cornet—Mr. Herbert F. Vincent, "Valse Brilliant" (Clarke).
 9.41: Contralto—Mrs. D. W. Stallard, (a) "The Sweetest Story Ever Told" (Stultz); (b) "Happy Be Thy Dreams" (Thomas).
 9.47: Piano—Miss Edna Jarden, (a) "Peter Pan" (King); (b) "Around the Corner" (Kassel).
 9.52: Orchestral—Salon Orchestra, "Virginia" (A Southern Rhapsody).
 10.0: Dance music (Columbia)—
 Foxtrots—Jack Payne and His B.B.C. Dance Orchestra, "Beware of Love" (Kernell) (DO223); Van Phillips and His Band, "Always in All Ways" (Robin) (DO259); "Why Am I So Romantic?" (Kalmar) (DO271); "Beyond The Blue Horizon" (Robin) (DO259).
 10.12: Waltz—Will Osborne and His Orchestra, "Down the River Of Golden Dreams" (Klenner) (DO158).
 Foxtrots—Jan Garber and His Orchestra, "When a Woman Loves a Man" (Ranger) (DO88); Denza Dance Band, "Loving You" (Yellen) (Reg. G20918); Fred Rich and His Orchestra, "If I'd Only Listened To You" (Wendling) (DO272).
 10.24: Vocal duet—Layton and Johnstone, "Dancing With Tears in My Eyes."
 10.27: Foxtrots—Rhythmic Troubadours, "You're The Sweetest Girl" (Lombardo) (Reg. G20757); Guy Lombardo and His Royal Canadians, "Where the Golden Daffodils Grow" (Archer) (DO128).
 Waltz—The Cavaliers, "The Kiss Waltz" (Burke) (DO272).
 10.36: Foxtrot—Johnny Walker and His Rollickers, "Betsy Co-Ed."
 10.39: Vocal duet—Layton and Johnstone, "Watching My Dreams Go By."
 10.42: Foxtrots—Will Osborne and His Orchestra, "The Song Without a Name" (Russell) (DO158); Guy Lombardo and His Royal Canadians, "Under a Texas Moon" (Perkins) (DO88); "Good Evening."
 10.51: Waltz—The Cavaliers, "All Through the Night" (Yorke) (DO271).
 Foxtrots—Guy Lombardo and His Royal Canadians, "Be Careful With Those Eyes" (Woods) (DO223); Chester Leighton and His Sophomores, "Sweetheart of My Student Days" (Kahn) (G20918).
 11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, OCTOBER 31.

- 3.0: Selected recordings.
 4.30: Sports results.
 5.0: Children's Hour, conducted by Aunt Anita.
 6.0: Dinner music session (H.M.V.)—
 National Symphony Orchestra, "Stradella" Overture (Flotow).

- Royal Opera Orchestra, "Faust" Ballet Music 1st to 4th Movements (Gounod) (CI462); "The Sleeping Beauty" (Tschalkowsky).
 National Symphony Orchestra, "Caucasian Sketches," No. 1, In the Mountain Pass (Ippolitoff-Iwanoff) (Zono. EF36).
 Organ duet—Mr. and Mrs. Jesse Crawford, "The Moonlight Reminds Me of You" (Kahn) (EA763).
 Victor Oloff Sextet, "Cherry Ripe" (Scott) (B2697).
 San Francisco Symphony Orchestra, "Rosamunde Entr-Acte."
 Royal Opera Orchestra, "Prelude The Huntress" (from "Sylvia Ballet") (Delibes) (CI417).
 Reginald King and His Orchestra, "Song O' My Heart" Selection.
 Royal Opera Orchestra, "Faust" Ballet Music 5th to 7th Movements (Gounod) (CI463); "Shepherd Fennel's Dance."

- 7.0: News and reports.
 8.0: Chimes. Relay from His Majesty's Theatre, Dunedin, of Hallowe'en Concert by the Dunedin Burns Club.
 10.0: Dance session (Brunswick)—
 Foxtrots—Jacques Renard and His Orchestra, "Tie a Little String Around Your Finger" (Simons) (6032); Nick Lucas and His Crooning Troubadours, "Say Hello To The Folks Back Home" (Lombardo) (6013); Jacques Renard and His Orchestra, "I Hate Myself" (Silver) (6032).
 10.9: Waltz—Jacques Renard and His Orchestra, "Reaching For The Moon."
 10.12: Foxtrots—Hal Kemp and His Orchestra, "Think a Little Kindly Of Me" (Johnson) (6056); Isham Jones' Orchestra, "I'm So Afraid Of You" (Kalmar) (6041).
 10.18: Vocal—Harry Richman "When Your Lover Has Gone" (Swan) (6052).
 10.21: Foxtrots—Isham Jones' Orchestra, "My Ideal" (Robin) (6041); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "I Surrender, Dear" (Clifford) (6034); Ben Bernie and His Orchestra, "Tomorrow Is Another Day" (Green) (4899).
 10.30: Foxtrots—Nick Lucas and His Crooning Troubadours, "Falling in Love Again."
 Carter's Orchestra, "The Waltz of the Hills" (Fields) (6042).
 10.36: Foxtrots—Nick Lucas and His Crooning Troubadours, "Lady Play Your Mandolin" (Levant) (6013); "Walkin' My Baby Back Home" (Turk); Carter's Orchestra, "When The Blossom Is On The Sage."
 10.45: Vocal—Harry Richman, "Just a Gigolo" (Caesar) (6052).
 10.48: Foxtrots—Hal Kemp and His Orchestra, "I Want You For Myself" (Berlin) (6056); Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "To Make a Long Story Short" (Gay) (6034); Ben Bernie and His Orchestra, "Liza Lee" (Green) (4899); Jacques Renard and His Orchestra, "Heartaches" (Klenner).
 11.0: God save the King.

2YE, NEW PLYMOUTH (1230 KILOCYCLES)—SATURDAY, OCT. 31.

- 2.50 to 4.30 p.m. (approx.): Sports relay.
 6.30 to 7.30 p.m.: Children's session
 7.30 to 8.0 p.m.: Sports results and talks.
 8 to 10 p.m.: Concert and dance programme, with sports results.

Sunday, November 1

1YA, AUCKLAND (875 KILOCYCLES)—SUNDAY, NOVEMBER 1.

- 3.0: Chimes. Selected recordings and relay of portion of organ recital from the Auckland Town Hall. Organist, Mr. Maughan Barnett.
 6.0: Children's song service, conducted by Uncle Leo.
 7.0: Relay of evensong from St. Matthew's Church. Preacher, The Rev. C. H. Grant Cowen. Organist and Choirmaster, Mr. J. H. Philpott.
 8.30: Chimes. Relay of Municipal Band Concert from the Auckland Town Hall. Conductor, Mr. George Buckley.
 March—The Band, "Victoria" (Von Blon); overture, "Tancrède."
 Cornet—Mr. Fred Bowes, "De Bleriot's 6th Air Varié" (Hart).
 Selection—The Band, "Songs Without Words" (Mendelssohn).
 Suite—The Band, "Ballet Egyptian" (Luigini); serenade, "De Amour."
 Flute solo—Mr. Hal C. McLennan, "Sparkling Dew Drops."
 Selection—The Band, "Faust" (Berlioz); patrol, "The Wee McGregor" (Amers); selection, "Classical Memories" (Ewing); hymn, "O God, Our Help in Ages Past" (Croft); march, "St. Julien" (Graham).
 10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, NOVEMBER 1.

- 3.0: Selected gramophone recordings.
 6.0: Children's song service, conducted by Uncle George, assisted by the children's choir from St. Jude's Anglican Church.
 7.0: Relay of evening service from the Vivian Street Church of Christ. Preacher, Pastor W. G. Carpenter. Organist, Miss Hazel Hunter.
 8.20 (approx.): Concert by Port Nicholson Silver Band and 2YA Artists.
 Hymn—The Band, "Newchester" (Scotney); meditation, "On a Sunday Morn" (Horne).
 Soprano—Miss Christina Ormiston, Song Cycle "Bird Songs" (Lehmann); (a) "The Wood-Pigeon"; (b) "The Yellow-Hammer"; (c) "The Owl"; (d) "The Starling."
 Trio—Symons-Ellwood-Short Trio, (a) "Andante"; (b) "Presto."
 Mixed choir—Berlin Union of Teachers, (a) "The Heavens are Telling" (Beethoven); (b) "The Loreley" (Silcher) (Parlo. A5009).

Weather report and station notices.

Selection—The Band, "Lucia di Lammermoor" (Donizetti).
 Tenor—Mr. D. L. Irwin, (a) "The Fairy Tree" (O'Brien); (b) "Song of the Palatium Bearers" (Shaw); (c) "Isle of My Heart."
 March—The Band, "The Vanished Army" (Alford).
 Horn solo—Bandsman H. Parsonage, "My Love's Grey Eyes" (McGeogh).
 Cornet solo—Bandsman T. Goodall, "Two Eyes of Grey" (McGeogh).
 Mixed chorus—Glasgow Orpheus Choir, (a) "Cradle Song" (Gibbs); (b) "The Campbells are Coming" (arr. Mansfield) (H.M.V. B3109).
 Overture—The Band, "Le Diademe" (Hermes).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, NOVEMBER 1.

- 3.0 : Relay of Christchurch Cathedral Jubilee Celebration—Young People's Service. Preacher, His Grace Archbishop Julius. Organist and Musical Director, Dr. J. C. Bradshaw.
 5.30: Children's song service by children of Anglican Sunday schools.
 6.15: Chimes.
 6.30: Selected recordings.
 7.0 : Relay of Jubilee Celebration Evensong from Christchurch Cathedral. Preacher, His Grace Archbishop Averill. Organist and Musical Director, Dr. J. C. Bradshaw.
 8.15 (approx.): Relay from Oamaru of Programme by Oamaru Municipal Band.
 10.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, NOVEMBER 1.

- 3.0 : Selected recordings.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.15: Instrumental recordings.
 6.30: Relay of evening service from Church of Christ, St. Andrew Street. Preacher: Pastor W. D. More. Choirmaster: Mr. W. H. Mackenzie.
 7.45: Selected recordings.
 8.15: Relay from Oamaru of Concert by Oamaru Municipal Band and assisting artists. Conductor: Mr. Pheloung. Accompanist: Miss Vera Slater, A.T.C.L.
 Hymn—"Fierce Raged The Tempest" (Dykes).
 Descriptive item—Band, "Sunday Parade" (Hawkins).
 Musical Monologue—Mr. J. McLean, "Troubles."
 Violin solo—Mr. W. J. Hill, "Valse Triste" (Sibelius).
 Vocal—Miss Mary Pratt, "Sun Above Me" (Pergolesi).
 Selection—Savage Club Orchestra.
 Vocal—Mr. A. Shrimpton, "Invictus" (Bruno Huhn).
 Piano solo—Miss Vera Slater, (a) "In a Woodland Glen" (Barratt); (b) "Hungarian Dance" (Brahms).
 Vocal—Miss Mary Pratt, "Ring, Bells, Ring" (Maud Craske Day).
 Selection—The Band, "Nabucco" (Verdi).
 Vocal—Mr. A. Shrimpton, with violin obligato by Mr. W. J. Hill, "Fiddle and I."
 March—The Band, "Gladiator's Farewell."
 10.0 : God save the King.

2XB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, NOVEMBER 1.

- 6.0 to 6.45: Children's Sunday Service.
 8.15 to 10.0 p.m.: Concert programme.

Questions and Answers

(Continued from page 15.)

A low impedance low-mu valve can be expected to have high plate current and accommodate a large grid swing. Under these circumstances the variations in a plate current will be considerably greater than with a corresponding valve of high impedance (excepting, of course, the pentode).

2. Can the extent to which a valve can be safely overloaded under constant working conditions be determined by its maximum anode dissipation, and can a valve be overloaded to a greater extent in a transmitter than in a receiver?

A.: A valve should in no case be seriously overloaded, in whatever circumstances it is used. The conditions ruling in a transmitter are, however, entirely different from the case of a receiver. In the receiver practically the whole of the power supplied is dissipated at the plate, so that the input is determined by the permissible plate dissipation. With a properly adjusted transmitter, however, a substantial percentage of the input is dissipated in the aerial as radiation or in a succeeding grid circuit as excitation for an amplifier. Thus, roughly speaking,

the dissipation is limited to the difference between input and output. It is entirely possible to run the input on a valve rated, say, 20 watts anode dissipation as high as 50 watts without the slightest danger of overloading.

3. How is anode dissipation and percentage of modulation calculated (at the transmitting end)?

A.: Anode dissipation can be approximately measured by feeding the output of the oscillator into a dummy aerial, the losses in which can be measured. The difference between such losses and the input will then be an approximate guide to the dissipation. Percentage of modulation is not readily measured with the equipment available to the average amateur. The most practical instrument for this purpose is an adapted vacuum tube peak voltmeter, but a description of the construction and operation of such an instrument is beyond the scope of these pages. A study of Q.S.T. files for 1929 will provide all necessary information on the point. The purpose of a Heising modulator is simply, by drawing more or less current corresponding to audio variations, to decrease or increase the voltage applied to the plate of the oscillator, and consequently its output. Hence the possibility of over-

loading the oscillator does not enter into the question.

4. In a Hartley circuit with Heising modulation would it be any advantage to have a higher voltage on one valve than on the other?

A.: To secure a high percentage of modulation (higher than 60 per cent.), it is necessary to apply a higher voltage to the modulator than the oscillator, this being usually accomplished by a resistance inserted in series with the oscillator. There is no novelty in this idea.

5. What is the principle of the Telefunken modulation?

A.: Telefunken modulation, by operating on the input to the oscillator has the advantage of requiring a less ambitious modulating system. This type of modulation appears to be rather hard on the valves employed, and is considered less satisfactory than the Heising or constant current system.

6. How is double tuning of the i.f. stages of a super-heterodyne carried out, and does it cut out getting one station in two places (not necessarily on the same set of coils), i.e., at (1) the sum and (2) the difference of the frequency of the station and that of the local oscillator?

A.: Simply by turning both primary and secondary of the intermediate transformers, coupling being by mutual induction. The "double tuning" effect of a superhet, employing a low frequency is not affected. Both primary and secondary are tuned to the same frequency.

7. What does the load impedance of (a) the oscillator, (b) the modulator depend on in a Hartley with Heising modulation, and about what do these figures generally amount to?

A.: The load impedance of the oscillator is determined by the tuned circuit and either (a) the aerial radiation resistance or (b) the input impedance of a succeeding amplifier—in parallel; the latter factors being also affected by the degree of coupling to the plate coil of the oscillator. Owing to the wide variations in the conditions likely to be encountered, it is not possible to estimate the probable load impedance. The load impedance of the modulator comprises the feed choke and the plate resistance of the oscillator in parallel. Generally speaking, it will be fairly low, a few hundred ohms, being a probable quantity.

8. How would (a) a pentode, (b) a screen grid valve go as (1) oscillator, (2) modulator?

A.: There is no particular advantage in using either pentode or a screen-grid valve as an oscillator; either makes a good amplifier in a master-oscillator outfit, and the pentode makes quite a satisfactory modulator for a low power outfit.

9. There are several instruments for measuring r.f. current. Are there any to measure r.f. voltage?

A.: A vacuum tube voltmeter is the instrument you require. This is simply a plate-bend detector (or, for less accuracy, but greater sensitivity, a grid detector), the input being between grid and filament; measurements are taken with a low reading milliammeter in the plate circuit. The instrument requires to be calibrated from a source of known a.c. voltage.

[These questions, although interesting, are quite beyond the scope of "Questions and Answers." To make matters worse, "Third Grid" sends down nine questions, and asks us to spread them over three weeks. He certainly interprets the words "free service" in a very liberal manner. We are not particularly anxious that other radio enthusiasts should interpret the terms in the same meaning. We wish to help the average chap to get a little better reception, not to delve into the intricacies of radio for the benefit of those who have a sufficient knowledge to hunt these things up for themselves, and certainly we cannot entertain splitting queries up into several weeks. If you have more than three questions to ask, don't seek to dodge the issue, pay your shilling—but these are "Specialist" questions.—Tech. Ed.]

KEEM (Wanganui): My aerial consists of two poles about 40 feet high with 90 feet between, including the lead-in. Would I obtain greater signal strength if I erected one pole 80 feet high?

A.: While it is impossible to give any definite ruling on the matter, we are inclined to believe that you would. Theoretically the best aerial you can have is a vertical one.

SMITHY (Wellington): Look for the description of the super six next week. It is an adaptation of the circuit to which you refer.

W.B. (Pio Pio): Could you suggest an improvement in my valves? I use an American set with 615 as detector, A609 in all the other stages, except the last, where I use B805. The set has not the punch that it had formerly, though all the batteries are A1, and I find I get much better reception with a B605 in the first r.f. stage.

A.: Providing your valves are not too old, they should work in your circuit quite well. For most circuits of your type the American class 221 valve is best, at least in the two radio stages. The use of other valves generally means that the set has to be re-neutralised.

ODSOX (Pio Pio): Your circuit is quite orthodox, and should be satisfactory. Seeing that it employs a pre-selector circuit, you should, to a large extent, overcome the selectivity trouble, but of course this will mean a certain loss in volume. Is it worth it? Why not build a three-valve set of the "Kestrel Three" type, which would give you better selectivity than the two-valve type, and certainly a greater pick-up. It would not be necessary, with the circuit you contemplate making, to use a midget condenser in the aerial.

ALL-WAVE (Shannon): I intend building the Electric Radiogram Five. Will the 100-watt power pack described in the "Radio Guide" be suitable?—Quite.

2. Will the r.f. choke described in the "Radio Record," January 30, be suitable?—Yes.

3. What should be the d.c. resistance for the r.f.c. in the electric Radiogram? A.: Not in excess of 300 ohms.

V.R.H. (Auckland): I am building the "Kestrel Three." Is a screen-grid valve advisable?

A.: We can thoroughly recommend a screen-grid valve. If you want to use a screen-grid valve of the same make as you are now using, use a 642, but you must use a 50 ohms resistance in the filament circuit, for it is a four-volts valve.

2. I have only 110 volts "B." Will this be sufficient?

A.: It will be quite satisfactory. You should get good results from the "Kestrel Three" with this voltage.

R.D. (Banks Peninsula): Is a four-valve Browning Drake superior to the Hammard and Roberts of the same number of valves?—No.

2. Would it be possible to add a second stage of radio frequency to either of these sets, and how would this be accomplished?

A.: The five-valve Browning Drake was fully described in the "Radio Record" and 1930 "Guide." In last week's issue we explained how to add an s.g. valve to the H.R. Four.

SHORT SUP. (Baklutha): I am constructing the battery version of a super het. shortwave adapter. In my set "A+" and "B—" are joined together, and for volume control a potentiometer is used across the "A" battery, the sliding arm being earthed. Could you give me the number of turns for valve base coils using 201A valve and .00015 condensers?

A.: A diagram which should prove successful as a battery s.w. adapter is given herewith. The potentiometer used in your broadcast set as a volume control should be set to the position of maximum sensitivity, but just short of the oscillation point if the receiver is capable of being

thrown into oscillation. Suitable coils for winding on to valve bases are as follows:—

Band metres	Aerial coil		Oscillator coil		
	L1	L2	L3	L4	L5
80	8	24	6	20	12
40	4	12	3	10	8
20	2	6	2	5	5

R.A.H. (Auckland): I recently completed, according to the specifications, the shortwave a.c. super het converter, and have been unable to get the set to function. Could you give me:—1. The approximate range in metres of each pair of coils?

A.: The commonest difficulties with super het. shortwave adapters are the failure of the oscillator to function and mistuning of the preselector provided by the broadcast set. Failure to oscillate may result from too low a plate voltage, insufficient reaction turns on reaction winding connected in a reverse manner. The remedies are obvious. Tuning of the pre-selector is fairly broad, and it is usually possible to hear something, even when mistuned, making it possible to adjust it for better results. In case of difficulty the aerial can be hooked on just ahead of the pre-selector and the weak broadcast stations tuned in, the pre-selector being adjusted on this. The ranges of the coils are as follows:—The 80 metre band from 65 to 100 metres; the 40 metre coils from 30 to 65 metres; the 20 metre coil from 15 to 30 meters.

2. What indication is given when the set is oscillating?

A.: Little indication is given when the oscillator is functioning except increased background noise. The milliammeter in the plate lead will, however, dip downwards when the valves commence to oscillate.

ZLICE (Auckland): How many turns and what gauge of wire should be put on a 2in. former to use with a midget condenser of 5 plates spaced a 1-16in., as used for an 80-metre wavemeter?

A.: 35 turns of 24 D.S.C. wire.

2. Can you give me the circuit of a monitor for the 80-metre band using a crystal detector?

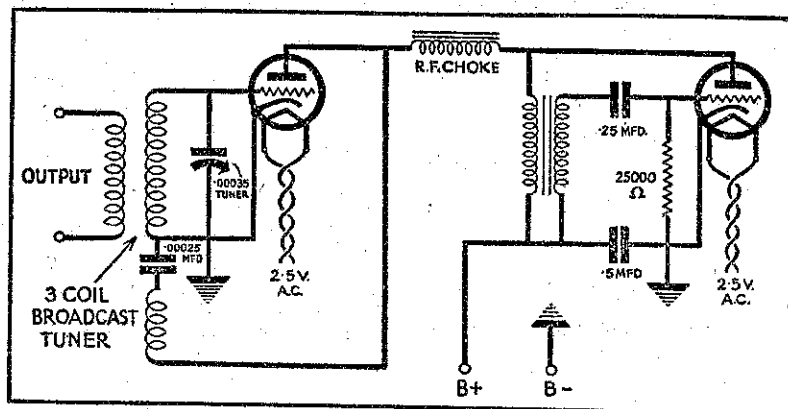
A.: A satisfactory monitor for code work cannot be built to employ a crystal detector. The crystal will respond only to whatever modulation happens to be present in the transmission. If the monitor is required merely to keep a check on phone transmitter, a shielded crystal set (with a smaller coil, of course) with a small pick-up coil in series with the tuning coil, and outside, the can, may be used.

U.K. (Te Kuiti): What inductance will furnish optimum load value for a 224 valve used as:—

1. A space charge a.f. amplifier, or following a screen grid detector?

2. Used in the ordinary way?

A.: While the a.c. resistance of a screen grid valve may vary considerably according to the use to which it is put, it is, in any case, extremely high. It is therefore not so much a matter of obtaining optimum load value as of maintaining a sufficiently high inductance with the a.f. choke in the plate circuit in carrying direct circuit to give satisfactory frequency response. It is doubtful whether there is any commercial choke which, when carrying the plate current of an a.g. valve will maintain an inductance higher than 200 henries. In any



A modulated oscillator suitable for aligning ganged condensers.

case a choke of higher inductance would be likely to have a self-capacity so high as to by-pass audio frequencies.

2. It is difficult to understand what is meant by "the ordinary way." The ordinary way to use a 224 is as an r.f. amplifier, in which case it is usually followed by a tuned circuit, the inductance of which is determined by the capacity of the tuning condenser employed and the waveband to be covered by the combination.

R.G.R. (Frankton Junction): Could you forward me a diagram of a modulated oscillator for aligning ganged condensers? Would my circuit be satisfactory?

A.: The circuit submitted would be satisfactory if a constant source of a.f. current—e.g., a frequency test gramophone record and a pickup—were available. A pentode might be found desirable in a modulator seeing that there is no prior amplification from pickup or microphones. It is possible that if only one receiver is to be ganged equally satisfactory results could be obtained at less cost by temporarily wiring midget condensers in parallel with the tuning condensers and tuning them until the system is in resonance. Which ever of the midget condensers appears to require least capacity to bring the circuit into resonance, is an indicator as to which coil should have its turns reduced. The process must be continued until all the midget condensers are in line when the set is in resonance. For precision work a modulated oscillator in which the modulation is constant in frequency and extent is necessary. A suitable circuit is shown above and if further particulars of this are required, they can be furnished. Not every audio transformer suits this use, and two or three should be tried.

SNOW (Timaru): I am desirous of constructing a four-valve portable radio set. Could you supply me with a suitable circuit?

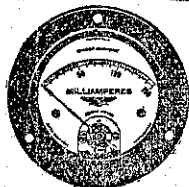
A.: Circuits were described about 12 months ago in the "R.R." Our new model will be described in the course of a couple of months or so. What appears to us to be a fairly good four-valve set was described in

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Power Line Troubles

Valuable Service by 4YA

ON Tuesday evening 4YA, Dunedin, rendered conspicuous service to the community. The city was experiencing trouble with its power supply owing to a very heavy wind storm which raged in the vicinity of the hydro-electric works. One transmitting line and all the telephone lines were carried away between Dunedin and the power station. At the conclusion of the children's session the power supply failed, and 4YA was off the air for three minutes.

During the dinner music session the power fluctuated badly, but no further distinct break occurred. As the telephone lines were down it was not possible for the city electrical engineer to get in touch with his officers in the

Australian Programmes

Times Corrected for N.Z.

Wednesday, October 21.

STATION 2FC, 10 p.m.: A special concert has been arranged.

2BL, 10 p.m., 10.17 p.m., 11 p.m., and 11.30 p.m.: Harrison White's Banjo Band. **10.10 p.m., 11.25 p.m.:** Will Clark and Norman Mann, vocal duet. **10.22 p.m. and 11.40 p.m.:** Pat Crosby, contralto. **10.30 p.m.:** "Banjo" Paterson will speak on "Word Pictures of Men and Manners Outback." **11.10 p.m. and 11.54 p.m.:** John Stuart, comedian. **11.18 p.m. and 11.47 p.m.:** Hilda Grace, novelty pianiste.

3LO—10 p.m.: Thirty minutes with Goumod. **11 p.m.:** A series of sea sketches.

3AR—10 p.m.: Transmission from the Melbourne Town Hall of a concert by the Royal Victorian Liedertafel.

Thursday, October 22.

STATION 2FC—10 p.m.: The A.B.C. Players present Oscar Wilde's "The Importance of Being Earnest." **11.10 p.m. and 11.39 p.m.:** The Ramon Duo, vocalists. **11.18 p.m.:** Alard Maling, bell solo. **11.21 p.m. and 11.56 p.m.:** Cash and Carrie, entertainers.

2BL—10.10 p.m., 11.4 p.m., and 12.12 p.m.: Franco Izal, baritone. **10.13 p.m. and 11.11 p.m.:** Harry Klass, violinist. **10.42 p.m. and 12 p.m.:** Iris de Cairos Rego, pianiste. **10.35 and 11.45 p.m.:** Muriel O'Malley, contralto.

3LO—10 p.m.: Dance items, interspersed with vaudeville numbers.

Friday, October 23.

STATION 2FC—10.10 p.m. and 10.38 p.m.: Jack Lumsdaine, the "Radio Rascal." **10.28 p.m. and 11.1 p.m.:** Dan Agar, comedian. **10.31 p.m.:** Cornet solo. **11.15 p.m.:** Relay from 3LO, Melbourne.

2BL—10 p.m.: Concert programme arranged by the Musical Association of N.S.W.

3LO—10 p.m.: Programme arranged by Miss Mary Campbell, of the Albert Street Conservatorium. **11.15 p.m.:** Brass band and variety.

Saturday, October 24.

STATION 2FC—10.12 p.m. and 11.37 p.m.: Bessie Blake, soprano. **10.19 p.m. and 11.44 p.m.:** Lawrence Godfrey Smith, violinist. **10.47 p.m. and 12.8 p.m.:** Clement Q. Williams, baritone. **10.54 p.m.:** Gerald Walenn, pianist, in

DX Programme

IN connection with the programme broadcast from 2YA on Saturday evening last for the benefit of the members of the Round the World DX Club and other DX listeners in America, Mr. Spence R. Ellis, of Okato, Taranaki, the New Zealand Secretary of the Club, was listening to America on October 7 when he heard an interesting announcement broadcast by the N.B.C. chain of stations.

American listeners were advised to remember the date and the time of the special broadcast by 2YA. New Zealand was referred to as "the Paradise of the Pacific."

It is evident that 2YA's DX programme resulted in a good advertisement for this Dominion.

country. At his request, therefore, as the whole of the district was in the danger of being deprived of power, a message to the engineers at Waipori was broadcast by 4YA, advising them of the location of the fault. This message was picked up and the damaged lines were repaired within half an hour.

association with the National Broadcasting Orchestra.

2BL—10 p.m., 10.20 p.m., 11.45 p.m., and 12.8 p.m. The Sevilla Gypsies. **10.7 p.m., 11.38 p.m., and 12.13 p.m.:** J. Jones, baritone. **10.30 p.m.:** Description of boxing contest from Sydney Stadium. **11.30 p.m. and 12 p.m.:** Frank Ryan, entertainer.

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Short-wave News

Portugal Begins Broadcasting.

THE first attempt in Portugal to provide a regular broadcasting service is now being made by Abilio Nunes dos Santos, Lisbon. The station, which is private, with the call sign CTIAA, is operating on 291 metres and 42.9 metres. Programmes on the longwave are broadcast at present, on Tuesday, Thursday, and Sunday from 9.20 a.m. to 11.20 a.m. New Zealand summer time, while the shortwave transmitter is on the air the same hours on Friday. Announcements are made in Portuguese, French, English, German, and Italian.

FYA, Paris.

THE French colonial station at Pontoise is already "hard up." M. Julien Maigrêt, director of the station, reports that colonial listeners are rather exacting. Their requirements are: Less music, absolutely no gramophone records, and more live news. Unlike the controllers of 5SW, the director of this station must find his own programme material, and is under an obligation to provide eight hours' original entertainment a day with a monthly expenditure of £160.

New Stations in Java.

SEVERAL listeners have reported a station heard at a late hour at good volume, but from which no call sign has been given. The following announcement was heard and reported by an Australian: "The station is for experimental broadcasting on shortwaves, and is situated in the East Indies. The power in the antenna is 1 kilowatt, and the wavelengths used are: Mondays, 49.30 metres; Tuesdays, 31.3 metres; Thursdays, 19.55 metres. The present schedule is from 10 to 11 p.m., and from 11.30 p.m. to 12.30 a.m. on all wavelengths (New Zealand summer time, two hours later). Transmissions on the lower wavelength are only just audible in Melbourne, but on the higher waves reception is excellent."

Stranger on 50 Metres.

A SHORTWAVE friend reports hearing a foreigner from 11.15 p.m. on Tuesday on about 50 metres. Volume was R8. Announcements were made in English, and a foreign language, but no call was heard or any indication of the locality of the station.

Midnight DX-ing.

THE writer does not listen, as a rule, after about 11 p.m., but some of the night owls tell me that after midnight shortwave reception is worth while just now. In fact, one listener often goes to bed soon after tea and sets his alarm for midnight, starting his day's listening from this time. He certainly deserves to bag a few stations.

Log for Week Ending October 17

RV15, Siberia, 70.1 metres: Good volume every evening from about 8 p.m. Musical programmes good.

HVJ, Vatican City, 50.26 metres: From 7 a.m. now each morning for 15 minutes. Good volume.

Moscow, 50 metres: Best reception till about 6.30 to 7 a.m., after which volume decreases.



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

W9XF, Chicago, 49.86 metres: Reaches good volume by 5 p.m., but often marred by static.

ZL2ZX, Wellington, 49.5 metres: This station is being well received in Australia. Excellent in Wellington.

7LO, Nairobi, 49.5 metres: Still only just audible after 6 a.m. Have not tried them earlier recently.

W8XAL, Cincinnati, 49.5 metres: Good volume at 11.30 p.m., better than late afternoon.

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3XAL, Boundbrook, 49.18 metres: Sunday, up to R6 at 4.30 p.m., with rapid fade. R9 on Saturday, with severe static.

F31GD, Saigon, 49 metres: A good station now from about 11.30 p.m.

VE9CL, Winnipeg, 48.7 metres: October 15 (Thursday) was one of the late programme days; they were just audible at 7.30 p.m. On Saturday I tuned them in just as they were signing off at 5.10 p.m., "till 4.10 p.m. to-morrow." Volume was about R6, but readability only about 75 per cent.

REN, Moscow, 45.33 metres: Good reception from this station is not quite as regular now each morning, but is often R8 at 6 a.m.

VK3ME, Melbourne, 31.55 metres: Wednesday, 10 p.m., records at R9, with one stage audio.

OXY, Denmark, 31.51 metres: R3 at best about 6.30 a.m. Seldom clear enough to be readable.

W2XAF, Schenectady, 31.48 metres: Sunday, 9.30 a.m., a ball game was being described. The talk was about 50 per cent. readable at R4, which was subject to fading. The same game was being broadcast by W8XX on 25.25 metres also, W2XAD on 19.56 metres. The latter station was not audible, but heard the announcement made by W2XAF. Sunday afternoon they were very gushy at 3.45 p.m.—R4. Reception improved by 4 p.m. They were very weak on Saturday afternoon.

PLW, Java, 31.86 metres: Good volume nearly every evening. Records and duplex.

Zeesen, Germany, 31.38 metres: Excellent volume at 6.30 a.m. on Tuesday, Wednesday, and Thursday mornings, also from 1 a.m. Sunday morning. Their transmission hours appear to have been changed, as several times they have been inaudible when they should, conditions being suitable, have been at good strength.

WIXAZ, Springfield, 31.35 metres: This station has gone off badly. R2-3 was the best I could do on Sunday at 5 p.m.

VK2ME, Sydney, 31.28 metres: Week-end programmes, Sunday evening and Monday morning, well received, except for severe fading.

PCJ, Eindhoven, Holland, 31.28 metres: Were like old times on Thursday from 6.30 a.m. to 7 a.m., being R9 and perfect in all ways. Saturday morning at the same time they were about the same, but the afternoon was very poor, being gushy at R5 at their best.

G5SW, Chelmsford, 25.53 metres: Saturday was the only morning it was possible to understand talk from London, between 7 a.m. and 7.30 a.m., when it was 95 per cent. at R5-9. Severe rapid fading spoilt reception on other mornings. I understand they come in well now at 12.30 a.m., so the "night owls" say.

12R0, Rome, 25.4 metres: This station has been subject to rapid fading the last few days, as well as being weaker than usual.

W8XX, Pittsburg, 25.25 metres: Sunday, 9.30 a.m., R3, with same game as heard from W2XAF. Saturday, 2 p.m., about the same volume, but gushy.

FYA, Pontoise, France, 25.2 metres: R8-9 each morning between 6.30 a.m. and 7.30 a.m., except Wednesday, when they were only R4.

Saigon (?), 24.3 metres (about): Friday, 7.30 a.m., orchestra at R8. Foreign

announcement, but no call heard. Music again, etc. A long talk commenced at 7.45 a.m., in which the word Saigon was heard several times.

W2XAD, Schenectady, 19.5 metres: Sunday, 9.45 a.m., R1-3, soon fading right out. Again on Monday, 6.45 a.m., about the same volume.

N.Z. Short-wave Club Notes

THE next meeting of the Wellington members will be held in Messrs. Nimmo's concert hall, corner Willis and Bond Streets, at 7.30 p.m. on Thursday, October 29. Any person interested in radio, especially short-wave, is invited to attend—there may be a little tin that is worth picking up.

As six months of the year has passed the committee, at a meeting held on Thursday last, decided to make the fees for the remainder of the term 5/- for Wellington city, and 3/- for all outside the city, and in other parts. This pays up to March 1, 1932, and this course has been adopted to suit the times, also to bring the first year's total up. Boys of 16 and under may enrol as junior members at an annual sub of 2/6 per year.

The first financial members in each district are:—Wellington, J. Donnelly; Christchurch, R. T. Stanton; Dunedin, Edw. Bond; Auckland, Mr. J. Hewat Smith. First lady member, Miss R. Orr. First overseas, R. A. Thoenig, Cresskill, N.J., U.S.A.

A member from Gisborne who was down to see me sends an interesting account of his journey home, also a number of snaps taken from the aeroplane in which he completed the remainder of his journey. Mr. Sellens, our popular president, will be in Christchurch for Labour Day week-end, and will try and see a few of the members there.

On looking up the books, I see that three of us met at 2.30 p.m. on January 8 last, to consider forming the club. On January 19, a meeting to consider the proposal was held in Johnson's Wireless School. The actual proposal to form the club was made on February 9, at a general meeting, which had been advertised. Listeners overseas and in New Zealand, my address is A. B. McDonagh, 274 Cuba Street, Wellington. Secretary N.Z. Short-Wave Club.

THE dangers of the unguarded microphone are illustrated by a French contemporary, "Le Haut Parleur," in relating an amusing incident which occurred recently during the relay of a speech by a Cabinet Minister. Interrupted in the midst of his eloquent address by a burst of prolonged applause, the statesman glanced out of the window and the listening millions heard him remark: "Mon Dieu! How it rains!"

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Age Cannot Withier.

ONE does not have to stay long in the U.S.A. to realise how important a factor the middle-aged woman is in American affairs. Even when she has passed middle life, she is still a force in business, politics, and public service. In truth, there is no place in the world where a woman ages so happily.

How does she manage it? Well, in the first place she refuses to grow old. She does not resent grey or white hair, but she keeps her face, her body, and her mind as young as possible. Beauty culture flourishes not only in big cities, but in small towns and villages. It is one of the great industries of the U.S.A. She has her weekly treatments to keep lines away and muscles taut, and she diets and exercises to keep her figure within bounds. She pays much attention to fashion, and refuses to be dated by her clothes, her coiffure, or her views on life.

That she has grown children and grandchildren does not cramp her style in any way. Indeed, she welcomes the fact that she has had all that experience, and is now free to go into business for herself, take a part-time post, or devote her attention to politics, clubs, or charity with an enthusiasm which is amazing.

In a recently-published report of the earnings of American businesswomen one learned that it is women who have thirty or forty years of work behind them who are getting the largest salaries. Their average wage is nearly £2000 a year. American businessmen apparently prefer to have older women as secretaries and heads of departments, and they can always depend on such women being as attractive as care of the person can make them, well-dressed, and with the assured manner of experience and self-confidence.

Pouts and Powder.

ADVICE is now being given in the beauty salons on the new method of applying lipstick and the new shape to be given to the lips, to suit pseudo-Victorian frills and frippery.

The small and narrow line of lipstick, suitable for brief skirts and hard, slick outlines, and for tiny off-the-forehead hats, has gone into temporary retirement, according to a South Molton Street specialist. Her clients are being shown how to make a full Cupid's bow, almost a pout, with lipstick, in order to suit feathered hats.

Made-up lips are powdered afterwards to give a dewy and fresh look. At the same time a much broader outline is given to the lower lip than before.

Not For Everywoman.

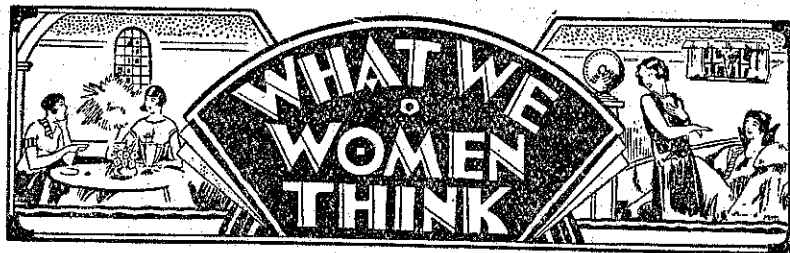
THE centre-parting with two twisted rings coiled at each side and lank straight tresses have become as smart as any shingle or cluster of curls.

The 1850 movement seems specially created to let the simple and severe coiffure have its place once again. It is amazing that the most dramatic millinery upheavals should arrive at the close of the London season, bringing in their train a complete change in coiffure.

Many of the turban modes have been found to look their best when tilted over slightly, with a sweep of the owner's straight hair dragged to a small bun at the back.

From Mrs. Pepys' Diary.

AT my reading do come upon a substitute for whipped cream, said to



be equally delicious, which should render it of great use to many at this season of the year, and here I do pass it on with much pleasure in the doing.

Maytime

*Spring goeth all in white,
Crowned with milk-white may;
In fleecy flocks of light
O'er heaven the white clouds
stray.*

*White butterflies in the air;
White daisies prank the ground;
The cherry and hoary pear
Scatter their snow around.*

—Robert Bridges.

The way of it to add a sliced banana to the white of an egg, and to beat until stiff, the banana entirely disappearing meanwhile, and the substitute as like

the real thing as may be, or so it is promised for it.

University Education for Women.

IN "A Little Learning," Miss Doreen Wallace propounds certain problems. Should women go to universities? What good is a university education to the average product of a country secondary school? Are artists necessarily bounders? Such are some of the questions raised in this ingenious study of "a little learning." As a picture of certain aspects of Oxford life, it is successful in the way that school books are successful which accurately reflect the mentality of a schoolboy author. It is also amusing, and some of the scenes round the heroine's home in the Eastern Counties are really good. The trouble is that undergraduates—and, for that matter, undergradettes—have a way of raising deep questions, and answering them with more enthusiasm than experience. It is an excellent habit in the

universities, but not so excellent in a novelist. Therefore, "A Little Learning" must be taken simply at its face value—a faithful mirror of the attitude of one type at least of the modern undergraduette. The conflict between marriage and a career is genuine, and the heroine's attitude of mind only too common. A creative career demands creative brains and no amount of university enthusiasm can replace them. It is the tragedy of the undergraduette that the opposite delusion is more fatal to her than to her male counterpart.

Those Realists.

ONE wonders sometimes whether delicacy and reserve in literature will come into fashion again with a new generation; a swing-back from the offensive and unnecessary calling a spade a spade in which many young writers indulge is overdue.

After all, there have ever been spades or their equivalent, and there are physical and other facts which need no emphasis. Yet some of the cleverest and most interesting books are marred by the author going out of the way to call a spade a spade when there was no need to mention the implement at all.

The phrases are flung in your face with an air of bravado as if the writer had said: "There, what do you think of that! Didn't I make you sit up?"

But perhaps the realists will themselves grow bored, now that nothing is secret or veiled, and we are past being shocked, only rather disgusted with bad taste and coarseness. Perhaps it will be voted dull to underline the obvious; perhaps some unpleasant facts will be left to the imagination which can ignore them; perhaps the things of the spirit as well as those of the flesh will be given more prominence. It will be interesting indeed to see what the next generation of writers can do, for we grow very tired of decadent heroes and heroines who live their own lives regardless of the old-fashioned rules of conduct and character building. The other kind will have the charm of novelty.

Exit the Bowler.

WHEN hats in "the very latest style" are unceremoniously bundled into "bargain basements" of the larger stores it means that a particular style is doomed probably by its first overpowering success. The bowler, or to give it its more imposing name the "Amazon," is a case in point. It will be seen no more when autumn and winter fashions are definitely launched. The tricorn will survive, so will the Robin Hood, and these are infinitely more becoming. A manufacturer of feminine bowlers found himself left with such a huge number on his hands that he offered a thousand or so to a wholesale house at a cut price of three shillings each. And these were copies of "models" which were retailed lately at three guineas.

Enter the "Bustle."

ACCORDING to the fashion dictators the return to the "bustle" this season is as certain as the departure of the "bowler." It sounds incredible, but only this year we were all saying that women would never return to the long skirt. Happily, whatever else it does, fashion keeps moving, and only the calendar separates the fashionable from the frowsy.

Our Cookery Corner

Bengal Patties.

THESE are excellent for picnics, as they do not break easily, and, although they are vegetarian, men appreciate them highly.

Ingredients: 1 lb. short crust pastry, a breakfastcupful of well-boiled rice, a heaped tablespoonful butter, the pulp of three tomatoes, one tablespoonful each of Worcester sauce, mushroom ketchup, and grated cheese, one teaspoonful each of chopped chutney and grated onion, half a teaspoonful each of curry powder and lemon juice, two hard-boiled eggs, seasoning.

Method: Melt the butter in a saucepan, put in onion and curry powder, stir over the fire for a few minutes. Shell the eggs, cut into dice, add to them the other ingredients, salt, and pepper. Should mixture seem too stiff add a little milk or white sauce.

Roll out pastry and cut into rounds. Put a small heap of the mixture on to a round, wet edges, cover with another round, press the edges well. Make a little hole in the centre of each, brush over with beaten egg, and bake in a quick oven for about fifteen or twenty minutes.

Cod Roe Cutlets.

COD roe cutlets are very tasty. Wash the roe and then part boil it for five minutes in boiling salted water. Take it out and leave it in cold water for two minutes. Cook again gently in boiling water with a little salt and a spoonful of vinegar, drain and let it become cold. Slice and trim, egg, crumb and fry. Garnish with fried parsley.

Delicious Rhubarb Dishes.

FOR rhubarb charlotte, fill a dish with alternative layers of stale sponge cake and cold stewed rhubarb. Press down firmly and place a weight on top. Allow this to stand overnight, then turn out and coat with cold custard or a mixture of custard and cream. For a plainer pudding bread may be used instead of sponge cake.

Rhubarb batter is delicious. You first fill a pie-dish with cold stewed fruit, and pour over it the prepared batter. Bake for three-quarters of an hour, and serve immediately. The batter is made as follows: One cup of flour to which a pinch of salt has been added, beat up one egg with the necessary milk and add these to the flour till a good beating consistency has been obtained. Beat thoroughly and then add more flour till the batter is like a thin sauce.

Rhubarb mould is popular as a supper dish. Cut up sufficient rhubarb to fill a three-pint dish, and put into a saucepan with 12 ounces of sugar, half a pint of water and the juice and rind of a small lemon. Let it cook gently until stewed, and boil a little longer to reduce the juice. Soak three-quarters of an ounce of sheet gelatine in a little warm water and add it to the hot fruit. Stir over the fire for a few minutes, then add a few drops of essence of almonds and cochineal, and pour into a mould that has been rinsed in cold water. Leave in a cool place to get firm.

... With ... BOOK and VERSE

By "John O'Dreams"

Jottings

MR. HAROLD NICOLSON was happily inspired when, as he himself says, two considerations, one money, the other letters from listeners, decided him to publish some extracts from his weekly wireless talks during last autumn and the present spring. We have them in "People and Things." The broadcaster is in much the same position as the actor. He says his "little piece" at the microphone, and there is nothing more beyond the remembrance of what he has said. But the broadcaster has this advantage over the actor: he can publish his "little pieces," and in Mr. Nicholson's case it was a happy inspiration, since during his thirty-seven weekly causeries there was so much of current history, shrewdly observed, that was worth preserving—a fortuitous blending of wit and wisdom. Of last year's Academy he said he had "seldom seen so many portraits of educational ladies at any exhibition. They make one quail. The flash in the eye of the generals and the admirals is but a puny little light compared with that searchlight gleam which emanates from the eye, from both eyes, of the principals of ladies' colleges. . . . In contrast to our distinguished women, our distinguished men of science, politics and municipal administration look positively benign."

MISS MARGUERITE STEEN, whose novel, "When the Wind Blows," has just been published, was an actress before she turned her attention seriously to writing. She lives in the country in a cottage built to her own design, and also has a flat in the Latin Quarter of Paris.

"THE HERO," by Herr Alfred Neumann, is ironically named, and the ex-cavalry officer who commits a political murder is but a sorry hero, somewhat unconvincing and melodramatic. The story starts when he is making a living as a dancer in a restaurant, meantime making plans to shoot his quarry. In this he is helped by one of the habitués of the restaurant, a doctor, who has been acquitted of killing his wife only because there was insufficient evidence to convict him. Another of the puppets so cleverly worked by Herr Neumann is the mis-shapen dwarf Paula, with her unswerving devotion to Hoff. In the final analysis, the murderer cannot resist overwhelming impulse to revisit the scene of his crime and confess his share in it. The whole grim subject is treated with brilliance and restraint, and makes intensely interesting reading.

Our Fortnightly Book Review

CONFESSIONS AND IMPRESSIONS

By ETHEL MANNIN

MISS ETHEL MANNIN is out to shock the Philistines in these exceedingly frank revelations and impressions of life in general and personalities in particular. This, however, is only one aspect of her versatile talent, for in her thirty odd years she has proved herself a high light on the fictional horizon. "Pilgrims" was an enthralling story of the life of a modern artist; "Sounding Brass" exploited early experience in an advertising office; "Ragged Banners" and other novels show penetrating experience of the world's way and a sense of psychology little short of astounding in view of her age and sex.

Beginning her meteoric career at fifteen as stenographer in the Charles Higham London organisation, her employer proved himself a good "picker" by promoting the dowdy girl, with her shrinking manners and questing intelligence, to the position of advertisement-writer; and when she was seventeen the astute publicist gave her a free hand in producing a monthly magazine, in which Miss Mannin published her own stories, articles and verses, and her talent was allowed full scope. In company with an artist friend, Bohemian as herself, she explored by-ways of London and literature, worshipped at the Shavian shrine, and read voraciously the works of Ingersoll, Kropotkin, Oscar Wilde and the Russians; her first acquaintance with novels being translations from the French of Gautier, de Maupassant, Pierre Loti, Anatole France and Balzac. Truly a catholic and stimulating mental diet for sweet seventeen, however precocious.

Marriage at nineteen revealed that "in the passionate teens one is still in course of mental and emotional evolution," and after a few short years the "house of the willow tree" was abandoned and emotional expansion sought elsewhere, one of the planks of the platform being that "love is the secret of human happiness, because it is the only source of lasting, fundamental satisfaction; there is no continuing delight unless one's love-life is right. That surely is very simple and elemental psychology and physiology."

During the course of adventurous living and brilliant achievement Miss Mannin has travelled widely and met many notable personalities, her impressions and conclusions being set forth with a wealth of allusion, clarity of expression, and occasional discursiveness admirably calculated to add to her already large circle of satellites. America she stigmatises as "a country where machines think like human beings and human beings think like machines. Time can but increase, and custom emphasise the vulgarity of this country without a soul." One cannot think, however, that absence of spirituality in nation or individual is any detriment in the opinion of the writer, for later in the book she endeavours to prove the hypothesis that man is entirely physical in all his reactions.

Comments on sexual psychology are courageous and entirely unreticent, intimate personal experiences being narrated with astounding candour and aplomb. That dark genius, the late D. H. Lawrence, Mr. Aldous Huxley, Mr. Bertrand Russell, and Epstein, the sculptor, are gods of Miss Mannin's idolatry, and she sets before us vivacious and passionately partisan portraits of these and other brilliant stars and comets in the firmament of art. Portrayals of men and women who loom largely in the public consciousness are executed with an audacity, skill in dissection, and literary charm that compel admiration, and, whether one agrees or disagrees with her conclusions, there can be no doubt of the interest and entertainment afforded.

The much-discussed "Lady Chatterley's Lover" Miss Mannin considers "one of the truest and most beautiful and moving books the age has produced," and is convinced, apparently, that if the gospel is followed according to D. H. Lawrence, "there will be no taking truth's name in vain, and men and women will live and work and love and beget each other in the sun and wind and rain, cleanly and decently and simply, as the animals do." Contempt for present-day civilisation is insisted upon: "When I saw R100 roaring against the blue silk of an early springtide sky, I thought of how in its brutal hideousness and terrifying monstrosity, it was a symbol of what we have made of civilisation."

IN "Slaves," by Mr. Frank Pollard, the scene is laid on a slave ship which sails from the Gulf of Guinea to Barbados, laden with over four hundred slaves. Mr. Pollard has made an intensive study of the subject, and from his material has written a realistic story of an ugly part of our maritime history. The slaver's fight with a pirate ship is thrilling. The conditions under which the slaves were taken to Barbados and battered under hatches were so horrible that the marvel is any of them survived the voyage. Mr. Pollard has steeped himself in his period, and also in its seamanship. Some of his descriptions of the manoeuvring of sailing ships are masterly.

Charles Higham is thus presented: "Magnificently self-made, perhaps flamboyant. But in a world where there are so many drab and flabby failures there is room for flaming success as spectacular as his. He is a rabid sentimentalist, his office simply overflowing with the Better Spirit in Business, flowers, and Christian names."

Of Jacob Epstein: "He has the simplicity and lack of affectation of all authentic artists, his manner is diffident and retiring, and in appearance he looks like a plumber."

Of Paul Robeson: "A negro by accident of birth: the supremely important thing is that he is a magnificent artist."

There is this pen picture of Miss Radclyffe Hall, author of "The Well of Loneliness," which Miss Mannin found a lovely and sensitive piece of work: "A beautiful head, sleek, close-cropped fair hair with a slight wave, a charming, boyish smile which light up the pale gravity of her face . . . a cameo rather than a mosaic."

And to Mr. Beverley Nichols is accorded the justice so often denied to him and to his work: "A brilliant pen, a great feeling for life below the surface of things, and sensitive response to beauty, whether on canvas or the smell of lilac on the wind."

The ineffable Osbert Sitwell irresistibly reminds the vivacious chronicler of "a large, elegant fish, a salmon, a sturgeon, perhaps a very superior cod. Colourless. Sexless. Complacent."

These confessions and impressions range over a wide and fascinating field, but Miss Mannin returns always to her insistent doctrine of the need for courageous living, illimitable experience, self-realisation. Her last word is: "If Man has any soul to have alive it is this—his consciousness of Life, and all that connotes of earthly vitality, deep-springing delight, and equally deep-springing pain."



HE reach of a modern multi-valve set, using screened-grid amplification, is now limited solely by the electrical "unrest" of the atmosphere. The wider the range, the greater becomes the intake of atmospheric "noise" until the general level of "noise" drowns out the more distant signals.

Luckily such disturbances are not so prevalent here as in the tropics, where a continual succession of crashes, bangs and rattles often renders ordinary reception quite impossible for hours at a time. In any locality, however, atmospheric disturbances are usually more troublesome on the long waves than on the short. They prefer the summer time to winter, and are subject to peculiar variations at sunrise and sunset.

If one commences to listen about half an hour before sunrise, the strays are loud and numerous—much as they have been all night. About fifteen minutes before sunrise they get weaker and fewer, rather suddenly, until a lull sets in, which lasts for perhaps a minute. They then reappear in force, and within ten minutes they have settled down to a steady roar.

ATMOSPHERICS can be classified as grinders, clicks, and hisses. "Clicks" are due to definite atmospheric discharges, more or less distant; while "hisses" are caused by an intermittent flow of current through the aerial, when it taps a point of high atmospheric potential. The term "grinders" covers all the other miscellaneous noises.

To understand the origin of atmospheric disturbances one must regard

the earth as being surrounded by a sea of so-called "static" electricity. If it were really "static" in the sense of being "quiescent," all would be well. Actually, there are continual dynamic discharges taking place in the atmosphere, and these cause all the trouble.

The potential gradient in the sea of static, moving upward from ground level, is approximately 100 volts per metre. This, of course, implies a corresponding charge of electricity on the surface of the earth. Interchanges take place between the earth charge and the surrounding sea of "static" whenever any change occurs in the prevailing meteorological conditions.

DURING fine weather there is usually a downward positive current, tending to neutralise a positive charge on the surface of the earth, while during bad weather, currents may flow in both directions.

When rain moisture, for instance, is first precipitated in tiny drops, the latter acquire the potential of the atmosphere at that particular spot. As they form into a cloud the tiny drops coalesce into slightly larger drops, and the capacity of each diminishes. However, since the original charge is retained, the potential increases, and is communicated to the cloud, which, in this way, accumulates an excessive charge.

Parasites of the Ether

The Causes of Atmospheric

Similarly, a fall of snow will cause a redistribution of atmospheric electricity. Or a current of warm or cold air may have the same effect. Sometimes the resultant potential differences between the surface of the earth and a charged cloud (or between one cloud and another) becomes so intense that the voltage breaks down the insulation, and a lightning discharge takes place.

Broadly speaking, however, every factor which tends to upset the static equilibrium is quickly followed by corresponding electrical movements tending to restore equilibrium. All such movements are liable to affect a sensitive wireless receiver and create "noise" in the set.

It has been calculated that an average flash of lightning, two kilometres long, discharges a current of 20 coulombs in about the one five-hundredth part of a second—representing an average current of 10,000 amps. By comparison a modern high-powered transmitter will feed, say, 500 amps. into an aerial 800 ft. long, and has an effective range of some 20,000 miles or more.

The lightning flash, while it lasts, is 200 times more powerful than the transmitter, so that there is little wonder that it makes a strong impression even

when very far distant on a sensitive radio receiver.

THE static content of the earth's atmosphere is largely influenced by the sun. It is calculated that the amount of solar radiation reaching the earth each day is equivalent to twenty thousand billion horsepower. This energy is chiefly composed of electromagnetic waves, visible light, ultra-violet rays, and streams of electrons and ions. In addition the earth receives a liberal daily allowance of a very penetrating type of radiation (Millikin rays) from interstellar space.

All this has a very definite effect in ionising the atmosphere and charging it with static. For instance, streams of ions and electrons projected from the sun, particularly during a period of sunspot activity, swirl around the earth's magnetic field and create space currents. These in turn induce corresponding "ground" currents in the interior of the earth, and so give rise to magnetic disturbances which react upon the electrical equilibrium of the atmosphere.

Regarding the earth as immersed in a sea of static, the passage of deliberately transmitted wireless signals can be compared with a small but regular succession of wavelets.

Superimposed on these one must imagine a constant fret of atmospheric "disturbances" comprising irregular movements and surgings, such as are caused in the ocean by wind, tide, and other natural influences. Such disturbances may vary in size from infinitesimal ripples to full-sized waves, and even an occasional tidal flood.

—P. C. Jevons, in "Popular Wireless."

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