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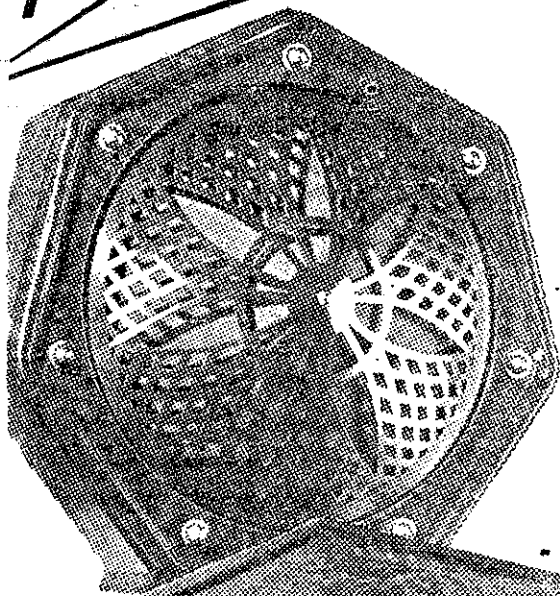
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W41B

IT IS BEING DONE!

asserts

W. M. DAWSON, A.M.I.R.E., M.I.W.T.

Replying to the statement that
Empire Broadcasting is Impossible

IN the daily Press of October 11 there appeared a cable item to the effect that the Imperial Conference Communications Committee had discussed the question (raised by the New Zealand delegation) of Britain establishing an Empire broadcasting station near London. Opinions were expressed that this was practically impossible at present, for financial and technical reasons, and it was stated that the cost of a station capable of broadcasting reliably over the whole Empire would be enormously expensive.

The colonies were quoted as having only three thousand listeners. This latter state-

ment is obviously far from accurate, even if intended to apply only to short-wave enthusiasts. The New Zealand license figures are nearly 60,000, Australia some 300,000, Canada some 350,000, India about 6000, and South Africa some 25,000. The number of present listeners, therefore, who would probably be interested in Empire broadcasts, either received direct or rebroadcast, runs into large figures. Technical and financial aspects are to some extent inter-dependent.

It is, of course, realised that a regular broadcast service must provide greater probability of successful reception than is necessary for transmissions of an experimental nature. Generally speaking, greater

In this article Mr. W. M. Dawson, chief technical engineer of the N.Z. branch of one of the world's largest radio organisations, questions the attitude adopted by the Imperial Conference in respect of Empire broadcasting.

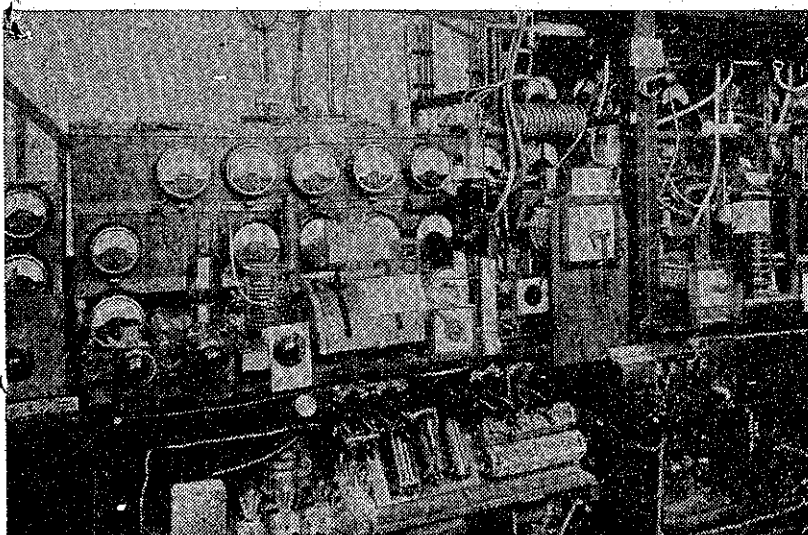
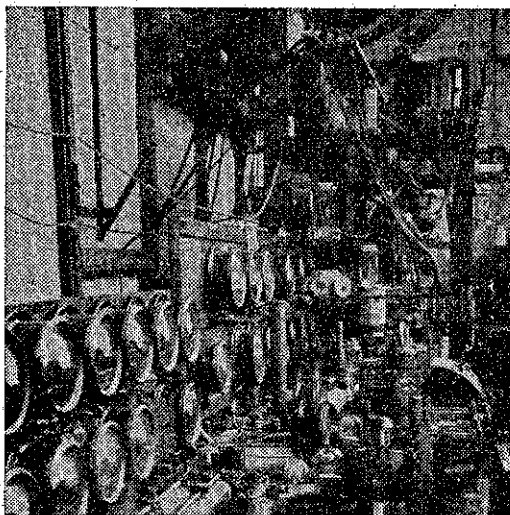
reliability is taken to indicate greater radiated energy with soaring capital outlay and upkeep expenses. This is not necessarily so. Also, readers may be prone to base their criticisms of short-wave telephony on the results obtained by the average short-wave listener with compara-

What a maze of meters! The top picture shows what one sees when he looks along from the crystal controlled oscillator end of PCJ—an Empire broadcasting station.

How would you like an amplifier like this one used by PCJ? And this is only part of it!



Many N.Z. short-wave listeners have heard this announcer. He speaks from PCJ in seven languages and is accredited as being the world's best-known announcer.



tively simple receiving apparatus, and listening to experimental broadcasting stations which radiate their energy more or less uniformly in all directions.

It is very unlikely that any attempt would be made to run an Empire broadcasting scheme on these lines.

A little study of a terrestrial globe reminds us of time differences existing between different parts of the British Empire, and it will be further apparent that these countries may be classed into two, or at the most three, groups as far as geographical great circle bearing from Britain is concerned. Canada lies away more or less due westward, and a direct line joining Britain with New Zealand conveniently passes through India and Australia on the way. Egypt and South Africa lie to the southward of this line, but a third line drawn to South Africa passes through Egypt.

Considered in conjunction with time differences, this at once suggests the use of directional beam transmitting antennas, one oriented to transmit directly toward Canada, the second directed at New Zealand, and possibly a third facing South Africa. Normally only one aerial would be energised at any one time. Such directive aeriels are thoroughly practicable for the short wavelengths that would be used and result in very considerable conservation of energy. The magnitude of this saving is not generally realised among listeners.

A well-designed short-wave beam antenna will radiate practically all of its energy within a 15 degree angle, and has an efficiency multiplying factor of approximately 200 when measured in terms of field strength at a distant receiving point with constant output

from the transmitter.

In plain language, this means that with an effective beam transmitting antenna one kilowatt of radiated energy is as effective as 200 kilowatts from an ordinary non-directional antenna.

Even then, this is not the whole story, for we may apply the same principles to the receiving antenna with practically the same increase in efficiency—i.e., 200 times. Consequently, with effective beam antennas at both transmitting and receiving ends, the over-all efficiency increases something like 200 multiplied by 200, or 40,000 times!

Again in simplest language, this means that one kilowatt radiated from and into beam antennas is about effective as 40,000 kilowatts just "splattered" round! In addition, they eliminate one of the causes of periodic fading—the out-of-phase signal arriving from "over the other end" of the world—the long way round.

This periodic fading is at present one of the main troubles associated with amateur short-wave reception, and unfortunately the simple types of short-wave receiver favoured by the average short-wave listener are largely to blame for the accentuation of this surging. Special receivers are in use at the present time which give good, steady signals when the reception of the same station on an ordinary regenerative set would be surging in and out so badly that intelligibility would be reduced almost to zero.

Furthermore, by what is known as multipoint reception, this fading trouble may be still further reduced. Broadly speaking, this system consists in the erection of two or more receiving sta-

tions at points some distance apart, the basic idea being that when the signal at one receiver is fading that at the other station is steady, or vice versa.

By "mixing" the outputs from these two (or more) receivers, the fading at one receiving location is largely balanced out by the other station, and practically steady reception is obtained.

Such a receiving installation is, of course, not practicable for the individual listener, but it is more than likely that any scheme for Empire broadcasting would include the local broadcasting stations as an essential link, and that the special short-wave transmissions would be rebroadcast on normal wavelengths. The "Empire" broadcasts could thus with advantage form an integral part of our ordinary broadcast service—possibly form a special session. Any idea of a regular 24-hour reception service is as unnecessary as it is impractical.

Even without beam transmission and multipoint reception, but using a suitable type of receiver, a long series of tests have proved that short-wave reception from 5SW (Chelmsford, England) was sufficiently steady for rebroadcasting purposes in New Zealand over long periods, and this consistency could be further improved by the methods outlined above.

Numerous excellent rebroadcasts of PCJ—notably by station 4ZL, Dunedin—have gone a long way toward showing that rapid periodic fading is not a sine qua non of short-wave rebroadcasts. This station (4ZL) some time ago regularly rebroadcast PCJ every Saturday afternoon without a break for months, and the excellence of these

transmissions was a byword in the southern city. The effectiveness of reception is largely a function of seasonal and hourly time against wavelength used.

If the transmitting wavelength is fixed, the daily period of best reception varies with the season, and there should be no insuperable bar to making slight adjustments to the time of the "Empire session" if it proved impracticable to alter the transmission wavelength at seasonable intervals. A point worthy of note is that none of the countries to be served lie within the initial skip distance of the wavelength ranges that would be used. The writer's idea has not been to attempt a detailed exposition of the factors involved, but to point out some of the lesser appreciated points.

The scheme is about as feasible as a commercial telephony system (already operating between England and Australia).

Surely, if private enterprise can initiate and maintain for years without fee or tangible remuneration such stations as the Philips-owned PCJ and PHL, the financial and technical objections to an "Empire scheme" are bogeys, rather than actualities.

PCJ Short-waver.

AS the fame of PCJ is world-wide, and as it was the pioneer regular short-wave experimental station, some brief particulars of it will no doubt interest "Record" readers.

PCJ came into being in March, 1927, for the specific purpose of studying, experimentally, the problems associated with and peculiar to short-wave telephony transmission. It had previously been demonstrated that the band of wavelengths lying below 100 metres made possible phenomenal distance telegraphic communication with very small output powers—previous standards were revolutionised. The part played by world amateurs in this development is well known and appreciated.

Short-wave telephony, however, had proved until that time practically impossible; still, if telephony could be made practicable on these short waves, long-distance broadcasting would chance from a dream into a reality.

The Philips Laboratories, at Bindhoven (Holland), with their innumerable resources, were certainly the best equipped to conduct such costly experiments. Not only was thought given to possible two-way communication with the Dutch East Indies, but also of a possible world-wide broadcast service—really a much more ambitious objective than the establishment of an "Empire" scheme.

Accordingly the wavelength was chosen with a view to obtaining good universal reception. The object of the experimental transmitter was definitely not record-breaking—in such case, a less carefully-designed transmitter would have sufficed—but to find out whether a really reliable broadcast transmission over very long distances was possible. In the transmission and propagation of the ultra-short waves, several very strange phenomena, that often can only be partly overcome, occur.

There is, for instance, the so-called fading effect familiar to all broadcast listeners. In the reception of the ultra-short waves, however, this effect is much more pronounced so that the

strength of reception may vary several times within the space of a minute, or even of a second. There is further the influence of the hour of reception on the signal strength.

The most favourable time of reception depends upon the wavelength employed, on the season of the year. The bad influence of fading, too, depends to a large extent on the wavelength employed, on the distance between transmitter and receiver, and on some other hitherto not fully known factors.

The propagation of the very short waves is entirely different from that of the long waves, and is of such a complicated nature that only recently scientists have got an idea of what really happens between transmitter and receiver. Constancy of the transmitted wavelength is of vital importance in ultra-short-wave telephony transmissions.

With the usual modulating systems the speech currents delivered by the microphone are intended solely to vary the amplitude, and not the frequency of the oscillations generated by the transmitter; unless special precautions, so-called "frequency modulation," takes place, causing acute distortion.

In the case of PCJ, frequency stability is obtained by the use of an oscillating quartz crystal—this is a thin wafer of quartz held between two metal plates. Depending upon the thickness of this quartz wafer it may be excited to expand and contract mechanically at a definite frequency and with great constancy.

These minute mechanical oscillations are accompanied by minute voltages developed, and these control the first valve in the transmitter, which valve, though it be only a small receiving type, controls the transmitted frequency of the entire transmitter, which may be radiating many kilowatts of energy.

The oscillations from the initial val. are then multiplied in frequency in several succeeding amplifying stages until the desired transmitting frequency is obtained, by which time the valve proportions have grown from that of the humble Philips miniwatt to the huge 20-kilowatt water-cooled types having an input of 25 to 27 kilowatts and requiring a plate voltage of the order of 8000 to 12,000. The transmissions of PCJ have, of course, been reported on from every corner of the globe, and the careful analysis, co-ordinating and filing, of these reports has been a work of no small magnitude.

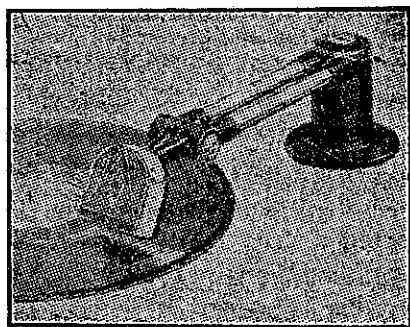
As a result, the Philips laboratories have accumulated a veritable wealth of data of particular significance to the establishment of a British Empire broadcasting scheme.

The idea of Empire broadcasting is, of course, not new. The following extract from the English paper, "Wireless World," dated as far back as April 27, 1927, is headed "Empire Broadcasting."

"For the second time in the short history of broadcasting it has been left to Holland to steal a march on this country, and in fact on Europe generally. . . . Now again Holland sets the example by leading the way in short-wave broadcasting. . . . We congratulate Holland, and the Philips Company in particular, on the enterprise shown in establishing a broadcasting record, more especially as the purpose is apparently

(Continued on page 29.)

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What the R.B.C. Proposed

A Detailed and Economical Scheme Submitted Last Year

Economic Proposals.

BASED on closer examination of the data concerning population and technical factors, the conclusion was reached that the provision of 100-watt stations, having a high-grade service range of 4 miles, and a rural service range of 27½ miles, and operating on land lines from the main centres as required, would have the effect of expanding the service sufficiently to give a high-grade service to approximately 750,000 people, and a fair service to practically the whole population of the Dominion. It was suggested that these 100-watt stations should be established at the following centres, the figures in parentheses showing the population brought within the range of high-grade service:— Hamilton (19,000), New Plymouth (16,000), Palmerston North (23,000), Wanganui (28,000), Gisborne (16,000), Invercargill (27,000), Timaru (19,000), Greymouth (5000), Nelson (12,000), Rotorua (4000).

In the case of Napier and Hastings (38,000 people), it was proposed to establish a 500-watt station, with a high-grade service range of 10 miles, and a rural service range of 65 miles, on account of their special position. In the case of Greymouth, while a relay station was not justified from a commercial point of view, consideration was suggested because of the screening effect of the Southern Alps. Erection of the stations at Rotorua and Nelson, it was proposed, should be suspended until completion of the others, when further investigation might be made.

Construction to be Spread.

IT was proposed that the scheme should be spread over a construction period of five years for technical as well as economic reasons. From the technical point of view it was recognised that reliance would need to be placed upon the Post and Telegraph Department for the provision of land lines between the main studios and the subsidiary relay stations, capable of transmitting musical programmes, and the provision of these would probably prove more difficult and protracted than the erection of the actual relay stations themselves. Progress was, therefore, dependent upon the capacity of the Post and Telegraph Department to provide transmitting media.

The full success of the scheme was estimated to require not less than 120,000 listeners, which total would only be attained progressively as the service was expanded and maintained at a satisfactory standard.

The company, having submitted this report of the requirements for the provision of a fully satisfactory national scheme, capable of economic operation, was prepared to find the capital necessary for same under a rearrangement of its contract term.

Comparison of Proposals.

THE scheme, as briefly indicated by the Postmaster-General, now favoured by the Government, discards the modest power of 100-watt relay stations operated by land line from central stations, in favour of the establishment of 500-watt independent stations at seven provincial centres. This scheme is obviously more expensive than that originally proposed by the company. Independent stations responsible for their own programmes will require greater building and staff accommodation than subsidiary stations. Their capital cost will be greater, their annual charges greater, and moreover, their copyright charges greater, through royalties being based upon transmissions of independent stations whereas relays count but as one transmission.

In view of the Minister's promise that the Government scheme will be clarified and submitted to Parliament before financial commitments are entered upon, it is unlikely that concrete proposals will be released by the department till next session. Meantime, however, the situation is of sufficient interest, not only to radio listeners, but to taxpayers in general, to warrant full examination. The scheme propounded by the Radio Broadcasting Company was upon a more economical basis than that suggested by the Minister. The company estimated that 120,000 listeners would be required to secure financial stability. The Minister suggests that a more ambitious scheme could be satisfactorily financed upon 100,000 listeners. Having regard to general experience of Government operations it would seem likely that the taxpayer will thus become involved in contributions to the radio service unless a degree of economy not usually obtaining in State operations, is observed.

Editorial Condemnation.

WRITING on the second statement of the Postmaster-General, the New Zealand "Herald" said: "Now the whole scheme has been cast into the melting-pot, Mr. Donald should not be surprised if his conflicting statements lead to a further inference that the original announcement was made before it had been sanctioned by the Government, and that consternation has been caused by his undertaking to involve the State in this hazardous experiment. Even if it be granted that the department's technicians are fully qualified to attend to the technical work at the stations, much remains to be explained. How much capital is to be absorbed by the proposed elaboration of the broadcasting apparatus, and who is to provide it?"

"If the service is to be conducted by private enterprise, will the department give its technical services free, or make a remunerative charge for them? What will be the attitude of the Government if the Broadcasting Company prefers to rely on its own technical staff?"

"Finally, if the State is not to establish a monopoly, is the present Broadcasting Company to be refused a further license and, if so, on what grounds is it to be evicted?"

"Obviously, all these questions should have been considered and answers to them prepared before the Postmaster-General announced changes which he has now cast back into a general confusion out of which it is impossible to discover what the Government or the department proposes to do, or, indeed, whether either of them knows itself what can or should be done."

THE nature of the proposals submitted to the Postmaster-General early in 1929 by the Radio Broadcasting Company was outlined in an article in "The Dominion" during the week. The article read:—

The scheme put forward by the Minister is understood to be an adaptation of a proposal submitted to the Government by the Radio Broadcasting Company in March of last year. The company then pointed out that the existing stations in their situation and power were inadequate to provide perfect national coverage; that extensions were necessary, but that it was prepared to undertake those extensions, provided protection was given for its investment of capital.

When the original proposals for the erection of 500-watt stations in each of the four centres were submitted by the Radio Broadcasting Company to the Western Electric Company (now Standard Telephone and Cables Limited), that company suggested, to make a complete broadcasting scheme for the Dominion, four additional relay stations, situated at New Plymouth, Wanganui, Napier and Invercargill, with an aerial rating of 50 watts and connected by land lines with the main stations, should be provided. These recommendations from so experienced a source led to deeper inquiry.

Subsequently the Post and Telegraph Department reached the conclusion that Wellington, as the centre of the Dominion, should have a station of a power greater than 500 watts, and opened negotiations which led to the establishment of 2YA at a power of 5000 watts. This move was justified by results.

When the time came for raising 4YA to the standard of the other stations, the company, it is understood, verbally offered to make the station of 1000 watts power if radio licenses were established on a point-to-point basis, instead of terminating at March 31 each year.

That proposal was not accepted by the department, and the company in due course proceeded in terms of its contract to establish a 500-watt station at Dunedin.

Effective Range of Stations.

EXPERIENCE throughout the Dominion showed that the rural districts and towns and centres next in importance to the four main centres were not adequately served by the four main stations, simply because of the limited effective range of those stations. From the radio point of view supplementary service was necessary. Experience gained in America showed that stations such as 1YA, 3YA, and later 4YA, of 500-watt power, gave high-grade service up to 10 miles distance, and service sufficient for rural needs up to a distance of 65 miles. Stations of 5000 watts (such as 2YA) gave high-grade service up to 30 miles distance, and rural service up to 160 miles distance.

Examination of the population in the high-grade service area, in New Zealand towns and cities outside the main centres, showed that separate broadcasting stations, with their own studio and individual programmes, were not economically sound, as the revenue from the proportion of listeners likely to be secured would not be sufficient.

The erection of local stations to pick up and rebroadcast the main stations, while commercially practicable, would not, it was considered, give technical efficiency. The preferable course was held to be to establish relay stations operated by land lines from the stations erected in main centres, thus combining technical and commercial possibilities.

The New Zealand Radio Record

—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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WELLINGTON, FRIDAY, OCTOBER 24, 1930.

EMPIRE SHORT WAVE BROADCASTING SYSTEM.

ON another page we give an authoritative article on the question of the establishment of a short wave station in Britain capable of affording an Empire service. This subject was briefly discussed last week at the Imperial Conference, where a pessimistic note was struck. It was represented that the technical and financial difficulties confronting the proposal were insuperable and that it was not possible to face the issue. The contributor of our article, who is a technician of high standard, analyses the problem presented from the technical standpoint; and potently enough concludes by reference to the degree of efficiency achieved by the famous PCJ station in Holland. The case of that station goes far to discount the technical problems raised. It is pointed out that a 24-hour service for transmission is not necessary, as due consideration would necessarily have to be given to the hours at which reception was normally feasible in the different portions of the Empire. It is concluded that three major areas could be served by effective beam transmission; that these transmissions at suitable hours could in many instances be picked up by short wave receiving sets and duly rebroadcast through existing stations on popular wavelengths. For a definite period such rebroadcasts of overseas stations have been effected. On outstanding occasions YA stations have picked up important transmissions from 5SW, Britain, American stations, and even Dutch stations, and effectively relayed them to listeners. Mr. Harris recorded, as a result of his recent visit to America, that the interchange of programmes between Britain and America was now regularly feasible through increased efficiency of reception. By the use of the same system of antennae, it will in due course, we anticipate, be possible for New Zealand and other portions of the overseas Empire to achieve similar results. Certainly considerations of cost must be kept in view, but having regard to the importance of the service, it is to be hoped that this difficulty will not be unduly exaggerated.

IT is known that Britain has financial interests in the ordinary commercial beam telephone system operating in portions of the Empire. Her interests in existing cables are also immense. These factors, it

is almost to be feared, may have a more important bearing upon the attitude of the installation of a short wave transmitting station for popular service, than the technical and financial problems of which so much is made. The functions of the service, however, are different. Due protection must be accorded to existing cable and beam systems, but the installation of a central short wave broadcasting system would be a gesture of such wonderful import that it is to be hoped something practical will evolve from the Imperial Conference.

Broadcast from the R100

While Above Ottawa

DETAILS have recently arrived from Canada of the rebroadcast over the Canadian network of a two-way wireless telephonic communication between a land station at Ottawa and the airship R100 during the latter's passage over the capital of Canada. The Hon. R. B. Bennett, from the studio of station CNRO, spoke to Wing-Commander Colmore and others on board the R100. In turn, those on the airship addressed the land station.

Transmission both ways was clear and distinctly audible, though reception in the ship was better, due to the greater power of the land station. It is believed that this is the first occasion on which a broadcast of such character has been conducted.

Origin of Radio

Curiosity and Experiment

AT the opening of the Berlin Radio Exhibition, Professor Einstein gave wireless enthusiasts something to think about. "When you listen to wireless broadcasting," he said (according to a British United Press report), "do you wonder how mankind came into possession of this marvel of communication? The source of all technical achievements is sublime curiosity and playful experimenting in both the amateur searcher, and the constructive, imaginative inventor. Remember, it is the technicians who make true democracy possible, because they not only alleviate man's daily labour, but make the work of the finest thinkers and artists—the enjoyment of whose work was until lately reserved for a privileged class—available to everybody, and thus arouse the people from drowsy sluggishness."

French Empire Short-Waver

CLOSELY following the announcement of the intended establishment at Rugby, England, of an Empire short-wave station, comes the intimation that at the Paris Colonial Exhibition in 1931, an experimental colonial broadcasting station for France will be inaugurated.

The test station will be erected by the post office authorities, and the experience gained in its operation will be utilised in the construction of a permanent station at Saint-Germain, to be controlled by a "National Federation of Colonial Broadcasting."

Talks About Radio Series from 2YA

WHAT should prove an interesting series of talks about radio has been arranged from 2YA to commence on Saturday, November 1. These talks, essentially of a non-technical and chatty nature will be given by our Technical and Associate Editor, Mr. Colin W. Smith, B.A., who will take for his first subject "The Romance of Radio." Although primarily addressed to the general listener, the enthusiast should be interested in such topics as "Home Constructing" and "Trouble Tracking." Although the majority of listeners now use commercially made electric sets, and wish to know no more about them than how to find stations, yet there are many things, though simple, which would be of advantage to them. It is of some of these that Mr. Smith intends speaking. Other topics will include the electric gramophone, aerial, earth, and accessories, house wiring, and "how and why" of radio transmission.

No doubt Mr. Smith will have some interesting sidelights to throw upon the subject of trouble tracking, for it is he who conducts the "Questions and Answers" columns.

The World We Live In Scientific Talk From 1YA

MR. Frederick R. Field, of Auckland, civil engineer and scientific research worker, is to give a series of talks from 1YA. Mr. Field has made a life long study of the history of the Earth and has evolved a theory concerning it and the Universe. His first talk from 1YA will be given on Friday, October 31, and will deal with "Rotation of all Bodies in Nature." Further talks concerning the working of the sun and the influence of the heavenly bodies will follow.

Eight O'clock Revue

ACCORDING to correspondence received from interested listeners it appears that the series of Eight O'clock Revues broadcast by Mr. Will Bishop and his company have been thoroughly enjoyed. Numerous requests have been made for a reappearance before the microphone of the Revue Company, and to comply with this a new series, commencing on Tuesday, November 25, has been definitely arranged.

These will be of one hour duration and will be even more snappy than the previous ones.

WHY?

Kingsford Smith uses Burgess Batteries. Commander Byrd uses Burgess. More Burgess Batteries are sold in New Zealand than any other make. Why?

BURGESS RADIO BATTERIES

Divided Control Question of Efficiency

ALTHOUGH most newspaper writers throughout the Dominion condemn the proposals of the Government in connection with the future broadcasting service, there was one writer who commended one aspect of the Government's proposal. This was a writer in the Wellington "Evening Post," who said that "on the technical side the proposed change is sure to be beneficial." The writer bases this statement on the allegation that the technical side of 2YA is hopelessly astray. This writer, after indulging in round condemnation of the whole technical output of 2YA, came down to details, and professed to find satisfaction in the fact that the placing of the Post and Telegraph Department in charge of the technical side of the transmission of radio would immediately remedy certain faults. These faults the writer proceeded to enumerate. They included as glaring examples: "(1) Voices that 'blast' habitually; (2) bad microphone placing; (3) poor orchestral balance; (4) false fluctuations in volume; (5) uncompleted microphone production and objectionable 'background' noises."

When claiming that these faults would be remedied by the transmission being placed under the technicians of the Post and Telegraph Department this writer is surely revealing a somewhat incomplete understanding of the radio business. Those faults, if they exist at all, are practically entirely studio faults, and would not come under the purview of the technicians responsible for transmission. A very definite dividing line would require to be drawn between the rendition of the programme and the technical side in the event of any division of control being established. The technical side would, and could, be made responsible only for the correct transmission of the sounds as they went into the microphone. The programme department would be responsible for the output of sound before the microphone and all details connected therewith. We can see no other way of arranging matters in the event of divided control being established. Under no circumstances would we approve of a division of control. We think it would lead to hopeless confusion and difficulty. The technical side, responsible only for the accuracy of transmission, would have no say in the evils alleged to exist.

Remarkable Symphony to be Broadcast

Winning Composition of £2,000 Competition

ONE of the features on 1YA's programme for Friday, October 31, will be the broadcasting of Kurt Atterberg's "Symphony No. 6 in C Major" as recorded by the Royal Philharmonic Orchestra, conducted by Sir Thomas Beecham. Out of 500 works, this symphony was selected by a jury of eleven international musicians to receive the grand prize award in the Schubert anniversary contest.

Kurt Atterberg was born forty years ago in Gothenburg, Sweden, and studied in Germany. Returning to his native land, he became a noted music critic in Stockholm, conductor of the Stockholm Orchestra, and president of the Swedish Society of Composers. His large works comprise such varied forms as opera, cantata, concertos for violin and cello, and five earlier symphonies. He now achieves a new fame by winning the £2000 grand prize in an international composers' contest with his Sixth Symphony dedicated to the memory of Schubert.

Atterberg's pre-eminence among the many brilliant and scholarly composers who submitted works in the Schubert contest may be ascribed in great part to his splendid gift for melodic invention and brilliant orchestration. The Symphony is full of originality, picturesque beauty, exquisite melodies, and magnificent effects, often with touches of Scandinavian colour. The abounding energy of the Allegro, the poignant beauty of the Adagio, the humorous Fugato and terrific climax of the Finale, combine in making what is certainly one of the greatest symphonies of recent times. Of it, one eminent English musician, to whom advance proofs of these records were submitted, said: "I do not know when the first hearing of a work has given me such pleasure, and I look forward to its first public performance with great interest."

Radio to Assist Declining Theatre

THE once supreme attraction of the legitimate stage is fast declining the world over, a fact which has resulted in a proposal, made recently in London, that the British Broadcasting Corporation should devote a portion of its profits to the establishment and maintenance of a National Theatre.

The blame for such a state of affairs is attributed to the advance of the talkies, and though radio is in no way included, it is felt that it can assist materially in helping the stage to maintain its existence. The committee appointed to investigate the matter suggests that the surplus received from wireless broadcasting, a sum amounting to about £300,000 annually, should be used to defray the cost of such a theatre.

In other words, radio, once regarded as a serious competitor to the stage, now appears on the scene, like a fairy godmother, to prevent its complete dissolution.

Miss 1930 Calling!

Discussing Bargain Sales

THE fair sex is not usually credited with either knowing or caring much about the technical side of radio, and so it is rather a surprise to learn that in America there are well over forty feminine amateur transmitters. In Europe and other parts of the world, however, there are very few. England, apparently, boasts only two, France one, Switzerland one, and Australia one.

It would be interesting to know what these feminine enthusiasts talk about over the air. Do they, like their brother transmitters, discuss modulation and milliamps, or do they enthuse over the hats they've bought at bargain sales? Or is their conversation a mixture of the two—like this:

"Hull, Three Pip Emma Toc, this is Nine Double Ack Zebra answering! Yes, my dear, your modulation is just too perfect. I understand that some of my last remarks were jammed out by Q.R.M. No, I said five-and-eleven-three a yard, not nine-and-eleven-three a yard. And, my dear, I picked up the cutest little hat to match...."

A Thoughtful Gift

THE successful efforts of Aunt Hilda (editor of the Christchurch "Star's" children's page) and the little members of the Circle has resulted in the purchase and installation of a small all-electric radio receiver for the entertainment of the convalescent child patients at the Infectious Diseases Hospital at Burwood.

The funds available did not admit of the purchase of other than a small set and, as children in hospital are early abed, there was no need to consider the reception of any other than local broadcasts. For this reason and, in order that the hospital staff should have as little trouble as possible with the care and maintenance of the receiver, it was decided that a little two-valve A.C. set of British make would fill the bill.

The receiver is installed in one of the dining-rooms, an indoor antenna zigzagged across the room furnishing the aerial pickup. The set is "earthed" by battery-clip to the iron fire-grate. These makeshift arrangements were necessitated by the impossibility of installing a regular outdoor aerial and earth. However, a test made by "Aerial," radio editor of the "Star," showed that, despite the distance from 3YA and the deficiencies of the installation, good loudspeaker reception of 3YA's afternoon session was possible.

The official opening of the installation took place last week. Well wrapped up in blankets and reclining on comfortable armchairs, to which they had been carried by the hospital nurses, the "early-to-bed" children of the hospital listened, in company with a number of other children for whom early retirement was not compulsory, to Aunt Hilda, of the "Star," officially "open" the "Star" Circle's radio gift to the hospital children.

At 5.45 p.m. Aunt Hilda's cheerful "Hello, children," was heard from the loudspeaker in the hospital children's dining-room. Aunt Hilda was speaking from 3YA and, possessing a good radio voice, her every word was heard clearly and distinctly. After declaring the set "open," Aunt Hilda delighted her listeners with some up-to-date fairy tales, the moral of one—that it is not wise for children to meddle with wireless sets—not being lost on her hearers!

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THE MASTER VALVE

Embodies all improvements
known to Valve Manufacturers.

Notes and News from the North

(By "Call Up.")

A NEW brass band to be heard shortly by IYA listeners is the Devonport United Band, well-known as a proficient combination of players. They will broadcast for the first time on November 12.

OTHER interesting concerts to be broadcast by IYA next month will be given by the Orphans' Club Orchestra, November 13; the Aeolian Orchestra on relay from the Town Hall, November 18; and the Auckland Piano Students' Association on November 19.

THE REV. ALBERT WHITE, better known to listeners as "Uncle Bert" of IYA, has become very popular with the children since he took over Uncle Leo's place about three months ago. His children's song service on Sunday evening is always good and is listened to not only by children in all parts of the North Island, but also by many hundreds of grown-ups. Uncle Bert has been sent many photos of his little listeners, and these are arranged round his study so that while he is composing his talks for the Sunday services he can see the children who will later form his unseen congregation.

ANOTHER of the IYA half-hour recital services will be given on the evening of November 7 by Mr. and Mrs. F. W. Simpson, baritone and pianiste. Mr. J. Clark and company will also be heard in scenes from "Henry VIII."

THE "B" class station 1ZM, Manurewa, has been on the air only four or five weeks, and there are still a number of local listeners who have not heard it. It is operated by Mr. W. W. Rodgers and on its broadcasting days gives a practically all-day service. Its output is 10 watts and the wavelength 247.89 metres. On Sundays and holidays it is on the air during the following hours:—10 a.m. till noon; 1-3 p.m.; 4.30-6 p.m.; and 10-11 p.m.

AN extensive series of talks given under the auspices of the Auckland Manufacturers' Association is to be given from IYA commencing early in the new year. The idea is, of course, to encourage the buying of locally-made goods.

NOW that summer-time conditions prevail and the clock has been put on, reception of Australian stations is not so good nor so convenient as during the winter. However, they seem to be coming in a good deal better than they were at the same time last year.

ALTHOUGH there was some talk of another radio exhibition in Auckland, nothing further seems to have been done about it, and at present such an event looks unlikely. In any case, the spring is not the most suitable time for a radio exhibition and the local dealers would probably derive more benefit from it if it were put on next autumn—a much more suitable season.

"Radio Record and Electric Home Journal"?

12/6 in Advance; 15/- Booked.
BOX 1032, WELLINGTON.

Balclutha Celebrates Jubilee Anniversary Concert Broadcast

FROM Balclutha, which is celebrating its Diamond Jubilee this month, a Jubilee concert will be relayed to 4YA on Tuesday, October 28. An excellent programme has been arranged. In addition to the musical numbers, there will be speeches by a Minister of the Crown, and by the Mayor of Balclutha, Mr. S. V. White, who will be presented with a mayoral chain by Mr. A. E. Russell, on behalf of the citizens.

The Jubilee celebrations will be spread over several days and will include many varieties of sport and entertainments, and such novel events as a children's dress parade, trade displays, cricket match (old councillors versus present councillors), fireworks display, street dancing, jubilee services in the churches, sacred concerts by Balclutha Male Choir, cutting the Jubilee birthday cake, citizens' ball, children's sports, planting of Jubilee memorial oaks, and Diamond Jubilee concert. In the broadcast of the concert the old identities of Balclutha who will be unable to attend the celebrations, will have an opportunity of listening to at least one of the events held on this occasion.

Once noted for the devastation wrought in the town by the frequent floods in the Molyneux River, Balclutha, on the main railway line, 53 miles south of Dunedin, has during the past decade made remarkable progress. While other towns and districts still suffer from the unfortunate visitations of floods, Balclutha has been enjoying wonderful immunity. To a large extent this has been due



Mr. S. V. WHITE.
The Mayor of Balclutha.

to the very strong embankment with which the ratepayers fortified the town after the last serious flood about eleven years ago. To-day, Balclutha is the thriving centre of one of the most prosperous agricultural and pastoral districts in the Dominion, and its reputation as a sound business town ranks very high with commercial interests. Including its suburbs of Rosebank, Toshvale and North Balclutha, it has a population of well over 2,000 people.

It is sixty years this year since Balclutha was constituted a borough, and the citizens have therefore deemed it right that the occasion should be marked by appropriate jubilee celebrations. These are to take place during the Labour Day week-end, and will commence on Saturday, October 25. The present Mayor of Balclutha, Mr. S. V. White, is the seventeenth on the list. "Sid," as he is popularly known, is a real live wire. An enthusiastic sport, he was well known on the athletic field in his earlier days. During the eleven years that he has been on the Council, for seven of which he has occupied the mayoral chair, he has had the best interests of his town enthusiastically at heart.

The motto of the town, selected by its chief citizens in far away 1870, is: "Let Balclutha Flourish," and ex-residents of the Clutha now living in other parts of the Dominion will be able to obtain through 4YA on the night of October 28, an idea of how the town has flourished and progressed during the past sixty years.

Business Talks by Radio Conversation Electrically Recorded

AMALGAMATED Wireless (A/asia), Ltd., the company which operates the wireless telephone service between Australia and England, has been informed of an ingenious stratagem adopted by a Melbourne firm to obtain a permanent record of a conversation conducted between Melbourne and Birmingham. Being advised that a call was coming through from Birmingham, the Melbourne firm arranged to have an electrical recording instrument tapped in their telephone circuit during the whole of the conversation.

The telephone discussion concerned detailed figures and specifications, which were recorded, and which constituted an accurate statement of the business which could be dealt with when the time factor did not involve the charge of £2 a minute. Verbatim reports of the conversation have, it is understood, been sent from Melbourne to Birmingham, and the firm intends to place this and future recorded conversations on the office files for reference.

This is believed to be the first occasion on which a long-distance call of this nature has been electrically recorded. Radio experts look forward to the time in the near future when such a record will prove in business dealings as binding as the written contract.

Our Mailbag

Uncle Billy and His Famous Four.

I FEEL sure 75 per cent. of listeners will agree with me when I say Mr. Will Bishop and the Four, not forgetting "the girls," gave us from 2YA hours of clean, amusing, and witty entertainment, and it is to be hoped they will continue. The Eight O'Clock Revue was always appreciated, and part songs by such singers as the Four are always a treat. In my opinion, too, the limericks are a source of education as well as amusement, and I trust they will be carried on. Anything that will induce our young people to take an interest in poetry, music, and art is uplifting, and what we want as a nation is more culture. Carry on, W.B. and Co. I am—Fiat Lux (Wanganui).

Marching Onward.

WHEN I tuned in to a New Zealand station to-night I heard an old piece, "Marche Militaire," which was in existence at about 55 B.C., and still they play it. I suggest music with plenty of "kick" in it. I wonder if the R.B.C. has a limited stock of records for dinner music, because the same records are played year in and year out. Could the stations have turn about for dance music during the dinner session?—Yankee (New Plymouth).

Broadcasting Control.

AS one who has for years had the interests of radio in New Zealand very much at heart, permit me to congratulate you upon your editorial in the "Radio Record" of the 10th inst. The proposals of the Government are bound to meet with opposition, especially from certain interests which have long been manoeuvring to obtain and retain the control of broadcasting in New Zealand. Whilst giving every credit to the Radio Broadcasting Company for the intensive spade work which Mr. A. R. Harris has put in, one must realise that the present company is not financially in a position to give the extensive service that the peculiarities of this country need. The details of the scheme will have to be carefully watched, but there is no doubt, as you truly remark: "From the point of view of radio itself it will certainly be beneficial to the listening public."—B.T.P. (Silverdale).

WHEN a set is changed to short-wave working it is often an advantage to change the value of the detector leak to a greater figure to increase sensitivity.

ENQUIRE WHAT THE I.C.S. CAN DO FOR YOU?

Every post brings letters from I.C.S. students telling of advancements and increased salaries won through spare time study. These advancements and increases were not only in the technical fields such as Electrical, Mechanical and Civil Engineering, Architecture, Chemistry, etc., but also in Salesmanship, Advertising, Business Management, Accountancy, and so on.

What subject are you interested in? Write to us to-day for full details.

The International Correspondence Schools (N.Z.) Ltd.

1822 WAKEFIELD ST., WELLINGTON

Polar Expedition to Plot Air Route to Canada

A FEW weeks ago the British Arctic Air-Route Expedition sailed from London for Arctic seas in Shackleton's historic ship, the "Quest." The venture has for its object the investigation of an all-British air-route across the Arctic regions from Britain to Canada.

A little band of fourteen men comprise the party, including among their number surveyors, aeroplane pilots, wireless operators, geologists, and other experts. The equipment is remarkably complete, including aeroplanes, motor-cars, and sledges, and the most perfect of scientific instruments for surveying purposes. The latest types of radio transmitting and receiving apparatus have also been included for maintaining communication not only between the various small parties and their base camps, but also with the outside world. For the latter purpose, a hundred watt, short-wave transmitter will be used.

The difficulty of battery-charging has been surmounted by the inclusion in the equipment of specially-designed wind-driven chargers.

Children's Sessions

FROM 1YA.

TUESDAY, OCTOBER 28—

Fun for all this evening, when Uncle Reg will be present. There will be another puzzle for Uncle Dave and Cinderella to solve.

WEDNESDAY—

Gather round the loudspeaker at 5 o'clock and hear what Uncle Tom has to say to you, and listen to some cousins giving sketches and recitations.

THURSDAY—

The Bayfield Choir will delight listeners with a melodious programme, while Peter Pan will have stories and jokes to tell.

FRIDAY—

The happy hour with Nod and Aunt Jean, and cousins singing.

SATURDAY—

Don't forget to listen on November 1, for it is our third birthday, and all the Aunts and Uncles will be present. What fun we'll have.

SUNDAY, NOVEMBER 2—

Children's song service conducted by Uncle Bert, assisted by Beresford Street Sunday School.

FROM 2YA.

MONDAY, OCTOBER 27: The programme to-night is being given by the pupils of Miss Fitzgerald. Uncle Jeff will act as their host, and ask puzzles.

TUESDAY: Here come the Rongotai College boys; also Big Brother Jack and Robinson.

THURSDAY: Uncle George will send birthday greetings to-night. He will bring with him the little pupils of Miss Myrtle Lee, and there will be stories and fun.

FRIDAY: St. Mary's Convent has prepared a delightful programme for this evening. There will be piano-forte duets; chorus work and musical monologues. Uncle Jim will tell stories and send out birthday greetings.

SATURDAY, OCTOBER 31: This will be a special A. A. Milne evening, and the little pupils of Mrs. Martyn Williams will be the performers. Uncle Toby will play his mouth-organ and will also send you birthday greetings.

SUNDAY, NOVEMBER 1: The children's choir from St. John's Presbyterian Church will be here to-night to assist Uncle George. The

choir will be conducted by Mr. Johnston.

FROM 3YA.

MONDAY, OCTOBER 27.—Stories by Cousin Margot, and the Mystery Man, musical items by Gwen, songs by Doris and Evelyn, and a lovely snappy programme for you all.

WEDNESDAY.—Uncle John in fine fettle to tell you some adventure stories and we are to have another little talk about the league of Nations. Songs by Valerie and Helga.

THURSDAY.—Funny little stories and songs by Ladybird, with Uncle Frank helping so cheerily in duets and choruses.

FRIDAY.—"Chuckle" on deck to-night, and a crew of singers from West Christchurch District High School singing sea shanties for us.

SATURDAY.—"Aunt Pat" with Sunny Jim and Jack Frost with some little radio friends helping with songs—a merry hour for all.

SUNDAY.—Sunday Song Service, conducted by Mr. W. H. Green-slade, divinity student from Trinity College, Auckland, assisted by some scholars from the Methodist Sunday School.

A SEPARATE "B" + tapping for each valve is one good method of reducing the effect of battery coupling

SHOP-SOILED, DEMONSTRATION and TRADE-IN SETS!

EVERY Instrument is Tested, and Guaranteed Free from Mechanical or Electrical defects. At the Prices quoted, each Instrument is COMPLETE with all Accessories, including Valves, Batteries and Loudspeaker, etc. Further particulars of any Model will be supplied on request.

	Last Price	Bargain Price	Deposit	Monthly Payments of
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Amrad 5-Valve, in Mahogany Cabinet, complete	30 0 0	19 0 0	4 0 0	1 8 2
Diva 5-Valve, complete	27 10 0	14 10 0	3 0 0	1 1 8
Kellogg Wavemaster, 5-Valve with Wave Trap, complete	35 0 0	18 10 0	3 10 0	1 8 0
Neutrodyne 5-Valve in Oak Cabinet, with Battery Compartment, complete	27 10 0	15 0 0	3 0 0	1 2 6
Browning Drake Official R.C. 5-Valve, in Tru-Tone Table Cabinet, complete	37 10 0	20 0 0	4 0 0	1 10 0
Hammuland Roberts Home Built R.C. 5-Valve, in Mahogany Cabinet, complete	33 10 0	16 10 0	3 10 0	1 4 6
Freshman 5-Valve Table Model, complete	29 10 0	16 16 0	3 10 0	1 5 10
Screen-Grid, 4-Valve Factory Built, no Cabinet, complete	32 10 0	18 18 0	3 10 0	1 8 10
Watmel, 2-Valve English, in Oak Cabinet, complete	10 0 0	7 7 0	1 0 0	0 12 0
Silver Marshall, All-wave 3-Valve, in Walnut Bakelite Cabinet. Dry Cell equipment, complete	20 0 0	14 10 0	3 0 0	1 1 8
N.Z.R. 2-Valve, in Cabinet, complete	9 12 6	8 10 0	1 10 0	0 13 3
N.Z.R. 3-Valve, in Black Kauri Cabinet, complete	12 12 0	9 12 6	1 12 6	0 15 0
N.Z.R. 3-Valve, in Rimu Cabinet, complete	12 5 0	8 5 0	1 10 0	0 13 0
Cossor Melody Maker, 3-Valve, Screen-grid, complete	15 0 0	12 0 0	2 0 0	0 18 8
Travler, Portable 5-Valve, complete	27 10 0	15 10 0	3 10 0	1 2 6
Hammuland Roberts 4-Valve with Dynamic Speaker and Wellmayde A Eliminator	33 10 0	25 0 0	5 0 0	1 19 2
Crosley, 6/60, 6-Valve, Mahogany Cabinet, complete	34 0 0	22 10 0	4 10 0	1 13 9
Crosley 804 Jewelbox, 8-Valve, All-Electric, complete	56 0 0	32 10 0	6 10 0	2 8 9
Crosley 704 Jewelbox, 8-Valve, All-Electric, complete	48 0 0	26 0 0	5 0 0	1 19 4
Crosley 42A 8-Valve, All-Electric, complete	45 0 0	38 10 0	7 10 0	2 18 1
Crosley 32 Console, 8-Valve, All-Electric, complete	47 10 0	39 0 0	7 10 0	2 19 0
Airmaster (Australian), 3-Valve, All-Electric, Walnut Cabinet, complete	27 10 0	18 10 0	3 10 0	1 8 1
Aerola, 3-Valve, All-Electric, in Oak Floor Type Cabinet, complete	30 0 0	19 10 0	4 0 0	1 9 1

CROSLEY SETS SUPPLIED TO NORTH ISLAND ORDERS ONLY

ABEL, SMEETON LTD.

Customs Street East, Auckland.
Bank Street, Whangarei.

Taranaki Representative: C. R. RUSCOE, Devon Street,
New Plymouth.

Of Topical Interest

(By "Switch.")

A MELBOURNE radio writer says:—
"The announcer has his troubles, of course. In ordinary conversation, or in some forms of public speaking for that matter, many little mistakes are passed unnoticed. When the self-same slips are broadcast they appear to be much more serious—perhaps because we are not able to see the speaker—and the condemnation is instant and severe."

THE same writer said that almost every "sundowner" (bush tramp) includes a small set in his swag. When he camps at night he erects his aerial, secures his earth connection, joins up his set, and is entertained while his billy boils. A bullock driver had a five-valve set of his own construction connected to an aerial strung round the waggon. As he drove his team, music could be heard coming from the loud-speaker underneath the seat. It is obvious that broadcast listening has made a wonderful hit in the country districts, as well as in the cities, of Australia.

"THANKS for the hint about 'trimming' up A.C. sets," writes "T.M.C." (City). "I found that my set worked better on the longer wavelengths than on the shorter. I thought that the set was O.K., and was quite ignorant about the method of 'trimming' until I asked an expert to give the set a look over. He showed me that there were gadgets inside the set for bringing the volume up to a uniform strength on all wavelengths. Two of my friends who operate A.C. sets were equally ignorant, although they have had their outfits for two years."

"SWITCH" has had confirmation of his surmise that the Miss Ruby McDonald, violinist, who has been performing as a soloist from 2FC, Sydney, was playing in a Wellington picture theatre orchestra some eight or nine years ago. Since then Miss McDonald has toured the Eastern and Western States of America, and appeared at the Princess Theatre and St. Raphael's Auditorium, New York, as a soloist.

THE battery-operated set is still in considerable demand in Australia, according to a letter to hand from a Melbourne friend. He says: "In large country areas which are well populated there is no hope of electrical reticulation for many years to come, and battery sets are selling well. I have met many farmers and their sons who have built their own battery sets, and it was surprising to note how well informed many of these people are on technical radio matters. There cannot be the slightest doubt that radio is playing an important part in making country life more attractive. I rather imagine that with your higher proportion of rural population, the same thing would apply in New Zealand."

DURING the recent drought in America, the U.S. Weather Bureau was deluged with a flood of letters demanding that all wireless activities should cease until the weather broke. Only one letter contained a constructive suggestion. This came from a man who offered to precipitate a downpour by means of a short-wave apparatus of his own invention. The offer was not accepted.



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AN OLD SUPERSTITION

from 4YA

NOVEMBER 1

CONCERT

by

The Dunedin Burns Club

American Short-Wavers

Interesting Information

THE General Electric Company, Schenectady, N.Y., states that the clubhouse erected for members of the G.E. Company's staff includes among its facilities a large gymnasium, with balcony and projection room for motion pictures, an exercise room for wrestling and boxing, an electrically-equipped kitchen, twelve bowling alleys, locker and shower-room for women. Similar facilities are available for the men, billiard-room, lounge-room with fireplace, card-room, ten-range shooting gallery, and finally a roof garden overlooking Mohawk River. The General Electric Athletic Association has a membership of 4500.

Reception of W2XAF strong enough for loudspeaker reproduction is reported from Yokohama, Japan, in a letter by a young Japanese DX hunter, Seichi Nozaki. Mr. Nozaki said in his report to the G.E. Company: "Our country, Japan, has been making great progress in radio during these five years. But we have no short wave radio station, and there are many people in Japan who want to hear America by radio." He gets up at 5.30

a.m., Japan standard time, to get jazz music from America.

The G.E. Company remarked in their letter that "those who look to their radio receiving sets for entertainment only can appreciate the value of radio in the lives of those far remote from daily papers. From time to time WGY, the Schenectady station, which operates two short-wave stations, W2XAF and W2XAD, receives requests particularly from residents of South American countries, to include certain stocks in the list of daily quotations. Many of these requests come from mining engineers stationed at isolated points, who, through radio, are kept in daily touch with news and with financial operations, thousands of miles away.

Peter Kouros, a young Greek living at Amalia, Greece, stated that he gets the signals of W2XAF often, in spite of the early hour, namely, from 4 to 5 a.m.

Wavelets.

No less than 202 amateurs have been prosecuted in Germany during the last two months for not having a license.

We understand that M. van Rillas, director of Philips Lamps, has just been made "Chevalier of the Legion d'Honneur."

The first convention of radio journalists will be held this year in Belgium.

Echo Making

Broadcasting Peculiarity

WHEN Broadcasting House (the B.B.C.'s new London home) is nearly completed next summer, a tremendous task awaits the staff experts (says the "Daily Herald"), a task which will call for six months' hard work and masses of complicated calculations. This is "putting in the echo." There are nine new studios and nine rehearsal rooms, all of which have to have a varying amount of echo, from complete dullness to an echo of as much as two seconds. Hundreds of experiments and careful tests have to be made. A trio in one room may need 1½ seconds' echo to be heard to the best effect, while a large orchestra may need no echo at all. In addition to the permanent echo, the B.B.C. has a means of "putting in an echo" from the control tower for a few minutes or seconds at a time.

Wood absorbs certain notes and rejects others, while steel absorbs what wood rejects, so that a balance has to be struck if the perfect tone for reproduction is to be obtained. Recently, when one studio in Savoy Hill was re-decorated, it took three weeks to restore the right degree parts of echo.

Ingenious Television Devices

To Aid Navigation

PIONEER work in television is proceeding steadily, and scientists are now discovering varied theoretical applications of this new science, in fields far removed from those of mere entertainment. For example, Dr. Robinson, a prominent English research worker, has already patented a method of transmitting directional bearings in visual form to a vessel at sea.

Thus, instead of depending upon the variation of signal strength in different directions as an indication of the bearing of the incoming beacon signals, the ship carries a television set and receives the picture of a diagram representing the various points of the compass. At the point occupied by the ship, the scale is "gapped" or broken, owing to the directional effect of the frame aerial in reducing the received signal strength to zero. Thus the navigator is given a visible indication of his exact bearing. By using this method, the effect of interfering signals and atmospherics, which often seriously mask the critical minimum point in the usual type of wireless direction-finder, is substantially reduced.

A still more ambitious application of the visual system is being developed in American to assist aviators to land at an aerodrome during fog. Here the position of the aviator is determined by direction-finding apparatus installed at the aerodrome, and televised back to him as an image of the aeroplane superposed on a background showing the actual topography of the landing ground.

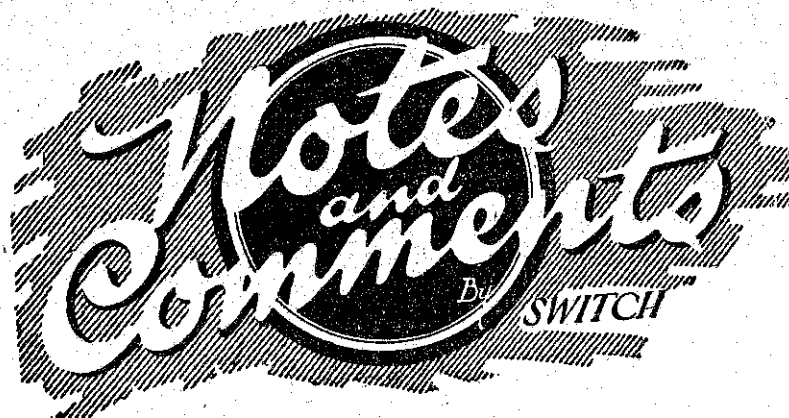
In the received picture the image moves over the adjacent trees or other obstacles in exact synchronism with the passage of the aeroplane.

"BIRD-LOVER" (City) offers a suggestion that some cage-bird fancier might be induced to give a talk from 2YA on the care of cage birds—canaries in particular. He offers the opinion that a good "roller" canary could be placed near the microphone "to give listeners an idea of the charm of owning such a bird." "Switch" is not a bird-fancier, but possibly the "turn" would prove interesting to a large number of listeners.

DURING the community singing in the Ashfield Town Hall, broadcast by 2FC, Sydney, recently, a particularly fine vaudeville act was put on by a bird and animal mimic who has toured New Zealand when vaudeville was the vogue. The performer is an elderly man who posed as "Poincaré," a Frenchman, on the stage. He delighted the Ashfield people with his realistic imitation of bird-calls and warblings, and also of farm animals and a lion.

ON Saturday, October 25, the New South Wales State Parliamentary elections will take place. At present Labour is out of power in New South Wales, and, headed by Mr. Lang, is endeavouring to recover the reins of Government. Progress results of the election will be broadcast by 2FC, Sydney, every half-hour from 11 p.m. till 1.30 a.m. Sunday (New Zealand daylight saving time), and from 2BL, Sydney, every half-hour from 1.30 a.m. Sunday until 4 a.m. Sunday, also New Zealand time. Towards 2 a.m. Sunday an analysis of the position will be broadcast from 2BL, Sydney, and relayed to 4QG, Brisbane, and 3AR, Melbourne.

THE other night a turn-out of the Melbourne fire brigade was broadcast. A commentator and microphone were placed inside the station. When the alarm was given the scene of bustle was vividly described, and the fire chief stood close at hand answering questions put to him by the man at



the microphone. Every detail was well explained, and even when the fire-engine motors roared as they rushed out of the station "Switch" could hear every word quite distinctly.

also receives many appreciative letters from New Zealand. To some of these he replies over the air. He is beyond comparison as a director of community singing, and a born comedian.

RECENTLY "Switch" listened to a most enjoyable concert from 3LO, Melbourne, by the Victorian Professional Orchestra. This combination performs under the baton of Gustave Slapoffski, the well-known operatic conductor, who in past years toured New Zealand with the J. C. Williamson companies.

"BRANDO" (Kelburn) drops a line to ask how thick his "earth" wire should be. The wire should not be of less than 14 gauge if a single wire. It cannot be too thick. Some listeners use the heaviest cable they can procure, and it is generally stranded.

SEVERAL inquiries have reached "Switch" lately as to the identity of the gentleman who directs the community singing at the Ashfield Town Hall, Sydney, relayed by 2FC, Sydney. A Mr. Charles Lawrence officiates, and he is not only popular in Australia, but

A LETTER from a juvenile listener was received recently by one of the "Uncles" at 2YA, Wellington, stating that the kiddy's cat always jumps up

Reception Table for Australian Stations

FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2LB, Sydney	9
4QG, Brisbane	8
3LO, Melbourne	7½
3AR, Melbourne	7
2GB, Sydney	6½
2UE, Sydney	6
3UZ, Melbourne	4
3DB, Melbourne	4
7ZL, Hobart	3½
5CL, Adelaide	3
6WF, Perth	2
2KY, Sydney	1½

The above figures are the points assessed, with 10 as the maximum.

on the arm of the sofa when the children's sessions are on the air, and seems to enjoy the items. When "Spot," the sportive terrier, which performs before the 2YA microphone, barks the cat "swells her tail up as big as a rolling pin," according to the letter received.

AN Oriental Bay (Wellington) listener informs "Switch" that he has found a new kind of "howler" in his area. He says he will be enjoying an "outside" station when a cat-like howl will cut in on the music and spoil reception. The correspondent states: "This particular 'howler' is easily identified, having an entirely different note to the usual, and I think the radio inspectors would have little difficulty in locating him."

A CORRESPONDENT, "Hatch" (Kilbirnie), writes: "Thanks for the hint you gave to those who describe wrestling contests, but I don't think you went far enough. There is one of

these gentlemen who constantly annoys us with the persistent use of the words 'I' and 'me.' Even if he is thirsty he discloses this portentous fact. All this sort of thing is rank amateurism, and it is time these gentlemen should be told about it. The cackling, puerile laughter when the wrestlers amuse them is not at all entertaining to listeners, and commentators should learn self-control."

ONE type of "crank" whom many listeners would be overjoyed to locate is the individual who on Wednesday nights, when 2YA, Wellington, is silent, tunes from station to station, "howling" continuously in a vain attempt to get distant reception. He has only to tap his aerial lead-in with a moistened finger to ascertain if his set is oscillating. If it is he will hear a loud click in his loud-speaker or headphones. The persistence of this "howler" is amazing, considering that he can receive no station clearly while his set is oscillating.

Use Our Booking Offices in Advance

S-O-S

TRAVEL IN COMFORT BY CAR

WELLINGTON — PALMERSTON
NEW PLYMOUTH

BARGAIN CORNER

Prices good for one week only (we have surplus stocks of these lines).

1. Pilot Triple Gang Condensers, No. 8117/3. Each condenser .00035 Now 8/6 each
2. Cossors 610 L.F. Valves. UX Base. 6-volt .1 amp. Usually 13/6. Now 5/- each.
3. Pilot Double Drum Dials. 7/6 each.
4. 4in. Bakelite Dials. Black; marked 0/100 degrees. Reduced from 1/6 to 6d. each.
5. Single circuit Jacks 9d. each.
6. 1, 2 and 3 Meg. Polymet Grid Leaks. Were 1/6. Now 1/-

THE

Electric Lamp House,

Limited

27 Manners St.,
WELLINGTON.

Labour Day, 1930

RAILWAY FARES CUT FOR HOLIDAY TRIPS.

From October 24 to 27 inclusive, Railway fares will be reduced by approximately 6/- in the £. Tickets are available for return until November 22.

Father and mother and ALL their children under 16 years of age, travelling second class, require only three whole tickets for their journey.

Book Your Holiday Trip any time Ahead.

Address and Addresses Wanted.

"WISEMAN" (Gisborne): Address of WLW is Crosley Radio Corp., Cincinnati, Ohio; and of KGO, General Electric Co., Oakland, Calif.

"Willie" (Timaru): WENR, Great Lakes R.B.C., Chicago, Illinois. KOIN, Inc., Portland, Oregon. KFVB, Warner Bros. Broadcasting Corp., Hollywood, Calif. KTM, Pickwick Broadcasting Corp., Santa Monica, Calif. KGER, Merwin Dobyns, Long Beach, Calif. KFOX, Nichols and Warriner, Inc., Long Beach, Calif. The addresses you already have for the Japanese stations are sufficient. Addresses of New Zealand stations are published elsewhere.

Identification Wanted.

OCTOBER 9, at 7.50 p.m., apparently an American, on 51. 3LO on 48. KGO on 49. Gramophone record, "I Love You So Much."—"Wiseman" (Gisborne).

October 8, 9.25 p.m., dial 9, 9, 14 (2ZL 13, 14, 16). Items heard: 9.58 p.m., "Mary of Argyle." 10.5, "Rio Rita." 10.20, "Barnacle Bill" and "Gay Caballero." Station closed down at 11.30. Call was —, Chicago. October 9, 7.15 p.m., just below 2KY. Items heard: (1) Children singing "Loch Lomond"; (2) piano solo; (3) mandolin solo ("Annie Laurie"). No call heard—"Clematis" (Raurimu).

At 10.45 p.m., October 9, heard two strangers, 2 degrees below 4QG, near an unknown Jap. I was tuning out the latter's whistle, lost him, and heard the strangers. One was clear and the other mushy, with plenty of static. A concert was in progress. A lady was singing, followed by a cornet solo and another song. A boy was singing from the other station—"Mark" (Dunedin).

On October 8, 9.45 p.m., on 222 metres (1350 k.c.), call 4—K, Brisbane. Advertisements appeared between items, the Carlton Club Cabaret being mentioned.—B.J.B. (Waipukurau). [Probably 4BK, Brisbane. See "DX Topics."—Ed.]

NEWS AND VIEWS OF THE D.X. CLUB

Two degrees below 2ZL, broadcasting "Midnight Waltz" at 9.55 p.m., on October 11, and "Hungarian March" at 10 p.m. on October 12. Sounded like 4BK, Brisbane. Stations heard at 1.15 on October 16, 1 degree below 2YA, one 2½ degrees above 3AR, and one 1 degree below 2UB. Also on October 17, 3 degrees below KTAB, Oakland, station playing, I think, "Over the Waves." All at weak speaker strength. At 9.30 p.m. on October 16 heard a foreigner 3 degrees below 2YA at good speaker strength.—J.C.S. (Beckenham).

On 340 metres (880 k.c.), just below JOAK (not 7HO), heard on October 4, 9.30-10 p.m. It was a foreigner, but not a Japanese. A mandolin solo was heard. Another on 300 metres (1000 k.c.), not 5DN, at 10 p.m. A three-letter call was given, and music that sounded Chinese.—R.J.R. (P.N.).

On October 8 at 11 p.m., foreigner a fair speaker strength. Announcements in English. Items: 11.2 p.m., chimes and clock struck one. Request for reports. 11.24 p.m., stringed instrument with piano accompaniment. 12 p.m.: "Allo, Allo," followed by talk in English, mentioning Australia, the R101 disaster, annual Labour Congress, followed by a talk in foreign tongue until 12.15 p.m. Operating on 49 metres.—H.W.Y. (Auckland).

Short-wave on October 10 on approximately 14 metres. Another on 12 metres, (approximately), at the same time, broadcasting records. Also a foreigner on 77 metres broadcasting music, with clapping between items. Station on 38.5

metres broadcasting music on October 12. Another on 22 metres broadcasting music at 10.30 p.m. on October 11. Station heard on music half degree below W2XAF on October 11.—J.C. (N.P.).

Short-wave on October 16 on about 49 metres. First heard at 10.15 p.m., when a children's story was being told. A lady sang, and then it was announced that they would continue with Parlophone recordings. Nine records, including "Can't We be Friends," "When the Real Thing Comes to You," "Lovely," etc., were heard. The announcer then asked listeners to stand by for the seven o'clock chimes, which were followed by

below 4YA is WSM, Nashville, 461 metres (650 k.c.). "Keijo" (Invercargill): 3JG, Camberwell, 214 metres (1400 k.c.). GOW, Hong Kong, 300 metres (1000 k.c.). There is a station 2MO on 200 metres (1500 k.c.). Mr. Olivier, Gunnedah, N.S.W. "Radio Boy" (Oamaru): 3BF, Elwood, 243 metres (1235 k.c.). Heard this station on date mentioned. B.W. (Stratford): 5DN, Adelaide, 319 metres (940 k.c.).—Norman C. (Queenstown): Probably KPQ, Seattle, 243 metres (1210 k.c.). 1 k.w. Heard 5WS, Adelaide, on 245 metres (1225 k.c.) recently. C. Cooper (Timaru): Probably 2AY, Sydney, 227 metres (1320 k.c.), and 3YX, Gardenvale, Victoria, on 223 metres (1345 k.c.). J.L.D. (Clyde): Would you let me have your address, please?—R.J.R. (P.N.).

Details of 5AD, Adelaide, are as follows:—Wavelength, 229 metres (1310 k.c.); power, 1 k.w.; broadcasting hours, 3 p.m. to 5 p.m., Monday to Friday; 6 p.m. to 11 p.m., Saturday; 6 p.m. to 10 p.m., Sunday. Address: Advertiser Newspapers, Waymouth Street, Adelaide.—M.W. (Wellington).

B.H.B. (Masterton): Station on 4QG is WBBM, Chicago. Norman C. (Queenstown): Station on 250 metres (1200 k.c.) is KEX, Portland, Oregon.—W.L.P. (Pahiatua).

"Ajax" (—): VK2ME, Sydney, operates on 28.5 metres in the morning and early evening on telephony with GBP, London; on 37.5 metres on Friday nights with PLW, Java, and occasionally on 18.37 metres with Java. I do not know of a short-wave station 2UW. 3UZ was once on short-wave every Saturday night.—J.C. (N.P.).

R.G.N. (N.P.): CFON, Calgary, Alberta, Canada, owned and operated by the William Grant Company. It is one of the most powerful of the Canadian stations and is thoroughly up-to-date. Station CJCA is owned and operated by the "Edmonton Journal" newspaper, Edmonton, Alberta, Canada, and has half the power of the other heard. It may be heard in communication with stations in the Arctic regions on Sunday evenings. Another good Alberta station is CFAC, operated by the "Calgary Herald" newspaper. Would R.G.W. communicate with me? I know most of the stations on the American continent as I listened to them all years ago from Edmonton, Alberta.—A. A. Hassan (Bay of Plenty).

DX TOPICS.

A New Australian.

RE station 4BK, Brisbane, reported by me in last week's issue. This station was heard again on October 12 at R7-8. 2HD was slightly overlapping it, but all announcements, some by a lady and some by a gentleman, came through clearly. The programme consisted of gramophone records, after which the station passed over to relay a church service. J.A.L. (Wellington) appears to have heard it also on the 5th. Re the station above Dunedin mentioned by "Switch," I have heard this on numerous occasions, but have been unable to get the call. It is certainly not Hamilton. On the 16th it was just audible, all speech being in French. I thought it was possibly a new Jap, as they were delivering lessons in French for the first part of their programme, but on twisting over quickly the speech heard was quite different. Another station, probably an American, was heard 2½ degrees above 4YA.—H. D. Hunt (Nelson).

The Mystery Stations.

I HAVE received five of the early-morning stations at good strength, but have not identified them. On October 11 and 12 I heard two without much static. They came in at 280 metres (1070 k.c.) and 394 metres (760 k.c.). On the former a lady and gentleman were speaking and appeared to be conducting a children's session. On the latter a man was speaking all the time.



MR. DAN FOLEY.

A Wellington tenor, whose renderings of theme songs from well-known talking films are sure to prove popular with listeners this week.

—S. P. Andrew, photo.

weather, stock and market reports, money amounts being given in dollars and cents. Is KZRM, Manila, identical with KIXR?—"Query" (Te Awamutu).

Seattle station on approximately 215 metres (1390 k.c.), on 16/10/30 at 8.30 p.m. (New Zealand S.T.), R7, static bad. Address R—, Hotel —, Studios, —Street, Seattle.—E. W. Anglesey (Nelson).

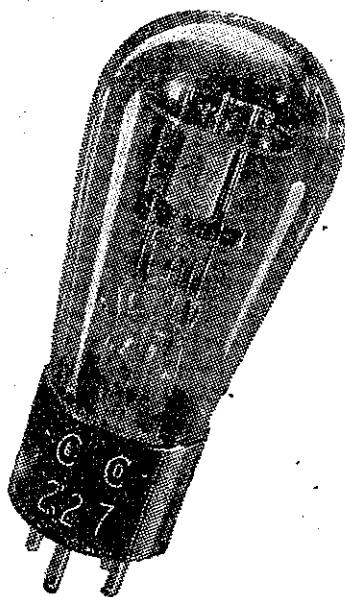
Stations Identified.

J.C. (N.P.): VK2JF does exist, and I have a report ready to post when I get address. HS2PJ is on 29.5 metres, and HS4PJ on 37 metres. Station re-broadcasting WABC is W2XE, New York. Station with call WGY is W2XAF, Schenectady. "Keijo" (Invercargill): Foreigner on 22P's frequency is JODK, Japan.—"Metre" (Huntly).

J.L.D. (Clyde): Station heterodyning 4YA is KFI, Los Angeles. G. Cooper (Timaru): 5AD, Adelaide, is on 22P's (Hastings) frequency. I.H. (Auckland): Station you heard testing on 1320 k.c. on September 28 was also heard by me between 6.55 p.m. and 7.30 p.m. Strength R5 on speaker, very clear with stringed musical items and speech. Heard again on October 6. No call given either time. B.W. (Stratford): KEX, Portland, Oregon.—(—).

B.H.D. (Masterton): Probably KVI, Tacoma. J.T.S. (Napier): Probably 3ML, Malvern, Victoria, on 202 metres (1480 k.c.). J.L.D. (Clyde): Station

MUSIC sounds better through CeCo VALVES



THE zum-zum of the big bass viol, the shrill treble of the tiny piccolo and the stirring blare of the brass are all blended into a beautiful tone picture by the waves of the conductor's baton. To receive these harmonies in all their original richness of quality and tone—use CeCo Valves.

We give every CeCo Valve 64 tests to make sure that they will bring to your loud speaker the true tones exactly as they are broadcast. Try a complete set of CeCo Valves in your set and hear the difference in clarity, and tone quality immediately.

CeCo Valves have longer life.

CeCo RADIO VALVES

Write to-day for free booklet "O"
Bond & Bond Ltd., P.O. Box 331, Auckland.

G4-QP

As far as I could judge both stations were using the same language.

The following is an extract from a letter from KRLD, Dallas, Texas: "During the past week we received five letters from your country, whose reception we were able to confirm. One item that might be of interest to you is the fact that your letter was brought to America by the s.s. Tahiti. The passengers and a little of the mail was saved, yours being one of the letters. The letter came to us stained by the sea water but still legible, and with the explanation of its remarkable history printed outside by the postal authorities. A feature story is to be carried in the 'Times-Herald,' the newspaper owning this station, this Sunday, with a reprint of your letter and its story." KSL, Salt Lake City, advise that they are putting on an organ broadcast from the famous Tabernacle, especially for this part of the world. It will take place at an early date between 7 and 8 p.m., New Zealand time.—W. L. Peters (Pahiatua).

Some Seldom Heard Stations.

MR. A. GREENING, of Feilding, has forwarded the following notes on stations on the broadcast band received on an eight-valve battery set: "I have received verification from the following stations: CKCK, CFBO, OAX, VCIA, COMK, VUB, XEI, XEN, ZIJ. All these stations are on the broadcast bands and make interesting fishing. Last week I added a few new stations to my list as follow: KFUM, WREN, VWVA, WMC, WPG, KPRC, KSAT, WIOD, KOMO, KTW, WEEB, VK's: 2KL, 3AU, 3AM, 3ES, 3KU, 4ZW, 2AO, 2AK, 2CZ, 3MM, 4JL, 5WO, 7LJ, 2AY, 2KZ, 3TR, 4MK, 5AD, 7HO, 7LA. In the early morning from 5.30 a.m. till 7.40 a.m. I have traced out the following: 1RO, 411 metres; a Berlin station on 283 metres; Munchen, 532 metres; and RV43 on 366 metres."

A Thoughtful Offer.

EARLY in the New Year I am going overseas and will continue to take an interest in radio. Should I receive any items of interest at foreign stations visited I will be only too pleased to pass them on to you for benefit of radio enthusiasts in New Zealand.—M. Walker (Wellington).

[We are sure that DX-ers will be keenly interested in any such reports you care to send along.—Ed.]

A Guinea for a Report.

OVERSEAS broadcasting stations seem to appreciate very much reports sent in to them from New Zealand listeners. Recently WTAM Cleveland, Ohio, sent me a copy of the "National Geographical Journal," which had a full account of the doings of the Byrd expedition in the Antarctic. From KGMB Honolulu I received a courtesy card extending the complimentary use of its station at the Royal Hawaiian Hotel studios, and from 4BC Brisbane a cash prize of one guinea for a report on a special transmission, my report being from the greatest distance. My latest loggings are KDYL Salt Lake City, 2ZL Hastings, 2ZM Manurewa, and 6ML Perth. I would like to get in touch with "Keijo," Invercargill.—H. Walker, Marine Parade, Bluff.

I RECENTLY received verification from RV15 Siberia on 72.2 metres. The power has recently been increased to 15 kw., and also operates on 35 metres every day with a power of 2 kw. This proves that it is not RV15's harmonic which has been heard on that frequency. I also received a card from KGMB Wai-kiki, which allows me the free use of that station.—E. W. Anglessey (Nelson).

I HAVE picked up quite a few new Americans lately, including KVI, Washington; KYW, Chicago; KGDM, Stockton; and KGA and KHQ, Spokane. On October 9 I received WJZ, New York, testing on about 293 metres (1020 k.c.).

I have received several verifications from New Zealand stations lately, the latest being 2ZD and 2ZQ, Masterton. According to the former's card they are on a power of only 2½ watts. Atmospheric conditions during the past week have been very unfavourable after nine o'clock. Has anyone noticed a bad surge on all Americans below 220 metres (1360 k.c.) lately? Some nights it is not so noticeable. The foreigners broadcasting in the early morning come in quite clearly at times, but as yet I have been unable to hear sufficient to identify them.—V. Cuncliffe (Nelson).

ON October 12 the Americans were coming with rare volume and clarity, and I logged three or four new ones, and one Canadian, giving the call-sign CFON, Calgary. KGW, Portland, Oregon, 484 metres (620 k.c.) (right on 3AR), was heard at R6. WHAS, Louisville, 365 metres (820 k.c.) (just above KOA); WCCO, Minneapolis, was received at R9 on the speaker and was found just below 3LO. Then WCOA, 223 metres (1340 k.c.), was R6 and located



MISS SHEILA NEILSON.

Of Dunedin, a clever elocutionist, who, on October 31, will direct the presentation by "The Sketchers" of two half-hour plays. Photo, Artlite.

just above 2HD. I have been listening consistently to the 5 a.m. stations, but have got no further ahead concerning their identification. One morning I heard as many as twenty stations operating, but fading was the chief complaint. I have recognised the language spoken in one or two cases, and of the two stations, one on 440 metres (680 k.c.) and one on about 463 metres (646 k.c.), I take the former to be of German and the latter of French origin. Short-wave reception appears to be improving, too, and on October 13 I heard as many as four unidentified stations on 49 metres, 40 metres, 31.48 metres and 29 metres respectively. Did any DX enthusiast enter for W9XAA's contest? I listened-in from 4 p.m. to 10.30 p.m. and sent in a report covering every item. Static was the troublesome feature toward the close of the broadcast, and this, coupled with somewhat severe gushiness, made conditions anything but pleasant. However, the 10-valve long and short-wave super-heterodyne, not to mention numerous other valuable prizes, proved too much of a draw for me. Is there a Chinese station operating on about 420 m. (712 kc.) or just above 2YA or another on 480 metres (625 kc.)?—"Unconscious" (Timaru).

Australian "B" Class Stations

Recent Additions

DESPITE the financial depression at present existing in Australia, the number of "B" class stations operating in that country has been increasing regularly since the inception of broadcasting. This appears to indicate that however bad times may be, broadcasting will always prosper, for people realise the cheapness of such a varied means of entertainment.

The first "B" class station to be operated in a country city or town in Victoria is 3BA, Ballarat—"The Voice of the Garden City"—as its slogan proclaims. Although on the air only since August 1, the new station has already received reports from all over the Commonwealth, and even from so far afield as New Zealand. In view of the comparatively low power—50 watts is put on the aerial—this is a splendid achievement.

The station is situated in the Commonwealth Bank Buildings, at the corner of Lydiard and Sturt Streets, and broadcasts on a frequency of 1300 k.c. (230.8 metres). At present it operates nightly from 9 p.m. to 12 p.m., and on Saturday nights from 12 p.m. to 1 a.m. on dance music (New Zealand Summer Time). The station is on the air on Sundays from 3 p.m. to 5 p.m.

Another "B" class station which has been frequently logged by New Zealand listeners, despite the distance intervening and the low power used (500 watts), is 6ML. This is operated by Musgrove's Limited, the Music House, Perth on a frequency of 1010 kilocycles (297 metres), and is on the air from 9 p.m. to 12 p.m. (N.Z.S.T.) on week days.

EBONITE panels should not be stood on end against the wall, but should be laid flat on a level surface.

"Safety First!"

Children's Essay Competition

RECENTLY the Australian Broadcasting Company, in association with the Royal Automobile Club of New South Wales, invited essays from children on the meaning of "Safety First," offering a gold medal as first prize. Of the hundreds of essays received, none, perhaps, moved the adjudicators more than that sent in by a small seven-year-old girl, who wrote with her left hand, because the right side of her body was paralysed.

She was awarded the gold medal for her excellent attempt, and for her pluck in entering a competition with children in much more favourable circumstances, was given a special prize of one guinea. The presentation ceremony, which was broadcast, took place in the 2FC studio, and the little fair-haired cripple made a short speech of thanks, in which she stated she was going to keep her money until Christmas.

Dirt-track Broadcasts

A FEATURE of the Saturday night programmes from 2BL, Sydney, shortly will be a broadcast description of the dirt-track speedway racing. It is interesting to learn that this sport, which now enjoys world-wide popularity, originated in New South Wales about two years ago. Since then wireless has played a prominent part in its development, both in Australia and England.

"Radio Record and Electric Home Journal"?

12/6 in Advance; 15/- Booked.
BOX 1032, WELLINGTON.

Trickle Chargers ! ! !

We have landed limited supplies of "BALKITE" Trickle Chargers, suitable for charging 4-volt or 6-volt Batteries at .65 to .5 amperes.

These were formerly £3/10/- each
Special Price, 32/6 each, Post Free

Thos. Ballinger & Co. Ltd.,
58-62 VICTORIA STREET, WELLINGTON.

"Where the Quality Goods are Sold"

Final Instalment of

The Direct Current Eliminator

"By MEGOHM"

THE essential alteration that must be carried out in an existing receiver is to series the filament wiring. The other important point is to isolate the aerial-earth circuit from the rest of the receiver circuit. In the Hammarlund-Roberts type of set all that is necessary is to cut the connection between the aerial primary coil and filament wiring. The earth terminal will now be connected to earth, and from it a wire will also run to the earth terminal of the eliminator, or the terminal may be connected to the filament wiring, and nearest the earthed main, through a 1 or 2mfd. condenser.

The Browning-Drake aerial circuit will require a little more attention. It will be necessary to make an aerial primary coil, preferably on a celluloid collar of such depth that it may rest inside the secondary coil with the lowest turn level with the lowest secondary turn. The diameter of the coil should allow it easily to drop inside the secondary when the necessary 18 turns of 24's d.c.c. wire are in place. If it is likely to touch the turns of the secondary coil, give to the primary two or three coats of shellac. The top of this coil connects direct to the aerial without series condenser—it will be very selective—and the lower end is connected to the earth terminal, which connects to no other parts. The earth wire then connects to this terminal, and also runs to the eliminator earth terminal, or through a condenser to filament.

The idea to be aimed at in construction is to arrange that all "life" parts, terminals, etc., are safely enclosed so that the chance of an unpleasant shock may be avoided. This is important, and unless carried out, the receiver will not comply with the Electrical Regulations.

A minimum size for the baseboard to contain the smoothing condensers and chokes would be 9in. wide and 7in. deep. This should be strengthened with narrow battens underneath, 1in. high, to allow plenty of room for the 180-ohm, filament resistance. It is presumed that a lamp will be obtained for the 400 ohms, and for this a batten type holder is provided in series with the 180 ohms. The insulated leads may all be well protected and emerge from the case through

of base all round. Into this the cover drops, the front and back of which are 1/2 in. short at the bottom to allow ventilation for the resistance under the board, which is sure to warm up a certain amount. It would be wise to line the under side of base with iron near the resistor. Corners of the sheet-iron are secured with rivets.

Choke Construction.

CHOKES A is for plate smoothing and will have an inductance of fully 30 henrys when passing 10 m.a. The core is to be built of 1in. stalloy to 1 x 1 on the same plan as choke B, the lengths of the four pieces

of 26 swg enamelled wire, and have a d.c. resistance of 10 ohms, giving a drop of 2.5 volts each with 25 amp. passing. Formers for these are easily made from 1lb. wooden wire spools by sawing one end off, then shortening the core to 3-in., then attaching the free end with a couple of thin screws.

The object of these is chiefly to reduce interference from sparking of commutators, etc.

As a general rule, the less smoothing there is in the filament circuit the more must the audio amplification be kept down in order to minimise noise. "Spare the chokes and spoil the job."

The position of radio chokes is shown in the diagram by circles with the letter "R" but their resistance is not taken into account.

Earthed Positive Main.

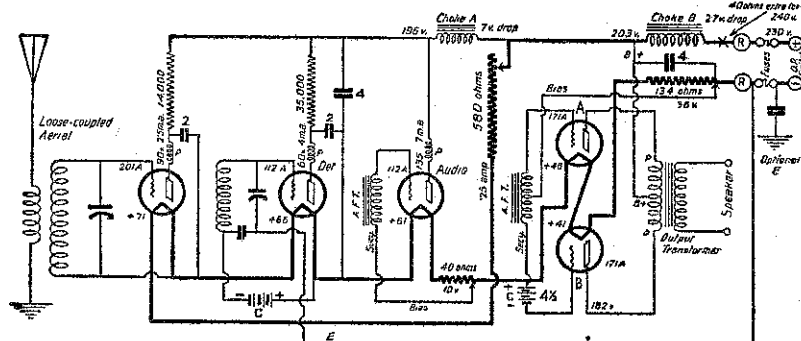
ALL the foregoing circuits have been described on the assumption that the negative main is earthed, and smoothing chokes have accordingly been placed in the positive lead. When the positive is earthed, the choke should either be transferred to the negative lead, corresponding position, or a choke placed in the negative lead also—this is often done on "rough" mains. Where there are separate chokes for filament and plate supplies, only the filament choke need be transferred to the negative side. This transfer does not affect the total resistance of the circuit, and if placed close to the negative terminal the amount of resistance represented by the choke can be deducted from the 171 bias resistor. With a 27-volt drop in the choke, 8ft. 9in. of resistance wire is all that would be required in addition. The bias connection would be to the negative end of the choke.

When the positive is earthed, no attempt must be made to earth the negative through a condenser, but the positive side may be thus treated. It is inseparable from d.c. operation that earthing through different values of condensers should be tried if hum is experienced; Conditions vary more on d.c. lines than on a.c., because d.c. motors all run with commutators, the brushes of which "spark" more or less, causing r.f. interference, which may also be produced at the powerhouse.

When using a "B" eliminator only, remember to connect "B" to "A" and once again, don't forget the loose-coupled aerial.

A double-pole switch and fuse in each line must be provided where the supply current enters the receiver or eliminator. When a d.c. eliminator is used on a receiver with a metal chassis or cabinet, all direct connections between filament and chassis or screens must be dispensed with, and the connections made through a condenser. In some cases it will be necessary to add insulating bushes for condenser spindles, etc.

If there is any difficulty in finding the polarity of the mains, construct as if for



D.C. Operation—Plate and Filament Supply

a notch in the tray and corresponding notch in the cover, which has four sides and no openings, unless a few holes are found to be necessary in the top for ventilation. The diagram shows sufficient of the arrangement to enable constructors to proceed without any uncertainty. The plate resistors are shown in the eliminator, but may be put in the receiver if desired, in which case the 2mfd. condensers must go with them.

The baseboard fits into an iron tray with 1in. sides turned up, 3/4 in. clear

of stalloy being 2 5/8, 2 1/4, 1 5/8 in. respectively, a 1in. pile of each, requiring just under 2 dozen 3ft. strips of stalloy. Run a strip of thin cardboard across not exceeding 1/64th thick for a gap. Spool 1 1/2 long inside, ends 2 x 2. Note that 1 x 3-8in. wooden clamps overlap at XX. Carries up to 50 m.a. The d.c. resistance is 484 ohms. Voltage drop, 50 m.a. 24 volts, 25 m.a. 13 volts, 10 m.a. 5 volts.

Those who wish to purchase a ready-made choke should obtain one similar to the Ferranti B1 type, 500 ohms, carries up to 100 m.a. Carrying 20 m.a. the inductance is 33 henrys and volts dropped 10, 50 m.a. 18 henrys and 25 volts drop.

The Ferranti B2 has a lower inductance and carries up to 150 m.a., with a d.c. resistance of 145 ohms. Carrying 40 m.a. the inductance is 8 henrys and drop 6 volts; carrying 90 m.a. the inductance is 6 henrys and drop 14 volts.

Choke B is for filament current smoothing. This type of choke cannot be purchased ready-made, so must be made by the constructor himself or by a radiotician. A diagram shows shape and dimensions of the core. The winding consists of 5000 turns of 26 s.w.g. enamelled wire, which should be wound in layers with paper between. The spool is 3 1/2 in. long inside, and ends 3 1/2 square. Cardboard 1-16in. thick across ends for gaps. Note that clamps overlap to hold both portions together. Carries up to 4 ampere.

Radio-frequency chokes for insertion in the main leads consist of 1000 turns

Constructing a Container.

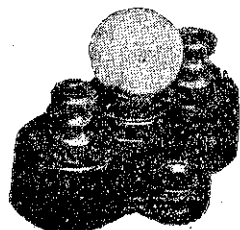
WHETHER the plate resistors are placed in the receiver or not, most constructors will favour the idea of a separate housing for the smoothing chokes and condensers. This should be constructed of thin sheet-iron, which is cheap, strong, and easily worked, a neat job being obtained with a final coat of duco or black sapolin.

DON'T SNUFF OUT YOUR SET OF VALVES

PROTECT THEM!

They Cost More Than the New
Competa Special Low
Consumption
FUSE BULB

For 2, 4, or 6 volt Valves .. 1/- each
Bakelite Fuse Holder .. 1/- each
B.T.H. Headphones 18/-
Laker Shock Absorber Aerial
Insulators 2/-
J.B. Neutralising Condensers for
Browning-Drake Sets 4/6
Ever-ready 9-volt Bias Batteries
1/8 and 2/6
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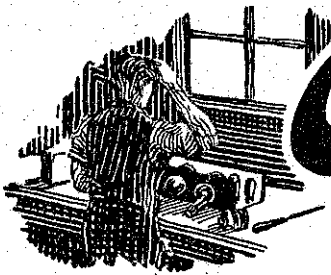
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Sorbo Ear-pads, Per pair 1/6
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F. J. W. FEAR & CO.

42 WILLIS STREET

WELLINGTON.

PHONE: 41-446.



Questions and Answers



W. MACA (Heretaunga).—Can a six-volt battery charged be used as an "A" eliminator for four-volt valves?
A.: Yes, you will need to incorporate a 30-ohm rheostat.

ALL Electric (Auckland).—How many turns will be required on a standard six pin former tuned with a .00025 condenser to cover the broadcast band?
A.: You will require 72 turns of 24 gauge d.s.c., with 25 turns tickler, which should oscillate quite well on the broadcast band.

A. MATEUR (Wanganui).—How many turns of 26 d.s.c. would be needed on a 1 1/2 in. former with a .00035 condenser?
A.: Secondary 75, primary 25.
2. How many turns of the same wire using a .00025 condenser?
A.: Secondary 120, primary 40.
3. Using 32 d.c.c. s.w.g. for the primary 26 d.s.c. for the secondary, and 36 enamelled for the tickler? Secondary on a 2 1/2 in. former.

A.: Taking it that you will be using a .00025 condenser, secondary 100, primary about 40, but it will vary according to the valve used, and the tickler about 35.

4. My set is not as sensitive as it was when I bought it, and the tone becomes harsh and screechy.

A.: It sounds as though the valves want renewing. A set of valves should last 100 hours.

5. The earth wire is very long.
A.: A long earth is sometimes more of a disadvantage than an advantage. Remove it, and see if the set goes better, otherwise try to shorten the lead.

CONDENSER (Hamilton).—I am not having success with my shortwave set. I can receive only amateurs and four or five stations.

A.: Are the amateurs on telephony? If they are Morse, then you do not have the knack of tuning your set, which must not oscillate when telephony is required.

2. I am using a 201A valve, 45 volts on the plate.

A.: Perhaps one of the special detectors in the A415 class would be better. Try removing the earth.

A. H.H. (Otakiri).—Can a listener calibrate his dials?

A.: Yes, it can be done by a herodine wavemeter or more simply by plotting a graph. Take a piece of squared paper, choose suitable units for metres and dial settings, and plot points for the stations you receive. You must, of course, know their wavelength, and the dial setting. By connecting these points, the wavelength for any particular dial setting can be found by tracing the line representing that setting through to the curve, and from that point, down, to the wavelength.

2. From where can the diagram of the Ultimate Receiver be obtained?—Radio Limited, Anzac Avenue, Auckland.

J. S. (Wellington).—I cannot receive the American stations. Why?

A.: You are probably shielded by nearby hills. It has been the writer's experience that the city of Wellington varies remarkably as far as reception is concerned. American stations can be received quite well in one point, while



Mr. Leon de Mauny,
Conductor.

FINAL CONCERT OF THE Wellington Symphony Orchestra

1930 SEASON

will be relayed from the
WELLINGTON TOWN HALL
SATURDAY, NOVEMBER 1.
Commencing at 8 p.m.

Part 1

Flying Dutchman Overture Wagner
Symphony in D Minor Cesar Franck

Part 2

Nut-cracker Suite Tchaikowsky
Variations Symphoniques Cesar Franck
Berceuse Jarnefeldt
Praeludium Jarnefeldt
William Tell Overture Rossini

in another a mile or so away they cannot be heard.

2. Is the enclosed sketch of aerial and earth correct?

A.: Your sketch is very difficult to decipher, and it appears that you have a very long earth. Your best plan would be to drive a pipe into the garden as near as possible to the window.

W. S. (Dunedin).—How many turns are required on valve base coil using 24 gauge d.c.c. for primary and secondary and 30 gauge for the tickler? The condenser .00025.

A.: Primary 80, secondary 180, tickler 75, but the coil will be a bad shape. Use finer wire.

SWITCHBOARD (Gisborne).—I have rigged up a switchboard to use several speakers. When two of the three are shut off and the third one in operation I can still hear signals in those two faintly.

A.: This is quite in order. If strong signals are available it will often be noticed that signals can be received faintly by connecting only one terminal.

2. What is the most suitable length of wire to be stretched from pole to pole in my aerial, which is 30 feet high?

A.: About 70 feet.

R. B. (Port Chalmers).—Some time ago I wrote you, but did not receive a reply. Do you know anything about the machine?

A.: We are sorry about your reply: you are recorded as having been replied to, but we cannot trace this in the paper. We do not know anything about the machine and advise you to consider, if you are buying, one of the more widely-known makes.

2. Is an aerial 100 feet long, 50 feet high, too long?

A.: Yes. Your selectivity would be poor. Try the effect of a series condenser .00025.

3. Is an insulated lead-in resting on the window still detrimental?—No.

4. Is there a list of distant stations published?

A.: Yes, the 1930 "Guide," but if you do not have one you will have difficulty in obtaining one. Lists of Australian and New Zealand stations have been published in the "Radio Record."

5. Would it cost very much to alter the machine to screen grid?

A.: It would not be worth while.

J. H. (Auckland).—What would be the gauge of wire, number of turns, and the size of core required for a 1 to 1 output transformer?

A.: Your better plan would be to make a choke capacity output such as described in the 1930 "Guide."

2. Could an "A" eliminator be successfully built by an amateur? Is one likely to be described in the "Record"?

A.: The essentials were given in the 1930 "Guide," but because this has been sold out the "A" eliminator will be re-

described in the "Record" within the course of a week or so.

3. I am using a home-built eliminator which hums badly on the local station. There is a silent background on all other stations, and the hum disappears when the station closes down.

A.: That is the carrier wave and not a defective "B" battery eliminator. The station hum from local is always more pronounced than from distant stations.

4. What is the remedy for a microphonic ring?

A.: Change the detector valve with another of the same kind, otherwise use a lead cap on the detector and shift the speaker to a greater distance.

CARBORUNDUM (Wellington).—I am contemplating making a battery of 90 Daniell cells to drive three valves for seven hours a week. What is your opinion of the suitability, approximate size of the containers, and the electrolyte?

A.: See the article by "Hard-up" which appeared in the "Radio Record" dated June 6. The most suitable "B" battery you can make is a Leclanche type using the centre portion of torch cells, as described in the article. Daniell cells would not be an economical proposition. The electrolyte should be saturated.

M. E. (New Plymouth).—I wish to attach a short-wave adaptor to my set. Can you recommend an expert?

LISTENERS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Questions arriving without it are likely to go astray or be delayed.

Name of set

Number of Valves

Name

Address

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

- (1) Be specific and brief, tabulating, if possible.
- (2) Write legibly, and on one side of the paper.
- (3) We do not design circuits, but accept suggestions for feature articles.

Solving trouble, as different from advice, is difficult by correspondence and while letters are given every consideration, answers are not necessarily correct—they are only our opinion based on the matter supplied, which may be quite inadequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

A.: The only short-wave adaptor we have tested is the "Addaphone" (Mack's Radio, Wellington). You can obtain more particulars by writing to the proprietors.

F.A.E. (Napier).—My "T" aerial is 100 feet long, with a lead-in of 50 feet. What size condenser will I need to help clear things up?

A.: The effective length of your aerial is only 100 feet, and is consequently the right size.

MARCONI (Nelson).—Who are the agents for my set?

A.: A.W.A., Nimmo's Buildings, Wellington.

2. Length of aerial to use?

A.: 100 to 125 feet, including lead in.

3. Can a shortwave adaptor be used with my set?—Yes.

4. Where can I purchase extra coils?

A.: If you want shortwaves coils you will probably have to make them yourself, but try A. W. A. first.

DAISY BELLE (Invercargill).—How can I add an extra stage to my two-valve set?

A.: It is almost identical with "R. the W2." See the description of "R. the W3," published on March 7.

JUNK BOX (Christchurch).—What are the number of turns for secondary and tickler on valve base coils, using .00032 tuning condensers?

A.: 200 turns of 30 d.s.c. secondary, tickler 50 turns.

QUO VADIS (Wellington).—What is the best combination of valves for my American set?

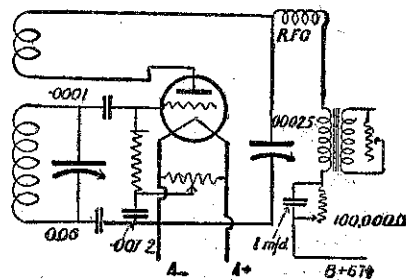
A.: 5—221's, and a 171A type power valve.

2. W. type of speaker would you suggest for the above combination?

A.: You could use a mains operated dynamic cone speaker.

HAMISH (Ch.ch.).—The short-wave set described in the 1930 "Guide" is working indifferently. I cannot control oscillation except by the use of wander plugs in the "B" battery. Can I make alterations suggested by my diagram?

A.: No. If you wish to alter the circuit the one given herewith is what you are aiming at. If you are using a variable high resistance across the "A" battery and grid leak, place a resistance of 100,000 ohms in the detector "B+" lead and shunt it with a 1 m.f.d. condenser. Use the 500,000 ohms resistance across the secondary of the first audio transformer. Place your .001 condenser between the sliding arm of the potentiometer and A—; do not use a reaction condenser greater than .00025.



RADIO (Christchurch): I am more than pleased with the results obtained on "R. the W. 3." I wish to substitute a variable resistance for the condenser control regeneration. Would you give me a suitable diagram?

A.: Yes, the idea can be seen in the sketch on this page. The moving condenser becomes a fixed one.

2. Would the resisto-grid be suitable for a resistance?

A.: We have not tried it, but would imagine it to be satisfactory.

3. To what lead is the grid return connected for a 615?—The positive.

4. Which do you consider to be the best combination for "R. the W. 3." using Philips 6-volt valve?

A.: 615 detector, 609 first audio, and for quality B609, second audio.

5. I have constructed the lead accumulator described in the R.R. Some of the plates are being eaten away. Is this due to impurities in the lead?

A.: It may be due to that or to the strength of the solution not being correct.

J. L.S. (Waipukurau).—As I sent you a stamped and addressed envelope it is only by a "fluke" that I saw your reply in the "Record." I was expecting one by post, as I have never previously read that page. I intend installing a lighting plant, with 80 amp. hour storage batteries. Can my five-valve set be operated from one of the lighting plugs using an "A" battery eliminator?

A.: If all our correspondents were like you we would be all the week dealing with queries. We cannot undertake to reply personally, even though a stamped and addressed envelope is enclosed. Thanks for the compliment about not

reading the page. You may operate your wireless set from your lighting plant by breaking down the voltage with resistances. Another plan would be to lead directly from the accumulator, taking off the six volts required for the set. This would need neither resistances nor smoothing. If there was any noise a choke such as that to be described in the "Record" or an electrolytic condenser would cure the trouble.

DYNAMIC (Dunedin): What is the correct gauge of wire for a high-resistance dynamic speaker, and the approximate number of turns for a B405 output valve?

A.: About 2000 turns of 40 gauge wire, and you must use a 1-1 output filter as well. Why not make a low-resistance speaker coil and operate with a 25-1 step-down transformer?

J. E. (Wellington): Can I receive Auckland and Christchurch on silent nights on my local station receiver?

A.: No. The particular set you mention will only receive the local station.

PICK-UP (Gore): My pick-up reproduces too much base. How can I remedy this?

A.: Try the effect of a series condenser of about .00025 mfd. in series with the leads from the pick-up.

2. What is the best combination of valves for my American machine?

A.: Use four 221's and B605, or its equivalent.

ELIMINATOR (Dunedin): I have made spools for the eliminator described in the "Record" in December, 1929. I now am unable to build up to the full 400 volts. Can the spool be used for a 200-volt winding?

A.: Yes; when it is finished, lift all the spool-ends and cut your stalloid accordingly. The wire will not fall down if it is kept back an eighth of an inch from the ends.

2. What should be the size of the primary and where the tap for surging mains?

A.: The primary would remain the same, but another 200 turns should be wound on for surging mains.

3. What would be the average voltage for a.c. valve with 180 to 200 on the last?

A.: 120 to 150 with 12 volts grid bias.

4. Which is the most economical rectifier, filament or filamentless?

A.: There is little difference, but you stand less chance of burning out the filamentless.

5. Would one stalloid choke as described in the "Record" do for say 200 volts?

A.: No, you need two.

IF you have several loudspeakers in series working together, remember that any one can be switched out at will by connecting an ordinary on-off filament switch across its terminals.

N.Z.'S OWN RADIO BOOKSHOP

The TE ARO BOOK DEPOT, Wellington.

JUST ARRIVED—Prices include postage:

"Radio Amateur Handbook" (Handy's) 6th edition, third printing June, 1930. 5/3

"Radio Amateur Call Book," June, 1930. 5/3

"Projection Engineering"—a monthly, 21/- per annum.

"Radio Manual," by Sterling and Kruse, latest edition, 26/-.

"Elements of Radio Communication," by Morescroft, 19/-.

"Thermionic Vacuum Tube," by Van der Bijl, 26/-.

"Radio Receiving Tubes," by Moyer and Westrel, 14/-.

"Practical Radio Construction and Repairing," by Moyer and Westrel, 14/-.

"Electric Wiring," by Ibbetson, 10/-.

"How Radio Receivers Work," by Roberts, 8/-.

"Radio Physics Course," by Ghirardi, 13/-.

Also all leading English, American and Australian wireless magazines.

Mr. F. W. Sellens' list of Shortwave Broadcasting Stations, 7d.

Last year's "N.Z. Radio Listeners' Guide" still selling well, 2/9.

"N.Z. Radio Handbook Annual, 1930," 2/9 (contains list of the World's broadcasting stations).

Blue prints and complete instructions on following—1/9 each:—

7-Valve Super-Het,

6-Valve Neutrodyne,

5-Valve Neutrodyne,

Batteryless Neutrodyne,

Selective Crystal Set, 2-stage Audio.

All about Aerials.

Simple Wave Trap and Clarifier.

At 2/6 each.

Cockaday Receiver,

5-Valve Cockaday Receiver with P.P. Amplification.

Tropadyne Superadio, Amateur's Practical Design Data.

At 5/- each.

"Building 16ft. Sailing Canoe."

Money refunded if unsuitable and returned in good condition. New stocks by every overseas mail. Write us.

TE ARO BOOK DEPOT

64, Courtenay Place, Wellington.

RADIO DIRECTORY

What to Buy and Where

CITIES

ACE and HAMMARLUND SETS, Johns, Ltd.
WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BROWNING DRAKE SPECIALISTS F. J. W. Fear & Co.
63 Willis Street, Wellington.

BURGESS RADIO BATTERIES, All Radio Dealers.

KING RADIO RECEIVERS F. J. W. Fear & Co.,
63 Willis Street, Wellington.

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,
Courtenay Place, Wellington.

MAJESTIC RADIO RECEIVERS Kirkcaldie & Stains,
Wellington Agents, Lambton Quay.

MULLARD VALVES All Radio Dealers.

PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and ATWATER KENT SETS Harrington's, N.Z., Ltd.,
138-140 Queen St., Auckland.
40-42 Willis St., Wellington.

RADIOLA RECEIVERS and Expert Radiola Service. Farmers' Trading Co., Ltd.,
Hobson Street, Auckland.

STEINITE RADIO G. G. Macquarrie, Ltd.,
120 Willis St., Wellington.

COUNTRY TOWNS

MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS Radio House, Hamilton.
G. S. Anchor, Manager.

PHILIPS VALVES AND APPARATUS All Good Radio Dealers.

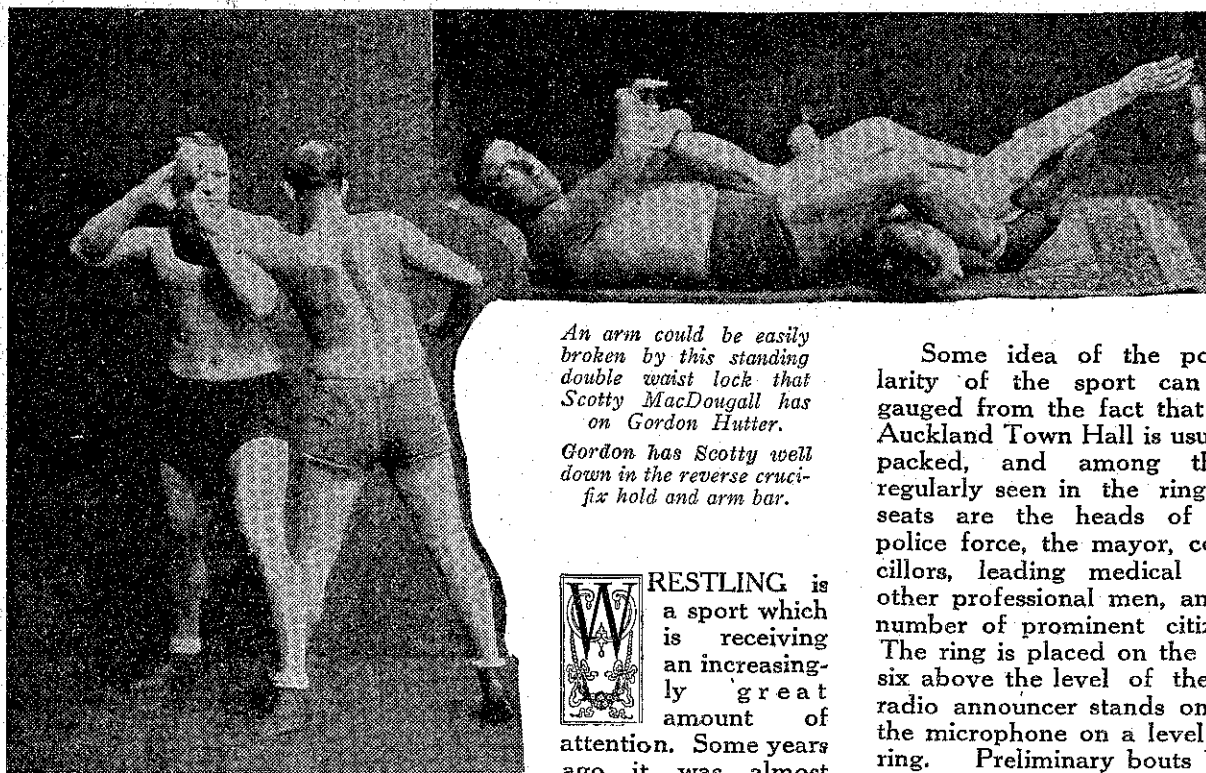
SEE THE WORLD

WIRELESS OPERATOR

Earn Good MONEY

It takes only a short period of easy study to qualify as a wireless operator. For full particulars

JOHNSON'S WIRELESS SCHOOL
Brandon Street, WELLINGTON.



An arm could be easily broken by this standing double waist lock that Scotty MacDougall has on Gordon Hutter.

Gordon has Scotty well down in the reverse crucifix hold and arm bar.

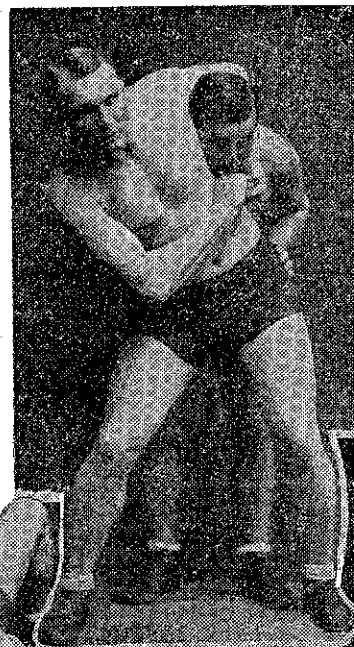


RESTLING is a sport which is receiving an increasingly great amount of attention. Some years ago it was almost unknown, but one has now only to visit a

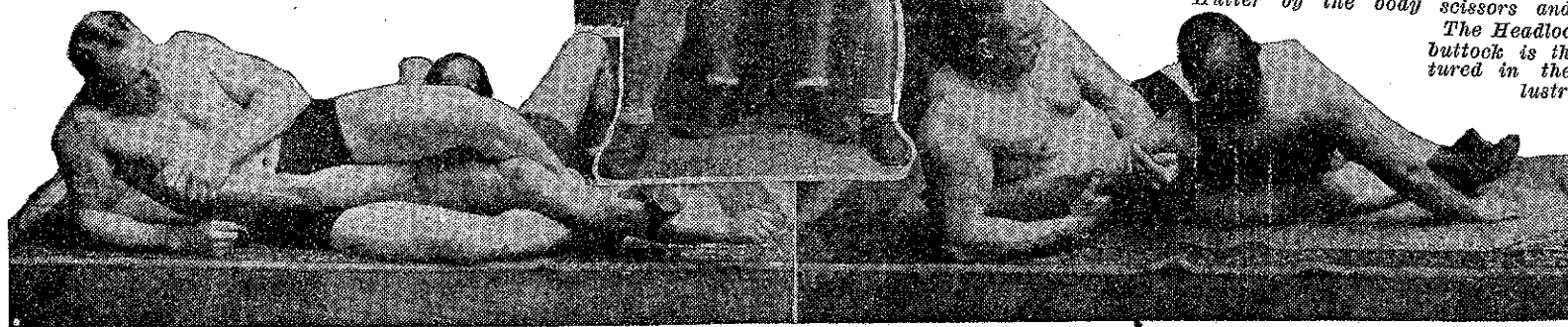
Some idea of the popularity of the sport can be gauged from the fact that the Auckland Town Hall is usually packed, and among those regularly seen in the ringside seats are the heads of the police force, the mayor, councillors, leading medical and other professional men, and a number of prominent citizens and sportsmen. The ring is placed on the stage, about four feet six above the level of the main floor, and the radio announcer stands on the lower floor with the microphone on a level with the floor of the ring. Preliminary bouts between amateurs are staged from 8 p.m. till 9 p.m., when the big professional bout commences.

good contest to realise the intense interest that is taken by all sections of the community. During the season, which is now drawing to a close, New Zealanders have seen some of the world's finest wrestlers in action, and many of the contests have been as thrilling as they have been fast and scientific. It is not surprising, then, that broadcast descriptions of this sport are very popular among listeners. Unfortunately, arrangements for these descriptions have been made only for IYA, though, we understand, it is not the fault of the Broadcasting Company that other stations have not broadcast local matches.

ALTHOUGH Monday is the official silent day at IYA, the station has gone on the air regularly for the purpose of relaying the wrestling contests from the Town Hall. Listeners throughout the country have tuned in to the northern station and have been delighted with the very vivid descriptions put on the air by Mr. Gordon Hutter, the announcer. Mr. Hutter is a sportsman of considerable experience in all branches of sport, and his wrestling descriptions are equally as popular as were his football commentaries during the season.



On the left Scotty Mac-Dougal is demonstrating Crucifix, while on the right he is seen holding Hutter by the body scissors and arm bar. The Headlock and cross buttock is the hold pictured in the upper illustration.



Wrestling proves Thrilling

In this Article "Call-up" Describes many of the Better-known Wrestling Holds

is the one centre of throw or facing each behind each

THE wrestlers are bare above the waist, some wearing short trousers and others tights, and in most professional bouts special boots are also worn. The referee, whose job is most of the time much easier than that of the man controlling a boxing contest, is dressed in white flannels, and watches the men closely, often having to go down on his hands and knees to decide a fall. As soon as one man pins both the other's shoulders on the ground for three seconds he has obtained a fall, and, the referee slapping him on the back to indicate it, the round ends. A submission fall is obtained when one wrestler holds the other in a hold which forces him to give in owing to pain or risk of injury, although his two shoulders are not on the ground. The first man to secure two falls wins the contest, and in the event of neither man securing a fall, or of both securing one, it is left to the referee to award the decision on points.

During the contest the spectators become well worked up, and excitement is often tense. Bursts of applause, hoots, yells, and facetious advice come from the crowd in turn, and orange peel and pennies are sometimes thrown in the ring to indicate that the crowd are dissatisfied with the exhibition.

Wrestling, as practised to-day, is really not strictly like any of the old styles, although it strongly resembles the old catch-as-catch-can style. A practically unlimited range of holds is allowed, and the style now followed is very strenuous,

This is Scotty Mac. using

circle round and press down. 2. THE BODY SCISSORS is a position where the opponent's body is squeezed together, and squeezing. position a tremendous pressure. SCISSORS is similar to applied to the head.

is applied by putting your opponent's arm, acting drawing his own. To should be linked through left, although the hold can vice versa.

4. THE HAMMER is the opponent's wrist and elbow and

5. THE FLYING is back to your opponent's your shoulder, catching your body down low, at head with both hands. your shoulder, he landing

ing provides Numerous rilling Moments

le "Call-up"

many of the

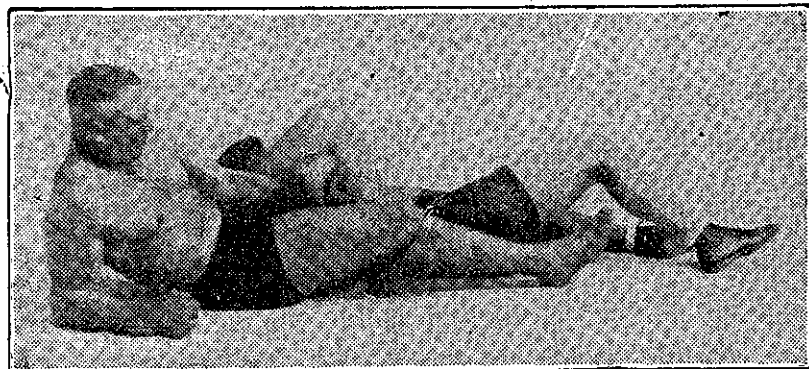
-known

restling

olds

active, and interesting to watch. Several new holds have been evolved in the last few years and old ones have become known by new names, so that even those listeners who are conversant with some old style of wrestling may fail to understand just what is meant by certain terms used.

THE REFEREE'S HOLD is the one into which the men often go in the centre of the ring when manoeuvring for a throw or another hold. It merely consists of facing each other with their fingers interlaced behind each other's neck, in which position they



This is Scotty Mac. using the Short Arm Scissors on his opponent.

circle round and press down.

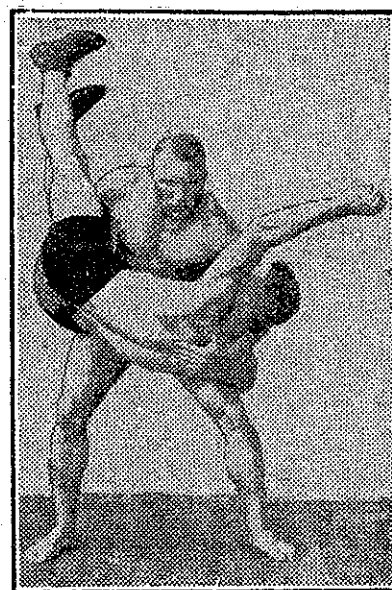
2. **THE BODY SCISSORS** is applied by getting your opponent's body between your legs, locking your feet together, and squeezing. By stretching out your legs in this position a tremendous pressure can be applied. **THE HEAD SCISSORS** is similar to the body scissors, except that it is applied to the head.

THE SHORT ARM SCISSORS is applied by putting your arm through the crook of your opponent's arm, acting as a pin, which prevents him withdrawing his own. To use this hold correctly your right arm should be linked through his right, or your left through his left, although the hold can be applied by right arm to left and vice versa.

4. **THE HAMMERLOCK** consists of seizing an opponent's wrist and elbow and forcing his arm up his back.

5. **THE FLYING MARE** is applied by turning your back to your opponent's face, reach your hands back over your shoulder, catching him at the back of his head, drop your body down low, at the same time pulling down on his head with both hands. This should throw him right over your shoulder, he landing on the broad of his back,

What oh for a bump. Scotty is holding his opponent the Crutch Hold ready for a Slam.



6. **CRUCIFIX.** Out of this hold there is little or no chance of escaping. It is applied by twisting the legs round the opponent's arms and head and forcing the arms back by wrist and leg. If the opponent rolls over, the position is referred to as the **REVERSE CRUCIFIX.** Of

course, the shoulders cannot be pressed to the ground from these positions, but a submission fall can be obtained. Such a fall is indicated by the contestant tapping the mat.

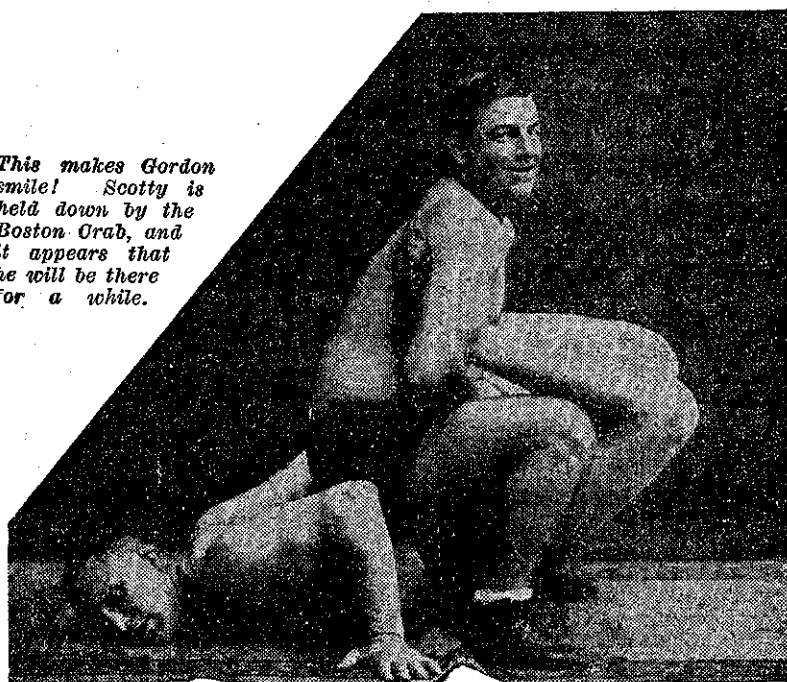
7. **BOSTON CRAB.**—Another hold from which there is little chance of escape. The opponent's legs are forced back over his back and you sit on his buttocks, holding him in that position until a submission fall is signalled. The opponent's back can be badly strained by this hold, and hospital cases have resulted. It has been known for the held man to throw his opponent forward, and so break the hold.

8. In the **CRUTCH HOLD** the opponent is lifted bodily and then thrown to the ground in a slam. The breath can easily be knocked out of the body in this manner.

There are a number of other common holds, such as the splits, face bar, toe hold, and so on, most of which explain themselves, and, of course, the wrestlers are often in positions which have no name.

The accompanying photos, by S. P. Andrew, illustrate the best known and most used holds. In all but the Arm Scissors and Crutch Hold, the demonstrators are Scotty MacDougal, the well-known wrestler, and Mr. Gordon Hutter, sports announcer at IYA.

This makes Gordon smile! Scotty is held down by the Boston Crab, and it appears that he will be there for a while.



Feature Peeps at Future Programmes

SUNDAY

Auckland Notes

THE evening service will be relayed from the Baptist Tabernacle, the preacher being the Rev. Joseph Kemp, and the choir-master and organist, Mr. A. E. Wilson. This will be followed by a relay of the Municipal Band concert from the Auckland Town Hall.

2YA Programme

FROM St. Paul's Pro-Cathedral, Wellington, the evening service will be relayed; the preacher will be Canon Percival James, and the organist and choir-master, Mr. Robert Parker. The Port Nicholson Silver Band, under the conductorship of Mr. J. J. Drew, will give a concert from the studio at the conclusion of the church service. The band items will include the hymn "Gentle Shepherd," Mendelssohn's overture, "Ruy Blas," a selection from "Tannhauser," and Amy Woodforde-Finden's suite of "Indian Love Lyrics."

Items from 3YA

AN address on Christian Science, to be given by Judge Samuel W. Greene, of Chicago, will be relayed from the Civic Theatre, at 3 o'clock.

The Rev. J. Lawson Robinson will preach at St. Andrew's Presbyterian Church, when the service is to be broadcast. There will be an after-church concert given in 3YA studio. A noteworthy item by Mrs. Edwards will be "Grief and Rain," the words of which are by the late Miss Mary Colborne Vell, of Christchurch, to music by Mr. Arthur Lilly, A.R.C.O., of Christchurch. Mr. H. Glaysher will contribute a harp solo and will also accompany two cello solos by Mr. H. Beck. Selections will also be played by the Broadcasting Trio.

Notes from 4YA

THE service in Trinity Methodist Church, Dunedin, will be broadcast by 4YA. The preacher will be the Rev. H. Bellhouse; the choir-master, Mr. James Simpson.

MONDAY

1YA Features

THE station will be on the air at 11.45 for the purpose of broadcasting trotting results at Alexander Park.

2YA Items

AT noon the station will be on the air in order that listeners may hear the results of the second day of the Wellington Racing Club's spring meeting. The vocalists this evening will include Mrs. W. Fraser Morrish (soprano), who will not be broadcast in New Zealand again for some time, as it is her intention after this performance to leave for Sydney on holiday. Mrs. Morrish will sing three numbers: "Nanette" (by Wilkinson-Stevenson), "Lovely Month of May" (by Hammond), and "The Leaves and the Wind" (by Leoni). "Brian of Glenaar" and "Spanish Gold," together with Pinsuti's "The King's Minstrel," three excellent songs, should show Mr. Wilbur Davies' fine baritone voice to advantage. Two Hebridean folk songs and two Hungarian folk songs will be featured by the tenor soloist, Mr. Eric Rishworth. Mrs. W. E. Britton, a contralto singer, with a voice that broadcasts extremely well, will sing "Lullaby," by Brahms, a Schubert number, "Faith in Spring," and Mozart's "With a Swanlike Beauty Gliding." A poem by Mrs. Hemans, "The Lady of Provence," and two humorous numbers, "The Motor Car Boy" and "Limericks," will be recited by Miss Zena Jupp.

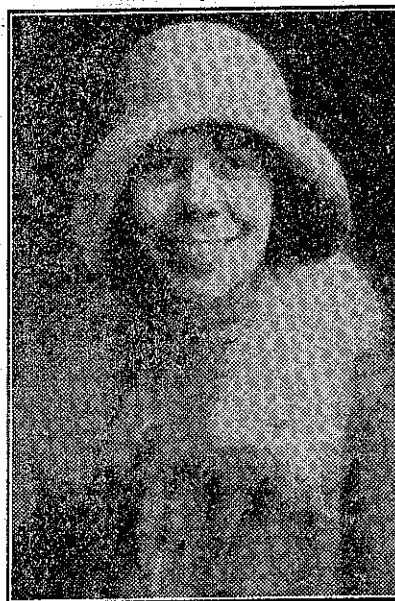
The piano soloist will be Miss Molly Cook, who will play "Two Bourrees," by Bach. The Orchestra, under

Signor A. P. Truda, will play Mendelssohn's "Overture in C," "The Norwegian Rhapsody No. 1," by Svedesing, Grieg's "Norwegian Dances Nos. 1 and 2," Drigo's "Magic Serenade," and "Oriental Dance" by Howgill, and "The Gavotte" from Thomas's opera "Mignon."

From Christchurch

THERE will be the monthly talk on books by Mr. E. E. Wiltshire, president of Linwood Library.

The well-known Woolston Band, under Mr. R. J. Estall, will provide a programme. A splendid selection of items will be given, including a euphonium solo, "Star of Eve," to be played by Bandsman Anderson, to band accompaniment. Miss Jean Cherry, whose soprano voice is well suited to radio, and Mr. Oliver Foote (well-known as a 2YA tenor), will be new to 3YA listeners. Other artists will include the popular mezzo-contralto, Miss Kathleen Johns.



MISS AMY HANSARD, who possesses an excellent mezzo-contralto voice. Her regular appearances from 1YA are always much appreciated.
—S. P. Andrew, photo.

At 4YA

A SPECIAL orchestral combination of nine instrumentalists will make its second appearance this evening in a programme principally instrumental. The combination contains some of the finest musicians available, and they will present classical, operatic, and musical comedy selections, and other light numbers.

Among the selections are works such as "Tristan and Isolde" (by Wagner), "Coriolanus" (by Beethoven), and Mozart's beautiful "Don Giovanni." Instrumental music is always greatly

The Week

Wellington Racing Results

2YA Monday

Special Orchestral

Combination

4YA Monday

Balclutha Anniversary

Celebrations

4YA Tuesday

Instrumental Octet

3YA Wednesday

Old-time Concert

1YA Thursday

"A Persian Garden"

3YA Thursday

"The Sketchers"

4YA Friday

Wellington Symphony

Orchestra

2YA Saturday

Dunedin Burns Club

Concert

4YA Saturday

appreciated and the use of an orchestral combination to provide almost the complete programme (for there will be only two vocalists) will provide a very attractive evening.

TUESDAY

Auckland Topics

AT 3.15 p.m. Mrs. Les Crane will give her weekly talk on "Health of Mind and Body in Relation to Diet." At 7.40 p.m. there will be a further talk on cancer, by Dr. Eisdell Moore.

Instrumental items to be given by the Studio Trio will include a violin solo by Mr. J. Whiteford Waugh, and a pianoforte solo by Mr. Eric Waterhouse. Mr. David Whisker, flautist, is again appearing, and will play three interesting numbers, "Spanish Tanz," "Badrerie," and "Russian Romance." Mr. Whisker scored a great success on his recent first appearance at 1YA, and he will be welcomed again. Miss Gladys Barton (soprano), who makes her first radio appearance, will sing "Coo" and "Under the Deodar" from "The Country Girl," and "I Dreamt that I Dwelt" from "The Bohemian Girl." In the recent production by the Auckland Amateur Operatic Society of "Tutankhamen," Mr. Geoffrey Colledge, who is the possessor of a splendid baritone voice, was one of the outstanding performers. He has included amongst his items for this evening "Tutankhamen's Song," the music of which is written by Mr. Eric Waters. Mr. Arthur H. Ripley, one of New Zealand's leading tenors, will be heard in excerpts from light operas.

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The Wellington Programme

MESSRS. Ville and Yeo, a new duo, will sing popular songs to the accompaniment of a modern style zither harp, an instrument seldom heard in this country.

Theme songs from well-known talking films will be sung by the popular tenor Mr. Dan Foley. Humorous numbers will be given by a new comedian, Mr. W. G. Kitchener, whose items will be: "Everything at Home," and that old Mel B. Spurr number, "When I was a boy at School." Mrs. Edna Woods, a soprano soloist well known to Wellington concert audiences, will be heard in three numbers: "The Star" (by Rogers), "My Heart is a Haven," and Dvorak's "Songs My Mother Taught Me." The Salon Orchestra will play several popular numbers.

During the course of the programme there will be a relay from the Town Hall of a speech to be delivered by Lord Bledisloe at the annual rally of the Wellington Sunday Schools Union.

4YA Relay

THE station will relay from Balclutha, where celebrations in connection with the anniversary of the town are to take place.

WEDNESDAY

Notes from 1YA

MISS BRIAR GARDNER, from 1YA, will continue her interesting talks on "Pottery."

THE Congress Hall Band, whose splendid performances always arouse favourable comment, will provide the major portion of the programme. The band will be under the baton of Mr. T. Paice. Miss Jessie Shmith, the eminent Australian contralto, will make her third and final appearance at this station. This versatile singer will include in to-night's performance the very fine song by Hagemann, "Do Not Go, My Love." Novelty piano and vocal items by Eric and Jack are sure to be a welcome addition to the programme, which will also include a gramophone lecture-recital.

3YA Programme

AN attractive instrumental programme has been arranged by the 3YA Instrumental Octet. The vocal portion of the concert will include operatic and classical numbers, as well as ballads and a negro spiritual.

Dunedin Topics

FOR the benefit of housewives, the Home Science Extension Department of Otago University will at 3.15 discuss the problem of "Shoes." Speaking to farmers at 7.15, Mr. A. C. Cameron will deal with the question of "Farmers' Organisations and their Work." Both talks are under the auspices of the 4YA Primary Productions Committee.

To be introduced to New Zealand listeners by 4YA this evening will be a novelty pianist of exceptional merit, Mr. Francis X. Muleahy. This artist has recently come from Australia, where he won great popularity with his concert performances, which are marked by great originality. His interpretation of modern classics is exceptionally entertaining.

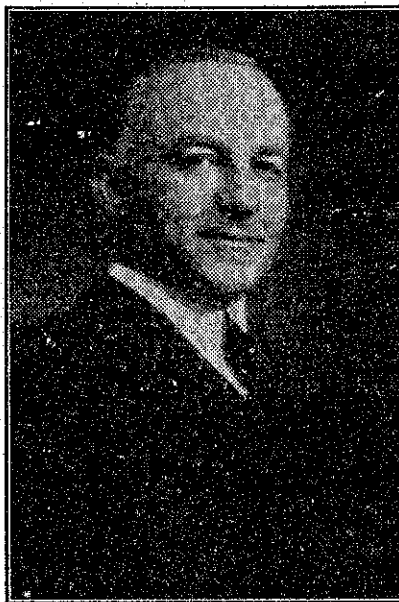
The Saxophone Band, which has not been on the air for some considerable

time, will supply concerted instrumental items. Marches, waltzes, and an excellent selection of old-time melodies by the famous musical arranger, Ken. J. Alford, who is well known in Dunedin, will be presented.

THURSDAY

Savoury Tea Dishes

THE home science talk from 1YA, 2YA and 3YA will be on "Savoury Tea Dishes." This talk has been pre-



MR. ALAN McELWAIN.
One of New Zealand's leading humourists, often heard from 1YA. He is a member of the Lyric Four.
—S. P. Andrew, photo

pared by the Home Science Extension Department of Otago University.

From Auckland

A CONCERT of old-time songs will be broadcast, the vocalists being the New Clarion Quartet.

One of the outstanding features of recent 1YA programmes has been the "Radio Magic" given by Mister Ree, and he will occupy a portion of this evening's programme, to the delight of all listeners.

From 2YA

"A TALK on Teeth," arranged by the Dental Division of the Department of Health, will be given at 7.40. A popular concert programme will be presented during the evening. The Salon Orchestra, under Mr. M. T. Dixon, will include selections from "Chu Chin Chow," from the musical comedy "Sometime," and as a concluding number Rubenstein's "Romance." Instrumental novelty numbers will be given by Reno and Arta, the well-known Xylophone Duo.

Gleanings from 3YA

"CERTIFICATION of Ryegrass" will be the subject of a talk to farmers by Mr. C. C. Leitch, Instructor of Agriculture.

Featured will be Liza Lehmann's famous song cycle, "A Persian Garden," the verses of which are to be found in the Rubaiyat of Omar Khayyam, sung by the newly-formed Harmonic Quartet—Miss Sylvia Angus, Miss Vera Martin, Mr. James

Shaw, and Mr. E. J. Johnson—to instrumental accompaniment by the Christchurch Broadcasting Trio.

This is a well-balanced quartet and the rendition of "A Persian Garden" should be one of the most enjoyable musical broadcasts heard from 3YA. In the second half of the programme the same vocalists will contribute items of a miscellaneous nature. Of particular interest on the programme will be the items to be given by a brilliant young Christchurch pianiste,



MISS MARGOT ST. L. TONER,
who is among the foremost of the Dominion's pianistes. She appears regularly from 1YA.
—S. P. Andrew, photo

Miss Marjorie Alexander, who has been particularly successful at competitions and in Trinity College examinations.

FRIDAY

At 1YA

AT 7.40 p.m. there will be the first of a series of talks on the "Rotation of all Bodies in Nature," by Mr. F. R. Field, under the auspices of the F. R. Field Scientific Research Society.

The evening will commence with a special recording of Kurt Atterberg's "Symphony (No. 6) in C Major, Op. 31" by the Royal Philharmonic Orchestra under the direction of Sir Thomas Beecham. This Symphony was selected from over five hundred works by a jury of eleven international musicians to receive a grand prize award of £2000.

The first vocal recital of the evening will be given by Mr. Frederick W. Simpson, who has not previously been heard from 1YA. Mr. Simpson has a delightful light baritone voice, and also possesses a gift of interpretation. He will sing several numbers and tell their stories. Mr. Simpson's contribution to the programme will be followed by a half-hour's pianoforte recital by his wife, formerly known as Miss Thelma Gallagher, an outstanding pianiste in Auckland. Annotations to Mrs. Simpson's items will be given by Mr. Simpson. The programme will conclude with Mr. J. M. Clark and his company giving a scene from Shakespeare's "Henry VIII."

From 2YA.

A LECTURETTE on "Tourist and Holiday Resorts" will be given at 7.40 by Mr. A. E. Wilson.

The evening's programme is of a type that will appeal to listeners, and they have an opportunity of hearing some very fine artists. The recording of the symphony will in itself be an entertainment that is seldom heard.

An operatic—mainly light operatic—and miscellaneous programme, will be given during the concert session. The vocal portion of the programme will feature Miss Beryl Hope, a promising young operatic soprano. Mr. R. J. G. Madigan, the winner of the men's vocal championship at the recent Wellington Competitions Society's Festival, Mr. Chas. P. Edwards, a tenor of outstanding ability, and Miss Dorothy Spiller, a young Christchurch contralto, whose work at 3YA is well known to listeners. The elocutionary portion of the programme will be given by Miss Vivienne Tait, who is making her radio debut on this occasion. The orchestra, under Signor A. P. Truda, will play the overture to "Masaniello," selections from Verdi's opera, "La Traviata," Gershwin's musical comedy, "The Rainbow," interlude from "The Beggar's Opera," and a march, "The Trumpet Call," by Fucik.

(Continued on page 29.)

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SEND FOR NEW LIST

Full Programmes for Next

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Sunday, October 26

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, OCTOBER 26.

- 3.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
 6.0 : Children's session conducted by "Uncle Bert."
 6.55 : Relay of Evening Service from the Baptist Tabernacle. Preacher, Rev. Joseph Kemp; Organist and Choirmaster, Mr. A. E. Wilson.
 8.30 (approx.) : Relay of Band Concert from the Auckland Town Hall, under the conductorship of Mr. H. McLennan.
 9.30 (approx.) : God save the King.

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

- 3.0 : Afternoon session of selected gramophone records.
 6.0 : Children's Song Service conducted by "Uncle George."
 7.0 : Relay of the Evening Service from St. Paul's Pro-Cathedral. Preacher, Canon Percival James; Organist and Choirmaster, Mr. Robert Parker.
 8.15 (approx.) : Studio concert by the Port Nicholson Silver Band (Conductor, Mr. J. J. Drew) and 2YA artists.
 Hymn—Band, "Gentle Shepherd" (Mullinger).
 March—Band, "Half and Half" (Morrison).
 Soprano—Miss Isobel Cooper, "O'er the Dreary Steppe" (Gretchaninoff).
 Organ—Edwin Lemaire, "Traumerel" (Schumann).
 Tenor—Mr. G. Austin Blackie, "Who Is Sylvia?" (Schubert).
 Band—"Ruy Blas" Overture (Mendelssohn).
 Mezzo-contralto—Mrs. Margaret Mitchell, "The Hawk" (Coningsby Clarke).
 Berlin State Opera Orchestra, "Capriccio Italien, Op. 45" (Tschalkowsky).
 Weather report and station notices.
 Soprano—Miss Isobel Cooper, (a) "Oh, Could I But Express in Song" (Malashkin), (b) "Pleading" (Elgar).
 Selection—Band, "Tannhauser" (arr. Round).
 Tenor—Mr. G. Austin Blackie, "Evening" (Landon Ronald).
 Instrumental—Budapest String Quartet, "Quartet in B Major—First Movement, Allegro Vivace" (Mozart).
 Suite—Band, "Indian Love Lyrics" (Woodforde-Finden).
 Mezzo-contralto—Mrs. Margaret Mitchell, (a) "The Blue River" (Coningsby Clarke); (b) "I Will Await Thee" (Coningsby Clarke).
 March—Band, "Joyce's 71st" (Meyer).
 God save the King.

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

- 3.0 : Lecture on relay from the Civic Theatre—Judge Samuel W. Greene (C.S.B.), of Second Church of Christ Scientist (Chicago, Ill., U.S.A.).
 4.0 : Musical recordings from studio.
 5.30 : Children's Song Service by Children of Methodist Sunday Schools.
 6.15 : Chimes from studio.
 6.30 : Musical recordings from studio.
 7.0 : Relay of Evening Service from St. Andrew's Presbyterian Church. Preacher, Rev. J. Lawson Robinson; Organist, Mr. R. E. Lake; Choirmaster, Mr. J. Maclean.
 8.15 (approx.) : Royal Philharmonic Orchestra, "Rienzi Overture" (Wagner).
 8.31 : Baritone—Mr. Sydney Armstrong, (a) "Pilgrimage" (Meale), (b) "Elegie" (Massenet).
 8.35 : Cello and harp accompaniment—Mr. Harold Beck (harp accompaniment by Mr. H. Glaysher), "Siciliana" (Mascagni).
 8.43 : Soprano—Mrs. J. A. Edwards, "Villanelle" (Del Acqua).
 8.47 : Instrumental—Broadcasting Trio, "Rondo from Trio in B Flat" (Schubert).
 8.58 : Negro Spiritual—Fisk Jubilee Singers, "Little David" (traditional).
 9.1 : Weather forecast and station notices.
 9.3 : Cello with harp accompaniment—Mr. Harold Beck (harp accompaniment by H. Glaysher), "Hamahdili" (Bantock).
 9.9 : Baritone—Mr. Sydney Armstrong, (a) "Two Eyes of Grey" (McGeoch), (b) "To-morrow" (Keel).
 9.15 : Harp—Mr. H. Glaysher, (a) "Va Pensiero," from "Nabuco Chorus" (Verdi), (b) "The Blackbird" (Welsh melody) (traditional).
 9.22 : Soprano—Mrs. J. A. Edwards, (a) "Grief and the Rain" (words by Mary Colborne-Veel), (Arthur Lilly), (b) "Come Forth, My Love" (Coverly).
 9.27 : Instrumental—Broadcasting Trio, (a) "Aberlied" (Schumann), (b) "Autumn and Winter" (Glazounoff).
 9.33 : God save the King.

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

- 3.0 : Chimes. Selected gramophone items.
 5.30 : Children's Song Service, conducted by "Big Brother Bill."
 6.15 : Close down.
 6.30 : Relay of evening church service from Trinity Methodist Church. Preacher, Rev. H. E. Bellhouse; Choirmaster, Mr. Jas. Simpson.
 7.50 : Orchestra—New Queen's Hall Orchestra, "Petite Suite de Concert" (Coleridge-Taylor).
 Soprano—Amelita Galli-Curci, "Lo, Here the Gentle Lark" (Bishop), "Chanson Solveig" (Grieg).
 8.15 : Relay from 3YA, Christchurch.
 9.30 : God save the King.

Monday, October 27

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, OCTOBER 27.

- 11.45 a.m. : Relay of results of Auckland Trotting Club's meeting at Alexander Park, interspersed with gramophone items.
 5.0 p.m. (approx.) : God save the King.

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

- Noon : Results of the second day of the Wellington Racing Club's Spring Meeting, interspersed with selected gramophone items.
 5.0 : Children's session conducted by "Uncle Jeff."
 6.0 : Dinner music session:
 Overture—Basle Symphony Orchestra, "Der Freischutz" (Weber).
 6.12 : Tacet.
 6.15 : J. H. Squire's Celeste Octet, "The Grasshoppers' Dance" (Bucalossi), "The Butterfly" (Bendix).
 Musical Art Quartet, "To a Wild Rose" (McDowell).
 Violin—Yvonne Curti, "Madrigale" (Simonetti).
 6.27 : Tacet.
 6.30 : Instrumental—J. H. Squire's Celeste Octet, (a) "I Love the Moon" (Rubens), (b) "Two Eyes of Grey" (McGeoch), (c) "Amoureuse Valse" (Berger), (d) "Valse Bleue" (Margis).
 6.42 : Tacet.
 6.45 : J. H. Squire's Celeste Octet, "Valse Caprice" (Rubinstein).
 Cello solo—W. H. Squire, "Sarabande" (Seitzer).
 J. H. Squire's Celeste Octet, "Perpetuum Mobile" (Weber (arr. Crooke)).
 6.57 : Tacet.
 7.0 : News session, market reports and sports results.
 7.40 : Lecturette—Mr. H. C. South, "Books—Grave and Gay."
 8.0 : Chimes. Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Overture in C" (Mendelssohn).
 8.9 : Soprano—Mrs. W. Fraser Morrish, "Nanette" (Wilkinson-Stevenson).
 8.13 : Piano—Miss Molly Cook, "Two Bourees" (Bach).
 8.20 : Baritone—Mr. Wilbur Davies, (a) "Spanish Gold" (Fisher), (b) "Brian of Glenaar" (Graham).
 8.27 : Selection—2YA Orchestra, "Norwegian Rhapsody No. 1" (Svendsen).
 8.34 : Elocution—Miss Zena Jupp, "The Lady of Provence" (Mrs. Hemans).
 8.39 : Tenor—Mr. Eric Rishworth, (a) "Skye Fisher's Song" (Kennedy-Fraser), (b) "Milking Croon" (Kennedy-Fraser).
 8.45 : Cello—W. H. Squire, "Spinning Wheel" (Dvorak).
 8.48 : Contralto—Mrs. W. E. Britton, (a) "Lullaby" (Brahms), (b) "Faith in Spring" (Schubert).
 8.54 : Selection—2YA Orchestra, "Norwegian Dances" Nos. 1 and 2 (Grieg).
 9.0 : Weather report and station notices.
 9.3 : Soprano—Mrs. W. Fraser Morrish, (a) "Lovely Month of May" (Hammond), (b) "The Leaves and the Wind" (Leon).
 9.9 : Organ—Quentin MacLean, (a) "Prelude," (b) "Doge's March" (from "The Merchant of Venice" (Rosse)).
 9.17 : Baritone—Mr. Wilbur Davies, "The King's Minstrel" (Pinsuti).
 9.21 : Selection—2YA Orchestra, (a) "The Magic Serenade" (Drigo), (b) "Mecca Oriental Dance" (Hawgill).
 9.29 : Humour—Miss Zena Jupp, (a) "The Motor-Car Boy" (Brunton Gibb), (b) "Limericks" (Brunton Gibb).
 9.34 : Band—H.M. Grenadier Guards, "Fantasia on 17th Century Music."
 9.42 : Tenor—Mr. Eric Rishworth, (a) "Play on Gipsy" (Korbay), (b) "There's on Earth but One True Precious Pearl" (Korbay).
 9.48 : Contralto—Mrs. W. E. Britton, "With a Swanlike Beauty Gliding."
 9.52 : Selection—2YA Orchestra, "Gavotte" from "Mignon" (Thomas).
 10.0 : God save the King.

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

- 3.0 : Afternoon session—Gramophone recital.
 4.25 : Sports results.

Week-all Stations-to Nov. 2

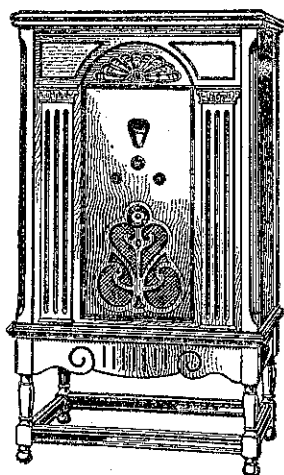
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- 5.0 : Children's hour, "Scatterjoy."
 6.0 : Dinner session:
 March—U.S. Army Bands, "Army and Marine" (Starke).
 Piccadilly Orchestra, "The Waltz Dream" (Strauss).
 Jack Hylton's Orchestra, "My Inspiration Is You" (Nicholls).
 6.12 : Tacet.
 6.15 : Royal Opera Orchestra, "Sylvia Ballet," Prelude and Intermezzo.
 Salon Orchestra, "Chanson Bohème" (Baldi).
 6.27 : Tacet.
 6.30 : Jack Hylton's Orchestra, "A Room with a View" (Coward).
 Salon Orchestra, "Aloha Sunset Land" (Kawelo).
 March—San Francisco Symphony Orchestra, "Marche Militaire."
 6.42 : Tacet.
 6.45 : Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier).
 Organ—Arthur Meale, "Neath the Desert Moon" (Ewing).
 March—U.S. Army Band, "American Spirit" (Buglione).
 6.58 : Tacet.
 7.0 : News session.
 7.30 : Talk—Mr. E. E. Wiltshire (president of Linwood Library), "Books of the Month."
 8.0 : Chimes. Band programme by the Woolston Band (R. J. Estall, Conductor) and assisted by 3YA artists:
 March—Band, "Ruadean" (Ord Hume).
 Overture—Band, "Anne Bollini" (Donizetti).
 8.16 : Tenor—Mr. Oliver Foote, "Heva Hivaa Ho" (Slater).

- 8.20 : Debroy Somers' Band, "The Singing Fool" (arr. Connelly).
 8.24 : Mezzo-contralto—Miss Kathleen Johns, (a) "Irish Folk Song" (Foote), (b) "Dan Cupid" (Mana-Zucca).
 8.30 : Characteristic piece—Band, "The Grasshopper" (Bucalossi).
 8.35 : Baritone—Mr. Malcolm Miller, (a) "Requiem" (Homer), (b) "Give a Man a Horse He Can Ride" (O'Hara).
 8.39 : Soprano—Miss Jean Cherry, (a) "May Dew" (Rubinstein), (b) "The Kiss" (Edgar Ford).
 8.43 : Chorus—Ray Starita Ambassadors, "The Five O'Clock Girl."
 8.51 : Recitation—Mr. Denys Cow, "Borrowing a Match" (Leacock).
 8.56 : Waltzes—Band, (a) "My Desert Rose," (b) "Sleepy Valley." (Terise).
 9.2 : Weather forecast and station notices.
 9.4 : Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey).
 9.8 : Tenor—Mr. Oliver Foote, (a) "Time Was I Roved the Mountains" (Lohr), (b) "Off in the Stilly Night" (Irish).
 9.13 : American sketch—Band, "The Swanee River" (Myddleton).
 9.20 : Mezzo-contralto—Miss Kathleen Johns, (a) "The Rosary" (Nevin), (b) "Smiling Through" (Penn).
 9.24 : Octet—J. H. Squire's Celeste Octet, (a) "Amoureuse" (Berger), (b) "Valse Blene" (Margis).
 9.30 : Baritone—Mr. Malcolm Miller, "The Linden Tree" (Schubert).
 9.34 : Humorous recitation—Mr. Denys Cow, "Guy de Vere Plays Football."
 9.39 : One-step—Band, "Chinke Lee" (Fraklyn).
 9.43 : Soprano—Miss Jean Cherry, (a) "To the Evening Star" (Raff), (b) "My Dearest Heart" (Sullivan).
 9.47 : Male chorus—Associated Glee Clubs of America, "John Peel."
 9.51 : Euphonium—Bandsman Anderson, "Star of Eve" (Wagner).
 March—Band, "Lydney Park" (Ord Hume).
 10.0 : God save the King.

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WELLINGTON

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

- 3.0 : Chimes. Selected gramophone items.
 4.25 : Sporting results.
 5.0 : Chimes. Children's hour, conducted by Big Brother Bill.
 6.0 : Dinner session.
 Marek Weber and Orchestra, "Beggar Student" (Millocker).
 Philadelphia Symphony Orchestra, "Carmen Entr'acte, Act 4" (Bizet).
 Piano—Wilhelm Backhaus, "Bohemian Dance" (Smetana).
 6.13 : Tacet.
 6.15 : Creatore's Band, "Semiramide" (Rossini).
 Philadelphia Symphony Orchestra, "Soldiers Changing Guard" (Bizet).
 Marek Weber and Orchestra, "Rustle of Spring" (Sinding).
 6.28 : Tacet.
 6.30 : New Symphony Orchestra, "Nell Gwynn Dances Nos. 1 and 2."
 Philadelphia Symphony Orchestra, "Carmen—March of the Smugglers" (Bizet).
 Piano—Wilhelm Backhaus, "Caprice Espagnole" (Moszkowski).
 6.44 : Tacet.
 6.45 : Marek Weber and Orchestra, "My Darling Waltz" (Waldteufel).
 National Military Band, "Flying Dutchman Overture" (Wagner).
 Philadelphia Symphony Orchestra, "Carmen Entr'acte, Act 1" (Bizet).
 6.58 : Tacet.
 7.0 : News session.
 7.40 : Talk—Under auspices of W.E.A.
 8.0 : Chimes.
 The Orchestra, "Athalia" (Mendelssohn); "In Days of Old" (Ball).
 8.22 : Mezzo-soprano—Miss Dorothy M. Sligo, (a) "Hey-Derry-Down" (German); (b) "By Night and Day" (German).
 8.27 : Cello—Mr. F. V. Drake, "We'd Better Bide a Wee" (Traditional).
 8.33 : Baritone—Mr. William Ruffell, (a) "Yeomen of England" (German); (b) "Mate of Mine" (Elliott).
 8.40 : Selection—Orchestra, (a) "Tristan and Isolde" (Wagner); (b) "Four American Indian Impressions" (Phillips). 1—"The Signal of Peace"; 2—"The Medicine Man"; 3—"The Protest"; 4—"The Appeal of the Great Spirit."
 9.0 : Weather report.
 9.2 : Chorus—Columbia vocal gems—Gems from "No, No Nanette."
 9.10 : Piano—Mr. A. H. Pettitt, "Valse Brillante" (Chopin).
 9.14 : Overture—Orchestra, "Egmont" (Beethoven).
 Song without words—"Chanson Sans Paroles" (Tchaikowsky).
 Selection—Orchestra, "Sally" (Kern).
 9.30 : Mezzo-soprano—Miss Dorothy M. Sligo, "Waltz Song" (from "Romeo and Juliet" (Gounod).
 9.34 : Baritone—Mr. William Ruffell, "Fishermen of England" (Phillips).
 9.38 : Overture—Orchestra, "Don Giovanni" (Mozart).
 9.46 : Chorus—Columbia Light Opera Company, Vocal Gems from "Rio Rita."
 9.54 : The Orchestra—Suite for Orchestra from "Sigurd Jorsalfor" (Greig). 1—Intermezzo; 2—Triumphal March.
 10.3 : God save the King.

Tuesday, October 28

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, OCTOBER 28.

- 3.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
- 3.15: Talk—Mrs. Les Crane, "Health of Mind and Body in Relation to Diet."
- 5.0 : Children's session, conducted by "Uncle Dave."
- 6.0 : Dinner session:
- Orchestre Symphonique de Paris, "L'Arlesienne Suite" (Bizet): (1) Prelude, (2) Entr'acte—Pastorale, L'Etiang de Vaccares, (3) Chœurs—Suivant la Pastorale.
- 6.12: Tacet.
- 6.15: Selection—Columbia Symphony Orchestra, "Faust" (Gounod). Violin—Toscha Seidel, "Chanson Arabe" (Rimsky-Korsakov).
- 6.27: Tacet.
- 6.30: Orchestre Symphonique de Paris, "L'Arlesienne": (1) La Cuisine de Castelet, (2) Minuetto, (3) Le Carillon, (4) Adagietto (Bizet).
- 6.42: Tacet.
- 6.45: Orchestre Symphonique de Paris, "Farandole" ("L'Arlesienne"—Bizet). Band Garde Republicaine de France, "Carmen" Entr'acte (Bizet).
- 6.56: Tacet.
- 7.0 : News and market reports.
- 7.40: Talk—Dr. Eisdell Moore, "Cancer."
- 8.0 : Chimes. Band of H.M. Coldstream Guards, (a) "Der Freischütz" (Weber), (b) "Light Cavalry" (Suppe).
- 8.9 : Soprano—Miss Gladys Barton, (a) "Coo," (b) "Under the Deodar" (from "Country Girl"—Monckton).
- 8.16: Trio—Studio Trio, "Maritana Overture" (Wallace).
- 8.25: Baritone—Mr. Geoffrey Colledge, "Tutankhamen's Song" (Eric Waters).
- 8.29: Flute—Mr. David Whisker, "Spanish Tanz" (Sabathil).
- 8.33: Contralto—Miss Phyllis James, "Lord of the Depths" ("Un Ballo in Maschera") (Verdi); "Thanks Unto Thee, Angelic Voice" ("La Gioconda") (Ponchielli).
- 8.40: Violin—Mr. J. Whitford Waugh, "Legende" (Bohm).
- 8.45: Talk—Mr. A. B. Chappell, M.A., "Topical Talk."
- 9.0 : Evening weather forecast and announcements.
- 9.2 : Band—H.M. Grenadier Guards, "Merrie England" (German).
- 9.10: Soprano—Miss Gladys Barton, "I Dreamt I Dwelt" (from "Bohemian Girl"—Balfe).
- 9.14: Studio Trio—"Marche Militaire" (Schubert, arr. Weiss).
- 9.18: Baritone—Mr. Geoffrey Colledge, (a) "With Swanlike Beauty Gliding" (from "Don Giovanni"—Mozart), (b) "In Happy Moments Day by Day" (from "Maritana"—Wallace).
- 9.25: Flute solo—Mr. David Whisker, (a) "Badinerie" (Fontbonne), (b), "Russian Romance" (Selfert).
- 9.32: Contralto—Miss Phyllis James, "If You Wish For True Happiness Ever" ("Lucrezia Borgia"), (Donizetti).
- 9.36: Piano—Mr. Eric F. B. Waters, "Autumn" (Chaminade).
- 9.41: Circolo Mandolinistico, "Prelude to Act 1, 'La Traviata'" (Verdi).
- 9.45: Studio Trio, "Caliph of Bagdad" (Boieldieu).
- 9.52: Band—H.M. Grenadier Guards, "New Sullivan Selection" (arr. Godfrey).
- 10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, OCTOBER 28.

- 3.0 : Chimes. Selected studio items.
- 3.30 and 4.30: Sporting results to hand.
- 5.0 : Children's session, conducted by Big Brother Jack.
- 6.0 : Dinner music session.
- International Novelty Orchestra, "Emperor" (J. Strauss).
- Vienna Philharmonic Orchestra, "Ruins of Athens."
- Organ—Sydney Gustard, "Ponpee Valsante" (Poldini).
- International Novelty Orchestra, "Gold and Silver" (Franz Lehar).
- 6.14: Tacet.
- 6.15: The Palladium Orchestra, "The Grasshopper's Dance" (Bucalossi).
- Vienna Philharmonic Orchestra, "Turkish March" (Mozart).
- Band of H.M. Coldstream Guards, "Morning, Noon and Night."
- The Rhythmic Eight, "Neapolitan Nights" (Zamecnik).
- 6.29: Tacet.
- 6.30: The Palladium Orchestra, "La Siesta" ("Barcarolle") (Norton).
- Zonophone Salon Orchestra, "Love's Garden of Roses" (Haydn-Wood).
- Organ—Sydney Gustard, "Un Peu D'Amour" (Silesu).
- Zonophone Salon Orchestra, "Mighty Lak' a Rose" (Nevin).
- 6.44: Tacet.
- 6.45: Marek Weber and His Orchestra, "Faust" Selection" (Gounod).
- Band of H.M. Coldstream Guards, "Pique Dame" Overture (Suppe).
- 6.57: Tacet.
- 7.0 : News session, market reports and sports results.
- 7.40: Lecturette—Representative, Agricultural Department, "For the Man on the Land."
- 8.0 : Chimes. During the course of this programme there will be a relay from the Town Hall of the speech delivered by His Excellency the Governor-General, Lord Bledisloe, at the Wellington Sunday Schools Unions' Annual Rally.
- Overture—2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), "If I Were King" (Adam).
- 8.9 : Soprano—Mrs. Edna Woods, (a) "The Star" (Rogers), (b) "My Heart is a Haven" (Steinel).

- 8.15: Novelty piano—Mr. James F. Skedden, (a) "The Punch and Judy Show" (Black), (b) "Love Me" (Aivan).
- 8.22: Tenor—Mr. Dan Foley, (a) "A Pair of Blue Eyes" (Kernel), (b) "The Song o' My Heart" (Hanley).
- 8.28: Suite—2YA Salon Orchestra, "Peer Gynt Suite, No. 2" (Grieg).
- 8.36: Humour—Mr. W. G. Kitchener, "Everything at Home" (Wood).
- 8.42: Popular songs—Vile and Yeo with Zither harp accompaniment, (a) "A Little Kiss Each Morning" (Woods), (b) "In the Land of Make Believe" (Baer).
- 8.48: 2YA Salon Orchestra, "Monsieur Beauchaire" (arrgd. Rosse).
- 8.56: Soprano—Mrs. Edna Woods, "Songs My Mother Taught Me" (Dvorak).
- 9.0 : Weather report and station notices.
- 9.2 : Novelty piano—Mr. James F. Skedden, "You Tell 'Em Ivories."
- 9.6 : Tenor—Mr. Dan Foley, "When I'm Looking at You" (Stolhart).
- 9.10: Selection—2YA Salon Orchestra, "Request Item."
- 9.18: Humour—Mr. W. G. Kitchener, "When I Was a Boy at School."
- 9.23: Popular songs with zither harp accompaniment, (a) "I've Got a Feeling I'm Falling" (Lincke); (b) "Just Across the Street from Heaven."
- 9.29: Selection—2YA Salon Orchestra, "Trot de Cavalerie" (Rubenstein).
- 9.33: Dance programme.
- Foxtrots—Tom Clines and his Music, "Miss Wonderful" (Bryan-Ward).
- Roger Wolf Kahn and his Orchestra, "Cooking Breakfast for the One I Love" (Rose-Tobias).
- Tom Clines and His Music, "Somebody Mighty Like You."
- Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "You Can't Believe My Eyes" (Bryan-Meyer).
- Abe Lyman and His California Orchestra, "The Rogue Song."
- 9.45: Vocal—Dick Robertson, "Singin' in the Bath tub" (Magidson-Cleary).
- Foxtrots—Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "If I Can't Have You" (Bryan-Meyer).
- Isham Jones' Orchestra, "Nina Rosa" (Caesar-Romberg).
- Abel Lyman and His California Orchestra, "When I'm Looking at You" (Grey-Stolhart).
- Waltz—Isham Jones' Orchestra, "Your Smiles, Your Tears."
- 10.0 : Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad-Mitchell-Gottler), "Beside an Open Fireplace" (Denniker-Osborne), "Hangin' on the Garden Gate" (Kahn-Fiorito), "Just Can't be Bothered with Me" (Kohn-Simons).
- Vocal—Belle Baker, "I'm Walking with the Moonbeams."
- Foxtrots—Roger Wolfe Kahn and His Orchestra, "When a Woman Loves a Man" (Rose-Rainger).
- Bob Haring and His Orchestra, "Do Ya' Love Me?"
- Waltz—Carter's Orchestra, "California Sunshine" (Ford-Earl).
- 10.24: Foxtrots—Bob Haring and His Orchestra, "Where You Are."
- Ben Bernie and His Orchestra, "West Wind" (Robinson-Youmans).
- 10.30: Foxtrots—The A. and P. Gypsies, "Gypsy Dream Rose."
- Colonial Club Orchestra, "Why Do You Suppose?"
- Bob Haring and His Orchestra, "Under a Texas Moon."
- 10.39: Vocal—Dick Robertson, "Lady Luck" (Perkins).
- Foxtrots—Colonial Club Orchestra, "My Man is on the Make."
- Ben Bernie and His Orchestra, "The One Girl" (Youmans).
- Waltz—Carter's Orchestra, "Old Virginia Moon" (Crawford-Kahn).
- Foxtrots—Abe Lyman and His California Orchestra, "Lucky Me, Lovable You" (Yellen-Ager).
- Fred Hamm and His Orchestra, "We Love Us."
- Abe Lyman and His California Orchestra, "Love Ain't Nothin' but the Blues" (Goodwin-Alter).
- 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, OCTOBER 28.

SILENT DAY.

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

- 3.0 : Chimes. Selected gramophone items.
- 4.25: Sporting results.
- 5.0 : Chimes. Children's hour, conducted by Uncle Bert.
- 6.0 : Dinner music.
- Albert Sandler and His Orchestra, "Someday, Somewhere."
- B.B.C. Wireless Military Band, "Strathspeys and Reels" Part 1 (arr. B. Walton O'Donnell); Part 2 (arr. G. Williams).
- Saxophone—Rudy Wiedoeft, "Sax-o-Phun" (Wiedoeft).
- Len Fillis Novelty Trio, "The Heart of the Sunset" (Nicholls).
- 6.13: Tacet.
- 6.15: Percy Pitt and augmented Symphony Orchestra, "Poet and Peasant" Overture, Parts 1 and 2 (Suppe).
- Harp—Sidonie Goossens, "Song of the Volga Boatmen."
- H. G. Amers and the Eastbourne Municipal Band, "The B'Hoys of Tipperary" (Amers).
- 6.28: Tacet.
- 6.30: Albert Sandler and His Orchestra, "Sonny Boy" (de Sylva, Brown, Henderson, Jolson).
- H. G. Amers and the Eastbourne Municipal Orchestra, "Second Serenata" (Toselli, arr. Geehl).
- Saxophone—Rudy Wiedoeft, "La Cinquantaine" (Marie, arr. Wiedoeft).
- Debroy Somers Band, "Russian Fantasy" (arr. Lange and Somers).
- 6.43: Tacet.
- 6.45: H. G. Amers and the Eastbourne Municipal Band, "All on a Christmas Morning—Idyll" (Amers).

B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore Selection," Parts 1 and 2 (Sullivan)

H. G. Amers and the Eastbourne Municipal Orchestra, "Tarantelle for Flute and Clarinet" (Saint-Saens).

6.58: Tacet.

7.0: News session.

7.40: Talk—Mr. R. W. Marshall, "Tourist Resorts."

8.0: Chimes.

Relay from Balclutha of Jubilee Concert and presentation of Mayoral Chain, on the occasion of the Balclutha Borough Council Diamond Jubilee—Celebrations Oddfellows' Hall, Balclutha.

The programme will include the following:—

Band—Balclutha Boys' Brass Band, "Community Songs."

Tenor—Mr. D. Kaye, "The Restless Sea" (Hamblyn).

Chorus—Balclutha Male Choir, "Land of Hope and Glory."

Soprano—Miss Alva Myers, "The Heart That's Free" (Robyn).

Jubilee Address by His Worship the Mayor of Balclutha, Mr. S. V. White.

Chorus—Balclutha Male Choir, "Border Ballad" (Maunder).

Soprano—Miss Margaret Murray, "Isle McLean" (McKenzie).

Violin—Monsieur Emile Jayit, "Il Trovatore" (Verdi).

Presentation of Mayoral Chain by Mr. A. E. Russell, on behalf of the Citizens of Balclutha.

Contralto—Miss Cathie Newson, "O Lovely Night" (Landon Ronald).
God save the King.

Wednesday, October 29

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, OCTOBER 29.

8.0: Afternoon session—Selected studio items, literary selection by the Announcer.

5.0: Children's session, conducted by "Uncle Tom."

6.0: Dinner session.

Albert W. Ketelbey's Concert Orchestra, "Cockney Suite," Nos. 1 to 4 (Ketelbey): (1) A State Procession (Buckingham Palace), (2) The Cockney Lover (Lambeth Walk), (3) At the Palais de Dance (Anywhere), (4) Elegy (Thoughts on Passing the Cenotaph).

6.13: Tacet.

6.15: Albert W. Ketelbey's Concert Orchestra, "Cockney Suite," No. 5—Bank Holiday ("Appy 'Amstead" (Ketelbey).

Regimental Band of H.M. Grenadier Guards, "Radio" Quick March.
Jack Payne and the B.B.C. Dance Orchestra, "Say it with Songs"—Selection, Parts 1 and 2 (de Sylva).

6.28: Tacet.

6.30: Albert W. Ketelbey's Concert Orchestra, "Jungle Drums" Patrol.
Organ—Emil Velazco, "Estrellita."

Debroy Somers Band, "Hungarian Medley," Parts 1 and 2.

6.43: Tacet.

6.45: Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawaiian Waters," Parts 1 and 2" (Ketelbey).

Organ—Emil Valazco, "La Golondrina."

Regimental Band of H.M. Grenadier Guards, "Fighting Strength."

6.58: Tacet.

7.0: News and market reports.

7.40: Talk—Miss Briar Gardner, "Pottery."

8.0: Chimes. March—The Congress Hall Band, under conductorship of Mr. T. Paice, "The Quest" (Scotney).

Selection—Congress Hall Band, "And the Glory" (Handel).

8.9: Contralto—Miss Jessie Smith, (a) "A Swan" (Grieg), (b) "Do Not Go, My Love" (Hagemann).

8.16: Selection—Congress Hall Band, "Memories of the Masters" (arrgd. Hawkes), March, "Berhampore" (Greenfield).

8.27: Novelty vocal—Eric and Jack, (a) "South Sea Rose" (Gilbert), (b) "A Garden in the Rain" (Ashton).

8.34: Selection—Congress Hall Band, "Gems from Beethoven" (arrgd. Goldsmith); March, "The Commonweath" (McAnnally).

8.46: Vocal chorus—Band, "Comrades in Arms" (Adam).

8.50: Tone poem—Band, "Adoration" (Ball).

9.0: Evening weather forecast and announcements.

9.2: Selection—Congress Hall Band, "While Days are Going By."

9.12: Contralto—Miss Jessie Smith, (a) "Angels Guard Thee" (Godard), (b) "Wait" (D'Hardelot).

9.19: Novelty vocal—Eric and Jack, (a) "Old Pals are the Best Pals" (Austin), (b) "Latest Hit."

9.27: March—Congress Hall Band, "Jubilee" (McAnnally).

9.31: Lecture-recital—A Commentator, Gramophone Lecture-Recital, Latest Recordings.

God save the King.

6.0: Dinner session.

Royal Opera Orchestra, Covent Garden, "Faust Ballet Music, 1st-4th Movements" (Gounod).

San Francisco Symphony Orchestra, "Rosamunde Entr'acte."

6.14: Tacet.

6.15: National Symphony Orchestra, "Stradella Overture" (Flotow).

Organ—Reginald Foort, "The Riff Song" (Romberg).

Philadelphia Symphony Orchestra, "Samson and Delilah."

6.29: Tacet.

6.30: Royal Opera Orchestra, Covent Garden, "Faust" Ballet Music, 5th-7th Movements" (Gounod).

Organ—Reginald Foort, "The Desert Song" (Romberg).

Philadelphia Symphony Orchestra, "Damnation of Faust" (Berlioz).

6.44: Tacet.

6.45: National Military Band, "Ballet Egyptian" (Luigini).

National Symphony Orchestra, "Norma" Overture (Bellini).

6.57: Tacet.

7.0: Addington stock market reports.

8.0: Chimes. Operatic and Miscellaneous Programme.

H.M. Coldstream Guards Band, "Belle of New York" (Kerker).

8.9: Tenor—Mr. W. J. Trewern, "Lend Me Your Aid" (From "Queen of Sheba") (Gounod).

8.14: 'Cello—Pablo Casals, "The Mastersingers of Nuremberg" (Wagner).

8.18: Mezzo-soprano—Mrs. Sen Jowett, (a) "My Lord What a Mornin'" (Burleigh) (Negro Spiritual); (b) "Deep in Love Was I."

8.23: Instrumental—Studio Octet, (Conductor Harold Beck), "Undine."

8.31: Soprano—Miss Agnes Cunningham, (a) "Rose Softly Blooming" (Spohr); (b) "The String of Pearls" (Phillips).

8.36: Humour—Miss Naare Hooper, "By Special Request" (Castles).

8.42: Violin—David Wise, "Cavalleria Rusticana" (Mascagni).

8.45: Baritone—Mr. Robert Allison, (a) "On With The Motley" (from "Pagliacci") (Leoncavallo); (b) "Bonnie Wells o' Wearie."

8.50: Studio Octet, (a) "Valse Bohemienne"; (b) "Valse Rustique"; (c) "Valse De La Reine" (Coleridge-Taylor).

9.0: Weather forecast and station notices.

9.2: Organ—Charles Saxby, "Classica."

9.6: Tenor—Mr. W. J. Trewern, (a) "Thou Art My Life" (Mascheroni); (b) "Ask Me No More" (R. A. Horne).

9.12: Studio Octet, Operatic Fantasia, "The Pearl Fishers" (Bizet).

9.22: Mezzo-soprano—Mrs. Sen Jowett, "Il Segreto Per Esser Felice" (from "Lucrezia Borgia") (Donizetti).

9.28: Cornet—Sylvester Ahola, "The English Rose" (German).

9.29: Humour—Miss Naare Hooper, "A Rainy Day Story" (Anon.).

9.33: Instrumental—Studio Octet, (a) "At an Old Trysting Place" (Macdowell); (b) "At Dawning" (Cadman); (c) "Valse Mauresque."

9.42: Soprano—Miss Agnes Cunningham, (a) "Louise" (Charpentier); (b) "Love's a Merchant" (Carew).

9.48: Symphony Orchestra, "La Vida Breve" (De Falla).

9.52: Baritone—Mr. Robert Allison, "Lolita" (Buzzi-Peccia).

9.56: Studio Octet, (a) "Barcarolle" (from "Tales of Hoffman") (Offenbach); (b) "Gavotte" (From "Mignon") (Thomas).

10.7: God save the King.

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

3.0: Chimes. Selected gramophone items.

3.15: Talk—"Shoes." Prepared by Home Science Extension Department of Otago University, under auspices of 4YA Primary Productions Committee.

4.25: Sporting results.

5.0: Chimes. Children's hour, conducted by Big Brother Bill.

6.0: Dinner session.

Grand Symphony Orchestra, "Suite Orientale," (a) March; (b) On the Shore of the Ganges" (Francis Popy).

Edith Lorand Orchestra, "Toreador and Andalous" (Rubinstein).

Grand Symphony Orchestra, "Naila" (Delibes).

6.14: Tacet.

6.15: Dajos Bela Orchestra, "Woodland Peace" (Favilla).

Berlin State Opera House Orchestra, "The Barber of Seville" Overture.

Edith Lorand Orchestra, "Minuet" (Boccherini).

6.29: Tacet.

6.30: Grand Symphony Orchestra, "Suite Orientale," Part 4, "The Patrol" (Francis Popy), "Lustspiel" Overture" (Kela Bela).

Dajos Bela Orchestra, "The Court Ball" (Josef Lanner).

Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitome).

6.44: Tacet.

6.45: Grand Symphony Orchestra, "Suite Orientale," Part 3, The Dancers.

Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).

Grand Symphony Orchestra, "Chinese Street Serenade" (Ludwig-Liede).

6.59: Tacet.

7.0: News session.

7.15: Talk—Mr. A. C. Cameron, under auspices of 4YA Primary Productions Committee, "Farmers' Organisations and Their Work."

8.0: Chimes. Overture—Saxophone Band, "Nifty March" (Loos); Valse, "Marjorie" (Loos).

8.9: Soprano—Miss A. Finnerty, (a) "Ukulele Dream Girl" (Low), (b) "Charmaine" (Kapee).

8.15: Piano novelty—Mr. Francis X. Mulcahy, "Mocking the Classics."

8.20: Light vocal and guitar—Mr. Norman D. Scurr, "Latest Hit."

8.24: March—Saxophone Band, "Joyous Greetings" (Southwell).

Valse—"My Dream Memory" (Levant).

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

SILENT DAY.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, OCT. 29.

3.0: Afternoon session gramophone recital.

4.25: Sports results.

5.0: Children's Hour, conducted by Uncle John.

- 8.32: Scottish humour—Mr. B. Brown, (a) "She's Ma Daisy" (Lauder), (b) "The Laddies Who Fought and Won" (Lauder).
- 8.37: Clarinet—Mr. L. Potter, "Carnival of Venice" (with variations) (Dias).
- 8.44: Recital—Miss N. Warren, "The Ballad of Splendid Silence" (Nisbet).
- 8.50: Selection—Saxophone Band, "Old-Time Melodies" (Alford).
- 8.58: Piano novelty—Mr. Francis X. Mulcahy, "Lily of Laguna."
- 9.1: Weather report.
- 9.3: Soprano—Miss A. Finnerty, "Love's a Merchant" (Carew).
- 9.6: Guitar with vocal—Mr. Norman D. Scurr, "Latest Hit."
- 9.11: Gavotte—Saxophone Band, "Dainty Maid" (Ripple).
- 9.16: Scottish humour—Mr. B. Brown, "Saturday Night" (Lauder).
- 9.20: Piano novelty—Mr. Francis X. Mulcahy, "Selections from Comic Opera."
- 9.24: Recital—Miss N. Warren, "The Four Prayers" (Anon.).
- 9.28: Galop—Saxophone Band, "Blue Streak" (Jacobs).
- 9.32: Dance session.
- Foxtrots—Anglo-Persians, "Dancing Butterfly" (Pascal-Golden).
 Abe Lyman and His California Orchestra, "Worryin' Over You" (Tobias-de Rose).
 Al Goodman and His Flying High Orchestra, "Thank Your Father" (de Sylva).
- Waltz—Regent Club Orchestra, "I Love You So" (Kahn-Florito).
- 9.42: Foxtrots—Tom Clines and His Music, "Until Love Comes Along."
 Lloyd Huntley and His Isle o' Blues Orchestra, "Promises."
 Ben Bernie and His Orchestra, "Telling it to the Daisies."
 Lloyd Huntley and His Isle o' Blues Orchestra, "On a Blue and Moonless Night" (O'Flynn-Hoffman-Osborne).
- 9.54: Vocal trio—Earl Burnett's Biltmore Hotel Trio, "If I'm Dreaming."
 Foxtrots—Ben Bernie and His Orchestra, "Keepin' Myself for You."
 Colonial Club Orchestra, "Caribbean Love Song" (Berton).
 Ben Bernie and His Orchestra, "You Brought a New Kind of Love to Me" (Fain-Kahal-Norman).
 Tom Clines and His Music, "Any Time's the Time to Fall in Love" (Janis-King).
- 10.9: Waltz—Ben Bernie and His Hotel Roosevelt Orchestra, "Coquette."
 Foxtrots—Dan Russo and His Oriole Orchestra, "Sweetheart."
 Roger Wolfe Kahn and His Orchestra, "Exactly Like You."
 Ben Bernie and His Orchestra, "Reminiscing."
- 10.21: Vocal—Vaughn de Leath, "Sometimes I'm Happy" (Caesar-Youmans).
 Foxtrots—Abe Lyman and His California Orchestra, "You Will Come Back to Me" (Fields-Rose).
 Ben Bernie and His Orchestra, "Livin' in the Sunlight, Lovin' in the Moonlight" (Sherman-Lewis).
 Colonial Club Orchestra, "Watching My Dreams Go By."
- 10.33: Waltz—Regent Club Orchestra, "Lazy Louisiana Moon" (Donaldson).
 Foxtrots—Colonial Club Orchestra, "Wherever You Are" (Kalmarruby), "Sweepin' the Clouds Away" (Coslow).
- 10.42: Vocal trio—Earl Burnett's Biltmore Trio, "A Year from To-day."
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunny Side of the Street" (Fields).
 The Jungle Band, "Sweet Mama" (Ellington-Mills).
 Waltz—Earl Burnett and His Los Angeles Biltmore Hotel Orchestra, "Love Boat" (Brown-Freed).
 Foxtrots—Anglo-Persians, "The Toy-Town Admiral" (Godfrey-Andrew).
 Colonial Club Orchestra, "All Alone Monday" (Kalmarruby).
- 11.0: God save the King.
- 8.37: Tenor—Mr. Lambert Harvey, "Sweet Genevieve" (Tucker).
 Contralto—Miss Beryl Smith, "Where Is Now The Merry Party."
- 8.45: Violin—Mr. Leslie Haynes, "The Old Refrain" (Kreisler).
- 8.49: Duet—Messrs. Black and Lambert Harvey, "Larboard Watch."
- 8.53: 1YA String Octet, (a) "When I Only Think of You" (Hopper); (b) "Song of the Dawn" (Yellen).
- 9.0: Evening weather forecast and announcements.
- 9.2: Quartet—The New Clarion Quartet, "Old Folks at Home" (Foster).
- 9.6: 1YA String Octet, "Hungarian Dances Nos. 2 and 7" (Brahms).
- 9.12: Duet—Mr. Duncan Black and Miss Beryl Smith, "Gipsy Countess."
 Soprano and Quartet—Miss Lillian Woods, "Home, Sweet Home."
- 9.19: 1YA String Octet, (a) "Serenade" (Chaminade); (b) "Lilac Domino Selection" (Cuvillier).
- 9.28: Bass—Mr. Duncan Black, "Drinking, Drinking" (arr. W.H.M.).
- 9.32: Programme of dance music until 11 p.m.
 Foxtrots—Paul Tremaine and His Orchestra, "Hand Me Down My Walkin' Cane" (arr. Tremaine).
 Paul Whiteman and His Orchestra, "Happy Feet."
 Ray Starita and His Ambassadors Band, "Ev'ry Little Moment" (Newman-Grey-Ellis).
 Paul Whiteman and His Orchestra, "A Bench in the Park."
- 9.42: Waltzes—Russian Novelty Orchestra, "Greetings of Spring."
 Novelty—Dance Orchestra, "Sobbing Waltz."
- 9.48: Vocal—James Melton, "Neapolitan Nights."
- 9.51: Foxtrots—Ben Selvin and His Orchestra, "The Woman in the Shoe."
 Paul Whiteman and His Orchestra, "Should I?" (Brown).
 The Rhythmic Troubadours, "On Her Doorstep Last Night."
- 10.0: Waltzes—Paul Whiteman and His Orchestra, "A Bundle of Old Love Letters" (Brown).
 Moana Orchestra, "Imi Au Ia Oe" (King).
 Foxtrots—The Rhythmic Troubadours, "Fairly on the Clock" (Myers).
 Ben Selvin and His Orchestra, "Only Love Is Real."
- 10.12: Vocal—Ernest Hastings, "Perverved Placards."
- 10.15: Foxtrots—Paul Specht and His Orchestra, "The Harbour of My Heart" (Youmans).
 Gil Dech and His Syncopators, "Let's Be Common."
 Paul Specht and His Orchestra, "Keepin' Myself For You."
 Ray Starita and His Ambassadors Band, "Spread a Little Happiness" (Grey, Newman and Ellis).
- 10.27: Waltzes—Russian Novelty Orchestra, "The Love of a Gypsy."
 Novelty Dance Orchestra, "First Love Waltz."
- 10.33: Foxtrots—Ben Selvin and His Orchestra, "Song of the Islands."
 Moana Orchestra, "For You a Lei" (Noble, Hyatt).
 Gil Dech and His Syncopators, "Nobody's Using It Now."
- 10.42: Vocal—James Melton, "Dear Little Mother of Mine."
- 10.45: Foxtrots—Guy Lombardo and His Royal Canadians, "With You."
 Will Osborne and His Orchestra, "I Knew We Two Were One" (Denniker and Osborne).
 Guy Lombardo and His Royal Canadians, "There's Danger in Your Eyes, Cherie."
 Waltzes—Moana Orchestra, "My Hawaiian Souvenir" (King).
 Vic Meyer and His Band, "If I'm Dreaming" (Burke).
- 11.0: God save the King.

Thursday, October 30

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, OCTOBER 30.

- 3.0: Afternoon session—Selected studio items.
- 3.15: Lecturette—"Savoury Tea Dishes." Talk prepared by Home Science Extension Service of Otago University.
- 3.30: Further selected studio items.
- 5.0: Children's session, conducted by Peter Pan.
- 6.0: Dinner session.
- Edison Bell Symphony Orchestra, Paris, "Ballet Egyptian" Pts. 1 to 4.
 Marcu's Rumanian Orchestra, "It Is Written On Your Lips."
- 6.14: Tacet.
- 6.15: Edison Bell Symphony Orchestra, Paris, "Mannon" Pts. 1 to 4.
 The Scala Trio, "Après Un Reve" (Faure).
- 6.29: Tacet.
- 6.30: Edison Bell Symphony Orchestra, Paris, "Carmen" selection (Bizet).
 Band of H.M. Scots Guard, "The Grasshoppers' Dance" (Bucalossi).
 Edison Bell Symphony Orchestra, Paris, "Light Cavalry" Overture.
- 6.44: Tacet.
- 6.45: Scala Salon Orchestra, "Say It With Songs" Selection.
 The Scala Trio, "Elegie" (Massenet).
 Marcu's Rumanian Orchestra, "Two Red Roses, a Gentle Kiss."
- 6.57: Tacet.
- 7.0: News and market reports.
- 7.40: Talk—Mr. H. H. Driver—"Book Review."
- 8.0: Chimes.
 Overture—1YA String Octet, under direction of Mr. J. Whitford Waugh, "Fidello" (Beethoven).
- 8.8: Vocal Quartet—The New Clarion, (a) "Love's Old Sweet Song" (arr. Parks); (b) "Juanita" (arr. Parks).
- 8.15: Novelty—Mister Roe, "Radio Magic."
- 8.30: 1YA String Octet, "Moon Moths—Three Melodies" (Kussner).

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

- 3.0: Chimes. Selected studio items.
- 3.15: Lecturette—Miss I. F. Meadows, "Savoury Tea Dishes." Talk arranged by Home Science Extension Department of Otago University.
- 3.30 and 4.30: Sporting results to hand.
- 5.0: Children's session, conducted by Uncle George.
- 6.0: Dinner music session.
 New Symphony Orchestra, "Minuet" (Boccherini).
 Nat Shilkret and The Salon Group, "Stephen Foster Melodies" (Old Kentucky Home) (Foster).
 Band—H.M. Coldstream Guards, "Wee MacGregor's Patrol" (Amers).
 Salon Orchestra, "Pagan Love Song" (Freed-Brown).
- 6.13: Tacet.
- 6.15: De Groot and His Orchestra, "Waldteufel Memories."
 Band—H.M. Coldstream Guards, "Policeman's Holiday" (Ewing).
 Organ—Jesse Crawford, "I Get the Blues when it Rains."
- 6.29: Tacet.
- 6.30: Band—H. M. Coldstream Guards, "Belle of New York" (Kerker).
 Cello—Beatrice Harrison, "Viennese Melody" (Kreisler).
 Nat Shilkret and The Salon Group, "Stephen Foster Melodies" (Old Black Joe) (Foster).
- 6.43: Tacet.
- 6.45: New Symphony Orchestra, "Nell Gwynn Dances, No. 3" (German).
 Organ—Jesse Crawford, "I'll Always Be in Love With You."
 Band—H.M. Coldstream Guards, "Geisha Selection" (Jones).
 Salon Orchestra, "Wedding of the Painted Doll" (Freed-Brown).
- 6.58: Tacet.
- 7.0: News session, market reports and sports results.
- 7.40: Lecturette—Mr. J. B. Bibby, Dental Division, Department of Health, "Common Dental Diseases."
- 8.0: Chimes.
 2YA Salon Orchestra (Conductor, Mr. M. T. Dixon), Selection from "Chu Chin Chow" (Norton).
- 8.9: Soprano—Miss L. M. Haswell, (a) "When the House is Asleep" (Stanford Haigh); (b) "Big Lady Moon" (Coleridge-Taylor).
- 8.15: Baritone—Mr. Harry Matthew, (a) "Boots" (McCall); (b) "A Smuggler's Song" (Mortimer).

- 8.21: Selection—Salon Orchestra, "Vision of Salome" (Lampe).
 8.29: Humour—Mr. Cedric Gardiner, "A Bathroom Door" (Jefferson Farjeon).
 8.35: Xylophone duo—Reno and Arta, Overture, "Light Cavalry" (Suppe); March, "Stars and Stripes" (Sousa).
 8.42: Contralto—Miss Edith Buckmaster, "Lights o' Lindsfarne" (Edwards).
 8.46: Regal Cinema Orchestra, "Broadway Selection" (Gottler).
 8.52: Tenor—Mr. Lewis Campbell, "The Drums of the Desert" (Hay).
 8.56: Selection—Salon Orchestra, "Request Item."
 9.0: Weather report and station notices.
 9.2: Soprano—Miss L. M. Haswell, "The Arrow and the Song" (Balfe).
 9.6: Debroy Somers Orchestra, "Good News" (de Sylva).
 9.14: Baritone—Mr. Harry Matthew, "Lily of Laguna" (Stuart).
 9.18: Selection—Salon Orchestra, "Sometime" (Friml).
 9.26: Humour—Mr. Cedric Gardiner, "The Absconding Partner."
 9.31: Xylophone duo—Reno and Arta, (a) "Intermezzo 'Amarinda'" (Smith); (b) Waltz, "The Blue Danube" (Strauss).
 9.38: Contralto—Miss Edith Buckmaster, "How Many a Lonely Caravan."
 9.42: Band—H.M. Grenadier Guards, "Martial Moments" (arr. Winter).
 9.50: Tenor—Mr. Lewis Campbell, (a) "An Emblem" (Thompson); (b) "A May Morning" (Denza).
 9.56: Selection—Salon Orchestra, "Romance" (Rubenstein).
 10.0: God save the King.

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

- 3.0: Afternoon session—Gramophone recital.
 3.15: Lecturette—"Savoury Tea Dishes." Talk prepared by the Home Science Extension Service Otago University.
 5.0: Children's hour, conducted by "Ladybird and Uncle Frank."
 6.0: Dinner music session.
 Milan Symphony Orchestra, Intermezzo, "Cavalleria Rusticana."
 Herman Finck's Orchestra, "Schubertiana" (arr. Finck).
 6.12: Tacet.
 6.15: Herman Finck's Orchestra, "Schubertiana" (arr. Finck).
 Rio Marimba Orchestra, "Three O'clock in the Morning" (Robledo).
 6.27: Tacet.
 6.30: Bayreuth Festival Orchestra, "Siegfried Prelude, Act 3" (Wagner).
 Waltz—Eddie Thomas' Collegians, "Moments With You" (Shilkret); "Moonlight on the Danube" (Gay).
 Wuritzer organ—Stanley MacDonald, "La Rosita" (Dupont).
 6.43: Tacet.
 6.45: Regal Orchestra, "Pagliacci Selection" (Leoncavallo).
 Rio Marimba Orchestra, "My Isle of Golden Dreams" (Blaufuss).
 6.57: Tacet.
 7.0: News session.
 7.30: Talk—Mr. C. C. Letch (Instructor of Agriculture), "Certification of Ryegrass."
 8.0: Chimes.
 Presentation of Liza Lehmann's Song Cycle, "A Persian Garden." The words selected from The Rubaiyat of Omar Khayyam, performed by "The Harmonic Quartet." Soprano—Miss Sylvia Angus; contralto—Miss Vera Martin; tenor—Mr. James Shaw; Bass—Mr. E. J. Johnson. (With instrumental accompaniment by the Broadcast-ing Trio).
 Quartet—"Wake for the Sun."
 Tenor—"Before the Phantom of False Morning Died."
 Bass—"Now the New Year Reviving Old Desires."
 Tenor—"Iram Indeed is Gone."
 Quartet—"Come, Fill the Cup."
 Bass—"Whether at Naishapur or Babylon."
 Contralto—"Ah, Not a Drop that from Our Cups We Throw."
 Contralto—"I Sometimes Think That Never Blows so Red."
 Soprano and tenor—"A Book of Verses."
 Bass—"Myself When Young."
 Bass—"Ah, Make the Most of What We Yet May Spend."
 Contralto—"When You and I Behind the Veil are Past."
 Soprano—"But if the Soul can Fling the Dust Aside."
 Soprano—"I sent My Soul Through the Invisible."
 Tenor—"Alas, that Spring should Vanish with the Rose."
 Contralto—"The Worldly Hope Men Set Their Hearts Upon."
 Soprano—"Each Morn a Thousand Roses."
 Quartet—"They Say the Lion and the Lizard Keep."
 Tenor—"Ah, Fill the Cup."
 Tenor—"Ah, Moon of My Delight."
 Bass—"As Then the Tulip for Her Morning Sup."
 Quartet—"Alas, that Spring should Vanish with the Rose."
 Quartet—"They Say the Lion and the Lizard Keep."
 8.45: Piano—Miss Marjorie Alexander, "La Campanella" (Paganini-Liszt).
 8.49: Recitation—Miss Florence Brewins, "Maoriland" (A. H. Adams).
 8.53: Madrid Symphony Orchestra, "Arabian Nights" (Arbos).
 9.0: Weather report and station notices.
 9.2: Band—H.M. Grenadier Guards, "Wine, Women and Song" (Strauss).
 9.6: Soprano—Miss Sylvia Angus, (a) "The Jewel Song" (from "Faust") (Gounod); (b) "Sognai" (Schira).
 9.13: Flute—Mr. W. Hay, "Le Cygne" (Saint-Saens).
 9.16: Bass—Mr. E. J. Johnson, (a) "The Bedouin Love Song" (Pinsuti); (b) "Laugh and Sing" (Drummond).
 9.21: Organ—Quentin MacLean, (a) "Prelude"; (b) "Intermezzo" (from "Portia"); (c) "Oriental March" (Rosse).
 9.29: Recitation—Miss Florence Brewins, (a) "Sherwood" (Alfred Noyes); (b) "The Glove and the Lions" (Leigh Hunt).
 9.35: Piano—Miss Marjorie Alexander, "Sixth Rhapsody" (Liszt).

- 9.41: Contralto—Miss Vera Martin, (a) "O Wondrous Mystery of Love" (Liszt); (b) "Dear Love Thou'rt Like a Blossom" (Liszt).
 9.46: Flute—Mr. W. Hay, "Valse Caprice" (Wood).
 9.52: Tenor—Mr. James Shaw, (a) "The Dream" (Rubinstein); (b) "Nirvana" (Adams).
 9.58: Johann Strauss and Symphony Orchestra, "Doctrinen" (Strauss).
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, OCTOBER 30. SILENT DAY.

Friday, October 31

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, OCTOBER 31.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
 5.0: Children's session, conducted by "Nod" and "Aunt Jean."
 6.0: Dinner session.
 New Mayfair Dance Orchestra, "Sally" Selection (Kern).
 Organ—Sandy Macpherson, "L'Heure Bleu" (Spolianski).
 New Mayfair Dance Orchestra, "Hungarian Medley" (arrgd. Somers).
 6.14: Tacet.
 6.15: Paul Whiteman and His Concert Orchestra, "Midnight Reflections." Zonophone Salon Orchestra, "Sweet Adeline" (Armstrong).
 Cello—Beatrice Harrison, "Hassan" Serenade (Dellus).
 Paul Whiteman and His Concert Orchestra, "Soliloquy" (Bloom).
 6.29: Tacet.
 6.30: Band of H.M. Coldstream Guards, "Florodora" Selection (Stuart).
 Organ—Sandy Macpherson, "In an Old World Garden" (Pepper).
 Zonophone Salon Orchestra, "In the Shadows" (Finck).
 6.44: Tacet.
 6.45: Jack Hylton and His Orchestra, "Memories of Paris" (Padilla).
 Cello—Beatrice Harrison, "Melody" (Dawes).
 New Mayfair Dance Orchestra, "Waltz Medley."
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. F. R. Field, under the auspices of the F. R. Field Scientific Research Society, "Rotation of all Bodies in Nature."
 8.0: Chimes. Royal Philharmonic Orchestra, conducted by Sir Thomas Beecham, "Symphony No. 6, in C Major" (with explanatory notes).
 8.30: Lecture-recital (baritone)—Mr. F. W. Simpson, "Songs and Their Stories," Three Fair Songs, "Fairings" (Easthope-Martin), "Pack and Penny Day" (Easthope-Martin), "Hatfield Bells."
 Two songs of Old London, "The Fortune Hunter" (Willeby), "Buy My Strawberries" (Oliver).
 Two sea songs, "Sea Fever" (Ireland), "Five and Twenty Sailorsmen."
 9.0: Evening weather forecast and announcements.
 9.2: Piano recital—Mrs. F. W. Simpson, L.A.B., A.T.C.L. (annotations by Mr. F. W. Simpson), (a) "Polonaise E Flat Major" (Chopin), (b) "Berceuse" (Chopin); (c) "Norwegian Bridal March" (Grieg), (d) "To the Spring" (Grieg), (e) "Hungarian Phapsody No. 8."
 9.32: Scenes—Mr. J. M. Clark and Company, Scenes from "Henry VIII."
 10.2: New York Philharmonic Orchestra, "Scherzo" (Mendelssohn).
 10.6: God save the King.

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

- 3.0: Chimes. Selected studio items.
 3.30 and 4.30: Sporting results to hand.
 5.0: Children's session, conducted by Uncle Jim.
 6.0: Dinner music session.
 Milan Symphony Orchestra, "Mignon" Overture, Parts 1 and 2.
 H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).
 Jean Lensen and His Orchestra, "Millions D'Arlequin" (Drigo).
 6.14: Tacet.
 6.15: Symphony Orchestra, "Hungarian March" (Berlioz).
 Violin solo—Toscha Seidel, "Hebrew Melody" (Achren).
 Jean Lensen and His Orchestra, "Si Mes Vers Avaient des Ailes."
 Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."
 6.29: Tacet.
 6.30: H. G. Amers and the Eastbourne Municipal Orchestra, "Silhouettes" (Arensky), (a) "Introduction," (b) "La Coquette."
 Bernardo Gallico and His Orchestra, "The Clock is Playing" (Blaauw).
 H. G. Amers and the Eastbourne Municipal Band, "Dancing Doll" (Poupee Valsante) (Poldini), "Silhouettes—The Dreamer."
 6.44: Tacet.
 6.45: Zurich Tonhalle Orchestra, "Il Seraglio" Overture, Parts 1 and 2.
 Violin solo—Toscha Seidel, "Ave Maria" (Schubert).
 Symphony Orchestra, "Coppelia Ballet—Entr'acte and Valse."
 6.59: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. A. E. Wilson, "Tourist and Holiday Resorts."
 8.0: Chimes. An operatic and miscellaneous programme. Note.—During the course of this programme there will be a relay of a sound film feature from the Majestic Theatre.

Overture—2YA Orchestra (Conductor, Signor A. P. Trüda), "Masaniello" (Auber).
 Soprano—Miss Beryl Hope, "O Roberto Tu Che Adoro" (Meyerbeer).
 Piano duet—Misses Dorothy Tighe and Hazel Hardwicke, "Hungarian Rhapsody, No. 2" (Liszt).
 Bass—Mr. R. J. G. Madigan, "Vienni! La Mia Vendetta" (Donizetti).
 Selection—2YA Orchestra, "La Traviata" (Verdi).
 Humour—Miss Vivienne Tait, "A Poetry Recital" (A. A. Milne).
 Novelty instrumental—Nightingales and Church Bells, "A Summer Night Idyll."
 Tenor—Mr. Chas. P. Edwards, "How Many Hired Servants" (Sullivan).
 Contralto—Miss Dorothy Spiller, "Live for To-day" (Fraser-Simson).
 Musical comedy selection—2YA Orchestra, "Rainbow" (Gershwin).
 Weather report and station notices.
 Soprano—Miss Beryl Hope, "Spring's a Lovable Ladye" (Elliott).
 Selection—Kiriloff's Russian Balalaika Orchestra, "Song of the Volga Boatmen" (Traditional).
 Bass—Mr. R. J. G. Madigan, "How from the Skies e'er Darkening."
 Selection—2YA Orchestra, Selection from "The Beggar's Opera."
 Humour—Miss Vivienne Tait, "The Dentist and the Gas."
 Violin—Jacques Thibaud, "Valse" (Brahms).
 Tenor—Mr. Chas. P. Edwards, "One Flower Grows Alone in Your Garden" (Romberg).
 Contralto—Miss Dorothy Spiller, "Love's Cigarette" (Fraser-Simson).
 Chorus—Light Opera Chorus, vocal gems from "Hit the Deck."
 March—2YA Orchestra, "Trumpet Call" (Fucik).
 God save the King.

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

3.0 : Afternoon session—Gramophone recital.
 4.25 : Sports results.
 5.0 : Children's hour, conducted by "Peterkip."
 6.0 : Dinner session.
 Paul Godwin's Orchestra, "Through Weber's Enchanted Woods" (Ernst Urbach), "Mignon—Entr'acte Gavotte" (Thomas), "Firefly's Idyll" (P. Lincke).
 6.14 : Tacet.
 6.15 : Paul Godwin and His Orchestra, "Third Waltz Medley" (Robrecht).
 Members of the State Opera Orchestra, Berlin, "Don Pasquale."
 6.29 : Tacet.
 6.30 : Paul Godwin's Orchestra, "Suite Algerienne" (Saint Saens).
 Symphony Orchestra, "Homage March" (Grieg).
 Vienna Schramel Quartet, "Firefly's Appointment" (Ludwig Siede).
 6.44 : Tacet.
 6.45 : Polydor Brass Band Orchestra, "Il Trovatore" (Verdi).
 Great Symphony Orchestra, "Paying a Visit to Millocker" (Morena).
 6.58 : Tacet.
 7.0 : News session.
 7.30 : Fortnightly dialogue—Messrs. D. Cosgrove and W. Melbourne, "Radio Service Talk."
 8.0 : Chimes. Popular and dance programme.
 Balalaika—Kiriloff's Orchestra, "Medley of Old-Time Songs."
 8.9 : Baritone—Mr. A. G. Thompson, (a) "Trooper Johnny Ludlow" (Temple), (b) "Eyes that Used to Gaze in Mine" (Lohr).
 8.13 : Violin—Miss Irene Morris, (a) "Serenade" (Barns), (b) "Song Without Words" (Mendelssohn-Kreisler).
 Contralto—Miss Nellie Lowe, "The Songs My Mother Sang" (Grimshaw).
 8.19 : Baritone and contralto—Dulcet Duo, "Look Down, Dear Eyes."
 8.25 : Dance music—Bailey-Marston Dance Orchestra, (a) "My Cairo Love" (Zamenik), (b) "Lucky Me, Lovable You" (Ager).
 8.31 : Humorous song—Mr. George Titchener, "Poor Old Joe" (Wm. Beare).
 8.36 : Broadcasting trio, (a) "Waltz" (Carse), (b) "Serenade" (Liebe).
 8.45 : Baritone—Mr. A. G. Thompson, two little Irish songs, (a) "To Me First Love" (Lohr), (b) "You Better Ask Me" (Lohr).
 8.49 : Contralto—Miss Nellie Lowe, (a) "When the House was Asleep" (Haigh), (b) "Break o' Day" (Sanderson).
 8.54 : Dance music—Bailey-Marston Dance Orchestra, (a) "Fiorella" (de Francesco), (b) "Junior" (Donaldson).
 9.0 : Weather forecast and station notices.
 9.2 : Novelty orchestra, (a) "Dance Bagatelle" (Bourdon), (b) "Ginger Snaps" (Bourdon).
 9.8 : Baritone and contralto—The Dulcet Duo, "The Coming of a Dream."
 9.11 : Broadcasting trio, (a) "Syncopation" (Kreisler), (b) "Viennese March" (Kreisler), (c) "Petit Bolero" (Ravina).
 9.20 : Humorous song—Mr. Geo. Titchener, "In the Days when Good Victoria was Queen" (Norman Long).
 9.25 : Dance music—Bailey-Marston Dance Orchestra, (a) "I'm in the Seventh Heaven" (Jolson), (b) "Wouldn't it be Wonderful" (Akst).
 9.31 : Chorus—Light Opera Company, (a) "The Vagabond King" (Friml), (b) "Lady Luck" (Friml).
 9.39 : Dance music—Bailey-Marston Dance Orchestra, (a) "Drink to the Bonds of Friendship" (Colcord), (b) "I'm in the Market for You."
 9.45 : Vocal trio—The Melody Three, "Remember Me to Mary" (Green-Sept).
 9.48 : Dance music—Bailey-Marston Dance Orchestra, (a) "A Night of Happiness" (Conrad), (b) "Punch and Judy Show" (Black).
 9.54 : Vocal trio—The Melody Three, "Pals, Just Pals" (Dreyer-Ruby).
 Continuance of Dance Music until 11 p.m. by the Bailey-Marston Dance Orchestra.
 God save the King.

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

3.0 : Chimes. Selected gramophone items.
 4.25 : Sporting results.
 4.30 : Close down.
 5.0 : Chimes. Children's hour, conducted by "Aunt Sheila."
 6.0 : Dinner music session:
 New Light Symphony Orchestra, "Scene de Ballet—Marionettes."
 Berlin State Opera Orchestra, "Polonaise No. 2" (Liszt, arr. Buller-Berghaus).
 Violin—Mischa Elman, "Vocalise" (Rachmaninoff, arr. Press).
 6.13 : Tacet.
 6.15 : National Symphony Orchestra, "Fra Diavolo" Overture, Parts 1 and 2.
 Piano—Vladimir de Pachmann, (a) "Mazurka in C Sharp Minor, Op. 63, No. 3"; (b) "Mazurka in A Minor, Op. 67, No. 4" (Chopin).
 Trio—De Groot (violin), David Bor (piano), H. M. Calve ('cello), "El Religario" (Padilla).
 6.28 : Tacet.
 6.30 : Band of H.M. Coldstream Guards, "Martha Selection" (Flotow).
 Violin—Mischa Elman, "Caprice in E Flat Major" (Wieniawski).
 New Symphony Orchestra, "Air on G String" (Bach).
 6.43 : Tacet.
 6.45 : New Light Symphony Orchestra, "Persiflage" (Francis), "Londonderry Air" (arr. Grainger).
 Trio—De Groot (violin), David Bor (piano), H. M. Calve ('cello), "Selection in Hebrew Melodies" (arr. Saunders).
 Piano—Vladimir de Pachmann, "Nocturne in E Minor, Op. 72" (Chopin).
 6.58 : Tacet.
 7.0 : News session.
 7.40 : Talk under auspices of W.E.A.
 8.0 : Chimes. Philadelphia Symphony Orchestra, "Lohengrin" Prelude.
 8.9 : Soprano—Miss M. Vickers, (a) "Wandering" (Schubert), (b) "Dedication" (Franz).
 8.15 : 4YA Trio, "Finale from Trio in C Minor" (Beethoven).
 8.22 : Half-hour play—The Sketchers, "The Strutham Amateurs Present" (Constanduros). Characters: Leading Lady, Miss Sheila Neilson; Leading Man, Mr. Jack Lucas; Juvenile Lead, Mr. Harold Bain; Ingenue, Miss Nellie Warren; Aunt, Miss Billie Mitchell; Maid, Miss Mem Jolly; Producer, Mr. Norman West.
 8.52 : Piano and violin—Messrs. Max Scherek and J. A. Wallace, "First Movement from Sonata No. 4" (Beethoven).
 9.0 : Weather report.
 9.2 : Royal Opera Orchestra, Covent Garden, (a) "Anitra's Dance," (b) "In the Hall of the Mountain King" (Grieg).
 9.10 : Soprano—Miss M. Vickers, "The Lord is My Light" (Allitsen).
 9.13 : 4YA Trio, (a) "Salut d'Amour" (Elgar), (b) "Conversation Galante."
 9.21 : Half-hour play—The Sketchers, "Eldorado" (Gilbert). Characters: James Watson, Jack Lucas; Henry Watson, Harold Bain; Betty Watson, Madge Yates; Emma Burrows, Sheila Neilson.
 9.51 : 4YA Trio, (a) "Valse Triste" (Sibelius), (b) "Minuet" (Boccherini).
 9.58 : March—American Legion Band, "March Salutation" (Seitz).
 10.2 : God save the King.

Saturday, November 1

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, NOVEMBER 1.

11.45 : Results of Auckland Trotting Club's meeting, interspersed with selected studio items.
 5.0 : Children's session, conducted by Cinderella.
 6.0 : Dinner session.
 Edith Lorand Orchestra, "The Vagabond King" (Friml).
 Waltz—Dajos Bela Orchestra, "The Swallows" (Strauss).
 6.12 : Tacet.
 6.15 : Frank Westfield's Orchestra, "Chu Chin Crow" (Norton).
 Dajos Bela Orchestra, "O Sole Mio" (arr. Lindeman).
 Wurlitzer organ—Leslie Harvey, "Absent" (Metcalfe).
 6.29 : Tacet.
 6.30 : Dajos Bela Orchestra, (a) "Oh, Spring, How Fair Thou Art" (Lincke), (b) "Songs D'Amour Apres Le Bal" (Czibulka), "Humoresque" (Dvorak).
 6.42 : Tacet.
 6.45 : Dorsey Bros. Orchestra, "Was It a Dream" (Coslow).
 Wurlitzer organ—Leslie Harvey, "Until" (Sanderson).
 Dajos Bela Orchestra, "Faust" (Gounod).
 6.55 : Tacet.
 7.0 : News and market reports.
 7.30 : Talk—Mr. G. D. Rutter, "Gladioli."
 8.0 : Chimes.
 La Scala Orchestra, "Daughter of the Regiment" (Donizetti).
 8.9 : Soprano—Miss Adele Taylor, (a) "The Crown of the Year" (Martin), (b) "Maori Love Song" (Peebles).
 8.16 : Selection—1YA String Octet, under direction of Mr. J. Whitford Waugh, "Iphigenia in Aulis" (Gluck).
 8.22 : Novelty—The Snappy Three, (a) "I Wonder What Is On His Mind" (Bryden), (b) "Latest Hit."
 8.31 : Guitar Orchestra—Walter Kolomoku's Honoluluans, "Southern Melodies Waltz No. 1."
 8.35 : Reel—1YA String Octet, "Molly on the Shore" (Grainger).

- 8.40: Comedy—Mr. J. William Bailey, Stories: "Have You Heard This One" (Own Arrangement).
 8.47: 1YA String Octet, "The Girl Friend" (Rodgers).
 8.59: Evening weather forecast and announcements.
 9.1: Guitar orchestra—Walter Kolomokus Honoluluans, "Southern Melodies Waltz No. 2."
 9.5: Soprano—Miss Adele Taylor, "Down Vauxhall Way" (Oliver).
 9.9: 1YA String Octet, (a) "Maisie" (Carlo), (b) "After My Laughter Came Tears" (Tobias).
 9.14: Novelty—with piano—The Snappy Three, (a) "There's Room In My Heart" (Dyrenforth), Miss Beryl Poulton: (b) Piano solo, "Dancing to Save Your Soul" (Baer), The Snappy Three; (c) "Latest Hit."
 9.23: Banjo—Mario de Pietro, "Frivolous Joe" (De Pietro).
 9.26: 1YA String Octet, (a) "My Love Parade" (Schertzing); (b) "Poor Punchinello" (Pollack); (c) "From Saturday Night Till Monday Morn" (Dubin).
 9.38: Comedy—Mr. J. William Bailey, "Impersonation of the Early Talkies and Stories" (Own Arrangement).
 9.45: Vocal novelty—California Humming Birds, "It Goes Like This."
 9.49: 1YA String Octet, (a) "Happy Days and Lonely Nights" (Rose); (b) "Tell Me More About Love" (Page).
 9.56: Programme of Dance Music.
 Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "Hangin' on the Garden Gate" (Kahn, Fiorito).
 Ben Bernie and His Orchestra, "Have a Little Faith in Me."
 Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad).
 Waltz—Castlewood Marimba Band, "Springtime, Lovetime, You."
 Foxtrots—Colonial Club Orchestra, "I Never Dreamt."
 Bob Haring and His Orchestra, "I'm in the Market For You."
 10.18: Vocal Trio—Earl Burtneft's Biltmore Trio, "If I Can't Have You."
 Foxtrots—Tom Clines and His Music, "So Sympathetic."
 Ben Bernie and His Orchestra, "Let Me Sing and I'm Happy" (Berlin).
 Tom Clines and His Music, "Alone With My Dreams."
 Waltz—Castlewood Marimba Band, "Melancholy Moon."
 10.33: Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Just Another Night With You" (Newman).
 Tom Clines and His Isle o' Blues Orchestra, "Take Me."
 Vocal trio—Earl Burtneft's Biltmore Trio, "Out of the Past."
 10.45: Foxtrots—Colonial Club Orchestra, "I'm on a Diet of Love" (Gilbert, Baer), "Like a Dream" (Rose, Russell, Solomon), "We'll Build a Little World of Our Own" (Brockman).
 Bob Haring and His Orchestra, "Just Like in a Story Book."
 Waltz—Tom Clines and His Music, "It Must Be You" (Turk, Ahlert).
 11.0: God save the King.

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

- Noon: Chimes. Results of Wellington Trotting Club's Spring Meeting, interspersed with selected studio items.
 5.0: Children's session, conducted by "Uncle Toby."
 6.0: Dinner session:
 Grand Symphony Orchestra, "Raymond Overture," Parts 1 and 2.
 Edith Lorand Orchestra, "Wine, Woman, and Song" (Joh. Strauss).
 Orchestra Mascotte with Edith Lorand, "Siren Magic" (Waldteufel).
 6.13: Tacet.
 6.15: Orchestra of the Opera Comique, Paris, "Scenes Pittoresques": (a) "Marche," (b) "Fete Boheme" (Massenet).
 Dr. Ormandy's Instrumental Trio, "Barcarolle" (Offenbach).
 Edith Lorand Orchestra, "Minuet" (Boccherini).
 6.29: Tacet.
 6.30: Edith Lorand Orchestra, "Tales from the Vienna Woods" (Joh. Strauss).
 The Royal Music-Makers, "Ah! Sweet Mystery of Life."
 Orchestra Mascotte with Edith Lorand, "I'd Like to Kiss the Ladies."
 6.44: Tacet.
 6.47: Edith Lorand Orchestra, "Toreador and Andalouse" (Rubinstein).
 "Roses of the South" (Joh. Strauss).
 Dr. Ormandy's Instrumental Trio, "From the Land of the Sky-Blue Water" (Cadman).
 The Royal Music-Makers, "Kiss Me Again" (Herbert).
 6.57: Tacet.
 7.0: News session, market reports and sports results.
 7.40: Lecturette—Mr. Colin W. Smith, B.A., "The Story of Radio."
 8.0: Chimes. From the Town Hall, a relay of the Wellington Symphony Orchestra's final concert of the 1930 season:
 Overture—"The Flying Dutchman" (Wagner), "Symphony in D Minor" (Cesar Franck).
 From the Studio—Weather report and station notices.
 Baritone—Peter Dawson, (a) "Homeward Bound," (b) "The Old Superb" (Stanford).
 From the Town Hall—Relay of the second portion of the Wellington Symphony Orchestra's final concert of the 1930 season:
 "Casse-Noisette Suite" (Tschalkowsky): (a) "Miniature Overture," (b) "Marche," (c) "Dance of the Sugar Plum Fairy," (d) "Danse Arabe," (e) "Danse Chinoise," (f) "Danse des Mirlitons."
 "Variations Symphoniques" (Cesar Franck) (variations for pianoforte and orchestra). At the piano, Mr. Ernest Jenner, A.R.A.M.
 The Orchestra, (a) "Berceuse" (Jarnefeldt), (b) "Praeludium" (Jarnefeldt).
 "Overture to William Tell" (Rossini).

10.0 (approx.): Dance programme from the Studio:

- Foxtrots—Alfredo and His Band, "Now I'm in Love" (Shapiro, Yellen).
 "Singin' in the Bathtub" (Magidson, Washington, Cleary), "Am I Blue?" (Akst, Clarke).
 Waltz—Harry Hudson's Melody Men, "Sleepy Valley."
 10.12: Foxtrots—Alfredo and His Band, "My Love Parade" (Grey, Schertzing), "Smiling Irish Eyes" (Ruby, Perkins).
 Tango—Marcu and His Orchestra, "Do You Still Love Me?"
 10.24: Vocal—G. H. Elliott, "Plain Chocolate" (Lutzen).
 One-step—Harry Hudson's Melody Men, "Tell Me, Mother" (Yvain).
 Foxtrots—Harry Hudson's Melody Men, "Happy Days Are Here Again" (Yellen, Ager), ((O, Ya, Ya!))
 Waltz—"Marie" (Berlin).
 10.36: Foxtrots—The Plaza Band, "Cute Little Flat."
 Harry Hudson's Melody Men, "Lucky Me, Lovable You" (Yellen, Ager).
 Vocal—G. H. Elliott, "Sentimental Luke" (Lutzen).
 10.45: Tango—Motoi and His Orchestra, "In the Twilight."
 Foxtrots—Harry Hudson's Melody Men, "Mickey Mouse," "Building a Nest for Mary" (Rose, Green), "Cuckoo in the Clock" (Collins).
 Waltz—Alfredo and His Band, "Let Me Have My Dreams."
 11.0: Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (930 KILOCYCLES)—SATURDAY, NOVEMBER 1

- 3.0: Afternoon session—Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, "Aunt Pat" and "Birdman."
 6.0: Dinner session:
 Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder Medley."
 Waltz—Symphony Orchestra, "Doerinen" (Strauss).
 6.12: Tacet.
 6.15: Piano solos—Gil Dech, "Wedding of the Painted Doll" (Freder).
 Constance Mering, "So Dear" (Cesar).
 Waltz—Eddie Thomas's Collegians, "Waltz Medley."
 Saxophone—Rudy Wiedoeft, "Minuet" (Beethoven).
 6.28: Tacet.
 6.30: Mandolin Band—Circolo Mandolinistico, "La Traviata" Prelude, Acts 1 and 4" (Verdi).
 Waltz—Symphony Orchestra, "When the Lemons Bloom" (Strauss).
 6.42: Tacet.
 6.45: Musical Art Quartet, "Mighty Lak' a Rose" (Nevin).
 Saxophone—Rudy Wiedoeft, "Valse Mazanetta" (Wiedoeft).
 Piano—Gil Dech, "I Kiss Your Hand, Madame" (Erwin).
 Eddie Thomas's Collegians, "Beautiful Ohio" (Earl).
 6.57: Tacet.
 7.0: News session.
 7.30: Sports results.
 8.0: Chimes. Vaudeville and Dance Programme:
 B.B.C. Wireless Military Band, (a) "Dance of the Tumblers" (Rimsky-Korsakov); (b) "Golliwog's Cake-Walk" (Rimsky-Korsakov).
 8.9: Song with ukulele—Mr. Eddie Hegan, "Etiquette Blues" (arr. Hegan).
 8.14: New Concert Orchestra, "Jolly Fellows" ("Lustige Bruder").
 8.18: Joyous Songs at the piano—The Joyous Pair, (a) "I'm Sailing on a Sunbeam" (Dwyer), (b) "Telling it to the Daisies" (Warren).
 8.24: Studio Octet (Harold Beck, Conductor), "Hungarian Lustspiel" Overture" (Kela Bela).
 8.34: Song and story—Mr. Jock Lockhart, introducing "Man Without Woman" (Elliott Rutherford).
 8.40: Trombone—Mr. E. G. Williams, "Il Bacio" (Arditi).
 8.45: Comedy—Charles Penrose, "The Laughing Policeman" (Grey).
 8.48: Song at the piano—Mr. Jack Blair, "The Song that I Sing in My Dreams" (Hanley).
 8.52: Studio Octet, (a) "Autumn Phantasy" (L. G. Booth), (b) "Scottish Tunes" (Carse).
 9.0: Weather forecast and station notices.
 9.2: Comedy—Charles Penrose, "Laughter of Lemons" (Grey).
 9.5: Song with ukulele—Mr. Eddie Hegan, "O How I Love My Darling."
 9.10: Studio Octet, (a) "Legende" (Friml), (b) foxtrot, "Indian Dawn."
 9.19: Joyous songs at the piano—The Joyous Pair, (a) "I'm Just a Vagabond Lover" (Vallee), (b) "Living in the Sunlight, Loving in the Moonlight" (Sherman).
 9.25: Paul Whiteman's Orchestra, "Song of India" (Rimsky-Korsakov).
 9.29: Song and story—Mr. Jock Lockhart, introducing "You'll Always Meet a Scotchman" (Wood).
 9.35: Trombone—Mr. E. G. Williams, "Berceuse de Jocelyn" (Godard).
 9.40: Chorus—Sheffield Orpheus Male Voice Choir, "Hymn Before Action."
 9.43: Studio Octet, "Keltic Lament" (Foulds).
 9.48: Songs at the piano—Mr. Jack Blair, (a) "One Alone" (from "The Desert Song") (Romberg), (b) "Let Me Have My Dreams" (Akst).
 9.54: Studio Octet—Valse, "Southern Roses" (Strauss).
 9.59: Dance music until 11 p.m.
 Foxtrots—Waring's Pennsylvanians, "With You" (Berlin).
 Leo Reisman and His Orchestra, "Charming."
 Waring's Pennsylvanians, "There's Danger in Your Eyes, Cherie" (Richmond, Meskill, Wendling).
 Nat Shilkret and His Orchestra, "Caribbean Love Song."
 10.12: Waltz—Leo Reisman and His Orchestra, "Shepherd's Serenade."
 Foxtrots—Rudy Vallee and His Connecticut Yankees, "Celebrated Stein Song" (Fenstad, Colcord, Vallee).
 Jack Hylton and His Orchestra, "Bunkey Doodle-I-Doh."

- 10.21: Vocal—Chick Endor, "Singin' in the Bathtub" (Magidson, Washington, Cleary).
 10.24: Foxtrots—The High Hatters, "In My Little Hope Chest."
 Jack Hylton and His Orchestra, "We're Uncomfortable."
 The High Hatters, "Sing, You Sinners" (Coslow, Harling).
 Waltz—George Olsen and His Music, "Romance" (Leslie, Donaldson).
 10.36: Foxtrots—Nat Shilkret and His Orchestra, "When I'm Looking at You."
 George Olsen and His Music, "After a Million Dreams."
 Nat Shilkret and His Orchestra, "The Rogue Song."
 10.45: Vocal—Chick Endor, "Lady Luck" (Perkins).
 10.48: Foxtrots—George Olsen and His Music, "I'm on a Diet of Love."
 Jack Hylton and His Orchestra, "House on the Hilltop."
 George Olsen and His Music, "Mona."
 Jack Hylton and His Orchestra, "Dreamy Honolulu."
 11.0 : God save the King.

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

- 3.0 : Chimes. Selected gramophone items.
 4.25: Sporting results.
 5.0 : Chimes. Children's hour, conducted by Uncle Sambo.
 6.0 : Dinner music.
 Waltz—Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde), (b) "Mignonette" (Nicholls).
 Dajos Bela Orchestra, "Elgaffein" (Landen).
 6.12: Tacet.
 6.15: Frank Westfield's Orchestra, "Classica" (arrgd. Tilsley).
 Organ—Sigmund Krumgold, "Indian Love Call" (Friml).
 Waltz—Dajos Bela Orchestra, "You, Only You" (Arnold).
 6.27: Tacet.
 6.30: Raie da Costa Ensemble, "Funny Face" (Gershwin).
 Waltz—Dajos Bela Orchestra, "The Sphinx" (Poppy).
 6.42: Tacet.
 6.45: Orchestra Mascotte, (a) "The Flowers' Dream" (Translateur), (b) "Whispering of the Flowers" (Von Blon).
 Organ—Sigmund Krumgold, "Gypsy Love Song" (Herbert).
 Dajos Bela Orchestra, "Electric Girl" (Helmberg-Holmes).
 6.58: Tacet.
 7.0 : News session.
 8.0 : Relay of Dunedin Burns Club Concert, "Halloween," from His Majesty's Theatre, Dunedin.
 10.0 : Dance session.
 Foxtrots—Abe Lyman and His California Orchestra, "Another Night."
 Meyer Davis's Hotel Astor Orchestra, "If I Had My Way."
 Abe Lyman and His California Orchestra, "I'm Only Making Believe" (Davis-Coots).
 Chic Scoggin and His Pla-Mor Orchestra, "If I Could Write a Song" (Fulcher).
 Waltz—Meyer Davis's Hotel Astor Orchestra, "There Must Be Somebody Waiting for Me" (Donaldson).
 10.15: Foxtrots—Jesse Crawford and His Orchestra, "The Prep Step."
 Irving Mills and His Hotsy Totsy Gang, "Manhattan Rag."
 Jesse Stafford and His Orchestra, "My Sweetest than Sweet."
 Vocal—Chester Gaylord, "Dance Away the Night" (Thompson-Stamper).
 Foxtrots—Irving Mills and His Hotsy Totsy Gang, "What Kind of Man is You" (Carmichael).
 Tom Gerun and His Orchestra, "One Sweet Kiss."
 Jack Denny and His Mount Royal Hotel Orchestra, "The End of the Lonesome Road" (Ruby-Perkins).
 Waltzes—Abe Lyman and His California Orchestra, "If I'm Dreaming" (Dubin-Burke), "The Shepherd's Serenade."
 10.42: Vocal—Chester Gaylord, "Just You, Just Me." (Klages-Greer).
 Foxtrots—Tom Gerun and His Orchestra, "Some Day Soon."
 Jack Kenny and His Mount Royal Hotel Orchestra, "Scotchie" (White).
 Foxtrots—Abe Lyman and His California Orchestra, "Sally" (Dubin-Burke), "If He Cared" (Grey-Stothart).
 Chic Scoggin and His Pla-Mor Orchestra, "She Chills Me."
 11.0 : God save the King.

- Baritone—Mr. Arthur Gally, (a) "To-morrow" (Keel); (b) "The Gentle Maiden" (arr. Somervell).
 Vocal and instrumental—The Salon Trio, Cello solo, "Cradle Song" (Schubert); Soprano with violin obligato, "Villa" (from "Merry Widow" (Lehar); Violin solo, "Romance and Bolero" (Danda).
 Contralto—Miss Martha Williamson, "The Ships of Arcady" (Head).
 Negro spiritual—Fisk Jubilee Singers, "Ezekiel Saw the Wheel."
 9.30: God save the King.

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

- 3.0 : Afternoon session of Selected Gramophone Items.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by St. John's Presbyterian Sunday School Choir.
 7.0 : Relay of the Evening Service from the Vivian Street Church of Christ. Preacher: Pastor W. G. Carpenter. Organist: Miss Hazel Hunter.
 8.15: (Approx.)—Studio Concert by the Wellington Municipal Tramways Band (Conductor, Mr. E. Franklin) and 2YA Artists.
 March—Band, "The Hero's Return" (Rimmer).
 Mezzo-soprano—Mrs. J. King, (a) "Thou'rt Like a Lovely Flower" (Schumann); (b) "Fragile Things" (Montague Phillips).
 Berlin State Opera Orchestra, "Polonaise No. 2" (Liszt).
 Baritone—Mr. W. E. Crewes, "Thanks Be to God" (Dickson).
 Cornet—Bandsman Stevenson, "Zelda" (Code).
 Tenor—Mr. Stewart Nelson, "Eleanore" (Coleridge-Taylor).
 Negro spiritual—Ufika Jubilee Singers, "Climbin' Up the Mountain."
 Selection—Band, "Incidental Music" to "The Merchant of Venice."
 Weather report and station notices.
 Mezzo-soprano—Mrs. J. King, "I Will Not Grieve" (Schumann).
 Selection—Band, "Maritana" (Wallace).
 Baritone—Mr. W. E. Crewes, two numbers from "Songs of the Malvern Hills" (Coningsby Clarke), (a) "I Be Hopin' You Remember"; (b) "The Little Girl from Hanley Way."
 Negro spiritual—Ufika Jubilee Singers, "Angels Watching Over Me."
 Fantasia—Band, "The Old Rustie Bridge" (Walton).
 Tenor—Mr. Stewart Nelson, two numbers from "Songs of the Norse-land" (Lohr), (a) "Eyes that Used to Gaze in Mine"; (b) "You Love the Time of Violets."
 Waltz—Band, "Silver Showers" (Rimmer).
 March—Band, "Punchinello" (Rimmer).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, NOVEMBER 2.

- 3.0 : Relay from the Wesley Church, Fitzgerald Avenue, of Sacred Cantata "Faith," by Charles Jessop. Soprano—Miss Corrie Aslin; contralto—Miss Alice Vinsen; tenor—Mr. T. G. Rogers; bass—Mr. R. Lake. Organist—Mr. A. M. Owen; conductor—Mr. J. Chaplin.
 4.15: (Approx.)—Musical recordings from studio.
 5.30: Children's Song Service by children of Methodist Sunday Schools.
 6.15: Chimes from studio.
 6.30: Relay of Evening Service from Wesley Church, Fitzgerald Avenue. Preacher: Student W. H. Greenslade. Organist: Mr. A. M. Owen. Choirmaster: Mr. J. Chaplin. The following items will be given during the service:—"Hymn to Music" (Dudley Buck); Anthem, "Come Unto Me" (H. E. Nichol).
 8.0 : (Approx.)—Musical recordings from studio.
 8.15: Relay of after-church concert from 4YA, Dunedin.
 9.30: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, NOVEMBER 2.

- 3.0 : Chimes. Relay from Concert Chamber, Town Hall, of Lecture on Christian Science by Judge Samuel W. Greene, C.S.B., Member of the Board of the First Church of Christ Scientist; in Boston, Mass., U.S.A.
 4.0 : Selected gramophone items.
 5.30: Children's Song Service, conducted by Big Brother Bill.
 6.30: Relay of evening service from Church of Christ, St. Andrews Street, Dunedin. Preacher, Pastor W. D. More. Organist, Miss W. A. McKes, A.T.C.L.
 7.45: Orchestral—Berlin State Orchestra, "Capriccio Italien Op. 45."
 Piano—Mischa Levitski, "Organ Prelude and Fugue in A Minor."
 Choir—Choir of Temple Church, "Praise the Lord, O My Soul."
 Kauffman's Orchestra, "The Gipsy Baron" (Strauss).
 8.15: Studio programme to be rendered by St. Kilda Band, under direction of Mr. James Dixon, with assisting artists.
 March—Band, "Entry of the Gladiators" (Fucik).
 Cornet—Mr. G. J. Christie, "I Passed By Your Window" (Brahe).
 8.25: Soprano—Mrs. D. Carty, (a) "The Bells of St. Mary" (Douglas), (b) "The Mountains of Mourne" (French).
 8.32: Cello—W. H. Squire, "Ave Verum" (Mozart—arrgd. Squire).
 8.36: Selection—Band, "Selection of Sanderson's Songs" (arrgd. Hume).
 8.46: Baritone—Mr. W. B. Lambert, "Sun of My Soul" (Carey).
 8.51: Trombone fantasia—Band, "The Joker" (Moss).
 8.58: Weather report.
 9.0 : Bagpipes—Pipe Major John Macdonald, "Lament for Donald Ban MacGrimmon" (Callum MacGrimmon).
 9.8 : Soprano—Mrs. D. Carty, "The Song that Reached My Heart" (Jordan).
 9.12: Overture—Band, "Zitella" (Hume).
 9.22: Baritone—Mr. W. B. Lambert, (a) "The Faithless Men" (Halavey). (b) "Rocked in the Cradle of the Deep" (Knight).
 9.28: March—Band, "Dunedin" (Alford).
 9.32: God save the King.

Sunday, November 2

IYA, AUCKLAND (900 KILOCYCLES)—SUNDAY, NOVEMBER 2.

- 3.0 : Afternoon session—Selected studio items, including Literary Selection by the Announcer.
 6.0 : Children's Song Service, conducted by Uncle Bert, assisted by Beresford Street Sunday School.
 6.55: (Approx.)—Relay Divine Service St. Matthew's Church. Preacher: Canon C. H. Grant Cowan. Organist: Mr. J. H. Philpott.
 8.30: (Approx.)—Bayreuth Festival Orchestra, "The Graal Scene" (from "Act 1, Parsifal") (Wagner).
 Baritone—Mr. Arthur Gally, "Eleanore" (Coleridge-Taylor).
 Vocal and instrumental—The Salon Trio, Pianoforte solo, "Rhapsody No. 6" (Liszt); Soprano with violin obligato, "Serenata" (Braga); Violin solo, sextet, "Lucia D'Lammermoor" (Donizetti).
 Contralto—Miss Martha Williamson, (a) "Without Thee" (Gounod); (b) "As You Pass By" (Russell).
 Negro spiritual—Fisk Jubilee Singers, "Little David" (Traditional).

Empire Broadcasting Programme Features

(Concluded from page 2.)

to provide a means for long-distance broadcasting, and advantage has been taken of the peculiar suitability of the 30-metre wavelength. . . . It is a matter for regret that we should have neglected to take advantage of the wonderful opportunity which broadcasting provides for communication with the outlying sections of the Empire.

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This was two and a-half years ago! Now with the amazing technical advances that have taken place in the meantime, surely we Britishers are not altogether so unprogressive as to sit by with folded hands, and a resigned expression, feebly murmuring, "It can't be done," while someone else grasps the opportunity and again leads the way. Let us hope that the next cabled report on the subject after the conference with the B.B.C. experts will not be in the same pessimistic vein as the one referred to in the beginning of this article.

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(Concluded from page 19.)

Christchurch Topics

THE fortnightly "Radio Service" talk will be given at 7.30 by Mr. D. Cosgrove and Mr. W. Melbourne.

Dance music, played by the popular Bailey-Marston Dance Orchestra will be broadcast from 3YA following on a session of popular concert items.

Dunedin's Programme

THE weekly W.E.A. talk will be broadcast from 4YA at 7.40.

An attraction will be two half-hour plays presented by "The Sketchers," under the direction of Miss Sheila Neilson, the well-known elocutioniste.

The plays are entitled "The Strutham Amateurs Present" and "Eldorado." Excellent casts of characters have been arranged. Miss Mollie Vickers, the possessor of one of the finest radio soprano voices in Dunedin, will be heard in several solo numbers. The Studio Trio will supply the instrumental portion of the programme, the items including several light numbers.

SATURDAY

At 1YA

RESULTS of the Auckland Trotting Club's meeting will be broadcast during the afternoon.

During the evening's programme the String Octet will play several numbers, and the Snappy Three, already well known for their delightful entertainments, will be heard.

Notes from Wellington

WHEN, at 7.40 p.m., Mr. Colin W. Smith, B.A., technical editor of the "Radio Record," is introduced, listeners will have on opportunity of meeting one who is well known through the radio Press. Mr. Smith commences tonight a series of non-technical talks about radio.

THE programme from 8 p.m. to approximately 10 o'clock will be devoted to a relay of the final concert of the Wellington Symphony Orchestra's 1930 season.

The first half of the programme will be devoted to the famous "Flying Dutchman Overture" and Cesar Franck's "Symphony in D Minor." The second half of the programme will, following the usual custom, be of a lighter nature, the works to be presented being the popular "Nutcracker Suite," Cesar Franck's "Variation Symphoniques" (the pianist being Mr. Ernest Jenner, A.R.A.M.), Jarnefeldt's "Berceuse" and "Praeludium," and the "William Tell" overture. The usual dance programme of selected gramophone records will be presented at the conclusion of the orchestral relay.

Notes from Christchurch

CONTRIBUTING to the varied programme at 3YA will be Mr. Eddie Hegan (songs with ukulele), the Joyous Pair (songs at the piano), the Christchurch Broadcasting Trio, Mr. Jock Lockhart (Scottish humourist), Mr. E. G. Williams (trombonist), and Mr. Jack Blair (songs at the piano).

Australian Programmes

Times Corrected for New Zealand.

Thursday, October 23.

STATION 2FC: 10 p.m., community singing and band music from Ashfield Town Hall.

2BL: 10 p.m., the A.B.C. Players present "The Green Goddess," a four-act play.

3LO: 10 p.m., "Tunin and Hearem," 10.30 p.m., dance music, interspersed with vaudeville items.

3AR: 10.15 p.m., studio reproductions of classical selections.

Friday, October 24.

STATION 2FC: 10 p.m., vocal and instrumental selections. 11.15 p.m., relay from 3LO Melbourne of variety items.

2BL: 10 p.m., the "Happy Days" Revue Company.

3LO: 10 p.m., transmission of an organ recital from St. Paul's Cathedral. 10.35 p.m., "Breton Folk Song" Cycle. 11.15 p.m., variety items.

3AR: 10.15 p.m., community singing from the Central Hall, Geelong.

Saturday, October 25.

STATION 2FC: 10 p.m., vocal and instrumental selections. 11.4, results in the New South Wales State elections.

2BL: 10 p.m. and 12.7 p.m., Harrison White banjo troupe. 10.30 p.m., relay of boxing contest at the Sydney Stadium.

3LO: 10 p.m., relay from the Melbourne Town Hall of a concert by the Royal Victorian Liedertafel.

3AR: 10.10 p.m., "Makeshifts," a stage comedy. 10.42 p.m., "Columbine," a fantasy. 11.33 p.m., "The Master of the House." 12.15, "The Proposal," a one-act comedy.

Sunday, October 26.

STATION 3LO: 10 p.m., a concert by Gustave Slapowski and the Victorian Professional Orchestra. 11 p.m., interval. Wurlitzer selections from the State Theatre.

3AR: 10.30 p.m., an entertainment by the Ballarat Male Harmonists.

Monday October 27.

STATION 3LO: 10 p.m., choral and chamber music. 10.45, pianoforte

4YA Relay

FROM His Majesty's Theatre, the concert to be given by the Dunedin Burns' Club will be relayed.

Trade Notes

New Quarters for A.W.A.

OWING to the expansion of their business Amalgamated Wireless have found it necessary to move into more commodious premises situated at the corner of Willis and Bond Streets, Wellington.

A.W.A. have taken over the whole of the third floor of this building. The floor space is divided into two parts, one used for bulk store, packing and unpacking, while the other part is divided up into general offices, showroom and storeroom for less bulky goods.

The building is a handsome one of rather unique design, and A.W.A. can now claim to be housed in a building compatible with the prestige of the company, the class of goods manufactured and the varied wireless services carried on by them. On entering the commercial section the inquiry counter is immediately on the right. This spacious room houses the bookkeeping and correspondence sections. Adjoining it on the left is the accountant's office, and next to that the manager's office, and then the showroom and a storeroom, where the most frequently moved lines are handled. In the farthest corner is the laboratory, where defective apparatus is put right. In their new premises Messrs. Amalgamated Wireless feel that they will be able to serve their customers even better than in the past.

recital. 11.40 p.m., the "Bitza" Revue.

3AR: 10.15 p.m., old-time dance music, interspersed with variety numbers.

Tuesday, October 28.

STATION 3LO: 10 p.m., Gustave Slapowski and the Victorian Professional Orchestra.

3AR: 10.15 p.m., concert by the Echuca Federal Band.

Wednesday, October 29.

STATION 3LO: 10 p.m., a vaudeville programme from the Tivoli Theatre. 11.15 p.m., the A.B.C. Military Band, assisted by the "Sundowners" Male Quartet.

3AR: 10 p.m., Relay of a special musical programme from 2FC.

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Short-wave News

News from Radio Saigon.

THE following is an extract from a letter recently received from Saigon:—

"We have no call sign, properly speaking. The words of our announcer, 'Hello, hello, here is Radio Saigon,' are preceded by notes obtained by the clashing of a rod on a crystal glass. On the other hand, each item is announced as being played by the orchestra or the 'septuor' (a piece for seven voices or instruments, which probably refers to the Chinese items which are so familiar) of Radio Saigon. Finally, our wave-length is fixed at 49 metres, and stabilised by a quartz crystal. Therefore, having found it once, you should have no difficulty in tuning in again, at the hours which have been indicated by our announcer, which we will repeat in a few days, or when our transmitting hours are changed or 'modified.'"

Reports are requested on the station's transmissions between 10.45 a.m. and 1.45 p.m. (3.30 p.m. till 6.30 p.m., New Zealand summer-time).

The Vatican Short Wave.

ACCORDING to recent information from Europe, this short-wave station will shortly be opened. It is being presented to His Holiness the Pope by the Marconi Company. Two wavelengths will be employed, 19.84 and 50.26 metres. The power of its aerial feeder system will be about 12 kilowatts.

Stations Heard During Week Ending October 18.

RECEPTION conditions have been fairly good except around 50 metres, where static has been very severe.

RV15, Siberia, 70 metres.—Volume excellent every evening with a fair amount of static.

ZLXX, Wellington, 62.8 metres, was testing on Wednesday and Thursday evenings. Quality and volume was very good.

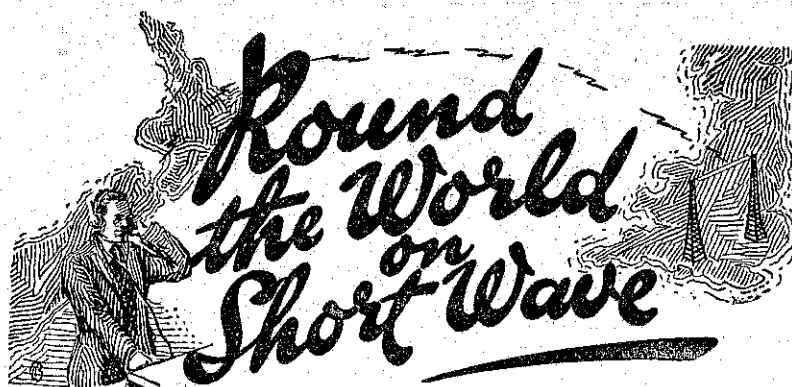
50 metres (about).—At 10.30 p.m. on Tuesday some American talk was just audible through severe static.

49.9 metres (about).—Each morning reaching about R6 and 7 by 6.30 a.m. and then going off again. Static has been too bad to identify. The voice is English. On Thursday morning—the best during the week—figures and prices in sterling were being given.

At 6.37 a.m., "The first item will be —" was heard, followed by music. The fact that prices were being given in £ s. d. appears to prove this to be an English station. Who is it?

W9XF, Chicago, 49.83 metres.—This station is on till 7 p.m. our time, coming in at great volume till closing down.

WSXL, Cincinnati, 49.5 metres.—On Saturday volume was fair, but, as with all stations on this band, static was bad.



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.

W3XAL, Boundbrook, New Jersey, 49.18 metres.—Sunday and Saturday, maximum R7 by 5 p.m.

Radio Saigon, Indo-China, 49 metres.—Were R9 on Sunday at 10.10 p.m. Static very bad.

WSXX, Pittsburgh, 48.86 metres.—Sunday, at 5 p.m., were R8, with messages to the Far North.

W2XAF, Schenectady, 31.4 metres, Sunday and Saturday. Just audible at 1 p.m., with very little increase till about 3 p.m. On Saturday a long foreign talk was put over till 4 p.m. from about 3.15 p.m.

Zeesen, Germany, 31.38 metres.—Every morning; Tuesday was the best, being R9 with one stage of audio at 6.30 a.m., which time is the best just now.

WIXAD, Springfield Mass., 31.35 metres.—Were on till 5.3 p.m. on Saturday. Volume was good. Three calls were given, WIXAD being the last; the others were difficult to copy, as they were given so quickly, with the strong American accent, sounded like WBB and WBA, but not too sure.

PCJ, Eindhoven, Holland, 31.28 metres.—Thursday morning R7 at 6.30 a.m., decreasing to R5 by 7.30 a.m. Friday, about the same. Reception was very poor on Saturday, afternoon.

30.3 Metres (about).—Saturday, at 2.30 p.m., duplex in English, only odd words readable.

LSH, Buenos Aires, 29 metres.—Sunday and Saturday, at excellent volume. Closed at 3.4 p.m. on Sunday, and after 3.30 p.m. on Saturday.

28.5 Metres (about).—Saturday at 3 p.m., foreign talk at R5.

VK2ME, Sydney, 28.5 metres.—Telephone service with London twice daily, except Sunday.

GBP, Rugby, 27.7 metres.—Telephone service with Sydney.

ZLW, Wellington, 27.3 metres.—Testing with VK2ME several evenings—too much volume; can hear several metres either side of wavelength.

G5SW, Chelmsford, 25.3 metres.—Still no good in the mornings; volume all right, but rapid fade every time.

3RO, Rome, 25.4 metres.—Monday was the only morning that this station was not up to its best; it was gushy at R4 at 7.30 a.m. Other mornings, excellent at R9.

Radio Saigon, Indo-China, 25 metres (about).—At 11.10 p.m. on Saturday at R9, with one stage of audio, "Hullo—here is Saigon," with musical item. This appeared to be a test, as the music was interrupted several times to call.

Concert From Europe

I AM indebted to Mr. W. Pen-seler, German Consul for New Zealand, for the following information:—

On the nights of November 7 and 8, from 0.30 to 1.30 (middle European time), an orchestral concert by the Dresden State Orchestra will be relayed from Leipzig and broadcast by the Konigswusterhausen (Zeesen) broadcasting station, on a wavelength of 31.38 metres.

The programme comprises: Overture "Oberon" (K. M. von Weber). Siegfried Idyll (Richard Wagner) 2nd Symphony (L. van Beethoven).

The time in New Zealand will be from 11.30 a.m. till 12.30 p.m. on November 8.

KIXR, Manila, 48.86 metres.—Each evening except Monday from 10 p.m. Volume is better now, but static bad most evenings.

48.5 metres (about).—Sunday at 5 p.m. music at R6; generator hum spoils chance of hearing call.

43.4 metres (about).—7 p.m. on Wednesday, duplex at R8; static bad.

VK2ME, Sydney, 37.6 metres, duplex with ZLW, Wellington several evenings. R9.

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League of Nations Transmitter To Cover the World

THE importance and reliability of short-wave communication is still further emphasised by the decision to install a short-wave transmitter as a permanent part of the equipment of the League of Nations Broadcasting Station.

The question of the establishment of this station has been under discussion for some two or three years past, and the matter has been delayed owing to Swiss fears that, in the event of a European war, the neutrality of Switzerland might be involved. It is understood that the Radio Suisse Company has actually commenced work in connection with this new station, and that both a short-wave and a medium-wave transmitter will be employed.

In this way it will be possible to transmit communications to all parts of the world. The actual power of the station is still under consideration, but it will probably be in the region of 50 k.w.

The normal purpose of the station will be to transmit its communications to countries which are members of the League, but as this will not occupy a great deal of its time, it will be used for the relaying of various European broadcasts. In this way the station will make certain European broadcast programmes available to British listeners, while on the other hand, certain British programmes will be made through this station available to Europe and other parts of the world.

An Ambitious Project

IT is reported that a group of American financiers, headed by John D. Rockefeller, jun., and the leading wireless companies, propose to erect in New York a "Radio City." The objects of this venture are to co-ordinate the arts embraced in the electrical entertainment industry, and to combine with them a theatre, a concert hall, and a cinema. The scheme will cost approximately fifty million pounds, and take three years to complete. Besides theatres and cinemas, there will be broadcasting studios, several of them three storeys high, and large enough to accommodate a full-sized orchestra and audience.

They closed at 11.30 p.m. "As we are going to dine," and he "wished you a good appetite" to the person he was talking to. Closed till 15 past 12, GMT. 24.4 Metres (about).—After 11 p.m. Wednesday, an American was giving a lot of figures, etc. Call not heard. 24.5 and 23.6 Metres (about).—Dutch duplex every evening, some times up to R8 and 9.

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DESPITE the ever-increasing number of women's clubs, their popularity is so great in these days that most of the London ones are finding it almost impossible to close down for the usual "dead" season in August. Even re-decorating schemes have had to be postponed owing to the difficulty any one club would have in accommodating all the members of an other during that period. One reason for this thriving state of affairs is the extent to which women make use of their clubs for wedding receptions or parties, while private dinner parties have to be catered for nearly every night in the week. So popular has the Ladies' Carlton Club become that the question of limiting the membership has had to be seriously considered. In Wellington we have four women's clubs, all in a good financial position, and at the annual meeting of one of these a proposal to close down for some weeks at Christmas was defeated by an overwhelming majority.

THE new carrots now coming into the market are always a welcome addition to a menu, especially when cooked thus:

Wash and scrape lightly some young carrots, and cut them into slices. Put them into a fireproof baking-dish with half a pint of stock, two tablespoonfuls of white wine, a pinch of sugar, and a small bunch of herbs, and simmer slowly for half an hour. Then take out the herbs. Work well together a teaspoonful of flour and one ounce of butter; stir this into the carrots, etc. Season to taste and continue to cook gently for a few minutes longer; then sprinkle with chopped parsley to serve.

O. HENRY was never at a loss for phrases calculated to subtract money from an editor. Mr. "Bob" Davis, the New York Columnist, who as magazine editor discovered O. Henry, has the following among his specimen appeals:—"Dear Mr. Man: I am in need of some cash, and have selected you to produce the same." And another: "The bearer of this note will be glad to return with evidence calculated to strengthen my belief in the brotherhood of man. The boy can be trusted with a cheque, cash, or postage stamps." He once sent a cheque to Bob Davis drawn on his own bank for fifty dollars. "This handsome steel engraving," he wrote in the accompanying note, "contains everything except a signature. Can you write?" Bob Davis once remarked to O. Henry, after he had introduced him to a Buffalo Bill sort of character called Jack Crawford: "Give Jack Crawford a list of the editors you want killed." "I

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don't want 'em killed," said O. Henry, "just crippled and left to suffer. Besides, there is only one vital spot in an editor, and nobody knows where that is."

THERE is no doubt that the woman of fifty at the present day looks years younger than the photographs one sees of our grandmothers, when they were that age. Science is doing so much for health now, that people are living longer and remaining young longer. Certainly, women are being more sensible in their mode of dress.

square and place on it a heap of bran. Now, bringing the four corners together, sew it into a bag shape. Press this bag of bran well into the carton, so that joints do not show; it will then form a pretty pin cushion.

WITH the coming season we are to see the return of the curl (says an English writer). Women are realising that to wear a long, full gown with cropped hair gives an unbalanced effect. The discovery that long skirts carry with them (together with germs and

Thought for the Week

"A bone to the dog is not charity. Charity is the bone shared with the dog when you are just as hungry as the dog."

JACK LONDON In "The Road."

The tight waist and pinching shoes of the 'nineties are not tolerated nowadays. Who wouldn't have wrinkles with a twenty-one inch waist band, and uncomfortable shoes, of not more than size three! Thank goodness, now size five is the average.

PEOPLE are now making an art of cooking, and it is becoming fashionable for all women to do their own; though there will always remain, in spite of fashion, a certain number who are too idle to cook, and whose unlucky family consumes little but tinned food, and those preparations which give the least trouble and nourishment and easy digestion is never thought of.

HEALTH teaching in schools and clinics is doing an immense amount of good; the reasons for cleanliness, open windows, and why the teeth should be kept clean are being thoroughly emphasised. Now Health and Beauty have more chance, although there are still, according to Lady Askwith, some women who think that "an animated skeleton is a thing of beauty, and that lips should look like a bleeding gash in the face."

other odds and ends) the need for saucy curls, may yet lead to a further discovery—that curls imply a need for fancy fans. These in their turn may render a new form of scarf absolutely necessary, and so on, until in a not very remote future the merry-go-round may pause for a moment to take on board a petrol-propelled sedan chair to go with curls, fans, and sundries.

GEORGE Meredith wrote of his wife, whose patient nature never responded to his chaffing: "She is a mud fort. You fire broadsides into her, nothing happens." If possible, these are the wives that all temperamental, artistic, and musical men should choose. For nothing is more fatal than for two people to lose their tempers at the same time.

DEAN Inge—that apostle of humour—says, "Do as I say, and not as I do." How often would we all like to insist on that.

IN the years just after the war Miss Gwendolen Parnell was trying, rather unsuccessfully, to paint por-

traits. Then one day she saw the Board of Trade's appeal for British toys, to try and capture the trade in which Germany had hitherto held practically the monopoly. She began on wood, but was not satisfied with her efforts, so she turned to clay and later to china. At her first exhibition a small figure of Henry VIII was bought by the Queen for 12/6, and nowadays Miss Parnell can ask and get £50 for similar figures. So successful has she become that she has just signed a contract with an American firm to take the whole of her output.

IT is rather remarkable how true the forecasts of early writers have turned out. One of Dr. Johnson's in "Rasselas, Prince of Abyssinia," which was written at top speed to defray his mother's funeral expenses, has a striking paragraph regarding the conquest of the air: "Sir," said the mechanist in reply to Rasselas, "he that can swim need not despair to fly . . . we are only to proportion our power of resistance to the different density of material through which we must pass. You will be necessarily upborne by the air, if you can renew any impulse upon it, faster than the air can recede from the pressure."

LIKE most other parts of the body, the eye derives much benefit from an occasional wash or bathe. For this purpose a glass eye-bath should be used and the procedure is quite simple. Fill the bath with a weak solution of boric acid, which is not only soothing to tired eyes but antiseptic. (One dram of powder dissolved in 6oz. of hot water is the usual formula for the lotion.) Place the bath firmly over the eye, bend the head back and open the eye for the space of a few seconds. Then with the head over a basin and the eye closed remove the eye-bath. For weak eyes this practice carried out daily for some time will be found most beneficial in toning up the muscles and nerves round the eye.

IT is interesting to read Mary Gladstone's opinions of some of the men of her day, whom she has rather vividly described in her diary. Of Napoleon III she says he is "a short, podgy little man, very ugly, and a very foxy expression, but his little eyes look very sharp and clever." However, Joachim, the celebrated violinist, was her idol. Carlyle she described as "a striking old man, inside and out," though she was "disappointed in his poetical tastes." Her most interesting impression is that of Robert Browning. "Mr. B. is not altogether a remarkable person to look at, and talks in a rather too self-confident way. . . Disliked him more than ever; we talked about the 'Ring and the Book' and 'Abt Vogler.' . . He talks everybody down with his dread-

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WHEN you next have a carton of cream save the cardboard container; wash and wipe it, and when dry cover with a piece of brightly coloured wallpaper, glueing this on smoothly. The pattern on the paper should be a small one. Then take a piece of artificial silk—about 7 inches

ful voice, and always places his person in such disagreeable proximity with yours, and puffs and blows and spits in your face. I tried to think of Abt Vogler, but it was no use—he couldn't ever have written it."

THE present-day worship of science has led to the invention by an American professor of criminology of a "lie-detector." This rather startling device is a rubber tube which, when wound round the arm of a supposed criminal, registers on a graph the fluctuations of his blood-pressure, thereby indicating when he is lying or when a chance question hits home. Should this device be put on the open market, erring husbands will find life more difficult than ever, but for many there will be the possible compensation of a boom in rubber shares.

AT Tourville, on the Riviera, there is a de luxe hotel complete with casino, tennis courts, swimming pool, two cocktail bars, and a "dog's bar." This last consists of half-a-dozen bowls of water of different shades and sizes, placed outside the main entrance.

ANITA LOOS is rumoured to be writing a "Child's Life of Oscar Wilde." When tackled on the point, she admitted it was true, adding that she had been doing a lot of research work on her subject.

ON few subjects do people write more frequently to the papers than on noisy motor-cycles, and street noises in

general. In this connection an interesting article in the "British Medical Journal" mentions some experiments made recently to discover the effect of noise on human beings. It appears that noise produces a reaction of fear in an infant, raises the blood-pressure of an adult, and may cause the muscles to contract and remain tense for thirty minutes. The experiment is carried out by a meter which converts sound into measurable electric waves. Obviously noise is bad for us, but can it be abolished? Experts declare that at least 75 per cent. of street noise could be eliminated. In New York and Paris zones of silence have been declared in residential districts at night; but even daytime noises could be lessened ap-

An Iris in Spring

SING, hey! for the small purple iris!
Croon softly in soothing approval.
Kneel low and delight in its richness,
Gently tweak a grass blade for removal.

Sing, ho! for the dear purple iris!
Blooms lowly but thick; with so vital
A purple they glow, rather yet sumptuous.
For the bleak snowtime a requital.

—S.M.

preciably by the abolition of strident motor-horns, the greater use of pneumatic tires, and the substitution of electric welding for riveting.

TOWARD the end of August the small Austrian town of Salzburg is generally filled with English people. They go to hear the music, and one of the chief attractions this year was "Rosenkavalier," by Strauss, and "Everyman" set to music, Schiller's "Kabale und Liebe," and a comedy called "Victoria," by Somerset Maugham were additional novelties. Tickets were at a premium, and many people were unable to obtain seats. Among the lucky ones was Mrs. Philip Snowden, who was upholding the traditions of the Socialist Party by staying with Rheinhardt in his magnificent chateau and going to the opera every night, beautifully dressed. Very little English is spoken in Salzburg, and even in the hotels the notices are all in German. On the whole the people are not formal, evening dress for the opera being more or less optional. The only incongruous note is struck by the smart night club with a good jazz band, to which people flock after the opera.

—ALISON.

Salmon Roll.

Ingredients: 1 small tin salmon, 1 cup of flour, 1 cup of cold mashed potato, 2 oz. butter, 1 egg, 1 teaspoon baking powder, pepper and salt to taste.

Method: Mix flour, baking powder, potatoes and melted butter and egg. Roll out and spread with salmon. Roll up and bake half a hour. This makes a very nice supper dish.

An Accomplished Artist

Delightful Exhibition

WITH some truth it may be said that one-man shows are prone to monotony, owing to tendency of many artists who, having attained success in one particular genre, settle into a groove with a thoroughness which induces a sense of sameness when their work is viewed en bloc. This charge, however, cannot be levelled against the Hon. Mrs. Ralph Vane's recent exhibition of pictures in Wellington, her work in tempera and water-colour arresting spectators by delightful versatility of subject and treatment.

This accomplished artist is a member of a distinguished New Zealand family and is making a short visit to her native land after many wanderings in England and abroad. Evidence of acute and meticulous observation of varying climes and conditions is apparent in Mrs. Vane's work her fascinating subjects being transferred to canvas with a fine sense of colour and admirable technique.

On entering the pleasant salon in Willis Street the first impression gained from comprehensive glance round the walls was of clear and radiant atmospheric effects, excellent draughtsmanship, and entire absence of that bizarre and affected extravagance which often degenerates into conscious or unconscious burlesque. Covetable "bits" of Cornish coast, around which swirled translucent wavelets, found numerous devotees, while others lingered before glamorous glimpses of mysterious East, or vivid impressions of the Canadian Rockies with sparse trees limned against entrancing emerald lake or peaks flushed with rose and gold of sunset.

Mrs. Vane possesses a faculty that is positively uncanny for seizing upon a subject entirely adaptable for pictorial treatment, and captures the moment as it flies with rare beauty and fidelity. Her tenderness for trees,

A couplet for the picnicing motorist:—

Take your food and eat it hearty.
But don't spoil the place for the next
motoring party.

in their dignity and lovely aloofness, is apparent in many strikingly truthful studies; as is also the artist's able and diversified treatment of differing climatic conditions. Each man to his taste, but many found special appeal in the "Cornish Wood," surely a haven where "peace comes dropping slow," with its glancing blues and greens of embracing branches and quiet water. There remains a memory of wind-swept sea and sky, allure of picturesque French village, bold studies of other men and other manners, and silvery light dreaming through tall ti-trees. It is hoped that in other towns of the Dominion this fascinating collection of pictures will be shown.—The Minstrel.

A Pet Toad

I HEARD recently from 2FC of the wonderful adventures of a toad. A friend of mine kept one in her greenhouse for some years. She made a real pet of him; he was a huge fellow, and would sit and laugh up at her while she tickled him with a twig or feather; in return, he kept the flowers healthy by eating the green-fly and other insects which infest plant life.

If you wish to keep a toad or frog among your plants, put a few buckets of mould in one corner of the greenhouse, make a hole in the centre of this, and in it place a fairly deep basin—which must be kept filled with water. It may be partially hidden by planting ferns around it; when watering, use a rose-topped watering-can so as to moisten the foliage. Toads revel in dew.—Nada.

The Sewing Needle

IT is 200 years since the steel needle, as we know it, was invented. The town of Redditch in Worcestershire (also famed for its sauce) claims the distinction of this advance. Obviously, however, there were needles of a sort before then. Can anyone give detailed information? As early as 1551 a comedy which was produced under the title of "Gammer Gurton's Needle" develops humour from the fact that Dame Gammar, when mending her husband's breeches outside the cottage door, mislays the needle. Now what sort of needle was that? And how did the ancient Egyptians do their sewing, the Greeks, and even the Eskimos? While as for Eve, just how did she manage her fig-leaf? The needle is so obvious a necessity that the remarks of Epicurus seem to apply: "We ought to be thankful to nature for having made those things which are necessary, easy to be discovered; while other things that are difficult to be known are not necessary." And that remark, incidentally, if analysed to its depths, would convey the implication "non-necessary" to many of those phases of modern life which are adding so appallingly to the cost of living and loving.—A.B.

MISS ELLEN WILKINSON, M.P., is writing a new novel, and has promised her publishers to have it finished before the end of the year. During August, when Parliament was in recess, she took a cottage on the Devon moors, where she hoped to get some inspiration from the remote simplicity of her surroundings.



—she thinks he's wonderful during the evening programme—but when it comes to baking she'd sooner have a tin of ANCHOR SKIM MILK POWDER on the shelf than the finest radio going. A few spoonfuls added to every mixing means more delicious scones and cakes—higher food value—and a freshness that lasts for DAYS.

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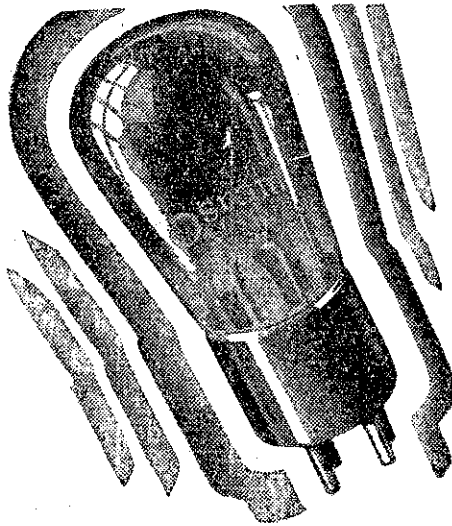
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The world's economy all-purpose valve



SPECIFICATIONS:

Fil. Volts . . . 4.0 max.
 Fil. Current . . . 0.1 amp.
 Plate Volts . . . 150 max.
 Amp. Factor . . . 15
 Impedance . . . 2,500 ohms
 Normal Slope, 1.77 ma/volts
 Equival. . . A409, A415

L410

In every way L410 costs you less. It is lower in price. It consumes only one-tenth of an ampere and makes your "B" Battery last longer. The filament is coated in a special manner, thus prolonging its life to an appreciable extent. You can use L410 in any 4-volt battery-operated set for Radio frequency amplification, as a detector, or in the first audio stage. Your dealer can advise you which Osram Valve you need—he knows all the equivalents. If he should not have in stock the Osram Valve you need, it will be sent direct, safe delivery guaranteed. The "Osram Valve Guide"—a useful little book detailing all Osram Valves—is free for the asking.

Advertisement of the British General Electric Co. Ltd.
 Branch Office and Public Showrooms: 31-37 Taranaki Street, Wellington



ALABAMA appears to be leading all other American States in its enthusiasm for radio. A receiver is now installed in every courthouse in the State, and the authorities are paying one-third of the cost of all receiving sets installed in schools.

tense interest to many. Specialists in the various branches lectured regularly and questions were invited. An interesting feature was the collection of radio journals from all quarters of the globe. Almost every journal in the world had sample copies distributed.

"HOME recording" is the latest fashion among American listeners. One of the leading manufacturers of that country has marketed a radio-gramophone set capable of recording the broadcast programmes as they are received. Recordings of home performances may also be taken.

THROUGH an ingenious scheme, all difficulties encountered in the arrangements to broadcast the 1930 American open golf tournament were successfully overcome. The announcer was equipped with a portable transmitting outfit, which weighed about 20 pounds. It consisted of a transmitter, strapped to his back, and a microphone which rested at the proper elevation on his chest. An assistant trundled the batteries over the course in a perambulator! The aerial consisted of a 10-foot bamboo pole wound with heavy wire and fastened to the transmitter case. The description was picked up and rebroadcast without delay over two huge networks of stations.

A COMPLETE change will shortly take place in the administration of Norwegian broadcasting, the Government having decided to take over all existing broadcasting stations in order to form a State service. The programmes will be supplied under contract by private companies.

STATION CNRH, Nova Scotia, the latest link in the Canadian National Railways' broadcasting system, recently broadcast its inaugural programme. The studios are located on the seventh floor of the "Nova Scotian," Halifax's most luxurious hotel, and are the most scientifically designed yet constructed in Canada. The main studio is forty feet long, twenty-five feet wide, and has a seventeen-foot ceiling. Acoustical material covers the walls. Microphone outlets are also provided in various public rooms throughout the hotel, providing additional broadcast space. Efficient lighting is accomplished by indirect floodlights reflecting from the ceiling, giving a weird effect and making the casting of shadows impossible. Temperature is kept constant by thermostatic-controlled ventilation, thus adding to the truthfulness of instrument and voices.

THE latest story from America concerns a family of woodpeckers who, it is stated, recently succeeded in stopping the transmissions of a Philadelphia broadcasting station for forty-eight hours. This they accomplished by drilling a hole through a 100ft. cedar wireless mast three feet thick. Eventually the mast collapsed.

THEATRE and concert halls in Uruguay are now legally compelled to allow the broadcasting of their performances. Apparently theatre managers who refuse permission will be fined 100 pesos (£20) for each offence! The radio administration will be supported by listeners' license fees, the annual contribution being about £2. Revenue will also be drawn from radio import duties. New Zealand listeners haven't much to complain about, after all.

A RECENT tax imposed on all public loudspeakers in Vienna has placed the Austrian Government in a perplexing position. Until the imposition loudspeakers were everywhere, in the streets, public halls, and cafes—in fact, they were so popular that Vienna was fast earning the name of the "City of Loudspeakers." Hoping to establish a new source of revenue, the Government introduced the tax previously mentioned, to the great joy of professional musicians, but to the intense chagrin of the general public, besides wireless manufacturers and amateurs. A public protest has now been organised, and the Government are wondering which would be more profitable: to keep the musicians "on the dole" or repeal the tax.

THE second International Radio Exhibition to be held in Rumania took place between September 7 and 23 last. The object of the exhibition was to stimulate greater interest in radio, to reveal to those interested the possibilities of radio transmitting and operating, to collect samples of all the new developments in this branch of science, and to offer occasion to foreign radio industries to show their products to the thousands of people who visited it. Amateur radio is rapidly becoming universally popular in that country, and the recent exhibition must have been of in-