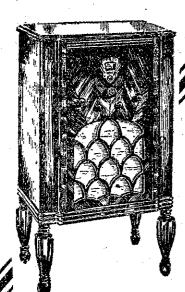


Vol. V., No. 6.

WELLINGTON, FRIDAY, AUGUST 21, 1931.

Price, 3d.



RADIOLA

45E

BRITISH-MADE

A full sized Console
Cabinet that satisfies the
house-proud with its sheer
beauty of design and proportion
—a Radio Receiver that amazes
the critical musician with the thrilling realism of its reproduction.

Screen-grid; All-Electric; with New Zealand and Australian reception. Full power Dynamic Speaker. High degree of sensitivity. Elimination of hum. Easily convertible into a Combination Set by means of the AWA Phono Unit, giving remote control.

A Triumph of British Engineering. Value supreme.

The Wonder of Radio Land

Amalgamated WIRELESS

Wireless

(Asia) Ltd.

P.O. BOX 830, WELLINGTON.

Agents:

Dunedin, Timaru, Christchurch, Wellington, Auckland. THE BRISTOL PIANO CO., LTD.

"HE who oscillates is lost" said a London magistrate recently when fining an unlicensed listener, detected as the result of an oscillation complaint.

DX-ERS will be interested in a recently-issued Soviet order which states that letters to Russian broadcasting stations need not be stamped.

BROADCASTING station KMTR at Los Angeles plans to hold a radio auction. A new telephone switchboard is being installed so that bids can be accepted at the rate of 1000 per minute.

already fully equipped with indie, the problem of fading has also proved while 13 per cent, are prepared to in a draw. And now, who will tackle stal it at their own expense. The reatmospherics?

sum mentioned if reliable apparatus is to be installed.

arrest decomposition in organic products. The invention consists of a generator of waves of about twenty five centimetres in length, which prosign of decay.



SHORTWAVE wireless has attracted THE question of adjusting the wire-

DAVID EDWARD HUGHES, the Billish scientist who discovered THROUGH the agency of ultrashortwave radiations from a speelectro-magnetic waves, was born on snortwave radiations from a specelectro-magnetic waves, was born on not consider that a change would be in cial transmitter, Mr. Robert Pape, of May 46, 1831, and several weeks ago the public interest.

Soest, Holland, claims to be able to the British Institute of Electrical Engineers held a Hughes' Centenary Commemoration meeting. Although it is now a well-established fact that Hughes did indeed anticipate Hertz duce, after about 10 days and within in the discovery of the waves, the a radius of twenty metres from the earlier discovery was at the time remachine, an electro-magnetic field in garded as so impossible that it was which no organic product can decome not announced; to Hertz, therefore, is pose. Eggs, broken on a plate, were rightly accorded the bonour of being kept for several months with not a the first publicly to make their existence known.

THE cost of a proposed system of broadcast education throughout Czecho-Slovakia is £144,000. A typire less census just taken shows that 17 per cent. of schools in that country are already fully equipped with radio. the problem of fading has also proved while 13 per cent. are prepared to interest and now, who will tackle stal it at their own expense. The remaining 70 per cent, will require the annual regord of inventors during the past year, according to the privileges enjoyed" was raised recently in the House of Commons at Home, but did not draw a very encouraging answer from Major Atlee. 25,121 subscribers in all height use of the use of th should be kept as simple as possible.

Any arrangement there which the amount of the license fee depended onthe type of apparatus employed would introduce many difficulties, and he did

> SUCCESSIVI demonstration of a new recording apparatus, the Blattnerphone, was recently given in the special recording room which has been set apart at the British Broadcasting set apart at the fartish broadcasting Corporation's studios. The magnetised steel tape, which is less than a quarter of an inch wide, is slowly transferred from one drum to another, passing through a pick-up device which re-

sponds to the varying degrees of magnetisation, and reconverts them into current pulses in the amplifier system. Reproduction on the loudspeaker was up to the best gramophone standard, with, of course, the advantage that there was no scratch. Each drum carries enough tape for a twenty minutes' performance.

RROADCASTING in South Africa has been well protected by the Radio Act, but in spite of the stringent provisions of this, considerable piracy is still carried on. A Many of these pirates are difficult to trace, especially in a country so large as South Africa.

Two American amateurs, Carl Miller and Kenneth Smith, recently kept a 24-hour watch at their station, W5AUC, Brooks Field, Texas, with the object of determining how much useful work could be accomplished by a typical transmitter from sunrise to sunrise. According to the American Radio Relay League, they secured contact with every State in the Union, and also communicated with China, Cuba, Canada, New Zealand, Nicaragua, Hawaii, Mexico. Haiti, Tahiti, and Porto Rico.

'Radio Record and Home Journal"? 12/6 in Advance: 15/- Booked. P.O. Box 1032, Wellington.

ANOTHER PROBLEM

SOLVED

WHEN ONE L.F. TRANSFORMER IS NOT ENOUGH AND TWO GIVE EXCESSIVE AMPLIFICATION, TWO OF THE NEW

AF7 TRANSFORMERS WILL SOLVE THE PROBLEM

DESIGNED SPECIALLY FOR THOSE CASES WHERE CONSIDERABLY MORE AMPLIFICATION IS REQUIRED THAN IS AFFORDED BY ONE STAGE AND CONSIDERABLY LESS THAN THAT USUALLY OBTAINED FROM TWO. LEARN HOW THE RATIO OF 1 TO 14 MAKES POSSIBLE A TRANSFORMER GIVING AN AMPLIFICATION CURVE THAT EVEN FERRANTI HAVE NEVER BEFORE ACHIEVED.

New Zealand Agents:

ARTHUR D. RILEY & CO., LTD.

WELLINGTON

AUCKLAND

THE FUTURE OF BROADCASTING

Proposed New Company with Listener Shareholders

Board of Eight Directors: Four Elected by Listeners in Districts.

RY request of the Government, the Radio Broadcasting Company of New Zealand has submitted its views for a comprehensive scheme for the future management and control of radio broadcasting in New Zealand. scheme, which is now under consideration by Cab inet, is based upon the principle of customer ownership, and provides for an entirely new public company to be formed in which the shareholding will be divided between listeners and the management, and equal representation be given to both interests upon the directorate of the company, thus ensuring capable and efficient administration, with full and adequate protection of the interests of listeners.



Harris.

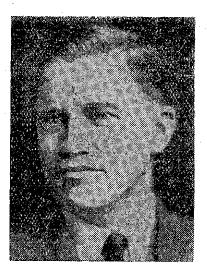
N a full and comprehensive statement of the whole situation leading up to the present, the Radio Broadcasting Co. states:-

The present Radio Broadcasting Co. of N.Z. owes its origin to a desire on the part of Mr. William Goodfellow to make conditions more attractive for the eight or nine thousand dairy farmer suppliers of the New Zealand Co-operative Dairy Company, Limited. In 1922 the directors of that company, on the suggestion of Mr. Goodfellow, managing director, took steps to investigate the practicability of installing a broadcasting station for the benefit of dairy farmers in the South Auckland district. At that time the erection of dried milk factories, and the extension and erection of butter and cheese factories, was proceeding apace. Wherever practicable, these plants were being connected with the Government hydroelectric supply by the A. R. Harris Company. The idea of the broadcasting

station in Mr. Goodfellow's mind was

therefore naturally discussed with Mr.

The upshot was that Mr. Harris was instructed to report fully on the prolect. From various sources, and a visit to Atstralia, Mr. Harris gathered considerable data, and his report prompted Mr. Goodfellow in May, 1923, to apply to the Right Hon. J. G. Coates. Postmaster-General, for a license to erect a station at Hamilton, and operate it on a co-operative basis and was agreed to, and an order placed with the A. R. Harris Company, Limited, for the supply and erection of a 500-watt station identical with those subsequently erected at Christchurch and Auckland. The proposal. however was subsequently withdrawn, as Mr. Coates considered it inadvisstations, but desired to provide a sibility of management.

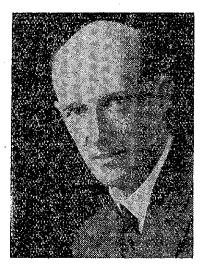


MR. A. R. HARRIS. General Manager of the existing Radio Broadcasting Company.

Dominion-wide service under unified control, taking in the South Auckland province. Mr. Goodfellow expressed unconcern as to how the service was conducted, provided the dairy-farmers in his district were given satisfactory broadcasting facilities, and left the matter at that.

Time went on, and some 18 months or two years later Mr. Goodfellow again looked into the position, and found that, while considerable progress had been made in the legislative machine for providing a service, the service itself seemed as remote as ever.

Negotiations, however, had been caried on between the Government and a Wellington syndicate without success, because the syndicate desired a term by levying a nominal license fee. This of at least ten years, whereas the legislation provided for a term of five years only. Further endeavours were then made to obtain a license for the South Auckland province, but without success. The Government reiterated its preference for a Dominion scheme, and approached Mr. Goodfellow to undertake that work. He refused, but subsequentaccepted the suggestion, subject to A. R. Harris & Company, Limited, unable to license a number of individual Harris personally accepting the respondertaking the technical work, and Mr.



MR. Wm. GOODFELLOW, Director of the Radio Broadcasting Company.

Government Requirements.

THE Government originally required that Messrs. Goodfellow and Harris should personally undertake to provide the service. This Mr. Goodfellow would not agree to, but subsequently to form a company within 31 days to inaugurate a national broadcast service in accordance with the Government's ideas. At that juncture there was considerable public unrest and criticism of the apparent delay by the Government in providing a service, and to expedite matters the Government insisted that both trustees should accept personal responsibilities (pending the formation of the company) as follows:

- Forthwith to order two 500watt radio telephone broadcasting transmitters.
- (2) To erect one in Auckland and one in Christchurch immediately on arrival.
- (3) To immediately form and register a radio broadcasting company.
- (4) That the trustees should be personally responsible for the erection of the plants.

Term of the Agreement.

T was freely admitted that the term development of a national service. The penses incurred by the trustees prior

legislation, however, provided for only that period, but the matter was discussed with the Postmaster-General, Sir James Parr, who gave the trustees a letter stating that he had no doubt that, if the service was satisfactory, an application for a further term would be favourably considered by the department.

At that time it was considered a company of £20,000 capital would meet the situation. The Crown Law Office collaborated with the company's solicitors in drawing up a memorandum and articles of association for the company, the terms and conditions being approved by the Postmaster-General. It was provided that, if the company's license was not renewed, the Crown would purchase the company's plant and chattels at a price, if not agreed upon, to be determined by arbitration.

The Company's Undertaking.

IN general, the company undertook:

(1) To purchase the four small stations then established at Wellington, Auckland, Christchurch, and Dunedin, and subsidised by the Post and Telegraph Department.

(2) To establish and operate two half-kilowatt stations-one at Auckland

and one at Christchurch. (3) To provide two additional stations, one at Wellington and one at

Dunedin.

(4) And to carry out the Broadcasting Regulations, 1925, and give from each station a minimum service of 12 hours weekly, Sundays not included.

Source of Revenue.

THE Minister undertook to pay the Broadcasting Company 25/- out of every receiving transmitting and experimental station license fee, and 90 per cent. out of every dealer's license fee (first grade £10, second grade £5, third grade £2), paid and received by the Post and Telegraph Department, provided that in case of fees paid for less than one year, the amounts paid the company should be proportionately reduced. Subsequently the amounts for dealers' licenses were increased, and the company's percentage reduced from 90 per cent. to 45 per cent.

It was provided that the capital of the company should be (a) £10,000 in 10,000 ordinary shares of £1 each, and (b) £10,000 in 10,000 preference shares of five years was insufficient for the of £1 each. In consideration of exPostmaster-General authorised the issue of 2000 fully paid shares.

It was provided that the dividend and interest on capital should be limited to 71 per cent. cumulative, free of tax. The company had the right to provide sinking funds for the repayment of capital, and necessary depreciation, or to create a reserve fund to meet contingencies. The trustees automatically became directors, Mr. Goodfellow being chairman and Mr. Harris general manager.

Erection of Stations.

THE supply and erection of plant, the fitting of studios, and the maintenance of technical equipment, were undertaken initially by A. R. Harris Company, Limited.

In view of Mr. Harris's dual connection, a special clause in the company's articles of association was authorised by the Government to provide for this. The company was thus able to immediately take advantage of the experience and expert organisation of the A. R. Harris Company for hand-ling work of this nature. The practice was adopted that every transaction between the Radio Broadcasting Co. and A. R. Harris Co. should be submitted to the directors of the first-named company, and every voucher duly approved by the chairman. Scrupulous care has been observed throughout. Article 19 (e) of the company's articles of association (duly approved by the Crown) specifically provides for these transactions, and outlines the exact procedure.

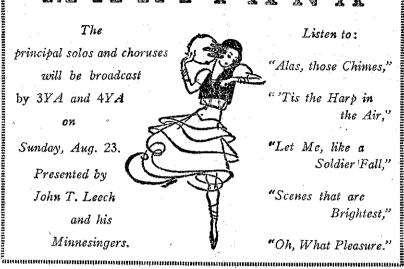
Financial Arrangements.

AVING undertaken to provide a Dominion broadcast service, the directors sought consistently to advance the Government's scheme. Aid in this direction was given by the personal guarantees undertaken by the directors, and the assistance given by A. R. Harris Company, Limited. Without this cooperation much greater difficulty and considerable further delay would have been experienced, in view of the general apathy shown toward the service in the pioneering period.

When the establishment of a radio service was first mooted, radio was in its infancy, and the possibility of its growing into a permanent universal utility was seriously questioned by the general public. Attempts to interest business men in the financial side met July 31, 1930, appears on this page. with no response.

The proposal was subject to a good deal of criticism, and the attitude of scepticism generally adopted made finance extremely difficult; in consequence, the directors were compelled to pledge their personal securities.

"MARIT



was set at £20,000; of this, £17,000 was subscribed, and £13,896 was paid up. In addition, the directors gave their joint and several guarantees to the bank for £15,000. Subsequently debentures to the amount of £5000 were sold, and £15,000 secured from the Government on first mortage debenture at 6 per cent. on the Wellington plant. For their personal guarantees to the bank the directors received neither remunera- num. tion nor monetary consideration. addition to the foregoing, the A. R. Harris Company, Limited, who supplied the initial equipment on a 10 per cent. basis, with the exception of the Wellington plant, which was on 5 per cent., financed the company's expenditure over and above the moneys in hand, and extended credit without any charge whatsoever other than bank interest on the amount outstanding and funded in connection with the Wellington plant. The directors thus raised a total sum of £47,000, apart from accommodation provided by the A. R. Harris Company.

Revenue and Expenditure.

A SUMMARY of the revenue and expenditure for the five years ending

The foregoing shows that, after making provision for a 7½ per cent. dividend, losses were sustained for the first four years, and it was only in the fifth year that the company was able to pay the accumulated dividend on all shares. accumulated loss amounted

The nominal capital of the company £1082 for the first year, £485 for the second year, £3051 for the third year, and £1155 for the fourth year. In the fifth year, after paying accumulated dividends, the profit remaining was £188.

In the first year no directors' fees were paid. In the second and third years part fees only were paid. In the fourth year all directors received an honorarium, the total of all three directors' fees not exceeding £750 per an-

Debentures.

TO provide for the erection of 2YA as a super station, the Government agreed to advance £15,000 on first mortgage debenture at 6 per cent. per an-This liability still exists, and interest has been duly paid. On the average, throughout the period of the contract, the Post and Telegraph Department has held £18,000 each month of listeners' fees due to the company, but for this no offset in interest has been allowed. Debentures to the amount of £5000 were sold to the public at an interest rate of 71 per cent., as allowed by the agreement. In regard to these debentures, and also in regard to the ovedraft accommodation provided for the company, the directors considered the question of setting up a redemption fund for repayment, but the revenue did not permit of this being done.

Depreciation has been provided for on machinery and plant, office and studio equipment and buildings, but no provision has been made for general to reserves of any kind.

Audit.

THE books, accounts, and vouchers of the company are subject to a continuous audit by the auditors of the company, and the correctness of the balance-sheet and revenue account verified as required by the provisions of the Companies Act.

After the certification of the annual accounts by the company's auditor, the Post and Telegraph Department each year, since the formation of the company, has sent an experienced officer to audit and investigate the books and accounts. Every inquiry made by the officer has been answered to his satisfaction, and the fullest information placed before him. He has had access to all papers and documents, and every facility has been given to enable him to investigate the financial dealings and operations of the company. These officers, at the conclusion of their work each year, have expressed their appreciation of the courtesy and ready attention afforded them, and their entire satisfaction with the full and clear system of accounting adopted.

Overseas Investigation.

OWING to the increasing demand for diversity of entertainment, and the difficulty of achieving finality in overseas negotiations for specially recorded programmes, the directors decided that the general manager should visit the United States and Canada. The par-The particular object was to ascertain the technical possibility of recording broadcast matter, and reproducing it without loss of quality, and whether such recordings could be made available for New Zealand. This journey was made from May to August last year, at a cost to the company of £400. Much valuable information was gathered, and connections made for the continuous supply of special recordings of outstanding programme features, a series of which is at the present time being broadcast weekly from the company's stations.

Many aspects of broadcasting were investigated, one of the most important being radio interference, and as an outcome the company has included proposals for a co-operative scheme for effectively dealing with this difficulty. As a result of this visit and report of the general manager, and of an earlier visit by the company's chief engineer,

the directors hold the view that the company's plant, equipment, and service is as complete and up-to-date as high-class leading American seations of similar power which are tregarded as the world's best.

The Radio Broadcasting Company of New Zealand, Limited .- Tabulated revenue account for the five years ended July 31, 1930:-

								•		20001	
	,	19 Expenditure.	26. Income.	Expenditure.	27.		28		1929	1930.	4
	Balance from the previous year	0 0 0	£ s. d.	£ s. d. 1,082 19 4	£ s. d.	Expenditure. £ s. d. 485 5 4	Income. £ s. d.	Expenditure. £ s. d. 3,051 12 6	Income. £ s. d.	Expenditure. Income. £ s. d. £ s. d. 1,155 1 7	
	General expenses	5, 878	5,262 0 0	18,047 4 7	22,616 11 0	45,485 3 10	48,794 14 8	48,194 14 11	56, 978 1 4	56,214 4 4	9
11	7½ per cent. p.a. Directors' fees Depreciation—	87 12 4		599 3 7 250 0 0		907 1 5 444 10 5		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1,042 3 5 750 0 0	
2 :	Machinery and plant Office and studio equip Buildings Balance—			2,818 11 4 303 17 6		3,450 11 10 777 12 10 296 1 0		\$,873 18 3 920 7 3 300 8 0		4,853 15 6 1,450 12 0 341 19 6	ï
- 52	Loss Profit		1,082 19 4		485 5 4		3,051 12 0		1,155 1 7	188 3 5	

6,344 19 4 23,101 16 4 23,101 16 4 51,846 6 8 51,846 5 8 General expenses include salaries and wages, talent, rent and rates, light, heat and power, printing and stationery, travelling, telephones, telegrams and postages, advertising, copyright, insurance, royalties and taxes, repairs and maintenance, discount, interest and exchange, legal and audit, 58,133 2 11 miscellaneous trade expenses.

1 The Company's Attainments.

NDER its contract to provide a radio broadcast service for the Dominion, the company has exceeded all the requirements of the Government, and has built up in a comparatively short period a national broadcast scheme on sound financial lines, all without cost or liability to the State.

- (1) The company has:-
- (a) Established and maintained broadcasting stations, including studios, plant and equipment, embodying the latest improvements, at the four main centres; that at Wellington being 10 times the power called for in the original license from the Government.
- (b) Created a nation-wide service designed to cater for and serve the best interests of all sections of the community, and provided average

isteners from approximately 3000 as to dividend and voting power.

to over 60,000.

The "B" ordinary shares will to over 60,000.

- Submitted a scheme early in 1929 for additional relay stations, planned to increase the efficiency of the broadcast coverage, thus enabling listeners in the country districts to obtain a service equal to that already enjoyed by listeners adjacent to the main stations
- (2) The company has provided programmes of the widest diversity and acceptability by:-
 - (a) Organising, classifying and utilising all talent available in the Dominion. Over 40,000 individual contracts with artists have been completed without a single case of misunderstanding.

(b) Presenting the leading artists of the world by means of recordings.

(c) Presentation of special recorded features selected from programmes broadcast in other countries, thereby affording New Zealand listeners a diversity of entertainment not obtainable by any other means.

(d) Regular broadcasts of interest-ing and educational lectures by highly qualified speakers; daily news, market reports, and descriptions of sporting events.

(e) Assembling a musical library, comprising 16,000 items, many of which are unprocurable in New Zealand.

- (3) It has broadcast events of local, national and Imperial significance by means of relays and broadcasts, and has reely co-operated with local organisations in aiding the propagation of anything in the public welfare.
- (4) A strong bond has been forged by the appointment of 32 official listeners and 14 public committees, which bring to the service of broadcasting the specialised knowledge of 146 leading citizens, representative of a wide range of listeners' interests. These com-These committees make recommendations to the company with regard to:
 - (a) Entertainment, music, drama and sport.
 - (b) Church services and broadcasts of a religious nature.
 -) Children's work.
 - (d) Service to primary producers.
- (5) The Company has scrupulously safeguarded the political, sectarian,

moral and social aspirations and susceptibilities of the listening public.

Entirely New Company Suggested.

FOR the future management and control of broadcasting, it is proposed that there shall be formed an entirely new public company, em-bodying the principles of customer ownership. In this it is proposed that listeners shall be financially interested, and have adequate representation on the Board of Directors.

It is proposed that the capital shall be £150,000, divided into 50,000 "A" ordinary shares, 50,000 "B" ordinary shares, and 50,000 "C" preference shares, and 50,000 "C" preference shares (to be used if and only as repreference quired).

All ordinary shares to rank equally as to dividend (to be limited to 7½ per cent. per annum, cumulative on the paid up capital-free of income tax),

and on a winding up.

In regard to the allocation of capital, daily hours of service more than the "A" ordinary shares will be sub-four times that required under its scribed for by the management of the license. Radio Broadcasting Company, but will company in the rank equally with "B" ordinary shares

> ssued only to the holders of radio licenses, subject to the following con-

- (1) No licensee to hold more than 100 shares.
- (2) Such shares not to be transferable, except to other licensees in multiples of 5 shares.
- (3) The Company to have the right to resume any shares held by

licensees who do not continue their licenses, with power to issue such shares to other licensees. power is at present possessed by co-operative dairy companies, but would here require special legislation.)

It is proposed that the directorate should consist of eight members-the A" ordinary shareholders to elect four, one to be chairman; the "B" ordinary shareholders to elect four-of which number one should be elected by the "B" shareholders in each of the districts of Auckland, Wellington, Christ-church, and Dunedin respectively.

set down as:

- (1) The four main stationspurchase of plant, improve-ments, and additions
- (3) General outlay, interference plant, and sundry

In regard to "C" preference shares, it is proposed (1) that these be reserved for issue if and when the capital requirements of the company render it necessary; (2) that such shares may be sold to any person, firm, or company without limit; (3) that they carry no greater dividend than that payable on both classes of ordinary shares; and

(4) that they confer no voting power on holders.

The estimated capital expenditure is

50,000 45.000

Relay stations 5,000

ntraferationalegativen contractional responsibility in the first contraction of the first contra

Christchurch Orchestral Society

under the conductorship of



Professor Oddone Savini

will present their second Concert of the 1931 Season on relay from 4YA on August 28

License System Approved.

THE present system of deriving revenue exclusively from the fees collected from licensed listeners and radio dealers would be continued. This system safeguards the interests of the listener. The fact that listeners would be interested in the success of the undertaking, and would have adequate control, would go a long way toward ensuring success.

Other known methods of obtaining revenue for a radio service are from (a) advertising, or (b) Government subsidy. Six years' experience by the company has proved it possible to provide a good service without assistance from either of these sources, and the company believes, from that experience and from investigations of systems in other countries, that it would be a retrograde step for the service to have to depend on revenue from advertising, whether direct or in the form of sponsored programmes. Under that system; too, listeners' interests would no longer be the sole consideration.

The adoption of subsidies for duplicate stations would jeopardise the economic stability of the entire service, probably resulting in the Government having to find further sources of revenue to preserve financial soundness in

the service.

Provincial Relay Stations.

THE most urgent need of the national broadcast service at present is greater radio coverage-i.e., to make available to listeners in provincial and country districts a service equal to that already enjoyed by the main centres. The present system, under the scheme laid down by the Government-stations in the four main centres only-is incapable of providing a technically efficient service for the whole Dominion distortion and owing to phenomena inherent in radio.

The main factor governing the utility of a station is its serviced range, which may be defined as the area within which satisfactory reception is en-

sured at all times.

Receivers located outside the service range of a station are liable to interference-atmospheric or electrical which spoils the enjoyment of a programme. It is highly desirable, therefore, that those towns and cities outside the service areas of the main stations should have some local facilities for broadcasting on relay from the main stations, if an efficient service is to be provided.

An examination of the census figures of the population in New Zealand which would come within the high grade service area of provincial towns and cities, indicates that a separate broadcast station, having its own studio and being responsible for the preparation and supply of its own programme, is not economically sound. Under existing circumstances it would not produce sufficient revenue from licenses to support itself with a reasonably efficient service; and while technically practicable, it is commercially imprac-

The provision of stations dependent for their satisfactory operation on the picking up and rebroadcasting of transmissions from main stations would, under certain circumstances be commercially practicable, but, on the other hand, would not be reliable from the technical standard.

As times goes on listeners more and more rely on broadcasting for regular information and entertainment, and, ed within a high-grade service range, owing to ever-changing atmospheric and practically the whole population conditions and liability to interference, such an arrangement could not be recommended.

After thorough investigation, the company has concluded that there is only one economically practicable way in which the difficulty can be dealt with effectively, and that is by providing a system of relay stations at the larger provincial towns.

The Centres Affected.

CONVINCED of the urgent importance of this matter, the company has felt impelled to act in some areas, although not called upon or licensed by its contract to provide broadcast facilities outside the four main centres. The company is already co-operating with these stations at Hamilton, Palmerston North, Masterton, Invercargill, and New Plymouth.

It is suggested that the new company should complete the relay system recommended by fuller co-operation with existing B stations, and by the provision of additional stations, the complete scheme including:-

Hamilton. New Plymouth. Palmerston North. Wanganui. Napier-Hastings. Gisborne. Invercargill Timaru. Greymouth. Nelson. Rotorua.

Such towns as Whangarei and Masof a million people would then be locat- seas radio engineer, to come to New

within fair service range of a first-class radio station.

Management.

IN every undertaking of size, the question of sound management is, perhaps, the most important factor in success or failure. The present company has now had six years' experience of the problems to be faced in conducting a national broadcasting service; it has a highly efficient staff, both on the technical and operating sides of the service. It is suggested that it would be unwise to disturb the existing organisation, and that any change in policy under which the service is operated would be experimental, the result and ultimate cost being largely matters of conjecture.

Co-operation to Eliminate Interference.

PROGRAMMES of the highest standard and transmission of the best quality are continually marred by manmade interference. This problem, in the company's opinion, is of such magnitude as to preclude its satisfactory treatment at the hands of any individual section, whether it be the Department, the company, listeners, or dealers; so that some form of co-operative effort is required. The company has already exhaustively examined methods of dealing with this trouble, and is satisfied that it is capable of being remedied.

It is, therefore, suggested that a special department should be created, with a view to co-operating with dealterton to be brought in as circumstances and solution of the problem. The com-warrant. Approximately three-quarters pany proposes to engage an expert over-

Zealand for the purpose of co-ordinating and directing the operations of an efficient staff and apparatus at each of the four centres.

This department would be available not only for servicing major faults, but by means of demonstration and instruction would make a definite move towards eradicating, or at least minimising, this source of trouble. It would be



MR. WM. McKELLAR, Director of the Radio Broadcasting Company of N.Z. Ltd.

ers and listeners for the investigation at the disposal at all times of those it was designed to assist, a nominal charge per day being made to cover travelling and incidental expenses.

Extended Hours.

At the four centres there would be no silent day, and the service would commence at 10 a.m.

Public Relations Committees.

AN extension of the system of public relations committees, for the purpose of providing full understanding between the Broadcasting Company and would be proposed. Fully listeners. seized with the importance of establishing close collaboration with listeners, the company constituted fourteen committees, which service of broad public bring broadcasting to the service specialised knowledge of 146 leading citizens representative of a wide range of listeners' interests. order to achieve this collaboration with listeners in even greater measure, and having regard to the extensive and increasing activities of these advisory committees, the company has already announced its intention of bringing the scheme to its logical issue by setting up a Central Board, to meet at regular intervals, for the purpose of reviewing the deliberations of all the committees, and co-ordinating them prior to making comprehensive recommendations to the company. Under the present proposals this board will be unnecessary, as the four directors, representing the listener shareholders, will be in close contact with the large body of listeners-in and the public relations committees referred to.

THE scheme here formulated aims to provide for a broadcast service without cost to the State and ensure efficient administration. It safeguards the interests of the listener and re-

Use Our Booking Offices in Advance)

S-O-S

TRAVEL IN COMFORT BY CAR

WELLINGTON - PALMERSTON NEW PLYMOUTH



HAS REVITALISED OF NEURASTHENIC CASES.

Is Your Worst Enemy!

ARE you held back by worried fears? Have you the ability to A new you need back by worried fears? Have you the ability to forget yourself when in company? Or are you troubled with self-consciousness, anxiety, sensitiveness and fear of criticism—then you lack self-confidence. You are missing the good things of life.

How to Strengthen Your Nerves No tonic or magic system of exer No tonic or magic system of exercise can ever restore the health and vigour to weak, sick, unbalanced nerves. To regenerate lost nerve force, to build up strong, sound nerves, requires an understanding of the action and abuses of the nerves. It needs knowledge of the natural laws of nerve fatigue, of mental and physical relaxation and nerve metabolism. And it is only through the application of these laws that stubborn cases of Nerve Exhaustion can be overcome. Rea: this Wanderful Rook FRES.

Rea' this Wonderful Book FRE': I

ASED upon many years of intensive experience and study, the famous author. Frederick Gray, has written a remarkable book entitled "Nerve Strength, Self-Consciousness, and Personality." In plain language he gives certain easy-to-follow rules that have enabled thousands of men and women to regain their lost nervous energy, and to acquire glowing health and youtful vitality. It exables you to form a correct ungerstanding of your own case, and six-syou how to bring back your nervous vitality.

"Nerve Strength, Self-Consciousness, and Personality" is worth its weight in gold—and yet it costs you nothing This book will prove a revelation to you. It will help you throughout your entire life; it will help you to build for yourself a solid foundation for your future success and happiness. Mail coupon for your copy to-day.

MAIL NOW!

FREDERICK GRAY

DEPT. B.B., LOMBARD CHAMBERS, PICT. STEREET SYNDEY NS W. Reas this Wonderful Book FREE!

DEPT. R.R., LOMBARD CHAMBERS, PITT STREET, SYDNEY, N.S.W. Please send me a copy of your book, "Nerve Strength, Self-Consciousness, and Personality." I am enclosing 4d in stamps to cover cost of postage. This places me under no obligation whatsoever.

Address.....



Advertisement of Philips Lamps (N.Z.) Limited. Head Office: P.O. Box 1673, Wellington moves all possibility of liability to the Pronches: -Auchland, Payhel's Building, Ansac Avenue. Christchurch, 226 Tuam Street, taxpayer.

The New Zealand Radio Record

Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032, WELLINGTON.

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

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

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

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

WELLINGTON, FRIDAY, AUGUST 21, 1931.

THE BROADCASTING SERVICE.

THE statement issued by the Radio Broadcasting Company, and published elsewhere, will command attention both by its review of the performances of the past and by its proposals for the future. In both phases it deserves the detailed consideration of listeners. The statement rightly recalls the difficulties of pioneering broadcasting in New Zealand. No financial support other than that supplied by their own resources could be procured by Messrs. Goodfellow and Harris in the early days, because of the doubt and trepidation with which broadcasting was viewed: they had to take all risks, and were required to give their personal guarantees up to £15,000 to the bank to maintain progress at one stage. A financial review is given in a summary of five years' balance-sheets. This shows that for four years the service, allowing for 72 per cent. on the capital employed, was operated at a loss, and it was only in the fifth year that the cumulative dividend could be paid. Further, no directors' fees were paid at all in the first year; and even when circumstances did warrant, they were cast on the moderate scale, for the responsibilities involved, of £750 per annum, divided among the three concerned. This statement will repay careful study, and should dispose once and for all of that insidious stream of whispered innuendo which has emanated from a certain quarter. Two points of interest may here be noted. The first is that the Memorandum and Articles of Association of the Company were drawn up in collaboration with the Crown Law Office, which provided the machinery for the proper discharge of all transactions. The second is that the Company's accounts and balance-sheets have been scrupulously audited year by year by the responsible officers of the Post and Telegraph Department, so that the heads of that Department, including the Minister, have always had available full information of the Company's financial position and transactions. In its original agreement the Government of the day thus amply protected listeners, and no official criticism of any sort or kind would seem ever to have been directed against the Company's financial transactions or adminis-

COMING to the future, it is set out that the Company was invited by the Prime Minister to formulate, on the basis of its past experience, scheme suitable for the permanent administration of the service. This has been done in a proposal which is at once striking in its originality and efficient in its practical regard of all the interests involved. The suggestion is that an entirely new Company shall be formed of £150,000 nominal capital: 50,000 ordinary £1 shares to be provided by the present management, and up to the same amount to be provided by licensee shareholders: both classes of shares to be on an equality in all respects, and each of them to elect four directors to the Board, with the proviso that the chairmanship shall be held by a director repre-A further £50,000 worth of preference senting the management. shares is proposed to be issued if and as required. representative of licensees, it is proposed, shall be elected on a geographical basis involving the four main districts.

IN effect this proposal embodies the principle of an important public utility being backed, operated and directed primarily by those who use it—in essence customer ownership. It is pointed out that the main element of success in a large undertaking is that of management; hence a co-ordination of interest between management and customer on a share and share basis has been adopted. It seems to us that this proposal offers a useful solution of the problem. To the original suggestion of Government ownership of the service there has been overwhelming opposition. With economic conditions as they are to-day the country would not be justified in appropriating one penny from national funds to enter a field already adequately covered by private enterprise. To establish a Board on the B.B.C. model would be only one step removed from Government control, and the Government would have to make itself financially responsible without securing any guarantee of personal The fundamental desire of many interest and success in management. keenly interested in radio has been to secure that those who pay the piper shall be able to call the tune: in other words, that listeners should he able to actively influence the development of the service and the fare provided. That objective is covered in this plan, subject to licenseholders accepting financial responsibility for shares. Provision is made for the repurchase of those shares by the Company on any licensee forfeiting his license. It is to be noted in passing that shareholding is open to all license-holders, thus including trade interests as well as listeners.

THIS proposal is submitted at the definite request of the Government, and is now before Cabinet. To our minds it provides a satisfactory means of co-ordinating all interests, and securing the progressive development of radio on a scale likely to give maximum service and satisfaction to the whole community. Already co-operation is being effected with certain "B" class stations, and further co-ordination is offered. The prime need now of the service is the provision of full radio facilities in provincial areas. The sum of £45,000 is set down for the establishment of relay stations in specified towns. Once given their adoption from existing facilities or the erection of new stations. three-fourths of the population would immediately be placed within efficient service range, and practically the whole population, within fair service range of a transmitting station. With that attainment the radio reticulation of the Dominion could well be regarded as complete, and would be marked by an impressive expansion in the number of listeners. With customer ownership, backed by capable management, there would be instituted a definite incentive on the part of all to expand the service on a basis financially independent and free of political interference. We believe this scheme offers a businesslike and statesmanlike foundation for future development, and we await with interest the response of listeners and Parliament to the proposal.

Control of Radio

Radio Talks from 1YA

of the views of a small deputation claiming to represent the New Zealand Listeners' League, the North Taranaki Radio Society telegraphed as follows:--

"This society claims that the New Zealand Listeners' League represents a very small minority of listeners, and that a referendum of license-holders would reveal that the majority of listeneres favour the present method of con-

"This society maintains that trade interests should constitute a secondary consideration in any decision as to the future policy of broadcasting. The society further considers that control by any overseas organisation would not be conducive to the best interests of listeners, and strongly urges that the license of the Radio Broadcasting Company should be renewed."

FOLLOWING on publication last week THE New Zealand Association Radio Transmitters, which has been giving a series of radio talks from 1YA, has prepared a further list of lectures as follows:-

September 12.—"The Transmission of Speech," Mr. F. Mickelborough, of ZĽ1BC.

September 26 .- "Dynamic Speakers and Baffles," Mr. H. Boyd, of ZLICH. October 10.—"The Progress of Radio," Mr. J. Turnbull, of ZL1B1.

October 24.—"The Uses of Long and Short Waves," Mr. H. B. Arthur, hon, secretary of the N.Z.A.R.T.

KNOW the time all over the world with a

DX Clock. Posted in Cardboard Tube, Price 9d. Write "Radio Record," Rox 1032, Wellington.

Radio Helps

Unostentatious Service by

A QUIET but efficient service to the cause of charity has been given by radio over recent weeks. Shortly after its inception station 2ZW brought under the notice of Wellington listeners the necessity for according support to the Mayor's Relief Fund. Definite service was given in this direction. Immediately thereafter attention was devoted to bringing under the notice of listeners the needs of the Wellington City Mission, conducted by Canon Fielden Taylor. That work is still Fielden Taylor. That work is still being pursued with markedly beneficial

Suitable attention has also been given to cases brought under the notice of the Society for the Protection, of Women and Children. That society informed the station of specific cases of need that were not being handled by any other organisation. Generally speaking, the sufferers were people who preferred to suffer in poverty rather than ask for assistance. As a result of publicity given to these cases a great deal of help was forthcoming, with the result that, for the time being, the needs of the society are fulfilled, although, of course, more

will be wanted later on.
In the case of the Wellington City Mission the volume of support secured to that institution by mention of its needs over the air has been surprising. Up to date, approximately 50 tons of foodstuffs, apart from a large total of small parcels, have been made available by various generous donors. Cash to a total exceeding £500 has been received from listeners all over New Zealand and handed over to the mission. The largest sum was a cheque for £50, but, in general, the donations have been small and have come from the furthest point in the Innumsouth to the extreme north. erable bundles of clothing have also been provided for the mission, and no attempt has been made to compute the volume thereof.

Many pathetic cases have been cited over the air and the response of listeners to the call for assistance has never failed. A recent case was the citation of the need of an old woman for the sum of £10, to avoid being evicted for non-payment of her rent. Within 24 hours the sum of £12/7/8 was made available by listeners and sums since received have lifted the total to £15.

is not altogether new to New Zealand, as the announcer of 2ZW instituted a somewhat similar service in Christchurch some three years ago, when operating an experimental station there. At various times Mr. Strachan has rendered assistance in the way of bringing humanity into the world, in

> **Burgess Batteries** are used in all big events.

> > Why?

BURGESS RADIO

Batteries are sold in New Zealand than any other.

Whv?

Mr. Harris Interviewed

Alternative Schemes Discussed

SERVICE APPROVED INDEPENDENT

R. Harris, general manager of the Radio Broadcasting Company, Ltd., made a few additional comments upon the company's statements published elsewhere.

"I might, perhaps," he said, "emphasise the fact that Mr. Goodfellow did not seek the responsibility of inaugurating and operating a national broadcasting service, and that he only accepted the responsibility at the request of the then Government. At the invitation of the Prime Minister, for the company's views, Mr. Goodfellow had now formulated a comprehensive

Praise from Honolulu

"When in Honolulu I was in-terested to hear so many favourable opinions concerning the New Zealand broadcasting stations, par-ticularly 2YA," remarked Mr. V. Riddiford, of Lower Hutt, on his return by the Niagara. "Even the shep assistants in Honolulu talk about the wonderful New Zealand radio programmes and the marvellous orchestral playing. I was rather surprised about the orchestral playing until I realised that they mistook occasional gramophone records for the play-ing of local symphony orchestras."

scheme which, as the result of experience, it was believed would constitute the best possible means of providing for the development of the broadcasting service in the best interests of the community."

In respect to the various alternative methods of control to which public reference had been made, Mr. Harris stated that so far as State ownership or control was concerned, as an alternative to private enterprise, that was, of course, a matter of Government policy. In respect to the company's views, however, he had the following comments to make:-

As to dual control, which he under-This work in the cause of charity stood had at one time been seriously contemplated by the authorities, with the idea of operating the technical side through their own department and assigning the programmes to private enterprise, the company's inquiries had revealed that where this system was in force it had not worked satisfactorily. It was believed that maximum effeeding and clothing humanity, in fur-ficiency was impracticable under such nishing homes, and, as a final service, a system, experience having proved providing funds for burial.

IN the course of an interview Mr. A. sides were interdependent and inseparable: the finest technical administration could be marred by inefficient studio work, and vice versa.

> As to Government control of both the technical and programme sides, it would be invidious for the company to make comparisons so far as the technical side was concerned; but in respect to programmes it was open to serious doubt as to whether such a service could be handled as well by any State department as by a private company free from all political entangle-

> As to entrusting the control of broadcasting in New Zealand to an ostensibly non-political board, such as existed in the case of the British Broadcasting Company, Mr. Harris stated that the conditions in this Dominion were widely different to those in England. The conditions under which the B.B.C. operated were such as to exclude any anxiety as to finance, the revenue available being virtually unlimited and greatly in excess of the highest possible requirements for the maintenance of an efficient service. Under such a system the members of the board had no personal monetary responsibility, which was essential to the exercise of that prudent economy demanded by New Zealand conditions. In the United Kingdom they had something like twenty-two stations for about millions of a population, forty-six while in New Zealand it had been necessary to maintain four for a population of one and a half million. Further, the area to be covered in this Dominion was greater than that of the Old Country, and the company's experience had demonstrated that it would be necessary to establish at least eleven relay stations in order to give a radio coverage anywhere near comparable to that of England-a total of fifteen stations for a million and a half people, or one station per every 100,000 population, as against one station for every two million population in England. It had to be remembered, too, that the English listener was not confined to the service provided by the B.B.C., but that he also obtained the benefit of numerous European stations, many of them within less distance than that which separated the four main stations of New Zealand. Apart from these facts, it was impracticable to disassociate Government ownership from direct or indirect Government control. without seriously jeopardising the public interests. All these factors had been considered by the company in formulating the scheme that had been submitted to the Government. In effect, the scheme provided for a public com-pany operating under Government regulations and controlled by a board of directors consisting partly of a management having substantial monetary interests and responsibilities, and partly of shareholders representing licensees elected on the basis of district representation. The licensees' represen-

Puccini Society

Concert to be Broadcast by

NEXT Sunday evening, August 23, after the relay of the service in the Baptist Tabernacle, 1YA will broadcast a sacred concert which is to be given in St. Benedict's Church by the uccini Society, under the direction of Signor A. T. Constantini. This choir has a fine reputation as a musical organisation in Auckl (l.

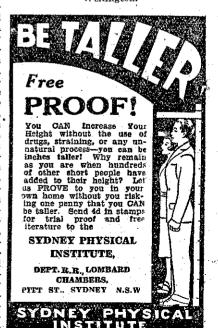
Signor Conscantini was for many ears a member of the Sistine Chapel Choir which toured New Zealand some years ago. He was persuaded to stay in this country in order to give New Zealand the benefit of his experience in church and operatic music in Italy.

The choir will sing several numbers which are not known outside the Roman Catholic Church, and will conclude the programme with a very fine Pontifical Mass, written by Monsignor Lawrence Perosi, conductor of the Sistine Chapel Choir. This is a choral number for three mixed voices with violin obbli-

tatives on the board of directors would be ex officio members of the advisory committees of the respective stations, and would come to the board meetings with a full knowledge of the requirements of their particular districts. These directors would be jointly responsible with the management directors for the efficient control and development of the service. As a public company details of its operations would be regularly made public, and so grounds for suspicion and misrepresentation would be removed. The system proposed safeguarded the interests of the listening public and assured efficient management, all without cost or liability to the State.

Simplify DX-ing.

DX CLOCK VERIFICATION FORMS— 1/6 for 2 doz.; 8d. doz. over 6 doz. Booksellers, Dealers, or Box 1032, Wellington.



More Burgess

Returned Soldiers' Choir

Unique Dunedin Combination

DUNEDIN has the unique distinction of having a choir composed of returned soldiers-the only such an excellent choir, too.

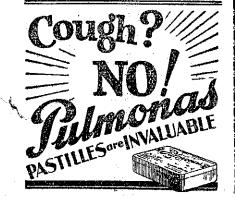
One of the finest tributes to it came from Mr. Peter Dawson, who, during his recent visit to New Zealand, attended a practice of the choir. After hearing the singing of two part-songs, Mr. Dawson, in the course of a few remarks, spoke in very favourable terms of the quality of tone, precision of attack, and general balance of the choir, and stated that in all his travels in the British Empire he had never experienced such a surprise as the ex-service men had given him that evening. He was quite genuine when he stated that in all his numerous engagements with other choirs in England and Wales he had never heard anything to surpass the Dunedin Leturned Soldiers' Choir.

The choir was founded in 1919 under Mr. Paget Gale, but it was first suggested on a transport which was carrying New Zealand troops to Gallipoli. In their care-free manner the soldiers were holding a community sing, during which a digger expressed the wish that if they survived the war they would form a Dunedin choir. They knew that behind th clouds the sun was still shining. The soldier who then made the suggestion is now a member of the

That was the genesis of the splendid organisation numbering 60 voices, one of the best choirs in Dunedin. Every member was on active service. "No distance of place or lapse of time can lessen the friendship of those who are thoroughly persuaded of each other's worth," wrote Southey, and in this choir these veterans of the war find great pleasure. Enduring friendships have been formed.

In 1924, the present conductor, Mr. John Leech, took over the reins. Mr. Leech is well known as conductor, lecturer, and tenor vocalist. He received his musical education in Manchester, England. The choir's accompanist is Mr. Charles A. Martin, Mus. Bach., L.A.B., who has a splendid reputation as an accompanist.

A concert by the choir will be broadcast by 4YA on Wednesday, August 26.



The St. Kilda Band

Famous N.Z. Combination

IN last week's issue of the "Radio at the last contest gained one mark off choir in the British Empire, and it is of the St. Kilda Band. This band, always a welcome performer at 4YA, has had a very interesting career from its early days when it was known as the Mornington Band. It has always acquitted itself well at contests and won the highest laurels. At the Dunedin contest of 1926 it won the New Zealand championship shield, and three years later, at Wanganui, in 1929, it created a furore throughout New Zealand by winning both contest selections, and the drill and music in the quickstep.

> It is interesting to know that this band has retained the drill championship for the last four years. passes a tribute to the band's popular drum-major, W. Donaldson. For some years now, the band has held the two Hawke Shields, both of these shields being for the North and South Islands, and are awarded to bands winning both test selections, quickstep and drill; in other words, for everything for which a band competes at a contest with the xception of the hymn test.

> In Dunedin the St. Kilda Band is always in great demand, charity work being a great feature of the band's activities throughout the year.

It is very interesting to know that the St. Kilda Band has retained the same bass section for the last nine This is surely a record for a New Zealand A grade band, and the personnel of the band has remained almost unchanged for some considerable time. Mr. B. Smith, tenor horn, has retained the New Zealand championship for the last three years, and where it is at the present day.

Record" we printed a photograph the possible, while Mr. G. Lowry, who plays the flugel-horn in this combination, is the present champion of this instrument. Mr. G. Christie, cornetist, was last year's runner-up for the championship, and Mr. J. Marshall, trombonist, has been runner-up for two years in succession. The business initiative of Mr. A. G. Homer, who for the last four years has been the secretary of the band, and of Mr. W. Paterson, treasurer, has placed the band on a very sound footing. All this, combined with the splendid esprit-de-corps, finds the band in a very happy position.

Mr. James Dixon is indeed a brilliant conductor. The first time he handled a baton was as the eighteen-year-old conductor of the Roslyn Choir. His band experience was gained in the Kaikerai Band, in which combination he was "G" trombone player. Prior to the war, he was appointed deputy-conductor of the Kaikorai Band, which at this time had the brilliant G. B. Laidlaw at its head. At the outbreak of the war Mr. Dixon went to the front, and in France was appointed conductor of the band of the 2nd Battalion New Zealand Rifle Brigade. In a contest in France, wherein fourteen bands were engaged, Mr. Dixon's band gained second prizé. Mr. Dixon furthered his studies while in England, and on returning to New Zealand joined both the St. Kilda and Kaikorai bands.

He was eventually approached by the St. Kilda Band, and was asked to take the position of conductor, the position which he has held for eight years. Mr. Dixon is well known throughout the band world as a very fine conductor. His strong personality has undoubtedly had a great effect in placing the band

The

Demonstration Concert

of the

Wellington Competition Society's

1931 Festival

will be relayed by 2YA on Saturday. August 29

The Radio Problem

Report by Associated Chambers of Commerce

 ${f R}$ ECENTLY a letter was forwarded to the Postmaster-General by the secretary of the Associated Chambers of Commerce on the radio situation. Listeners possibly have been surprised at the intrusion of this body into radio matters, and the nature of its comments, but that surprise will be deep-ened when it is known that this unusual action was apparently inspired by the more unusual course of a request for such action having been made from official sources-either ministerial or departmental—at least, that is the statement emanating from the Associated Chambers.

On this point the following letter has been forwarded to the Postmaster-General by the Radio Broadcasting Company:

The Hon, J. D. Donald, Postmaster: General,

Parliamentary Buildings. 1000 Wellington.

Sir,-We have been advised that a committee representing the executive of the Associated Chambers has been requested by the Government to report

on the broadcasting problem. At the telephoned request of the secretary, we forwarded them complete copies of the company's balance-sheets covering the period of its operations. We were further requested to give our authority for the Post and Telegraph Department to disclose to the committee such confidential affairs of the company other than that disclosed in the balance-sheets. This we declined to do, our reason being that it was not our right to suggest what the department should or should not do—that right belonging exclusively to the Government We are not aware of any information the department could supply such as would usefully supplement the full and complete details set out in our balancesheets; but you will realise that even if there was such information, it is not for the company to instruct the department in regard to the use to be made of

We have perused the letter addressed to you by the Associated Chambers of Commerce of New Zealand, and it appears to us that there is a possibility of some of the statements therein being understood to imply that the company's financial position has not been fully and freely disclosed.

So that you and your colleagues shall be fully advised as to the position and as to our reason for declining to give the authority asked for by the commit-tee, we are therefore writing you direct, and shall be glad if you will be good enough to place the facts before Cab-inet, together with the information that the company's books at all times have been freely available for official inspection and that every item of expenditure has been open to official audit.

Yours respectfully, THE RADIO BROADCASTING COY., OF N.Z., LTD.

AVE you renewed your subscription to the-

"Radio Record and Home Journal?"

12/6 in Advance. P.O. Box 1082, Wellington,

Jottings

TWO of New Zealand's finest vocalists will shortly tour the YA sta-Merle Miller, 3YA studio pianiste, and a mezzo-soprano singer of outstanding merit, will, early in Sectember, give three recitals from 1YA and 2YA. Later in the month Margherita Zelanda, coloratura soprano, of Dunedin, who toured the YA stations a few months ago, under engagement to the Broadcasting Company, and who created a furore when she sang at the Auckland Radio Exhibition, will appear at all stations.

IT was pleasing to hear "Uncle Jack" on the air again last week from SYA. Uncle Jack, who is Mr. E. J. Bell, Librarian at the Public Library, Christchurch, was the pioneer of radio uncles in New Zealand, and a very popular one. It is a year or more now since he last appeared before the microphone of the children's session, which he forsock because of pressure of other duties. Children who love stories will look forward to hearing him again.

the 1YA Musical and Dramatic Committee, will give a talk over the air on Wednesday evening, August 19, telling listeners the why and wherefore of this committee, and the work which it does. This is one of fourteen such committees, representing many sections of listeners' interests. who meet regularly and whose advice

known announcer, will be leaving for Nelson on August 26 for a fortnight's vacation. Mr. A. L. Curry, announcer at 3YA, will relieve him in his the best of holidays and a safe return to the microphone.

Auckland Piano Students' Association

To be Heard from IYA Next Week

THE Auckland Piano Students' Asso- tainly unique. The "imaginary ballet" ing's entertainment at 1YA on Thursday, August 27, is now in the third year of its existence, and continues to justify its place in the Auckland musical world.

In addition to the study of pianoforte works by the members, a series of lectures embracing a wide field of musical interest is contributed to the fortnightly meetings by eminent visitors and local musicians.

The association has lately acquired a comprehensive and valuable library of piano music, four and eight-hand works as well as solo compositions. With such material at hand the prospects for fu-ture work are reassuring.

A gratifying testimony to the success of the A.P.S.A. is the recent formation MR. A. B. CHAPPELL, chairman of of a Students' Association in Hamilton, which proposes to affiliate with the Auckland body. An interchange of ideas and music cannot fail to be of mutual benefit. A feature of the programme to be broadcast from 1YA will be ex amples of two-piano work in which the association specialises.

An Interesting Selection.

MR. CLIVE DRUMMOND, 2YA's well
The warn annuager will be leaving for any ballet written originally and three properties. for orchestra and three pianos, and "dished up" (the composer's own words) for two pianos, six hands, by the composer. Probably listeners will absence. We are sure all listeners will hear it for the first time and opinions join with us in wishing Mr. Drummond as to the merits will doubtless be considerably divided, ultra-modern as it is in construction. Some passages are cer-

ciation, which will provide an even- conceived by the composer presents a pageant in which the ghosts of male and female warrior types of all times and places are spirited together for an orgy of warlike dances, processions, and merry-makings, broken or accompanied by amorous interludes, their frolice tinged with just that faint suspicion of wistfulness all holiday gladness wears.

In the finale he imagines them all gathered—a sort of Valhalla—old Greek heroes, black Zulus, flaxen-haired Vik-



MERLE MILLER,

3YA studio planiste and a mezzosoprano solvist of outstanding merit,
who will shortly give recitals from
other YA stations.
—Steffano Webb, photo.

ings, lithe Amazons, squat Greenland women, Red Indians, Fijians, and graceful cannibal Polynesians-all arm in arm in a united show of gay, innocent pride, and animal spirits, fierce and exultant.

2YA's Afternoon Classical Hour

THE hour of classical music broadcast each day by 2YA, from 2 to 3 p.m., appears to be finding much favour among listeners. In particular, the presentation, extending over four aftertoral Symphony," played by the Vienna has aroused much favourable comment.

The Royal Auckland Choir

Long Record of Popular Activity

(By "Call Up.")

THE Royal Auckland Choir, composed of male voices entirely and formerly known as the Auckland Liedertafel, has enjoyed a lengthy period of popular and successful activity, having been formed in 1892. In that year Mr. Gilbert King, manager of the Bank of New South Wales, called a meeting for the purpose of forming an Auckland Liedertafel, and a good attendance resulted. Mr. Arthur Towsey was elected conductor, and held this position until he left Auckland in 1905.

The first rehearsal was held in the studio of Mr. Frank Wright, the wellknown New Zealand artist, where the members stood or sat among easels, paint, and palettes, which, in the words of the conductor, certainly "lent colour to the meeting." At that early stage of the choir's career music was scarce and some difficulty was experienced in providing copies of full scores.

Since its inception the choir has explored the whole gamut of part-singing every composer of note from 1600 onward having been drawn upon. There is an unwritten rule that at least four works out of eight should be new at each concert, and a work must have been performed at least four years ago to be selected for a new programme, It will thus be seen that a tremendous field is necessarily covered and that it is no easy task arranging the pro-

After the late Mr. Arthur Towsey's resignation from the conductorship, Alfred Hill took the baton for a short time, and then he was succeeded by Dr. W. E. Thomas, Mus. Doc., Oxon., who has continued to hold the position ever since-a period of twenty-six years. The choir has been singularly fortunate in having such able conductors to assist it throughout its

There are at present just over eighty performing members, five of whom are original members and several others of whom have over thirty years' serves with the choir to their credit. Three concerts are given each year, and these are now broadcast, the second of the 1931 series being heard over the air on August 20.

The patron of the Royal Auckland noons last week, of Beethoven's "Pas- Choir is his Excellency the Governor-General, and the office-holders are: Mr. Philharmonic Orchestra, and recorded J. F. Ewen, president; Mr. B. H. Colton a series of five double-sided records, man, secretary; and Mr. Cyril Towsey, accompanist.

Recapture that "FIRST SET" Enthusiasm With the 724 A.C.

There's no doubt about it—the 724 is an All-Electric Super-Heterodyne custom-built receiver that will again make you search for the distant broadcasting stations. It has nine tuned circuits, yet is efficiently operated by a SINGLE CONTROL.

Uniform selectivity and sensitivity over the entire broadcast banks are to be expected, of course . . and you

SILVER-MARSHALL

Radio Sets and Radio Parts

Complete S.-M. Receivers and Cabinets.

APPEN TO THE PART OF THE PART

Short-wave ve Sets, Chassis and Parts. N.Z. Distributors.

THE FACTORY IMPORTS CO., LTD., 96 Tory Street, Wellington.

THOS. BALLINGER & CO. LTD.,

Victoria Street, Wellington.

TO RADIO DEALERS .- Write to either of the above for particulars of available dealer territory.



The only Valve with the wonderful P.M. Filament. Gives longer life — more power greater volume.

Music and News.

W. H. HARTNELL, Gonville, writes stating that some five months ago he communicated with the Radio Broadcasting Company regarding change of dinner-hour music and news sessions at the various stations, so as to enable the listener to have uninterrupted music from 6 to 8 o'clock. In reply, the company expressed the viewpoint that the news session was primarily designed for the country listener, and that the most suitable time for the broadcast of that matter appeared to be from 7 to 8. Stock reports from 1YA, 3YA, and 4YA were co-ordinated, so that farmers in the various parts of the Dominion could receive news and latest market information without overlapping. It was therefore considered that any alterations to the existing schedule would not be desirable. Mr. Hartnell states that he does not hold with the company's views on this point, but mentions them for the information of men on the land.

Mendelssohn Article.

I SHOULD like to express my appreciation of the splendid article on Mendelssohn which appeared in your June number. Instead of unimportant, personal details it contained valuable information about the composer's work, especially in reference to the influences which permeated its trend.

The Most Urgent Need.

YOUR correspondence columns of late have been interesting for the various views expressed and the variety of "tastes," and have given one some idea of the tribulations of the R.B.C. in its endeavour to satisfy listeners. In the Far North 2YA is outstanding in quality and strength, and all the remarks concerning this station apply to 1YA, for after dark this latter is painful to listen to. Last Sunday night was the worst ever experienced: the evening service was mixed with records, and during the sermon a lady insisted on giving "birthdays." Suffice to say she talked the Archbishop out, so we plugged her out. The most urgent need of country listeners is more power on the YA stations. They should all be brought up to 2YA in strength, and thus give better results to the majority than relay stations. The New Zealand "B's," of course, are in the main useless to us, as they are mostly mixed up with Australian B's. Why all the fuss about advertising on B's? One would think it was something new. It can't be any worse than we get now, for only the other night we were asked to buy some "fish and chips" on our way home. If they adopt this style rather than the better class of Americans it will be their own funeral and only dxers will listen to them.

The R.B.C. should take immediate steps to increase the power of their stations to 5000 watts without wasting time to see what the Government will do, for it must be apparent that the people of New Zealand will not tolerate any more costly experiments. We know what we have now, and if the company will offer to increase the power and rearrange the sessions they will satisfy the majority of listeners.

As regards "quality," although I have only a three-valve set, my experience has taught me that on a strong signal, if you want quality you must use a super-power valve in the output stage



While we welcome the expressed views of listeners on topics pertaining to radio, we ask that these communications be kept to minimum length, as heavy demands are made upon space. Mere reiteration of arguments cannot be accepted demands are made upon space. Mere reiteration of arguments cannot be accepted for publication, and we cannot take responsibility for views expressed. Address communications to the Editor, and sign all correspondence, though a nom-de-plume may be used for publication,

be celebrated in London on the evening of September 21, when the Royal Institute will hold a ceremony in the Queen's Hall, The complete programme will be broadcast by the British Broadcsating Corporation through the shortwave station G5SW, and a rebroadcast will be carried out by the New Zealand stations. The speakers will include the Prince of Wales, Sir J. J. Thomson, Lord Rutherford, Sir William Bragg, and eminent scientists representing the United States, France, Germany, Italy, and Holland. The New Zealand rebroadcast

will begin at 7.30 a.m.

class music, but one very seldom hears any humour. Their programmes have little variety.—C. Hoiland (Penrose).

A County-side Summary.

A County-side Summary.

I HAVE been greatly interested in the subject of YA station programmes of my work I come into contact with a large number of local listeners-in, and they are practically all unanimous that the YA stations are not what they should be. The accompanying seems to express their views on the matter: (1) That sponsored programmes of B stations should be permitted. (2) As an alternative, the yearly ligense of £1/10/- be divided—£1 to the A stations and 10/- to all B stations. (3) That every alternative Sunday 1YA and 8YA broadcast morning church service, 2YA and 4YA evening service. The following week vise versa. The stations relaying morning service to supply the evening programmes The other stations to close down at the conclusion of the church service. (4) That a census of listeners-in being taken on: Whether the Government should take control, or that the lease of the Radio Broadcasting Company should be renewed?

Personally, I think that if it were possible to give the YA stations more scope they could produce better programmes. The international programmes from 2YA (I refer to the second series) have certainly lowered the high standard set by that station previously. What I would like to see from the YA stations is for them to give one night every fortnight.

with its correct bias. Hailstorms between transmitter and receiver appear to cause the most trouble.—A.E.B. (North Auckland).

A Plea for 1ZJ's Return.

I AMONG others have lost a good deal of interest in radio since 1ZJ has been closed down. This station's programmes were lively and humorous—the kind we need to cheer us up these hard times. The 1YA programmes are excellent for those who like solemn and high Faraday Centenary

The Faraday Centenary

The Faraday Centenary is to be celebrated in London on the sequence of Sentember 21 when

Salon Orchestra.

MAY I express my thanks to the Salon Orchestra and its distinguished musical director, Mr. M. T. Dixon, for its excellent broadcasts from 2YA? This combination of artists is admittedly the finest orchestra at the YA stations, and its versatility is remarkable. What I its versatility is remarkable. What I admire about the Salon Orchestra is that admire about the Salon Orchestra is that it does not confine itself solely to one class of music. It is also to be commended for including among its features the music of New Zealand composers. The Salon Orchestra has a large number of grateful listeners-in in the south who appreciate the excellent items "put over." Broadcasts by this combination are, to my mind, the most popular features from 2YA.—O.K. (Timaru).

The Right to Criticise.

I NOTICE in the last "Record" that "J.R.F." takes me to task for my So far as actual listening criticisms. is concerned I have not really any complaints because, thank goodness, I can tune in to the better-class stations in Australia. But I do not see why the "B" class stations should have their rights so restricted. Very few are bound to listen to them, so why not let them go their own sweet way? The advertising does not interest me in the slightest, yet I realise that these "B" class stations serve a very useful purpose in assisting to keep the "A" stations up to the mark. "J.R.F." mentions that I need not listen to the YA stations. I quite realise that, but these stations take most of my 30/-, and I have a right therefore to criticise the spending of same. If the YA programmes are as good as possible with the "talent" available, then do away with the "talent" and put on properly selected records.

The Sunday afternoon programme of records I must very is good as possible. is concerned I have not really any com-

and put on properly selected records.

The Sunday afternoon programme of records I must say is good, so why not have, say, one evening a week with a similar programme? I advise "J.R.F." to listen-in to 2FC or 2BL any evening to realise more fully what is wrong with YA programmes. I should perhaps, at this stage, say that in my opinion 2YA programmes are by far the poorest. Regarding my reference to humour, I indicated that if actual humourists are not available (one has to be something out dicated that if actual humourists are not available (one has to be something out of the ordinary to be a humourist these hard times), then put on selected humorous records. I did not indicate that records would be preferable. Therefore I hardly think my reference to a dance band was contradictory. Surely the latter are plentiful enough. One more word regarding announcers, if only 2YA's would drop his "Go-o-o-d-night," he would probably head 3YA's announcer for excellence.—Screen-Grid (DX4T).

The Fading Area.

E. H.M.J., a correspondent in the King Country, writes expressing appreciation of a recent relay of 2YA through 2ZF, Palmerston North. This was heard by him much more clearly than is 2YA generally received direct. There was no fading or distortion whatever. Usually 2YA, Wellington, fades a little was no fading or distortion whatever. Usually 2YA, Wellington, fades a little with him, and on this point he quotes the following from a radio encyclopædia: "There is a certain distance from a broadcasting station where fading is worst for that station. This distance generally runs between 125 and 175 (Concluded on page 28.)

RADIO DIRECTORY

What to Buy and Where

CITIES.

ACE & HAMMARLUND SETS, Johns, Ltd. Rectifiers Chancery Street, Auckland.

BURGESS RADIO BATTERIES, All Radio Dealers.

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,

Courtenay Place, Wellington,

MULLARD VALVES All Radio Dealers.

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

COUNTRY TOWNS.

APPARATUS All Good Radio Dealers.

Answers to Correspondents

D. McK. W. (Nelson) and Miss L.C. (Hastings): Full particulars of the DX Club and Competition appeared in the tirst issue of the "Radio Log," published about a fortnight ago. A few copies are still available from our offices, P.O. Box 1032, Wellington.

I. J. (Tikorangi): Your log is an excellent one for a four-valve battery set. A list of the main European stations is published this week. 4ZR, Inchelutha's schedule is as follows:—Thursday, 8 a.m.-10 p.m.; Sunday, 10 a.m.-noon.

Addresses & Addresses Wanted

COULD any DXer supply me with the call sign and address of the Indian station which broadcasts on approx. the same frequency as 6WF, Perth :—F.J. (Tikorangi).

Identification Wanted

A MERICAN on approx. 1445 kc. (207 m.), heard on Angust 8. Call sounded like "KFEG." Items heard included; 5.35 p.m., several accordion solos; 6 p.m., vocal quartet; 6.3 p.m., another accordion solo with vocal refrain; 6.6 p.m., accordion solo, resembled an Irish jig; 6.12 p.m., violin and piano. He was heard again the following evening when between 6 and 7 p.m. he was broadcasting dance music. On both occasions he was surging hadly. Very little fading, however, and no interference. Strength about R2 or R3.—DX37W. (Wellington).

STATION heard between 1.20 and 1.38 a.m. on August 9 on 1250 k.c. (240 m.) broadcasting musical items. Also station on 1250 k.c. (240 m.), which came on the air at 1.58 a.m., blotting out the previously-mentioned station. Musical items came through well, but speech was weak. Another station was heard at 2.5 a.m. on 1400 k.c. (214 m.), playing orchestral items. Call sounded like

and Views News of the D.X. CLUB

"3R.—." Also station heard at 12.25 a.m. on August 10 on 1410 k.c. (213 m.). Lady announcer gave call as "3K.—." On August 11, between 1.16 and 1.40 a.m., I logged a foreigner on 810 k.c. (370 m.). Several items were heard very clearly at R6. (What were they?—Ed.) Two further stations heard at 12.20 a.m. on August 10 on 1480 k.c. (202 m.). Heard several items from each, but could catch no call. (Note.—The frequencies given above are only approximate.)—DX4OC (Invercargill).

STATION on 780 k.c. (384 m.) heard on June 10. He came on the air after KTM had closed down. The following items were heard; "Sweet Sue." piano; "Why Shouldn't I," tenor solo; "Because I Love Xon," Lloyd's Trio.—DX2HB (Hastings).

JAP heard at approx. 10.30 p.m. on August 11 on 218 m. (1370 k.c.). Speech, interspersed occasionally with what sounded like Morse, was heard.— F.J. (Tikorangi).

COREIGN station on 960 kc. (312 m.) heard about 11 p.m. on August 9. Several strokes of gong, followed by alternate soprano and tenor songs, accompanied by several stringed instruments were heard. Also station on approx. 650 kc. (461 m.), heard on August 9 at 10 p.m. after 4YA had closed down.—DX-1HB (Waipukurau).

STATION giving call which sounded like KOGC, Minnesota, U.S.A, heard giving a test programme on the 7th inst. Signed off at 9.15 n.m. Call was repeated Signed off at 9.15 n.m. Call was repeated several times, and reports asked for from New Zealand and Ontario. He remarked he was on 1360 kc. (220 m.), with a power of 700 (?) watts. Also station dial reading 14, 3, just above 2AY, Albury 11, 0, heard on the 7th, At 9.25, item,

"When Father Papered the Parlour," I followed by bagpipes and solon—DX22 NW (Tasman).

ON August 14, at approx. 1.40 a.m. gramophone record, "I'm a Dreamer," followed by a call which sounded like 3RU. Station was operating on approx. 1500 kc. (200 metres).—DX63OO (Gore).

STATION heard just below 3SH, Swan Hill, on August 13, in the early morning.—DX22OC (Dunedin).

[Your log is quite good, though if you substituted a set of new valves you would

DX Notepaper

DX'ers! Write for that verification on D.X. notepaper and avoid missing out important details. Takes a quarter of the time to write out, too. Obtainable from P.O. Box 1032, Wellington, in two-dozen lots (minimum order), price 1/6, or six dozen for 4/-, post free. Special paper for club members.

probably notice a big improvement in your set's performance.—Ed.]

Stations Identified

DX2HB (Hastings): I heard a station on 780 kc. (384m.) over two months ago, when he appeared to be on a regular ago, when he appeared to be on a regular schedule, as no announcements concerning tests were heard. I thought the call was "KPL." I noticed that two old friends, 2ZH and 2ZP are on the air again, the former having increased his power to 100 watts. He operates on his old frequency of 1260 kc. (238m.), and he came in at R8 on test transmission.—DX7W. (Marton).

tion," Aldolphus Hotel, Dallas. Texas. They are on the air every week day from 6 a.m. until midnight, or later, and every Sunday from 7 a.m. until midnight, C.S.T. I find that 3BA and 3BY are two of the worst offenders in regard to answering reports. I sent them two each, with stamped and addressed envelopes enclosed, but have received no reply. 4RK comes in splendidly here.—N. Jenkins (Masterton).

Monogrammed Envelopes.

THINK DX2HB's idea for DX envelopes with the club's monogram is a good one. The alternative of seals is, of course, a matter of taste. I prefer the former.—DX24HB (Waipawa).

the former.—DX24HB (Waipawa). [Those Australians barred from the DX competition unless logged in daylight must be received in daylight. If the station is logged after dark, even though at the transmitting end it is still daylight, the verification does not count.—Ed 1

KFBI Again Reported.

IN a recent issue J.P.C. (P.N.) questions the reception by D.T.H. (Time aru) of KFBI. On July 15, at 10.50, N.Z.T., and on the 16th, at 10.30, I also picked up this station on 1050 k.c. (286 m.) and held him until after 11 p.m. On the 16th the arregues to the 16th the 1 the 16th the announcer stated that they were commencing their programme at 5 a.m. This would coincide with 10.30 p.m. our time, as KFBI is about half-way between the 106th and 90th meridian and KMTR is almost on the 120th. The latter, I presume, would observe the Pacific time, which would make a difference of two hours between the two stations and thus bear out the different times quoted by D.T.H. and J.P.C.—E.J.W. (P.N.).

A Sensitive Set

A Sensitive Set

I NOTICE a reader recently gave his experiences when using the Browning Drake. I have a four-valve set, using one stage of neutralised r.f. similar to that used by the Hammarlund Roberts. Using an aerial consisting of about 50 feet of 24 d.c.c. around the picture railing, I am able to receive KFI, Los Angeles, as well as several Japs, on the speaker, and, of course, a large number of Australian and N.Z. "B" class stations. 2YA is at ample volume on the speaker during daylight, and 2FC can be heard faintly. I found that .01 mfd. condenser across an Ormond balanced armature, with a 9in. cone and large baffle unit gives very lifelike reproduction.—H.A.B. (Huapai).

Another New Australian.

Mew CHUM" (Dunedin): VK3HB,
Brighton: See my notes of last
week.—N. Jenkins (Masterton).

DX5HB: WLAC, Nashville, 1470 ke.
(204 m.), conducting a special foreign church service.—DX1HB (Waipukurrau).

DX Topics

DX Topics

A DX Night.

DURING the evening of August 2, from 4.30 p.m. onward, I heard 3, American stations, not counting several faint ones, below strength R2. KGER and KFSD have been coming in well lately. Some nights they have been at R7. The following particulars of KRLD are faken from a recent verification:
Power, 10 kw., frequency 1040 kc. (288 m.). Address, "The Times Herald Sta-

DX Club Membership

D.X. Editor. Box 1032. Wellington.

Dear Sir,-

I am very interested in D.Xing and wish to become a member of the DX Club.

1 enclose herewith 2/6 for hadge of the {brooch } type and membership card.

I would like also to subscribe to the monthly D.X. magazine, "The Radio Log," and enclose 6/6, being 12 months' subscription, post free.

(Strike out last paragraph if not required.)

{ battery, using My set is a ····· valves.



Name

Address

Nom de plume

(Please use block letters.)

"The Valve With the

TRAIL BLAZER OF

Specially selected by Manufacturers because OBTAINABLE AT VALVES

GOOD

ALL

Life-like Tone."

THE INDUSTRY

America's Leading Set their reliability. of -RADIO DEALERS.

that an additional style of DX paper should be made available. Personally, when I have found it necessary, I have utilised the other side of the standard DX notepaper. There is surely sufficient space here, so why further expense? Others' views would be interesting. In last week's issue R.A.S. (Mamaku) remarked that he is sending to a certain station for verification, this time enclosing a stamped and addressed envelope for a reply. This is a commendable practice where a small, privately-owned station is concerned. If all DXers did this there would be fewer reports unanswered. Times are hard for station owners as well as for the rest of us.—DX37W (Weilington).

Suggestions for the DX Rules.

VOU were asking for opinions concern-YOU were asking for opinions concerning the DX rules. I would suggest barring all New Zealand and Australian stations, as they are easy to log, and it is only putting more expense on the shoulders of DXers who, in many cases, can scarcely afford it.—DXIINW (Blackball). (On the contrary, we do not believe that some of the Australian "B's" at least are easy to log. Many of them were missing from the winning log in the last year's competition.—Ed.)

Who is This?

ON August 9 I heard the stranger on 456m. (658kc.) on several musical numbers, but could not get call sign on account of interference by 2FC and 4YA. He appeared to be an American. I recently received from Australia six verifications for duright receiving S.M.O. cations for daylight reception .- S.M.C. (Mokau).

Mystery Station Identified.

THINK I have at last identified the mystery station on 910 k.c. (330 m.).
I was listening in on August 9 when I picked up this station at about 5 o'clock, and held him until about 6.30, when he and held him until about 6.30, when he closed down. Much foreign talk and music was heard, and at 6.6 o'clock, N.Z. time, he announced his call as "XEW, Mexico City, Mexico." He also gave the name of the shortwave station, but static prevented my hearing this clearly. According to the latest log book XEW is on 780 k.c. (384 m.), so he is evidently shifting around. Strength R6-7, QSA 3, fading fairly bad.—DX10NW (Brunnerton).

European Stations Again Coming In.

LATELY WOAI has been coming in very well. I always try to get his news session before he closes down at 4.45 p.m., N.Z.T. (About 11 p.m., his news session before he closes down at 4.45 p.m., N.Z.T. (About 11 p.m., Texas summer time.) The two Indian stations, Calcutta and Bombay, have been received well this month, while on July 19, between 2 and 4 a.m., the Colombo station was logged between 1YA and 6WF. Also Radio, Bangkok, which comes in on 2BL's frequency, with very weird music and singing, between 1 and 3 a.m., N.Z.T. I notice quite a few Japs remain on the air on the lower frequencies after the main ones have closed down. They are much weaker than JOAK, etc., so I suppose they are of the European stations can now be of the European stations can now be heard in the morning between 7 and 8 a.m., but are not yet strong enough to hear any announcements. The Austrahear any announcements. The Austra-lians are coming in well in the morning and it is seldom that we cannot hear 2FC on their news session at 8.30 to 9 a.m. At times 2FC comes in so loud on the speaker that I have to cut the volume down.—"Lighthouse" (Bluff).

A Letter From 2TW.

THE following letter was received from Mr. T. R. W. Bushby, "Wakatipu," Bateman's Road, Gladesville, New South Wales (station 2TW), concerning recently-made tests:—"In connection with recent tests carried out from here and from VK2EK, both Mr. Kenny (VK2-EK) and I wish to thank you for publicity given them through your columns. We would be much obliged if you would thank all those who endeayoured to pick

For Early Morning DX-ers.

AS the Europeans are commencing to come in again, the following list may be useful to DX-ers,-N. Jenkins (Masterton).

		Kilocycles.	Metres.
LILLE (France)	15 k.w.	1130	265.4
HEILSBERG (Germany)	75 k.w.	1085	276.5
BRATISLAVA (Czecho-Slovakia)	14 k.w.	1076	278.8
TURIN (Italy)	8.5 k.w.	1013	296
BORDEAUX, Lafayette (France)	35 k.w.	986	304
GOTEBORG (Sweden)	15 k.w.	932	322
STRASBOURG P.T.T. (France)	15 k.w.	869	345,2
STOCKHOLM (Sweden)	75 k.w.	689	436
ROME (Italy)	75 k.w.	680	441.2
LANGENBERG (Germany)	17 k.w.	635	472,4
MILAN (Italy)	8.5 k.w.	600	500
VIENNA (Austria)	20 k.w.	580	516.4
SUNDSVALL (Sweden)	15 k.w.	554	542
(The last station relays Stockh	olm on 436 n	aetres, 689 k.c	ı.).

We are sorry the results were 3630 k.c. on Wednesday nights from 10.30 us up. We are sorry the results were 3630 k.c. on Wednesday nights from 10.30 not too good. Apparently only one experimenter succeeded in hearing VK2EK to 1 a.m., N.Z.T.) I understand the at any strength. Nevertheless, this is very fine work considering that only 15 was a last gave us some public-watts input is used at both our stations. ity, and if you could thank them on our Owing to a bad storm I was not on for behalf we would be much obliged. If one of the scheduled times. We hope you happen to know Mr. Mark H. Churto run similar tests in the future and ton (a well-known N.Z. experimenter), we will advise you of the date in good you might tell him I received his radiotime. This station uses a regular gram (for which many thanks), but his schedule (circumstances permitting) on promised letter has not yet come to hand.

Yours, etc., T. R. W. Bushby (VK2-EK)."

Reports Wanted.

A CCORDING to verifications recently received from KZRM, 7HO, IZJ, these stations would be very pleased to receive reports from listeners. — DX42W reports (Oamaru)

(Oamaru).

[4RK, Rockhampton, is a sister station to 2NC, Newcastle, both operating on a power of 2k.w., so it was incorrect to class the former as a "B" class station. We apologise for the slip. 2ME, Sydney, often operates on approx. 200 metres (1500 k.c.) when communicating with coastal steamers. It is operated by Amalgamated Wireless Ausasia, Ltd. 4MK, Mackay, operates on 1190 k.c. (252 metres).—Ed.]

For B.-D. Owners.

THE following tips might be of use to Browning Drake owners and others. I have a Hammarlund Roberts four-valve, using practically the same circuit as the Browning Drake, but find that while the same with the same of the sa Browning Drake, but find that while my detector dial travels from 0 deg. to 30 deg. (approximately 170m, to 240m.), the r.f. dial must remain at 0—otherwise I get no volume. On lower frequencies (higher wavelengths) the dials read nearly the same. I tried a fixed condenser in series with the r.f. condenser for the low readings, but this was no improvement. However, by breaking the lead from the r.f. condenser to the coil. i.e. making the r.f. stage untuned (while lead from the r.f. condenser to the cont.
i.e., making the r.f. stage untuned (while
dealing with the low wavelengths) and
tuning only the detector dial, I get about
double the volume. After the detector
dial has reached about 30 I close the circuit by means of a switch, and the r.f.
condenser commences functioning. By



this method I have had WLAG, AGER, KDYL, etc., at loudspeaker strength. I also use a Philips pentode B443 in the last stage for weak signals. This boosts them up very well. I have the extra terminal permanently connected with the B+terminal, and when not in use, the valve is pleased in the allowed translated the video is placed in the valve socket at the side some time ago on that frequency. Has of the cabinet. For ordinary stations I any DXer picked up these stations lateuse a B605 controlled by a separate rheo-ly? Fortunately 4RK and 1XA have stat, so that I can reduce the filament voltage to 4 for the pentode. I have been told that a pentode is of no use in a set using two stages of audio, but while the tone may not be so good, the volume is almost double that of the B605.—DX4IA (Whangarei).

[You would find a big improvement in

the tone if you used the full rated 150 volts with the B443; 90 volts is much too small. Also, if you are not using a too small. Also, it you are not using a tapped output choke, it is doubtful whether your speaker is correctly matched to the pentode. You would get much better results by fitting one.—Ed.]

Daylight Reception.

AT 4.30 p.m. on a recent afternoon I received 2NC and 2FC clearly without an aerial. I notice DX2HB reports hearing a station KGL on 780 k.c. (384 m.). I received the station last Tuesting a station for the station of the station o nearing a station RGI on 780 K.c. (881 m.). I received the station last Tuesday, on the same frequency, but understood the call to be KPL. Is there such a station?—DX4OC (Invercargill). [Not according to the latest lists.—Ed.]

Amy Johnson's Speech Heard.

ON August 7 I had the good fortune to pick up the broadcast of Miss Amy Johnson's speech from Tokio. Reception was excellent.—DX3T (N.P.).
[You heard 2XL, Broken Hill, testing. See DX Topics.—Ed.]

Particulars of Verifications.

THE following are the most recently THE following are the most recently-received of my verifications: KSTP, 1460 k.c. (205 m.); KTHS, 1040 k.c. (288.3 m.); KZRM, 618.5 k.c. (485 m.); KMTR, 570 k.c. (526 m.); and KFVD, 1000 k.c. (300 m.). DX42W (Oamaru): I wrote KTHS for verification of my reception of the broadcast of the wei-come to the Prince and Princess of Sakamatsu, of Japan. They said my report was correct and they were clad come to the Prince and Sakamatsu, of Japan. They said my report was correct and they were glad they warfe my letter. Latest loggings report was correct and they were glad to verify my letter. Latest loggings include KFBB, 1360 k.c. (220 m.), power 100 watts; KPCB, 670 k.c. (448 m.), 100 watts; and KFSD, 600 k.c. (500 m.), power 500 watts.—DXSHB (Napier).

Does KGL Exist?

J.P.C. (P.N.) and DX2HB: Re KGL, Some months ago I logged this station at about R2, hearing him several times. Some time later the only station I could locate on 780 k.c. (384 m.) was KTM. I have been unable to find KGL in several of the latest call books and concluded I had been mistaken. However, I have heard KGL twice lately and am absolutely certain of the call. It could am absolutely certain of the call. It could hardly be misinterpreted for KTM. Has any other DXer heard this station, just one degree above KGO? "Amazon" (P.N.): WTIC, Hartford, Connecticut, and most other eastern Americans sign off at approx. 4.30 p.m. N.Z.T. (i.e., 12.0 midnight with them). "DX1HB": I

SPECIAL VALUES

0-50 Pocket Voltmeters, 7/6. Now 5/-171 A.C. Tubes, for Electrics, 18/-.

Now 10/6 Tone Controls, for Push-Pull Sets, 19/6 Speaker Extension Cords. 50ft., 4/6 Speaker Extension Cords. Extension Cord Connecters Hydrometers—small, 2/3; large, 3/6 "O" Batteries, 4½-volt, 1/-, 3/9; 9v. 2/9 Spark Tester and Pencil, 1/6; large, 1/9 3-Valve Radio, complete .. £12/10/-Speakers from 37/6, less special discount

ROYDS-HOWARD CO., 553 Colombo St., Christchurch.

this method I have had WLAC, KGER, have since been able to identify the sta- ers. tion that I inquired for last week. Station signing off at 6.30 p.m. was WKY, Oklohoma City, and immediately KHJ, Los Angeles, came in on the same frequency, 900 k.c. (333 m.). I have also logged WJAX, Jacksonville, Florida, been separated, but 1YA now completely blots out WENR, Chicago, who came in at splendid volume later in the afternoon. However, 4RK puts over splendid programmes and is well worth the separate space on the dial.—DX23A (Cambridge).

Particulars of KFI.

Particulars of KFI.

TOLLOWING is an extract from a verification received from Earle C. Anthony, Inc., 1000 S. Hope Street, Los Angeles, California, owners of stations KFI and KECA.—J.L. (Wellington): "KFI has previously broadcast on 640 kilocycles (468.5 m.), with 5000 watts power. Early in January, 1931, a 50 kilowatt transmitter was purchased and installed approximately 20 miles from the centre of Los Angeles, 30 acres of ground being necessary to accommodate this new plant. The towers are 400 feet high and are spaced 750 feet apart. They are insulated both at the ground and the 200ft. levels. The ground system consists of some 20 miles of copperwire plowed about 18 inches underground. The entire installation will The entire installation approximately cost, when co when completed,

"The programmes you heard were test programmes made during the adjust-ment of the transmitter. Since July ment of the transmitter. Since July 5 modulation and general performance have been materially improved, and on July 11 and 12 we will officially start brondcasting our regular programmes on 50,000 watts at 640 kilocycles, using the

same call letters, 'KFI.'

"Our regular programme schedules run from 6.45 a.m. to midnight, Pacific Stan-dard Time. There may be an occasiondard Time. There may be an occasion-al late programme put on for the bene-fit of our friends in Australia and the Orient, but owing to the time required for advanced notice, it is doubtful whenor advanced nonce, it is doubtful whether we can make any announcements of these except over the air.—A. F. Kales, general manager."

[DX1T (New Plymouth) and "Bob" (Wellington) also forwarded a copy of the above.—Ed.]

3BO's Frequency to be Altered.

I HAVE just received verifications from AWA, Ltd., regarding reception of VJMM and VJNT (s.s. Kapara). They VJMM and VJNT (s.s. Kapara). They state that these ships work on very snall power, and it is excellent DX-ing to pick them up in New Zealand. Writing regarding the interference of 3BO with 3YA, they state that this will be rectified shortly, so I presume they are making representation to have their allotted wavelength altered. This news will be welcomed by a number of New Zealand listeners. I have just received my "card" from 3TR Trafalgar. They give the following particulars: Aerial power 50 watts, wavelength 234 metres (1280 kc.). The station manager adds a P.S.: "We rather like the idea of your D.X. forms." Though I have sent some 90 odd reports on our D.X. forms this is the first occasion that any reference has been made to them by reply.

There is a JEWELL

Measuring Instru-ment for every type of Radio and Electrical Require-ment, if unable

ers. Then what about the D.X. Club's sticker stamps? Are not members sufficiently interested to want to bring before foreign countries not only New Zealand's D.X. Club, but New Zealand as a country? Take America, for example. Every letter or card I get from them is not included a description of first and a varied. a national advartisement first and a verifi-cation next. It is little things like these that impress others, and considering the cost, which is so small in comparison to publicity received, I personally think we should do all in our power. Now, members, let us boost our country.—DXIT (New Plymouth).

Amy Johnson Speaks to Japan.

ON 7th inst., at approx. 11.5 p.m., Miss Amy Johnston spoke for some five minutes through JOHK, saying how much she was impressed by the reception she had received. Japan, she said, looked, as viewed from the air, like a large cake of chocolate divided into squares. Reception of this broadcast was perfect with sig-nals R8. At the conclusion of Amy Johnnals RS. At the conclusion of Amy Johnston's talk a woman spoke in Japanese, apparently interpreting same. Latest verifications include KECA, KFI, VUB Bombay, and KZRM, Manila. Bombay transmits on Mondays, Wednesdays, and Fridays, commencing at 11 p.m. (LS.T.), wavelength being 357.1 metres (840 kc.).—DX25NW (Westport).

Reports on 2ZD Wanted.

FOLLOWING are particulars of 2ZD. Masterton's, schedule:—Commencing from Monday, 17th August, 2ZD, Masterton, will be on the air daily from 7 a.m. to 9 a.m. The hours of transmission from this station will be as follow: sion from this station will be as follow: Daily, 7 a.m. to 9 a.m. (Sundays excepted); on Wednesday, 7 p.m. to 10 p.m. and Sunday 8 p.m. to 9.30 p.m. 2YA, Wellington, will be relayed; Saturday, 12 noon to 2 p.m. Any reports on the above transmissions would be appreciated by W. D. Ansell, owner and operator, 35 Queen Street, Masterton.

2XL Testing.

HEARD a new station (at least new to me), 2XL, Broken Hill, on 13/8/31, at 11 p.m., testing on approx. 1365 (219m.), DX 46 A (Cambridge). What was your opinion of reception of WLW on August 52—DXIHB (Waipukurau).

Correct Schedule of 4ZP.

IN your last issue it was stated that IN your last issue it was stated that 4ZI, Invercargill, relays 4YA occasionally. This should be 4ZP—owned and operated by R. T. Parsons, The latter's schedule is also given wrongly on the DX page. I called in at the station yesterday, and found the schedule to be as follows: Mon., Tues., Thus., S to 10 p.m. Friday, S to 11 p.m. Sunday service. 6.30 to 8 p.m. Concert, S to 9 p.m.—"Electrad" (Invercargill).

Particulars of XEW.

MEXICAN station XEW was heard on MEXICAN station XEW was heard on August 9 from 5 p.m.-6.55 p.m., N.Z.T. R5—7, QSA4., Dance music and some very fine vocal numbers were heard. Announcements were made in Spanish. When closing down, heard "This is station XEW, Voice of —— Mexico City, broadensting on 329.5m. (926 k.c.), also on shortwave, 50 metres (6000 k.c.)."—S.W. (Gishorne).

Concerning Unanswered Verifications.

A NEW station, 2XL Broken Hill, was to them by reply.

DXISW's idea is quite a good one, and heard at good strength on August 13 pads made up with the club badge printed from about 12.30 a.m. onwards. He is on, should find a ready sale among listento open shortly, and his address is: "Bar-

ment. If to obtain, direct to— Factory Representatives for New Zealand: ABEL, SMEETON, LTD., Customs Street East, Auckland. the state of the s

Then what about the D.X. Club's rier Broadcasting Co., Broken Hill, Vic. are stamps? Are not members sufficiently interested to want to bring beceived. Re overdue verifications, 2TR foreign countries not only New Zealand as a enclosed a stamped envelope to both. In try? Take America, for example, a vertification by letter from 3EF, filtry letter or card I get from them is rounded a verification by letter from 3EF, filtry letter or card I get from them is considering the sent, and will not be getting any in the mantime, unless I knock a printer on the head or something similar, as the price which is so small in comparison to

Notes on Reception.

PECENTLY I picked up 3KU, Swan Hill, using their new call, 3SH—as advised by other DX-ers—but they were operating on approximately 1070 kc. (280 m.). I previously logged them on about 1290 kc. (232 m.). 2MO, Guunedah, appears to have increased its power, as I am receiving them much stronger just now. They must think we keep late hours now. They must think we keep late hours over here, as they were acknowledging New Zealand reports at 1 a.m. I have never before got 2HD, Newcasile, above R3, but I received them on August 13 on their new frequency at R7. They were, however, heterodyning badly with 7LA, Launceston, 2CA, Canberra, was heard testing during the week. A new station, or, at least, one that I have not seen mentioned, was heard testing on approximately 1350 kc, (222 m.), under the call 2XL. Broken Hill, It comes in right on KGER. I have picked up 1ZS, Auckland, a few times this week at about 8 a.m. a few times this week at about 8 a.m.

DX Notes.

INOTE several DX members quoting JQAK as the station heterodyning 4QG. I have identified this station definitely as JOBK. There is a difference of only 10 kc. in the frequencies of the two stations, but the first is only 500 watts, as against the latter 10,000 watts, so it sounds only feasible that my statement is correct. Another station inquired about recently on 920 kc. (326 m.) is XEW, Mexico City, 5 kw.; this station is supposed to be on 780 kc. (384 m.), but I have distinctly heard his call, and secural energy information to the station of the secural energy information to the secural energy in the secural energy ave distinctly heard his call, and secured enough information to write for verification. From information just received,
2MK, Bathurst, has definitely closed
down. I note DX42W (Oamaru) asks for
information re the broadcast from San
Francisco of the welcome to the Japanese
Prince and Princess. Several DX-ers reported on that transmission, and stated it was KRLD. As it happens, I distinctly heard the call of the station relaying, and heard the call of the station relaying, and I have a reply to hand this week from them. It was not KRLD, but it appears that if the information is handed over to Mr. Saxton of the N.B.C., it might mean unpleasantness for the station concerned. If DX42W assures me this is not so, I will be only too pleased to pass on the information. Just received verification from 2WL, Wollongong Broadcasting Co., power 50 w. Mr. Russell Yelden is manager. Schedule, 6.30 to 10 p.m. week days, 7-9 p.m. Sunday (N.Z. time).—J.P.C. (Palmerston North).

Recent Loggings.

Recent Loggings.

IDEAL conditions have prevailed during this last fortnight for DX reception. From 4 p.m. onwards the dial is crowded with American stations, many, of course being too weak to identify. Recently loggings include:—KFJF, KGIR, and WBIG. My latest Australian is 2WL, Woollongong, N.S.W. He is just below WLAC. KGMB, Honolulu, is coming in well at present, reaching R9 at 6.30 p.m. I have yet to receive a card from 4BC. I will tempt him with a stamp next time. will tempt him with a stamp next time. If these stations conduct tests and ask for reports it is only fair that they should Q.S.L.—"DX1OA" (Waitoa).

Particulars of 2XL.

SZE, Greymouth, was on the air on 12th inst. An Australian station, 2XL, Broken Hill, was logged on the same evening on 220 m. (1360 kc.). Interference from Morse was bad. I wonder if I will be safe in saying this is a "new" station! Announcer said station was for Roken Hill listeners when conditions station! Amounter sain station was for Broken Hill listeners when conditions did not permit of reception of other stations.—"Hydro" (Napier).

[Yes, very doubtful. I expect verifications were not forthcoming.—Ed.]



CABBAGE (Gisborne) writes concerning our instructions for fitting headphones to an electric set. "I have had not really get much of a chance."

5. Is it necessary to shield when one lives far from interference?

A.: Yes. The shielding is not against and the shield phones fitted to my eight-valve a.c. set, but find them unscuccessful. One can-not pick up the distant stations any better than be can on the loudspeaker. I would not advise anyone to fit phones to an electric set. I have taken mine off." In reply to this, we would remark that we are in complete agreement with our correspondent. If you cannot pick up the station on the speaker you would have very little chance of picking it up on the phones, for the simple reason that the noise will be magnified out of proportion. However, phones can often be fitted to an electric set to make listening more comfortable and convenient. Thus, if you wish to listen to the set at some distance from it, you can run a relay line and use the phone only, or, if you are sitting up late at night, and do not want to disturb the house, the phones can be used with the volume turned down. Phones have very many more uses than for merely ter than he can on the loudspeaker. the volume turned down. Phones have very many more uses than for merely picking up distant stations.

J.R.W. (Roxburgh).-I have built the J. R.W. (Roxburgh).—I have built the Knife Edge Rejecta," but cannot separate KF1 from 4YA. The two stations hererodyne. Similarly I cannot sliminate 4RK in favour of 1YA.

A.: We are afraid that the best built wavetrap will not operate stations that are close enough to heterodyne. See our article in last week's issue.

2. I could not procure d.c.c. wire, so I used d.s.c. Would this make any difference?—No.

used d.s.c. ence?—No. ence?—No.

3. How could I employ the parts I now

have to rectify the trouble?

A.: We are afraid you cannot do anything to improve matters. A wavetrap will restrict a broad station to something like its proper frequency, but it will certainly not help heterodyning stations.

CORRESPONDENTS must attach

ORRESPONDENTS must be the coupon to all queries sent to the Technical Editor (Box 1032 Wellington, Limit three questions, unless letter is accompanied by 1/-

Name of set

Number of valves

Name

DECIBEL (Masterton): I enclose a sketch of my set. The voltages seem uduly high. Is this so?

A.: The voltages are fairly high. almost seems as though a resistance has broken down. The average modern valve will take a high voltage on the plate, but 215 on the plate of the screengrid valve is rather too high, and it would be as well to check through the control of the screengrid valve is rather too high, and it would be as well to check through the screen grid valve is rather too high, and it would be as well to check through the resistances in the main chain, and, if these appear to be all right, put in a resistance between the high tension supply and the common plate lead. The voltage on the 245's is about right, although the valves are not balanced properly, which accounts for the difference in grid-hies. The difference in grid-hies. for the difference in grid-bias. The differfor the difference in grid-bias. The difference in grid-bias may be due to the valves or the biasing resistances being different 2. The detector and first audio resistances are the same colour. How would a difference of 15 volts on the plate be accepted for 2

A.: By two facts. The detector passes more current, and consequently the resistance, which we are presuming to be the same as that in the first audio, will break down the voltage to a greater extent. The action of unrectified current on the grid of the valve has a further effect in tending toward an increased plate current, and whatever increases the current, lowers the voltage. We presume you have changed the detector and first audio valve, so that the difference is not due to the

valves themselves.
3. What current passes in the resistances marked X?

A.: It is impossible to say. You would need to know the drain between "A" and earth. This is the bleeder current. You would have to place a milliameter between the X resistance and earth and find the automatic the growing the voltage. out the current, then, knowing the voltage dropped, you could calculate the resistance. Undoubtedly, in working out your voltages, you forgot to allow for the bleeder current, and this may be in the vicinity of 15 mamps. In calculating resistances and current, where bleeder resistances are used, you must always add in the bleeder used, you must always and it the bleeder current. Thus, if the screens must be supplied with 1½ mamps., and the next resistance 40 wn is a bleeder to earth, and passes 15 mamps., a total of 16½ will flow through both resistances, and this, of course, will have a very big effect upon the voltage. the voltage.

HERE (Herekino).—1. What constitutes a by-pass condenser?
A.: See the "Diagnosis of Radio,"

A: See the "Diagnosis of Radio," about a month back.

2. Would results be as good, leaving out the .006 condensers when using a six volts accumulator and "B" batteries in the "Sellens' Shortwave Set?"

A: That is more than we can say. They prevented instability in the original model. You may find that it will go just as well without it. In any case, try.

3. What are the different "B" tappings?

A: The "B" voltages really depend upon what you are willing to place upon the valves. "B" 4 and "B" 5 could quite well be joined together, and might be of the highest voltage available, say 135 volts. "B" 3, 22½ approximately, "B" 2 might again be 90 or even 135, and "B" 1 half of "B" 2.

4. I use A615 and A609 in H.R. 4. Would they do for detector and second audio stages of the "Sellens?"—Yee.

A.: Yes. The shielding is not against local interference, but against self-oscilla-

6. Could .00014 condenser, not a double

6. Could .00014 condenser, not a double space, be used instead of a .0001?

A.: It could be used, but it will throw out your tuning. You could reduce its capacity to a .0001 by using in series a condenser of a capacity of .0003.

7. I am still battling with R. the W. detector circuit, as an adapter. I am getting plenty of Morse and some stations. What distance apart should secondary and tickler be?

A.: You must try them to see where the optimum coupling is. They should be fairly close.

8. Are my valves right, A615, A609?—

8. Are my valves right, A615, A609?-

Yes.

9. I find I get better results with r.f. valve removed from the set.

A.: This is sometimes the case. It takes a load off the battery, and to some extent prevents back coupling.

10. I enclose a sample of wire. I used 100 turns jumble would. Is it satisfactory for this purpose, and if so, what is the size?

A: It is fairly coarse for the r.f. choke.

A.: It is fairly coarse for the r.f. choke, the diameter being 30 s.w.g. d.c.c.

P. (Dunedin): Could you supply information regarding a set of coils for the Outspan Five, in order that I may make it into a six-valve set?

make it into a six-valve set?

A: For the three r.f. stages you will make three coils identical, that is, aerial coil and first and second radio. These will be as follows:—Sec. turns, 80; 26 d.s.c.; primary turns, 25; 34 d.s.c., wound as described in the "R.R." 4th coil. Sec. turns, 80; 28 d.s.c.; primary son, 28 d.s wound as described in the "R.R." 4th coil: Sec. turns, 80; 26 d.s.c.; primary turns, 25; 34 d.s.c.; tickler, 30 turns, 32 d.s.c. We think to start with you had better make all the coils with the same

better make all the coils with the same number of turns on the secondary, and then remove turns if necessary, to match.

2. What coil alterations will be necessary to use Philips A630 valve in the r.f. stage in a four-valve Browning Drake?

A.: You may have to do some experimenting to use this valve in the first menting to use this valve in the first stage. Generally it is necessary to double

the number of turns on the primary coil. 3. Could you give me a diagram of connections showing how to add further s.g. r.f. stage to the Outspan Five?

A.: We are not particularly keen on supplying diagrams. The third r.f. stage is merely a duplicate of the first. However if you cannot manage it, send us a stamped and addressed envelope and we shall sketch out a diagram for you.

DX37W. (Wellington): Is it possible to convert a locally-made all-electric local station receiver into one capable of

getting distant stations?

A.: We think it most inadvisable to attempt any alterations to this set. The most serious drawback is the power pack, which is built to supply exactly the current required and no more.

W. E.O. (Masterton): What valves are used in the Radiogram Five battery set in the "Radio Guide"? Would the 222 type be satisfactory in the r.f. stage?

A.: Yes, 222 would be quite satisfactory. The wiring is like this. The grid is at the top of the valve and consequently the wire that now goes to the grid terminal in the present layout must come to the top of the valve. The connection

to the coil and fixed plates of the tuning to the con and nace places of the turing condenser will likewise come from the top of the valve. The spare "G" terminal takes the wire that now goes to the "P" terminal. The "P.T." terminal now left free has connected with it the plate wire which come through into the part stage. which goes through into the next stage. In other words, the grid is at the top of the valve, the plate prong connected with the plate of the valve, and grid prongs with the screening grid.

POWER (Otago).—I have a commercial eight-valve receiver less than three months old. When running round the dial from 100 to about 80, with full volume, there is a loud plopping noise, accompanied by whistling and squealing when static is bad.

A.: The set is oscillating, and it appears that you will have to get in touch with the agents who sold you the set so that it may be overhauled properly. It would be unwise for us to advise you to tamper with commercially-made receivers. As a matter of fact, the writer has end As a matter of fact, the writer has en-countered a somewhat similar trouble, and

it has been traced to a defective volume control or resistances.

2. Would noises from power leaks occur all over the dial or only at certain frequencies?

A.: It would depend upon how severe they are. The possibilities are that they would be all over the dial. We think that much of the noise is due to your set being out of order.

C. H.W. (Invercargill): I have constructed the Sharman Receiver from a recent feature in the "Radio Re-cord," and the results were splendid. My cora, and the results were splendid. My log includes the Dunedin stations, 3YA, 2YA, and 2BL. I could not hear anything until I shorted out the condenser in series with the crystal, although the receiver could be heard oscillating gently when a semi-nermonent gravatel was used.

receiver could be heard oscillating gently when a semi-permanent crystal was used. A.: The set usually goes better with the condenser, which is used to control the flow of h.f. current to the crystal and so provide reaction. However, if it is



There is remunerative employment for qualified radio men on shore and ship. The up-to-date methods of instruction and modern equipment provided at the school enable the student to obtain a most thorough and practical course. All papers connected with the Correspondence Course are promptly corrected in New Zealand.

Day and night classes for Professional Certificates, Correspondence Classes for Professional Certificates.

Write for Particulars to Department A.

JOHNSON'S WIRELESS

JOHNSON'S WIRELESS & RADIO SCHOOL, St. George Buildings, 8-10 Brandon Street, Wellington,



Address Nom de plume To be kept in subsequent inquiries. Please Note:-(1) Be specific and brief, tabulating, if possible.
(2) Write legibly, and on one side of the paper. 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 in adequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

effect whatever.

A: Do you mean that the set will not A.: Do you mean that the set will not oscillate when that condenser is taken out of the circuit? If so try a few more turns on the reaction coil, and if possible change your crystal. The trouble, however, seems to be in the condenser, as it is very critical. As remarked in the article you need a very small capacity, and this is difficult to obtain.

3. Would it be possible to describe at some later date an r.f. stage for this receiver?

A.: We will not promise to bring out the extra valve, as, after all, the set is only an experimental one. You could use the hook-up with an ordinary r.f. circuit, such as that to be described for the "Ranger Three."

going better without it your set is not long one and we refer you to the "Radio rect. The first radio A609, 2nd Cossor taking harm.

12. The stations on the lower wavelength came in when the tuning condenser in deciding that axis AB must make a 201A, second audio in deciding that axis AB must make a 201A.

was at its maximum capacity and vice tangent to the circle, particularly near versa on the higher wavelengths, while the centre of the record. Shorten your second we cannot say because you have the reaction condenser seemed to have no effect whatever.

A . Do you man that the set will not your greatly. you greatly.

COUNTERPOISE (Feilding).-Which

ounterprofise (Feilding).—Which is the most economical method of running the "Night Hawk" Two, dry batteries or accumulators?

A: That would depend upon the valver. If you use the .06 filament consumption type, then the dry batteries are the better. It is advisable to make a bank in series-parallel.

2. How long would the dry batteries last, using a 230 type valve?

A.: That we cannot answer for you.

Probably three months or more, depending upon the length of time you use it.
3. Is the set an efficient one-valve set on

shortwave? A.: Yet, it is quite efficient.

P.W.F. (Christchurch): The subject L.P.H. (Dunedin): I have recently of pick-up adjustment is a rather would like to know if my valves are cor-

rect. The first radio A609, 2nd Cossor vale, 3rd R.C.A. 201A, the detector, a Cossor, first audio 201A, second audio

are about half a dozen of them. The third one is correct, but with the detector again we cannot help you. It should be either a 201A or a 221. The first audio is correct, the second audio should be a power valve of the 605 type. You will find that best results will be obtained by using R.C.A.'s 221 in all stages except the last, where you use a B603 type valve biased with about 15 volts—that is if you are using 90 to 100 volts on the plate.

2. What are the capabilities of the set, and is it a good one for DX competition?

A.: The set is quite a standard model and will give you good results. You should be able to collect quite a good log for the DX competition.

NEGATIVE (Canterbury): I have just renewed my valves with 201A's, but the "A" battery which used to last five to last five this the weeks now lasts 10 days. Is this the fault of the valves?

fault of the valves?

A.: You are putting a tremendous load upon it. Still, if your accumulator is good, it should last far longer than 10 days. Better send it to your battery house and ask them to test it for you.

2. Is my aerial, 55 feet by 20 feet passing partly over a roof, better than one, 20 feet by 18 feet?

A.: Ever so much depends upon the situation of the latter; probably there will be little difference.

T. (Luston): I have decided to build an eliminator. Could a vibrator battery charger be employed in a battery eliminator?

A.: You could use the transformer and the type of rectifier is dependent about whether it is full or half-wave rectification. If it is a full-wave type, you can employ the 280 type valve, or for halfwave, a 280 type with the plate and grid connected together. You can compute voltage, etc., knowing the output of the various terminals, which are generally tappings of the main secondary coil. You will use the maximum voltage by taking out any resistances that are in the vibrator charger, and connect this in the approved full-wave style, or half-wave, as the case may be. For the "A" battery eliminator we suggest 1010 rectifier.

2. I take it I will require another wind-

ing for the filament?

A.: Yes, although you could use the Raytheen type of valve which does not have a filament. It is a full-wave rectifier, and unless you have a centre tapping in your transformer, you cannot use it You can put on a filament winding quite easily, only an a.c. voltmeter would be needed to measure the output. You will have difficulty in computing the number of turns per volt without dismantling your transformer.

TWIN (Auckland): I am intending to make a full-wave crystal set. Could you please supply me with a diagram or let me know where I could obtain one?

A.: A diagram was published in these columns a week or so ago, and you could find full information in the 1929 "Radio Guide."

LISTENER-IN (Alfredton): Would battery, through being carried at the back of a

battery. These are more robust, and are better suited for the rough treatment.

2. I find my "B" batteries run down

biased valves. Check up grid bias, and if this is correct, shut off the "A" supply from your battery. Now take off "B—" and flick it against the terminal. See if there is a spark, and if there is you have a short-circuit somewhere in the set. You must take it down and pull out the offending part. If your set is as old as you say, you may be sure that it is a brokendown by-pass condenser. Sometimes dust between the moving and fixed vanes of the condenser will cause a battery to run condenser will cause a battery to run down, but this would cause a certain amount of crackling when you are tuning your set.

T M.C. (Taranaki): Where could I obtain a circuit for my five-valve "Natela" battery set?

A.: The Natela Radio Company, Leinster Chambers, Grey Street, Wellington.

T C. (Auckland): Sorry, O.M., but we do not happen to have either of those two issues. If we can locate them for you, however, we shall send them

W B.L. (Auckland): I have built the "Night Hawk Two," adding a stage of audio and a.f. amplification. The tuning is very broad. How can I sharpen it? A.: You will find that the tuning on any set, such as this, will be extremely broad. Your only hope of sharpening it

up is by the use of a wavetrap.

ECONOMIC Three (Gisborne): I was greatly disappointed with the "Kestrel Three," for I thought it would be an ordinary r.f. in the first stage. However, at some later date I hope you will oblige with a description of the ordinary trieds reference.

oblige with a description of the ordinary triode r.f. stage.

A.: The triode r.f. stage is quite out of date. Not only is it less sensitive than the screen grid valve, but there is the difficulty of neutralisation. However, we shall in the page through the description. shall, in the near future, be describing a three-valve set with one stage of balanced r.f., and this should meet with your approval.

RADIO (Tokomaru Bay): What capa-Ocity of fixed variable condenser would I require when building a wavetrap to separate 2ZW and 1ZR?

A.: You should use two formodensers, as you will need a very nice adjustment of capacity.

DX23W (Masterton): I operate a fivevalve commercial set, but the two original transformers have burnt out. What make do you advise for replacement?

A.: We cannot undertake to recommend any definite make. Your best plan would be to use one of the better-known types. Ask any reliable dealer.

A.A. (Kilinshy): I am intending to alter my grid leak detector circuit to power grid detection followed by r.c.c. amplification, but have not sufficient conidence to make it up from from the sketch on page 38 of the "Radio Guide." Will you kindly mark the alteration to the accompanying sketch.

A: In the first place, we do not advise you to interfere with your present set. Changing over a commercial set is always a difficult proposition. Secondly. we do not undertake to answer queries such as this. In any case, it was a postal one, and should have been accompanied

service car for over 30 miles, harm the battery?

A.: It is quite possible. If the road were rough the plates would become damaged. Your best plan in a case like this is to use a car battery, not a radio battery. These are more robust, and see better suited for the content of the robust of the content of the rheostat are earthed. How can I overcome this?

A.: By regarding the content of the content of the resulted for the content of the resulted for the content of th

A.: By regarding the aluminium panel as a negative. The moving vanes of the r.f. three and differential condensers 2. I find my "B" batteries run down very quickly.

A.: This is possibly due to a brokendown by-pass condenser, aged valves, a short circuit somewhere in the set, unleast the moving vane and leave the wiring as it is at present, other-



MODEL 63 LYRATONE

SUPERHETERODYNE

TONE, SELECTIVITY. SENSITIVITY.

Now Available in N.Z.

Try the rest, then try the best.

Wholesale:

Retail:

CRAWFORD & FINLAYSON LTD.

F. J. W. FEAR & CO., STREET, WELLINGTON.



N.Z.'S OWN RADIO BOOKSHOP

THE TE ARO BOOK DEPOT, WELLINGTON.

New stocks every overseas mail.

"Radio Manual," latest printing. Sterling "Radio Amateur Handbook" (Handy's) and Kruse, 26/-.
"Modern Sets, 1931" (2-3-4-Valve Battery and A.C. Sets, L-W Amplifier and special S.-W. Set, 1/8 (N.Z. conditions).
"Radio Physics Course," by Ghirardi, 14/8.
"Radio Log of Amateur Stations," 2/-.
"Radio Log" (N.Z. Conditions).
"Radio A. Straft of Flight Paris 1931."
"Radio Log" (N.Z. Conditions).
"Radio Log" (N.Z. Conditions).
"Radio Log" (N.Z. Conditions).

"Radio: A Study of First Principles," by

Burns, 13/2.

"Practical Radio (Rider). 6/6. Testing Systems"

(Rider). 6/6.

1001 Radio Questions and Answers, 1930, "Radio News," 2/9. D.C. to A.C., etc. "Cameron's Sound Motion Pictures Encyclopedia," 18/6.

"Wireless: The Magic Carpet," 5/-. (Technical Editor "Radio Record" says no set owner should be without it.)

"Practical Radio Repairing Hints," by Rider, 18/- (Don't miss it.)

"101 Hook-ups" ("Radio News" Staff). 2/6.

"Mathematics of Radio," by Rider, 11/2. Practical Radio Testing Systems (Rider).

"Radio Log" (N.Z. monthly), 7d, per

"Radio Log" (N.Z. Homes,),
copy.
"Theory of Radio Communication," by
Filgate, 12/-.
"Principles of Radio Communication." by
Morecroft, 41/6.
"Elements of Radio Communication," by
Morecroft, 19/-.
"Direction Finding," by Keen, 27/-.
"Radio Engineering" (a monthly issue)
21/- per annum.
"Radio Record" D.X. Forms, 1/8 two doz.
posted.

Padio Time-table for New Zealand, and

Posted.

Radio Time-table for New Zealand, and
List, etc., of World Stations heard in
New Zealand, 5d. D.X. Clock, 10d.

PRICES QUOTED INCLUDE POSTAGE, WRITE US NOW.

ARO BOOK DEPOT

04 COURTENAY PLACE, WELLINGTON.

wise you would have to redesign the set

completely.

2. Will you be publishing an a.c. version of the "Kestrel Three" in the near

A.: We cannot make any promises, but we hope to be able to do so.

"TRURO" (Auckland): I have a threevalve s.g. battery set, and have picked up 20 New Zealand stations and 17 Australians, but I cannot separate the stations that come in on the lower part of the dial. Could the set be made more selective.

A.: First try the effect of a .0003 variable condenser in the aerial lead, or better than this a formodenser, which is semi-variable. Next try a wavetrap.

2. When my wavetrap is on I find dis-

tant stations come in with greater vol-ume. How is that?

A.: Because you are tuning the aerial.

This sometimes happens.

3. Would it be possible to increase the length of the aerial?—Yes, but you may interfere with selectivity.

4. Is it possible to attach headphones

to the set for short-wave stations that are coming through weakly on the speaker?
A.: Yes, see the article in last week's

constructional columns.

5. Short-wave coils on the set are from 24-90 metres. Is there anything of interest outside this band?

A.: There are a few stations below it, but nothing worth worrying about.

6. Short-wave stations are listed in metres. How can I find the approximate position on my dial?

A. Sae the reals to Y.C. (2)

A.: See the reply to N.C. (Masterton) last week.
7. Is the DX Club for short-wavers or

broadcasters?
A.: For both, although the DX Club primarily caters for broadcast listeners and the Short-wave Club for short-wavers. Still, there is a considerable amount of overlap in both clubs.

Super-Heterodyne Coils

Several correspondents have asked for coil data for the a.c. screen-grid super-heterodyne convertor described in the 1931 "Radio Guide." We give them herewith:-

Band.	L	I.1	Γ_3	Γ_3	. L4
80-meter	7 (30)	37 (80)	30 (30)	20 (30)	5 (30)
40-meter		16 (24)	13 (24)	10 (80)	3 (30)
20-meter		7 (24)	6 (24)	6 (30)	2 (30)
10-meter		3 (22)	$2\frac{1}{2}^{(22)}$	3 (28)	1 (28)

The wire gauges are given in small figures, and it is assumed that coils of the same diameter as valve bases will be used. The windings will be approximately correct whether the coil covering is cotton or silk. The 10-meter coil should be spaced in between turns. All coils have about ain, between windings.

8. What are the qualifications needed before one can become a transmitter?

A.: Briefly they must understand the fundamentals of electricity and radio, and pass an examination set by the Govern-ment. They must know the Morse code and the laws pertaining to amateur trans-mitters. They must show the examiners that they have a thorough understanding of transmitters as applied to amateur radio transmitting.

9. Is transmitting an expensive hobby?
A.: Fairly, though a "ham" makes A.: Fairly, though a "ham" makes most of his own gear and for this reason it is not outrageously expensive. It is certainly a very interesting and instructive hobby.

C.D. (Auckland): Your query is really outside the scope of Questions and Answers. We do not undertake to design amplifiers or sets. You can work out the value of the main chain of resistances in the Loftin White Amplifier in this fashion. You know the current passad by the relieve and the relieve of the r ed by the valves and this will of course, pass through the main chain of resistances. You know the voltage that the

valve requires to operate it at maximum, and that a further 200 volts is necessary and that a further 200 voits is necessary to provide bias and the plate voltage for the detector. That means a total of approximately 450 volts to work on, and subtracting the 250 from this (as this is dropped through the valve itself), we find that 200 volts are left. Now if these 200 volts are left. 200 volts are dropped through the resistances comprising the main chain of resistances and the plate current, taken by the valves represents the amount of current flow, you can easily find out the number flow, you can easily find out the number of ohms the resistances must contain. So that R5, 6 and 7 can easily be arrived at. The bias also can be worked out, but this is a little more complicated, and the best plan is to try different grid leaks until you happen across the right one. The other resistances should be about right.

2. What output transformer will 1 need to match my American Ferrand Green Spot inductor dynamic?

A.: Because the people who made the talkies know more about radio and scratch filters than the people who make the home-built apparatus. A commercial product always attains a higher standard than amateur built, for the simple reason that they have more resources to draw

JWAAC (Christehurch): Can the "Sparrow Hawk" differential adapter be used for an a.c. set?

be used for an a.c. set?

A.: Yes, if you build up the one shown on page 11.1 of the 1931 "Guide," it will be satisfactory. However, for an a.c. set why not use the super heterodyne type also described in the "Guide"? If you use the ordinary type of adapter you plug in to the detector socket, but, of course, you must insulate the socket from the adapter as shown on the same page of the "Radio Guide."

G. B. BOY (Dunedin): We think there would be very little difference in the two makes of valve you mention. Certainly not worth making any changes if the valves have not lost their emission. If you wish to use Radiotron valves, use the new 221 type in preference to 201A.

F.J.D. (Albury): I have a recharge-able "B" battery which is about 3 years old and seems to be losing its capacity for holding its charge. What is the cause?

is the cause?

A: The age of the battery. When an accumulator is three years old it is time it was discarded. However, if it is taken down, all the electrolyte drained off and refilled with sulphuric acid of the correct density (1.250) it may possibly hold out a little while longer. If you are anywhere near a battery-charging depot or a garage with a capable electrician, we advise you to take it along to them. If you do attempt to take down the battery yourself, see that you A.:1 to 1.

3. I find that no home-made scratch electrician, we advise you to take it along filter can approach the one used in the to them. If you do attempt to take talkie theatree when playing records. Why down the battery yourself, see that you (Concluded on page 28.)

The world's greatest RADIO BOOK answers every question!

Your Last Chance to get Free Inspection --- this will not be offered again during 1931.

The New 1931 Edition of DRAKE'S RADIO CYCLOPEDIA Solves all Problems

you design, build, rebuild, repair or use service radio receivers of any kind, this book will prove of great value. All subjects, from "A-Battery" to "Zero Beat" are alphabetically arranged and clearly explained, with hundreds of cross references, 1672 headings, 985 illustrations, diagrams, etc., and 240 combinations of receiver layouts. All arranged so you can quickly find what you want. Every recent development fully covered.

FREE Inspection and EASY TERMS

Clip, Sign and Post the Coupon NOW!

Examine the Cyclopedia for five days, free of cost, and without obligation to purchase. Use the Coupon herewith. If you are thoroughly satisfied with the Cyclopedia, keep it and pay Easy Terms or Cash, whichever you prefer. If you return the Cyclopedia, there the matter will end. The first shipment of the 1931 Edition was completely sold out two weeks after arrival. Send the Coupon now if

you would not be disappointed.

There are 200 additional pages of new information, including Television, which you get by ordering NOW.

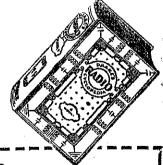
you get by ordering NOW.

This is the last occasion during 1981 that you are offered free inspection for five days before deciding to purchase. SEND THE COUPON AT ONCE.

The Last word in Radio

Radio is an exact science. There is right and a best way for everything. But it is so new there is still much that is incorrect and unscientific in radio. The results are faulty reception, complaints and service problems.

You can now be the man who knows! To meet this need we have compiled the exact facts covering every type of receiver and the entire scope of radio into a fine, big, new book.



To	JAMES	JOHNSTON,	LIMITED,		
	Publis				

217 Princes Street, DUNEDIN.

Please send, from the next shipment, a copy of the 1931 Drake's Radio Cyclopedia for five days' free inspection. If I keep it I shall send 10/- each month for four months or full cash, 37/6, within one month of delivery. Postage extra.

Name	 · · · · · · · · · · · · · · · ·
Address	
•	· R A

Diagnosis of Radio



EFORE commencing the subject of this week's "Diagnosis," the writer wishes to try at least to clear away a diffiand condensers, and says be volts.

can now trace the path of the current through his set until it reaches the audio transformer, where he is "stumped." The audio transformer is merely a form of audio choke, and consequent-Iv cannot pass the a.f. current-but how does it energise the secondary if it cannot pass it?

The phenomenon is more or less explained by the notes on the transformer appearing this week. The audio frequency current is absorbed in the primary of the transformer (really an audio choke). Instead of being dissipated, the a.f. current excites similar vibrations in the secondary of the transformer and a transfer of energy takes place. The primary will not pass the audio frequency, but absorbs it rather than blocking it.

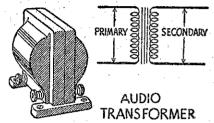
Transformers

A TRANSFORMER is a device for transforming energy from one cir-cuit to another without directly coupling them.

That means that if we have two coils the other, and arranged so that they can in nowise touch and apply alternatpicked up in the other. Now that sounds wonderful, but it is the basis of all radio; but current must be alternating before a transformer can be five. of any use, thus we cannot put a transa circuit containing a.c. current. We are in will take, for instance, the a.c. mains. formers. If we put a transformer between the

By the Technical Editor

culty that is facing one cor- volt main, and we had one turn connect tector. So that we find iron-core transrespondent. He has read the to it, and another turn nearby, we formers used in all a.c. work except previous articles on chokes would get from that second turn 230 where there is h.f. current. As we is get double that, or 460. Of course least two windings on a transformer other points enter into transformer one connected with the first circuit from construction, so that really we could which the energy is to be transferred not actually do this, but the principle and the other one connected to the sec holds.



We shall come back to that point when we know a little more about the transformer.

But we need not use the electric mains for transformers. We can use them in a wireless set. You will remember that current that comes from a wireless station is alternating, and if it is alternating, transformers can be used in the circuit associated with that current. These can be more simple than of wire close together, one connected the transformer connected with our with one circuit and one connected with mains, and if we wind a coil of, say, 10 turns on one former and put it near 50 on another former and connect the ing current to one, the impulse will be smaller to one circuit and the larger to another, we would find that that trans former not only transfers the energy but actually magnifies the signal by

If two coils are arranged in this manformer between our batteries and the ner, they are spoken of as r.f. transformset and expect the current to be trans- ers. If you look back to a recent week's ferred. A rather remarkable thing "Radio Record" you will see a three happens when we put a transformer in and two-coll tuner illustrated. These We are in reality radio frequency trans-

If we put iron in the core the mazmains and our set, that transformer netic coupling is strengthened, but we will alter the voltage, and the voltage cannot use iron where very high pul-will be determined by the number of salting current is used. Therefore ironturns on the coil. If we have a 230- cored transformers must follow the de-

where there is h.f. current. As we te-If we had two turns we would marked before, there are always at least two windings on a transformer. and the other one connected to the sec ond circuit to which the energy is to be transferred.

We speak of the first coil as the primary coil and the second as the secondary. If we wish to step up the value of the current we use a step-up transformer, in which the number of secondary turns is greater than the number of primary turns.

If we wish to step it down we use a step-down transformer, with a secondary smaller than the primary.

Here are some examples: We put a transformer in between the mains and our radio set. There are usually several secondaries. One is used to de-

POWER TRANSFORMER

liver the high voltage to the rectifier. This in many cases is higher than the a.c. mains voltage so that that part of the transformer is a step up. we will probably want several lower voltage windings for, say, the filaments and these then are made smaller than the primary, the exact number depending upon the transformer.

Do not think, however, that because higher voltage can be taken out we can get more power than we put in. Far from it. If we take out the current at a high pressure or voltage we must be prepared to take out less of it or fewer amperes. We cannot take out any more than we put in.

An auto transformer is one which has one winding and the primary circuit is connected to part of the main winding. We see auto transformers in the Browning Drake for example, and sometimes a crystal set, where there is only one coil and the aerial is tapped in at a certain point. Here are some facts about the transformers in your radio set.

1. Keep the ratio low; 3-1 is ample where you have two audio transformers. If you use a high ratio transformer and then follow it by another stage you will get not only distortion but frequently hum and audio oscilla-

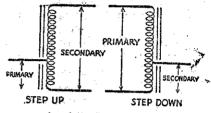
2. Keep the cores, that is, the metal parts, at right angles to one another. When cores are parallel or approaching parallel, hum will very frequently If you are not wise to it, it will be very hard to track out.

3. If you have two transformers, one better than the other, it is usually advisable in a valve set to put the best transformer first, but in a crystal set, strangely enough, it should be put last.

4. If troubled with motor-boating and audio oscillation, try reversing the connections to one of the transformer

primaries.

5. With regard to small transform. ers with special steel cores, remember that although the cores can be made



An Auto Transformer.

of very highly magnetised steel, this has no effect upon the wires and they are just as prone to burn out if the small gauge wire is used as any other transformer. Do not try to pass more current through the primary of your transformer than it is designed to take.

6. A broken-down transformer can

always be picked out by a strange crackling noise that can be heard in the speaker.

7. The usual connections for an audio transformer are the primary to the plate of the valve and the "B" bat-tery positive, the secondary to grid and the grid bias.

Mary Control of the C

REGRET

That your Radio is becoming out of date. will not be yours if vou choose an—

SHORTWAVE and BROADCA RECEIVER

British Construction

For it is a year ahead of any other Receiver!

There is an "Ultimate" Distributor in every part of New Zealand. If any difficulty in securing information or demonstration, communicate with-

Factory Representatives:

Manager Manager and Manager and Manager and Company

C.P.O. Box 1778

AUCKLAND.

BRITISH MADE RADIO PARTS NEW LINES JUST ARRIVED EX S.S. "RANGITANE."

Burndept Slow Motion Dials eac	dι 9/6
Sovereign Potentiometers 50,000; 100,000 and 500,000 ohm, totall	y .
enclosed, improved contacts, a real good job eac	h 7/6
Ormond New Type Vernier, 3-inch Dials eac	h 4/-
Pyrex Glass Insulator, Genuine Pyrex eac	h 1/6
Bulgin Porcelain Gridleak Holders eac	h 1/-
Bulgin 8-80 Meter Short Wave Choke eac	h 4/6
Moulded Single Fuse Holders (Bulgin) eac	b 1/-
Bulgin Monided Gridlesk Holders	h 1/_
Balgin 230-Volt. A.C. Radio Toggle Switch eac	h 2/6
buigh Rotary Radio Gram Switches eac	h 3/-
Buigin Fiusa Signal Lamps	lı 4./~
Bulgin Spaghetti Resistances, all values, from 600 chms to 100,00	0
ohms, prices	h 1/- to 4/-
Bulgin S.C.F.C. Jacks encl	h 2/6
Wearite Delayed Action Switches eac	h 6/-
Wearite Potentiometers, all values eac	h 5/-
Wearite Gridleak Mounts, small and neat eac	ત કતા.
Wearite Rheostats, 30 and 50 ohmsenel	h 2/6
Lotus .0005 and .00035 Condensers	h 7/6
Lotus Differential Condensers, all values cael	h 8/-
Send for our Catalogue—just printed.	
Also Particulars of the "SUPER" 60 SUPERHETERODY	INE.

F. J. W. FEAR & CO.

WILLIS STREET

"FEAR"

WELLINGTON

The Screen Grid Valve

How Immense Amplifications Can be Obtained



ERY few developments in enormously radio were greeted with screen such enthusiasm as that of anode

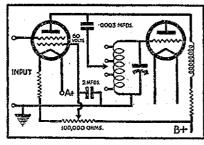
proved tremendously.

In a nutshell, it has simplified and chormously increased the amplifying power of the radio frequency amplifier. In the early days of broadcasting attempts were made to amplify the high frequency using the ordinary three electrode valve with the result that un-controllable self-oscillation became apparent before there was a perceptible increase in signal strength. For this reason r.f. amplification of short-wave is almost impossible.

This uncontrollable oscillation was due to the internal capacity of the valve and methods were sought by which it could be balanced out. The most familiar one of these is the Hazledean neutrodyne circuit, which feeds some of the h.f. energy into another portion of the circuit to balance out that existing between the other parts. This was fairly successful, but the valve capacity his by no means a pure capacity, and cannot be balanced out by a neutralising condenser except at one specific wave-length. As it was impossible to keep reneutralising the set for every wave-length, certain compromises and losses had to be incurred. The screengrid valve appeared just at a stage when radio had come to a stop owing to this difficulty of balancing out unwanted h.f.

THE screen-grid valve is like an ordinary triode; but between the grid and the plate another grid was placed, and this connected with earth. This did away with stray capacity within the valve. It was found, however, that

increased. Since the fine of. texture the plate will be or able the screen-grid valve, for it to take current from it only and not but the a.c. valves require at least 1.5 was thought that it would to produce any extra current itself, but volts. solve all troubles which be should the screen voltage rise above set the ambitious set de that of the plate, the screen will rob signer. Probably for that it of the secondary electrons which will reason the screen-grid valve incurred always be found around an electrode more criticism than it deserved. In which is being bombarded in a manthe short period during which this ner such as is the plate. It had been valve has been available it has imfound that best results can be obtained found that best results can be obtained only by keeping the plate or anode voltage at least twice that of the screen



voltage, otherwise there is a danger of self-oscillation.

Stage Gain.

THE first commercial screen grid valve had an inter-electrode capaclty of .05/.1 mfds., this being sufficiently large to prevent any stage gain greater than that of a well-designed neutralised triode, but now the residual capacities are down to the remarkably low values of .003 and .002 mfds.

With the latest types of valves it is possible to obtain a stage gain of over 200 with quite modest components, provided the external screening of the coils and components generally is carried out with meticulous care. Considerably greater amplification is possible per stage and ganging is made perfectly simple with the use of this It does away with the need valve. for regeneration which is not only a dangerous plaything in the hands of voltages could be applied to this and amateurs but also necessitates the use the amplification of the valve was of multiple dials

valve the control grid should be biased negatively by no more than .9 volts, With the battery valves, the most convenient method of obtaining the .9 is to insert a resistance in the filament return in order to raise its potential above that of the grid,

This method of obtaining bias applied to the a.c. screen grid valve, but the resistance is placed in series with the cathode. The plate voltage of a screen grid valve is not at all critical, but the screen voltage on the other hand is rather critical and incidentally controls the plate current far more than the plate potential.

The impedance amplification, therefore the mutual conductance of a screen grid valve is so profoundly modified by the screen-grid voltage that it is impossible to quote these constants unless the exact operating conditions are known. Stage gain depends in the case of tuned-grid tuned-anode coupling upon the relation between the internal and external impedance. Also there will be only one screen grid voltage giving maximum amplification. In the case of poor coils the valves have to supply more power to compensate for the loss of the tuned circuit. Generally the higher the impedance of the valve the more curved are its characteristics.

Cross Modulation.

DUE to these non-linear characteristics it is possible as a result of the curvature referred to for the signal voltage of an unwanted station to be rectified and for low-frequency impulses to modulate the carriers of the unwanted station, so that the two sta-

With the direct current screen-grid tions are heard together, although the selectivity of the tuned circuit is ample to separate the stations in the ordinary way. To overcome this the use of a pre-selector or band pass input circuit is resorted to—in fact, many varieties of input filters have been used. Another method entails the use of an h.f. volume control, which may take the form of a potentiometer in the aerial circuit ganged to a second volume control arranged to adjust the voltage of the screening grid of the first h.f. valve.

On no account should the volume of a loud signal be reduced by altering the screen bias volts unless the signal input is decreased at the same

Generally the better the coil the worse the cross modulation is likely to be. Experimenters will find that tapping the anode into the succeeding coil will have the effect of throwing the anode screen capacity on to a portion only of the tuned circuit, and this will reduce cross modulation to a very large extent.

When working with a large bias modulation hum is often heard in the shape of mains valves, but probably the most effective way to overcome the difficulty is by the use of the new multimu valves, a description of which was recently published.

The latest screen grid valves employ metal coverings to eliminate separate shielding of the valve. This shield is connected internally to the cathode in A.C. valves and to one of the filament pins (suitably marked) in battery The earth shield so formed valves. avoids the necessity of using a separate cylindrical valve screen and assists in minimising hum and stray coupling

A Successful Constructor

Youthful Radio Enthusiast

WESLEY CHISHOLM is probably one of the most successful young radio constructors in the Dominion, and the indications are that if he continues at his present rate of progress he will one day be a competent radio technician. Although fifteen years old, he has won eight prizes, including a five-valve rein four years. Many ceiving set will recollect readers that Wesley Chisholm who carried off the two junior class prizes at the Wellington Radio Exhibition in 1929. Since that time he has won a prize at the technical school and a first and second at the Y.M.C.A. hobbies exhibition. His latest success is at the Salvation Army Exhibition held a month ago, where he secured first place with his short wave set and first for a crystal set. The judge remarked that the work was the very highest possible, and said that he had seen the work of experts below the standard reached by the exhibitor. "He has a great future," remarked the judge.

Queen Alexandra's Own Band

Concert Relayed by 2YA

THE second honorary members' concert of the 1931 season will be relayed by 2YA from the Grand Opera House, Wanganui, on Tuesday evening, August 25. The concert will be one of outstanding merit. The Queen Alexandra's Own Band are in great form and will be heard to great advantage under the direction of Mr. Ernest Webb. who is the youngest A grade band conductor of the Dominion.

This combination has won fame for Wanganui in the contest field, and has brought to the City of Wanganui more than once the Dominion championship Shield, an achievement that no other Wanganui band has yet accomplished.

Their contest work during the past 20 years stands out with great credit to the members of the band, and the present form of the band argues well for its future success.

ILLUSTRATE Your Goods and SELL Them

Those who buy for the home, tarm, office or factory have one thing in common. They usually buy the things that look best for the price. Whether their buying is influenced by newspaper advertisement or catalogue they purchase the goods pictured and described to the best advantage,

Your product can be successfully pictured if you use "Dominion" illustration blocks. Made by craftsmen who know how to produce the best results for every class of printing, they give unusual satisfaction. Let us help you with your illustration problems.

"The Bominion" Process Engraving Dept. WELLINGTON Day and Night Service



FEATURE PEEPS

. . . at . .

FUTURE PROGRAMMES

SUNDAY

Notes from 1YA

THE afternoon programme will include the relay of portion of the organ recital to be given in the Town Hall by Mr. Maughan Barnett, city organist. At 7 p.m. the divine service to be conducted in the Baptist Tabernacle by Rev. Joseph Kemp will be broadcast. Mr. Arthur E. Wilson will be organist and choirmaster. The relay of a concert to be given by the Puccini Society, under the direction of Signor A. T. Constantini, will follow.

Wellington Topics

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

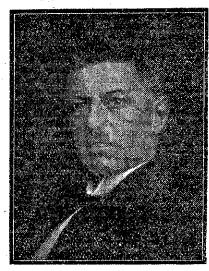
Items from 3YA

THE REV. J. LAWSON ROBINSON will be the preacher in St. Andrew's Presbyterian Church, when the service will be broadcast. Mr. R. E. Lake will be the organist and Mr. J. Maclean the choir conductor. 4XA's studio concert will later be relayed.

Dunedin Features

THE service in Trinity Methodist
Church, Dunedin, will be relayed, the Rev. H. E. Bellhouse being
the preacher, with Mr. James Simpson as choirmaster. 'The studio com-

cert which will follow will be relayed also to 3YA. The vocal portion of the programme will be provided by John T. Leech and his Minesingers, featuring "Maritana." The principal solos and choruses of this popular opera will be sung.



"UNCLE JACK,"

a popular 3VA uncle, who has returned to the microphone after a long absence.

—Steffano Webb Photo.

MONDAY

1YA on the Air

A RINGSIDE description of the Kara Pasha v. Scotty McDougall wrestling match will be broadcast.

Features from 2YA

THE morning talks will be: At 11-12, Miss Christian, on "Cooking"; at 11.37, a representative of the Red Cross Society will deliver an instructional talk.

The weekly "Musical Portrait" series will be continued to-night, when some charming works by Grieg, the famous Norwegian composer, will be presented by Mrs. Amy Woodward (soprano), Mrs. Wilfred Andrews (contraito), Gordon Short (plano), and the Orchestrina.

On the supporting programme, Ernest Glading, a favourite baritone, will be heard in several numbers, including Schubert's fanciful song "The Wraith" and "The Carpet," by Sanderson..

3YA Notes

ONE of the series of dialogues on "The Story of the Garden," by Messrs. Wiltshire and Fairclough, will be broadcast.

The concert programme will comprise a concert by Kaiapoi artists. A particularly fine programme has been arranged. The town possesses an excellent male voice choir, who perform under the experienced and able conductorship of George March.

The Kaiapoi Orchestra, another efficient combination, playing under the baton of Mr. Blakeley, will play several selections, while solo instrumentalists will include Marjorie Childs (pianiste) and W. R. Lintott, a very versatile entertainer, who will present xylophone solos.

During the evening the mayor of Kaiapoi, the Rev. W. H. A. Vickery, will speak on "Kaiapoi—Past and Present".

Notes from Dunedin

MR. JOHN BOWIE will give another of his very interesting talks on "Early Otago" from 4YA. The second series of the new International programmes will be broadcast by 4YA. The lecturer for the evening will be lecturer for the evening will be Otago Radio Society. His subject will be "Radio Broadcasting as a Factor in International Goodwill."

TUESDAY

From 1YA

AT 7.40 p.m., Mr. N. M. Richmond, B.A., under the auspices of the W.E.A., will give the second part of his talk, "Post-War Germany." The speaker on the international programme at 1YA will be Mr. A. B. Campbell, M.A., who has chosen for his subject "Making Peace on the Sea."

Featurettes

Maritana

4YA, Sunday.

Greig
2YA, Monday.

Kaiapoi Programme 3YA, Monday.

Queen Alexandra's Band 2YA, Tuesday.

Christchurch Orchestral Society 3YA, Wednesday.

Returned Soldiers' Association 4YA, Wednesday.

Piano Students' Association 1YA, Thursday.

Competitions 2YA, Friday.

Martinelli-Riggiardo Concert 4YA, Friday.

Items from 2YA

A CONCERT by the Queen Alexandra Band will be broadcast on relay from Wanganui,

Dunedin Features

MR. LLOYD ROSS and W.E.A. students will discuss "Answers to Economic Questions."

The band of the 1st Battalion of the Otago Regiment, under the conductorship of Lieutenant Llew O. Asten, with the "Happy Four" presenting the vocal numbers, will provide the concert programme. The "Happy Four" made their debut on the occasion of the very popular "old-time" programme presented last month, and the personnel is composed of four singers well known to Dunedin concert-goers. This evening the "Happy Four" will present mixed quartets of an earlier period. Such numbers as "Kathleen Mavourneen," "McGregor's Gathering," and "Oh, Who Will O'er the Downs so Free," will be presented, in addition to several other tuneful numbers. Sydney Kershaw, baritone, whose voice at times rivals that of his brother. Wilfred Kershaw,



"UNCLE TOBY,"
well-known to 2YA listeners, who,
after three years' service, is resigning.
—S. P. Andrew, photo.

EVERY HAM NEEDS ONE

1

Only 14/6 Each

Postage 1/-

Just Arrived—new high-grade Electric Soldering Irons, 230 volts, English manufacture, sturdily built, well balanced and does not over heat.

An Electric Iron simplifies soldering and is much quicker, handier and more economical than the old fashion solder iron.

GET YOURS NOW

L. B. SCOTT LTD.

THE BIG RADIO STORE,

Manchester and Worcester Sts., Christchurch.

the brilliant basso, will appear in a solo number. G. Crawford will render the popular Scottish air, "Scotland the popular Yet." Miss S Yet." Miss Somerville will present "An Irish Lullaby" and "The Restless Sea"; Evelyn Shepard, who has won considerable local fame in her presentation of solos in oratorios and cantatas at church choir performances in the city, will sing Montague-Phillips's "Daffodils in London Town" and "Gretchen at the Spinning Wheel." E. Murphy, 4YA's popular mouth-organ artist, will render selections from popular marches and waitzes, whilst James Paterson, the ever-welcome Scottish humorist, will present three new humorous songs.

WEDNESDAY

Selections from 1YA

FROM 12.30 p.m. to 1.30 p.m. 1YA will relay the community singing from the Town Hall.

From 8 o'clock to 9 o'clock there will be a relay from the Auckland University College Hall of an address to be given by Professor H. Belshaw before the Commerce Students' Society, on "The Niemeyer Report." From 9 o'clock there will be a studio concert, the contributing artists including Myra Monk (the well-known soprano) and the Aubade Trio (appearing in violin solos, piano solos, and contralto solos with violin obilgati).

Wellington Features

AT 11.37 a.m. Miss Flora Cormack will give her weekly lecturette on "Hollywood Affairs." At 3.15 p.m. Miss Ruth Hay will speak on "Weakness of Women," and at 7.40 Mr. A. E. Wilson will give a talk on "Tourist the programme arranged will attain

Go for It!



MR. ERNEST WEBB, Conductor, Queen Alexandra's Own Band, relaying from 2YA on Tuesday, August 25.

and Health Resorts."

The second instalment of the new series of international programmes will be presented, Dr. Guy H. Scholefield being the lecturer.

Selections from Christchurch

FROM the Radiant Hall the Christchurch Orchestral Society's second concert of the 1931 season will be relayed.

This orchestra plays under the baton of Professor Oddone Savini, and

the same standard and will be as en-For the joyable as previous ones. occasion, Mr. Hubert Carter, the wellknown tenor, has been engaged, and his items will include "Ave Maria" (R. A. Horne), sung to violin obligate by Irene Morris and orchestral accompaniment.

From 4YA

A TALK by the Home Science Ex-tension Department of Otago University will be on "How to Run a Business Meeting." At 7.15 p.m., Mr. G. H. Holford, of Christchurch, will speak on "Farm Tractors." Both talks will be under the auspices of the 4YA Primary Productions Committee.

A concert to be given by the choir of the Returned Soldiers' Association in the Dunedin Town Hall will be broadcast.

John Leech will conduct, with Chas. A. Martin, Mus.Bach., at the piano. A very attractive programme has been arranged, including numerous choruses and part-songs. Soprano solos by Anne White will be introduced, and male voice soloists will be A. J. Parker, W. H. Satterthwaite, P. S. Anderson, J. Keenan, H. L. Paterson and P. F.

${f THURSDAY}$

Removal of Stains

THE home science talk from 1YA, 2YA, and 3YA will be on "The Removal of Stains."

Auckland Notes

TWO new artists who should make a welcome addition to 1YA artists

Items from Auckland

THE Auckland Piano Students' Association, a body of young enthusiasts, will provide the whole of

the studio concert from 1YA. Last year their concert was very much appreciated, particularly by lovers of good piano work.

There will be several piano duos and quartets, and of particular interest on the programme will be "The War-riors," by Percy Grainger, a number for two pianos played by three pianists,

Notes from Wellington

In the morning session a talk on cooking will be followed by a lecturette on "Malnutrition," by an officer of the Department of Health. At 3.15 Miss I. F. Meadows will give the talk arranged by the Home Science Extension Department of Otago University. At 7.40 Mr. Johannes Andersen, librarian at Turnbull Library, will give a lecturette on "Maori Folk Lore." On the programme for to-night several popular artists are scheduled to appear, and the indications are that the broadcast will be bright and varied.

Christchurch Numbers

THE lecturer for the international programme will be Mr. W. M. Hamilton, who will speak on "Mesopotamia To-day." Mr. Hamilton visited Iraq last year.

FRIDAY

Auckland Notes

will appear on the studio programme. They are Hawea Rees, an Auckland so-prano, and J. V. Burton, baritone. Two humorous sketches will be acted by (Concluded on page 30.)

Name

Address



Closing-August 29, 1931. Drawing-September 19, 1931.

Tickets obtainable from all Tobacconists, News Agents, and other Retailers, or use Coupon.

Full Programmes for Next

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

Sunday, August 23

1YA, AUCKLAND (875 KILOCYCLES—SUNDAY, AUGUST 23.

8.0 : Chimes. Selected recordings, and relay of portion of Organ Recital from the Town Hall, by the City Organist, Mr. Maughan Barnett.

6.0 : Children's Song Service, conducted by Uncle Leo,7.0 : Relay of Divine Service from the Baptist Tubernacle, Preacher: The Rev. Joseph Kemp. Organist and choirmaster: Mr. Arthur E. Wilson.

8.30: Relay of programme by the Puccini Society, under the direction of Signor A. T. Constantini,

Mottetto—The Choir, soloist Mrs. Menzies, soprano, "O Mario Salverza Nostra" (Capocci). Soprano—Miss R. Paterson, "O Divine Redeemer" (Gounod).

Tenor—Mr. T. Mitchell, "Agnus Dei" (Bizet). Baritone—Mr. Yates, "Gloria" (Pezzi). Mottetto—The Choir, soloist Miss E. Herbert, soprano, "Alma Redemptoris" (Schmitt).

Soprano with violin obbligato, Miss D. Jenkins, "Glory to Thee God, This Night" (Gounod).

Choral-The Choir, soloist Mr. V. Mulgan, "Benedictus" (Constantini). Mezzo-soprano-Miss Hinemoa Rosieur, with violin obbligato,

Maria" (adapted from the Meditation from "Thais") (Massenet).

Duet—Mr. G. Fagan and Signor Constantini, "Crucifixus" (Faure).

Choral, for soprano, tenor and bass—The Choir, "Osacrum Consivium,"

Choral for three mixed voices—The Choir: Soloists, Miss H. Rosieur,

Messrs. G. Fagan and S. Yates. Violinist, Miss I. Lockwood. Organist, Miss K. O'Leary. "Pontifical Mass" (Monsignor Lawrence Perosi, conductor of Sistine Chapel).

20.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, AUGUST 23.

: Afternoon session of Selected Gramophone Recordings.

6.0 : Children's Song Service, conducted by Uncle George, and assisted by the Children's Choir from St. Giles' Presbyterian Church (Lyall Bay Section).

7.0 : Relay of Evening Service from St. Thomas's Anglican Church. Preacher: Rev. C. V. Rooke. Organist and choirmaster: Mr. W. A. Gatheridge.

8.15 (approx.): Relay of Band Recital by the Wellington Municipal Tramways Band, from St. James' Theatre. (Conductor, Mr. E. Franklin). God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, AUGUST 23.

8.0 : Gramophone recital.

5.30: Children's Song Service.

6.15: Chimes from Studio.

6.30: Relay from St. Andrew's Presbyterian Church. Preacher: Rev. J. Lawson Robinson. Organist: Mr. R. E. Lake. Choir Conductor: Mr. J. Maclean.

7.50: Musical recordings. 8.15

(approx.): Relay of programme from 4XA, Dunedin.

. 10.0 : God save the King.

4YA, DUNEDIN (650 KILOOYCLES)—SUNDAY, AUGUST 23.

3.0 : Afternoon session.

5.30: Children's Song Service, conducted by Big Brother Bill,

6.15: Instrumental recordings.

6.30: Relay of Evening Service from Trinity Methodist Church, Dunedin. Preacher: Rev. H. E. Bellhouse. Choirmaster: Mr. James Simpson.

7.45: Selected recordings.

7.45: Selected recordings.
8.15: Studio programme. Vocal portion presented by Mr. John T. Leech and his Minnesingers, with Miss M. Caddie at the piano. Overture—Salon Octet, "Stradella" (Flotow).
8.21: Chorus with orchestra—The Minnesingers, "Sing, Pretty Maiden." Contralto with orchestra—Miss Helen E. Roy, "Alas, Those Chimes."
8.28: Suite—Salon Octet, "The Conqueror" (German).
8.40: Chorus with orchestra—The Minnesingers, "Pretty Gitana" (Wallace). Baritone with orchestra—L. Harrison Stubbs, "The Mariner and His Bark" (Wallace).
8.46: Suite for strings—Salon Octet "Suite for Strings and Bione"

8.46: Suite for strings-Salon Octet, "Suite for Strings and Plano."

8.57: Soprano and chorus with orchestra—Miss Noni Davidson and The Minnesingers. "Tis the Harp in the Air" (Wallace).

Weather report and station notices.

9.2 : Orchestra and chorus—Polydor Wind Orchestra, (a) "Stille der Nacht"; (b) "Lieb'ist's" (Kunze) (Poly. 23120).

9.8: Tenor—Mr. John Leech, with orchestral accompaniment, "Yes, Let Me Like a Soldier Fail" (Wallace).

Soprano—Miss Anne White, with orchestral accompaniment, "Scenes That Are Brightest" (Wallace).

9.18: Selection—Salon Octet, "Danse Macabre" (Saint-Saens).

9.18: Selection—Salon Octet, "Danse Macabre" (Saint-Saens).
9.21: Quartet with chorus and orchestra—Miss Anne White, Miss M. Kenward, Mr. J. Ferguson and Mr. T. D. White, "Health to the Lady."
9.25: Violin—Gustav Link, (a) "Swedish Airs" (Juon); (b) "Saltarella."
9.31: Baritone—Mr. W. Ruffell, with orchestral accompaniment, "There is a Flower That Bloometh" (Wallace).
9.34: Selection—Salon Octet, "Les Cloches de Corneville" (Planquette).
9.44: Chorus and trio with orchestra—The Minnesingers, with Mrs. W. Carsen and Messrs. T. White and James Simpson, (a) "The Angelus"; (b) "Turn On, Old Time" (Wallace).
9.49: Piano—Lilly Dymont, "The Juggler" (Toch) (Poly. 23577).
9.53: Duet and chorus with orchestra—Messrs. Ruffell and J. Simpson and

9.53: Duet and chorus with orchestra-Messrs. Ruffell and J. Simpson and the Minnesingers, (a) "I Am the King of Spain"; (b) "Oh, What

Pleasure" (Wallace). 2.59: Selection—Salon Octet, "The Dervish Entracte" (Marsden).

10.12: God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, AUGUST 23.

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

Monday August 24

1YA, AUCKLAND (875 KILOCYCLES)-MONDAY, AUGUST 24.

8.0 : Relay from Town Hall of a running description of wrestling between Kara Pasha and Scotty McDongall. God save the King.

'2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, AUGUST 24.

10.0 : Chimes. Selected recordings.

11.12: Lecturette—"Cooking." 11.37: Lecturette—"Health Hints or First Aid."

12.0 : Lunch hour music.

2.0 : Selected recordings.

3.30 and 4.30: Sporting results to hand.

3.30 and 4.30: Sporting results to hand.
5.0: Children's session, conducted by Uncle Jeff.
6.0: Dinner music session (H.M.V.)—
National Symphony Orchestra, "Irish Rhapsody" (Herbert).
National Military Band, "Ballet Egyptien" (Luigini) (Zono. A354).
Trio—Fritz and Hugo Kreisler, Michael Rauchausen, "Sanctissima."
New Light Symphony Orchestra, "Scene de Ballet Marionettes."
Organ—Reginald Foort, "The Riff Song" (Romberg) (B2468).
H.M. Coldstream Guards Band, "The Geisha" Selection (Jones).
La Scala Orchestra, "The Secret of Susanna" Overture (D1488).
International Novelty Quartet, "The Veleta" (Morris) (Zono. 558).
New Light Symphony Orchestra, "Persifiage" (Francis) (B2754).
Trio—Fritz and Hugo Kreisler, Michael Rauchausen, "Arlesienne Inte Trio-Fritz and Hugo Kreisler, Michael Rauchausen, "Arlesienne Inter-

mezzo" (Bizet—arr. Kreisler) (DB1166).

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

Organ—Reginald Foort, "The Desert Song" (Romberg) (B2463).

H.M. Coldstream Guards Band, "The Belle of New York" Selection International Novelty Quartet, "Merry Widow Waltz" (Lehar).

7.0 : News session, market reports and sports results.

80 : Chimes. Overture—Grand Symphony Orchestra, "Fra Diavolo."

8.8: Baritone—Mr. Ernest Glading, with orchestral accompaniment, (a)

"The Menin Gate" (Bowen); (b) "The Two Grenadiers" (Schumann); (c) "The Banjo Song" (Homer).

8.17: Piano—Mr. Gordon Short, "Ballade" (Grieg).

8.27: Soprano—Mrs. Amy Woodward, (a) "Good Morning," (b) "Hunting

S.27: Soprano—Mrs. Amy Woodward, (a) "Good Morning," (b) "Hunting Song" (Grieg).

S.32: Violin and plano—Rachmaninoff and Kreisler, "Sonata in C Minor" Second Movement) (Grieg) (H.M.V. DB1260).

S.40: Duet—Mrs. Amy Woodward and Mrs. Wilfred Andrews, "Hope."

S.44: Contrakto—Mrs. Wilfred Andrews, (a) "The Old Mother," (b) "Autumn Storms," (c) "I Love Thee" (Grieg).

8.50: Suite—2YA Orchestrina (Conductor, Signor A. P. Truda), "Peer Gynt Suite," No. 2 (Grieg), including "Solveig's Song" sung by Mrs. Amy Woodward.

9.0: Evening weather report and station notices.
9.2: Violin—Erica Morini, (a) "Verlassen" (Koschat); (b) "Danses Tziganes" (Nachez) (Poly. 69862).
9.10: Soprano—Mrs. Amy Woodward, (a) "To a Thrush at Evening," (b), "The Enchanted Forest" (Montague Phillips),

Week-all Stations-to Aug. 30

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

Duet-Mrs. Amy Woodward and Mrs. Wilfred Andrews, with orchestral accompaniment, "Beyond the Meadow Gate" (Montague Phillips).

9.18: Baritone-Mr. Ernest Glading, (a) "The Wraith" (Schubert); (b) "The Carpet" (Sanderson).

Carpet" (Sanderson).
9.24: Selection—2YA Orchestrina, "La Travlata" (Verdi).
9.34: Male choir—Erks Male Chorus, (a) "The Lindentree" (Schubert);
(b) "Wer Hat Dich du Schoner Wald" (Mendelssohn).
9.42: Contralto—Mrs. Wilfred Andrews, with orchestral accompaniment, (a)
"In the Deep Silence of the Night," (b) "I Dreamt that I was the
Wind," (c) "My Dreamland Rose" (Montague Phillips).
9.51: Viennese air—2YA Orchestrina, "Old Vienna" (Drdla); "Czardas."
10.0: Dance programme (Brunswick)—

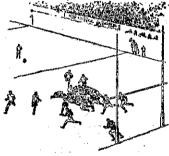
Foxtrots-Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "So Beats My Heart For You" (Henderson) (4830).
Roger Wolfe Kahn and His Orchestra, "Cheer Up" (Klages).
Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra,
"Singing a Song to the Stars" (Johnson) (4830).

"Singing a Song to the Stars" (Johnson) (4830),
Jack Denny and His Mount Royal Hotel Orchestra, "Girl
Trouble" (Fisher) (4789).

10.12: Waltz—Castlewood Marimba Band, "Old New England Moon" (Vance).
Foxtrots—Isham Jones's Orchestra, "Not a Cloud in the Sky" (Jones).
Jesse Stafford and His Palace Hotel Orchestra, "I Like to do
Things for You" (Yellen) (4822).

10.21: Vocal—Chester Gaylord, "When I'm Looking at You" (Grey) (4729).
10.24: Foxtrots—Ben Bernie and His Orchestra, "Black Hyes" (4725).
Jesse Stafford and His Palace Hotel Orchestra, "To-night,"
Ben Bernie and His Orchestra, "Sharing" (Davis) (4837).

STEWART-WARNER **RADIO**



When the weather is dull and your fireside is more attractive than the "Western Bank," what a thrill you get listening to the football match with a Stewart-Warner Radio. You get the first big wallop from the wonderful, life-like way in which your Stewart-Warner fills the room with the cheers and cries, the referee's whistle for the commencement of the

Then there's the second punch that comes anyou follow the teams out on the field—as you fight side by side with your team every minter they push back and forth, struggling for a touch down. You really attend the gume if you use a Stewart-Warner.

Talk to a Stewart-Warner owner who has tuned in on a big football match and he will tell you how keenly he en-

The Stewart-Warner set owner gets more enjoyment out of radio because the 'SUPERSENSTRIZING Principle afford the best means of giving real, life-than reception.

Don't deny yourself the joy of real radio entertainment any longer. There's a model at the showroom of your local dealer at a price to suit you.



KNOWN FAVOURABLY THROUGHOUT THE WORLD AND SOLD IN NEW ZEALAND BY A HUNDRED DEALERS.

Radio

Hope Gibbons Ly Division



AUCKLAND - CHRISTCHURCH - WELLINGTON

10.33: Waltzes—Castlewood Marimba Band, "If You Can't Have the Girl of Your Dreams" (Young) (4841).

Ben Bernie and His Orchestra, "The Kiss Waltz" (Dubin).

Foxtrots—Colonial Club Orchestra, "My Future Just Passed" (Marion)

Jack Denny and His Mount Royal Hotel Orchestra, "Leave it that Way" (Rice) (4789).

10.45: Vocal—Chester Gaylord, "Under a Texas Moon" (Perkins) (4729).

10.48: Foxtrots—Frank Sylvano and His Orchestra, "So Sweet" (Gillespie).

Hal Kemp and His Orchestra, "I Remember You From Somewhere" (Warren) (4805).

Frank Sylvano and His Orchestra, "After Sunday Afternoon"

Frank Sylvano and His Orchestra, "After Sunday Afternoon" Colonial Club Orchestra, "With My Guitar and You" (4845)

11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, AUGUST 24.

3.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's hour,

5.0 : Children's hour.
6.0 : Dinner music session (H.M.V.)—
Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of
Bacchus" (Delibes) (C1418).
Marek Weber's Orchestra, "Coeur Brise" (Gillet) (B3026).
Organ—Charles W. Saxby, F.R.C.O., "Les Millions D'Arlequin"
Serenade (Drigo) (Zono. A338).
Mandoline Concert Society, "Echoes of the Volga" (Ritter) (C1936).
Marek Weber and His Orchestra, "The Beggar Student" (Millocker).
H.M. Coldstream Guards Band, "Faust" Selection (Gounod) (C1877).
The London Orchestra "Yalse Memories" (gr. Somers) (Zono. 5257). n.m. Codstream Guards Band, "Faust" Selection (Gounod) (C1871). The London Orchestra, "Valse Memories" (arr. Somers) (Zono. 5257). Organ—Chas. W. Saxby, F.R.C.O., (a) "Spring Song," (b) "Bees" Wedding" (Mendelssohn) (Zono. A338).

Marek Weber and His Orchestra, "Menuet No. 1" (Paderewski). Piccadilly Orchestra, "The Waltz Dream" (Strauss) (B2684).

7.0 : News session.

7.30: Dialogue-Messrs. E. E. Wiltshire and Fairclough, "The Story of the Garden."

8.0 : Chimes. Kaiapoi Programme: Overture—Band of H.M. Grenadier Guards, "The Shamrock"—Irish Selection (arr. Myddleton).
8.8 : Cantata—Kaiapoi Male Choir (Mr. George March, Conductor), "To

8.8: Cantata—Kaiapoi Male Choir (Mr. George March, Conductor), "To the Songs of Art" (Mendelssohn).

Part song—Kaiapoi Male Choir, "Night Song" (Franz Abt).

8.20: Orchestral—Kaiapoi Orchestra (Conductor, Mr. Blakeley), march, "Tallalula Band" (Lincoln).

8.24: Contralto—Mrs. L. G. Billcliff, (a) "Apple Blossom" (Colborn); (b) "The Songs My Mother Sang" (Grimshaw).

8.29: Piano—Miss Marjorle Childs, "Fantasie Imprempti" (Chopin), 8.35: Organ—Archer Gibson, "The Old Refrain" (Kreisler) (Zono, EF35).

8.39: Tenor—Mr. Gilbert Hirst, (a) "The Bird with the Broken Wing" (Gunson); (b) "Lolifa" (Buzzi-Peccia).

8.46: Xylophone—Mr. W. R. Lintott, march, "Repaz Band" (Sweeley).

8.49: Part songs—Kaiapoi Male Choir, (a) "At the Cross Roads" (Bullard); (b) "The Shepherdess" (Macmurrough); (c) "The Toast."

8.57: Zimbala and orchestra—Olshanet's Orchestra, (a) "Unirea Romanelori," (b) "Sarba Maracine" (Moskow) (Bruns. 67112).

9.3: Evening weather forecast and station notices.

9.5: Talk—Rev. W. H. A. Vickery, Mayor of Kaiapoi, "Kaiapoi, Past and

9.5 : Talk—Rev. W. H. A. Vickery, Mayor of Kaiapoi, "Kaiapoi, Past and Present."

9.20: Overture—Kaiapoi Orchestra, "An Printemps" (Arnold). 9.26: Contralto—Mrs. L. G. Billcliff, (a) "The Crown" (Rae); (b) "My Ain Folk" (Lemon).

9.31: Piano—Miss Marjorie Childs, "Prelude in G" (Rachmaninoff).
9.37: Tenor—Mr. Gilbert Hirst, (a) "Mother o' Mine" (Tours); (b) "Little
Lady of the Moon" (Eric Contes).
9.41: Xylophone—Mr. W. R. Lintott, march, "Girls of America" (Lincoln),
9.47: Orchestral—Kaiapoi Orchestra, "Pythian" (Morrison).

9.51: Part songs—Kaiapoi Male Choir, (a) "The Parting Day" (Franz Abt);
(b) "Love's Old Sweet Song" (Molloy); (c) "The Sailors' Chorus."
9.57: March—Massed Military Bands, "Wellington" (Zehle) (Parlo. A3057). God save the King,

4YA, DUNEDIN (650 KILOCYCLES)-MONDAY, AUGUST 24.

3.0 : Selected recordings.

Selected recordings.
Children's hour, conducted by Uncle Jack and Uncle Pete.
Dinner music session (H.M.V.)—
National Symphony Orchestra, "Stradella" Overture (Flotow).
Royal Opera Orchestra, "Faust" Ballet Music, 1st to 4th Movts.
(Gounod) (C1462); "The Sleeping Beauty" (Tschaikowsky).
National Symphony Orchestra, "Caucasian Sketches," No. 1, "In the Mountain Pass" (Ippolitoff-Iwanoff) (Zono, EF36).
Organ duet—Mr. and Mrs. Jesse Crawford, "The Moonlight Reminds Me of You" (Kahn) (EA763).

Victor Oloff Sextet, "Cherry Ripe" (Scott) (B2697). San Francisco Symphony Orchestra, "Rosamunde Entr'acte" (D1568). Royal Opera Orchestra, "Prelude—"The Huntress,' from Sylvia Ballet." Reginald King and His Orchestra, "Song o' My Heart" Selection. Royal Opera Orchestra, "Faust" Ballet Music, 5th to 7th Movts. (Gounod) (C1463); "Shepherd Fennel's Dance" (Balfour Gardiner)

7.0 : News session.

7.30: Talk-Mr. John Bowie, "Early Otago."

8.0 : Chimes. Specially recorded international programme: Vitaphone Orchestra.

Radio Sweethearts. Forget-me-not.

Weather report. International talk-Mr. J. T. Cooper, President of Otago Radio Society, "Broadcasting as a Factor in International Goodwilk"

The Irresistible Imps. Vitaphone Dance Orchestra.

God save the King.

2YB. NEW PLYMOUTH (1230 KILOCYCLES)-MONDAY, AUGUST 24.

8.0 to 10.0 p.m.: Concert programme. 7.30 to 8.0 p.m.: Sports results and talks.

8 to 10 p.m.: Concert and dance programme, with sports results.

Tuesday, August 25

1YA, AUCKLAND (875 KILOCYCLES)—TUESDAY, AUGUST 25.

3.0 : Chimes. Selected recordings.

: Children's session, conducted by Uncle Dave."
: Dinner music session (H.M.V.)—

San Francisco Symphony Orchestra, "Coppelia Ballet-Automatons

Dance' (Delibes) (D1272).

Victoria Orchestra, "La Serenata—Waltz' (Metra) (Zono. EF32).

John Barbirolli's Chamber Orchestra, "A Little Night Music' Serenade. John Barbiroll's Chamber Orchestra, "A Little Night Music" Serenace.
International Concert Orchestra, "Danube Waves" Waltz (Ivanovici).
Marek Weber and His Orchestra, "La Tosca" Potpourri (Puccini).
New Mayfair Orchestra, "Five O'Clock Girl" Selection (Kalmar).
San Francisco Symphony Orchestra, "Caprice Vennois" (Kreisler).
Victoria Orchestra, "Espanita" Waltz (Rosey) (Zono. EF32).
New Mayfair Orchestra, "Love Lies" Selection (C1658). International Concert Orchestra, "Over the Waves" Waltz (Rosas).

7.0 : News and market reports.

7.40: Talk—Mr. N. M. Richmond (Director of the W.E.A.), "Post-War Germany," Part 2.
8.0: Chimes. Specially recorded international programme:

Vitaphone Orchestra.

Radio Sweethearts.

Forget-me-not. Weather report.

International talk—The Rev. A. B. Chappell, M.A., 'Making Peace on the Sea."

Irresistible Imps.

Vitaphone Dance Orchestra. God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, AUGUST 25.

10.0 : Chimes. Selected gramophone recordings.

11.12: Lecturette—"Fabrics and Fashions."

12.0 : Lunch hour music. 2.0 : Educational session.

8.0 : Selected recordings.

8.30 and 4.30: Sporting results to hand.

6.0 : Children's session, conducted by Jumbo.

the Man on the Land."

8.0 : Chimes. Relay from Wanganui of Concert by the Queen Alexandra Band. God save the King.

\$YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, AUGUST 25. SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, AUGUST 25.

3.0 : Selected recordings.

: Children's hour, conducted by Aunt Leonore.

Dajos Bela Orchestra, "The Swallows" Waltz (Strauss) (A4010). Grand Symphony Orchestra, "Hungarian Dances" Nos. 5 and 6. Frank Westfield's Orchestra, "The New Sullivan" Selection. Dajos Bela Orchestra, "Roses of the South" Waltz (Strauss) (A4056)

7.0 : News session.

7.40: Talk-Mr. Lloyd Ross and Students-"Answers to Economic Questions"

under auspices of W.E.A.

8.0: Chimes. Concert by Band of 1st. Battalion of Otago Regiment, under conductorship of Lieut. Liew. O. Asten.

March—The Band, "Invercargill" (Lithgow): Valse, "Nights of Glad-

ness" (Ancliffe).

8.13: Mixed quartets—The Happy Four, (a) "McGregor's Gathering" (Lee),
(b) "Kathleen Mayourneen" (Crouch).

8.19: Two planos-William Gross and Walter Kauffmann, "Shimmy Tango" (from "Baby in the Bar") (Gross) (Poly. 21957). 8.25: Scots humour—Mr. James A. Paterson, "The Lassie I Left on

Shore" (McFarlane). 8.30: Soprano-Miss Evelyn Shepard, (a) "Daffodils in Londontown" (Phil-

lips), (b) "Gretchen at the Spinning Wheel" (Schubert). 8.36: Musical sketch—The Band, "Down South" (Myddleton). 8.48: Mixed quartet—The Happy Four, "O Who O'er the Downs?"

8.52: Mouth-organ—Mr. E. Murphy, "Popular Selection" (arr. Murphy). 8.57: Tenor—Mr. G. Crawford, "Scotland Yet" (McLeod).

9.0 : Evening weather report and station notices.

9.2: Xylophone—Franz Kruger, (a) "Tell Fantasia" (arr. Kruger), (b) "La Kraquette" (Clerice) (Poly. 21963).
9.8: Mixed quartet—The Happy Four, "Will o' the Wisp" (Cherry).

9.12: Selection—The Band, "The Gondollers" (Sullivan).
9.24: Scots humour—Mr. James A. Paterson, (a) "Just Got Off The Chain"
(Lauder), (b) "All Scotch" (Elton).
9.80: Contratto—Miss Mary Somerville—(a) "The Restless Sea" (Hamblin),

9.36: Selection—The Band, "In the Shadows" (Finck).
9.36: Selection—The Band, "In the Shadows" (Finck).
9.44: Humour—John Henry, "Over the Garden Wall" (Henry).
9.50: Mouth-organ—Mr. E. Murphy, "Popular Marches" (arr. Murphy).
9.54: Baritone and quartet—Mr. S. Kershaw and The Happy Four,
"Drumadoon" (Sanderson), (b) "Sleep, Wayward Thoughts."
9.59: March—The Band, "Argandab" (Thompson).
10.2: God saye the King.

10.2 : God save the King.

Wednesday, August 26

1YA, AUCKLAND (875 KILOCYCLES)—WEDNESDAY, AUGUST 26.

12.30: Relay of Community Singing from the Auckland Town Hall.

3.0 : Selected recordings. 3.15: Literary selection,

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

6.0 : Dinner music session (Parlophone)-

Berlin State Opera House Orchestra, "Academic Festival" Overture (Brahms) (A4210), "From Foreign Parts" P. 1 "Italy"; Part 2 "Germany" (Moszkowski) (A4277). Frank Westfield's Orchestra, "Lilac Time" Selection.
Berlin State Opera House Orchestra, "Schwanda the Bagpipe Payer."
Dajos Bela Orchestra, "Schatz Waltz" (Strauss) (A4110); "Mosaic

"Mosaic" Potpourri (Zimmer) (A4278).

Grand Symphony Orchestra, "The Land of Smiles" Selection.
Berlin State Opera House Orchestra. "From Foreign Parts" Pt. 3
"Spain," Pt. 4 "Hungary" (Moszkowski) (A3137).

Dajos Bela Orchestra, "Moonlight on the Alster" (Fetras) (A4110)

7.0: News and market reports.
7.40: Talk—Mrs. Hodges, "Book Review."

8.0 : Chimes. Relay from the Auckland University College Hall, of an address by Professor H. Belshaw to the Commerce Students' Society, on "The Niemeyer Report."

9.0 (approx.): From the Studio:

Evening weather forecast and announcements.

9.2: Orchestral—Herman Finck and His Orchestra, "Melodious Memories."

9.10: Soprano—Miss Myra Monk, (a) "My Heart's Desire" (Coningsby Clarke), (b) "Life's Epitome" (Rae).

9.16: Chorus—Light Opera Company, (a) "Songs of England," (b) "Songs of Wales" (HMV C2040).

9.22: Instrumental and Vocal—The Aubade Trio, Violin solo—"Tango" (Albeniz-Dushkin); Contralto solos, (a) "Charming Chloe" (German), (b) "Where Corals Lie" (with violin obbligato) (Elgar),

(c) "Now's the Time To Love" (Gounod); Pianoforte solo, "Valse in C Sharp Minor" (Chopin); Violin solo, "Rondino" (Beethoven-Kreisler); Contralto solos, (a) "A Soft Day" (with violin obbligato), (Stanford); (b) "The Shadow March" (Del Riego); Pianoforte solo, "Danse des Clochettes" (Rebikoff).

9.42: Orchestra—Berlin State Opera Orchestra, "Intermezzo—Waltz Scene."

9.50: Soprano—Miss Myra Monk, (a) "Sing, Sing, Blackbird" (Montague Phillips), (b) "Ma Curly Headed Babby" (Clutsam).

9.55: March—Band of H.M. Grenadler Guards, (a) "Light of Foot" (Starke), (b) "With Sword and Lance" (Letanne) (Col. DO41).

10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, AUGUST 26.

10.0 : Chimes. Selected gramophone recordings.

11.37: Lecturette—"Hollywood Affairs."

12.0 : Lunch hour music.

2.0: Selected gramophone recordings.
3.15: Lecturette—Miss Ruth Hay, "Weakness of Women,"
3.30 and 4.30: Sporting results to hand.
5.0: Children's results and the Armt Price.

6.0: Children's session, conducted by Aunt Daisy.
6.0: Dinner music session (Columbia)—
Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen).

Debroy Somers Band, "The Desert Song" (Romberg) (02700).

J. H. Squire's Celeste Octet, "Memories of Devon" (Evans) (DO254).

New Queen's Hall Light Orchestra, "Summer Days Suite" (Coates):

(a) "In a Country Lane," (b) "On the Edge of the Lake"; (c) "At

(a) "In a Country Lane,"
(b) "On the Edge of the Lake";
(c) "At the Dance" (02590-1).
H.M. Grenadier Band, "New Sullivan Selection" (arr. Godfrey).
Zurich Tonhalle Orchestra, "Andante" (Mozart) (02978).
Johann Strauss and His Orchestra, "Voices of Spring" (Strauss).
Columbia Symphony Orchestra, "Bridal Procession" (Grieg) (02622).
J. H. Squire's Celeste Octet, "Collette" (Fraser-Simson) (DO254).
Zurich Tonhalle Orchestra, "Gavotte From Idomeneo" (Mozart).
New Queen's Hall Light Orchestra, "Wood Nymphs" (Coates).
Johann Strauss and His Orchestra, "Radetzky March" (Strauss).
News session. market reports and sports results.

7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. A. E. Wilson, "Tourist and Health Resorts"
8.0: Chimes. Specially Recorded International programme.

Vitaphone Orchestra.

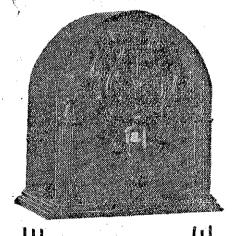
The Old Whittler.

The Flying Song Squadron.

Weather report.

International Talk-Dr. Guy H. Scholefield, O.B.E.

Mirth Quakers.



If you are looking for a handsome

MANTEL RECEIVER

giving clear undistorted reception with rich full tone

SEE THIS NEW **GULBRANSEN** SUPER HETERODYNE

Price £28/10/-

Vari - mu, Pentode Screen - grid valves. High sensitivity with sharp separation and elimination of valve noises. Special compensating type Dynamic Speaker giving wonderful purity to the entire tonal range.

N.Z. Distributors:

H. W. CLARKE, Ltd.

182 Wakefield Street, WELLINGTON.

Whispers. God save the Kinz.

3YA, CHRISTCHURCH (989 KILOCYCLES)—WEDNESDAY, AUGUST 26.

3.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's hour. 6.0 : Dinner music session (Columbia)-

Dinner music session (Columbia)—
Bournemouth Municipal Orchestra, "Crown Diamonds" Overture.
J. H. Squire's Celeste Octet, "Air on G String" (Bach, arr. Sear).
New Concert Orchestra, "Nights of Fragrance" (Ziehrer) (02979).
B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore" Selection.
J. H. Squire's Celeste Octet, "On Wings of Song" (Mendelssohn).
Bournemouth Municipal Orchestra, "The Bronze Horse" Overture.
J. H. Squire's Celeste Octet, "Putting the Clock Back" (arr. Squire)
(DOX71); "Funeral March of a Marionette" (Gounod, arr. Sear).
New Concert Orchestra, "Vienna Maidens" (Ziehrer) (02979).
Classic Symphony Orchestra, "Classic Memories" (arr. Ewing) (Reg.)
J. H. Squire's Celeste Octet, "Ave Maria" (Bach, Gounod) (02569).
News session.

7.0 : News session.

7.30: Addington stock market reports.
7.45: Talk.—Mr. D. E. Parton, "Tree Trimming."
8.0: Chimes. Relay from "The Radiant Hall" of second programme of 1931 of the Christchurch Orchestral Society, Inc., under conductorship of Professor Oddone Savini. Leader of Orchestra, Mr. T. B. Riordan.

Overture—"The Barber of Seville" (Rossini); "Symphony No. 3—Eroica" (Beethoven).

Tenor and orchestra-Vocalist, Mr. Hubert Carter; violin obbligato, Miss Irene Morris and Orchestra, "Ave Maria" (R. A. Horne).
Dance—"Mermaids' Dance" (Catalini).

Dance—"Mermaids' Dance" (Catalini).

Evening weather forecast and station notices.

Suite—"Casse Noisette" (Tschaikowsky).

Tenor—Mr. Hubert Carter, recit. and aria, (a) "Ah, Moon of My
Delight" (from "In a Persian Garden") (Lehmann), (b) "Hindoo
Song—Despair" (Bemberg) (with 'cello obbligato by Mr. Harold
Beck), (c) "White Horses" (R. A. Horne).

Selection, "Faust" (Gounod).

March, "Marche Russe" (Luigini).

10.0: Dance programme (H.M.V.)—
Foxfrois—Warine's Pennsylvanians. "With Yor" (Berlin) (EA713).

March, "Marche Russe" (Luigini).

10.0: Dance programme (H.M.V.)—
Foxtrots—Waring's Pennsylvanians, "With You" (Berlin) (EA713).
Leo Reisman and His Orchestra, "Charming" (Grey).
Waring's Pennsylvanians, "There's Danger in Your Eyes,
Cherie" (Richmond) (EA713).
Nat Shilkret and His Orchestra, "Caribbean Love Song" (Berton).

10.12: Waltz—Leo Reisman and His Orchestra, "Shepherd's Serenade" (Grey)
Foxtrots—Rudy Vallee and His Connecticut Yankees, "Celebrated
Stein Song" (Fenstad) (EA729).
Jack Hylton and His Orchestra, "Bunkey Doodle-i-doh."

10.21: Vocal—Chick Endor, "Singin' in the Bathtub" (Magidson) (B3359).
10.24: Foxtrots—The High-Hatters, "In My Little Hope Chest" (Coslow).
Jack Hylton and His Orchestra, "We're Uncomfortable."
The High-Hatters. "Sing, You Sinners" (Coslow) (BA732).

Waltz—George Olsen and His Music, "Romance" (Leslie) (EA706).

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" (Grey).

10.45: Vocal—Chick Endor, "Lady Luck" (Perkins) (B3359).
10.48: Foxtrots—George Olsen and His Music, "I'm on a Diet of Love."
Jack Hylton and His Orchestra, "House on the Hill-top."
George Olsen and His Music, "Mona" (Conrad) (EA710).
Jack Hylton and His Orchestra, "Dreamy Honolulu."

11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, AUGUST 26.

3.0 : Selected recordings. Talk-"How to Run a Business Meeting," by the Home Science Exten-

sion Service of Otago University.

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

6.0: Dinner music session (Columbia)—
Milan Symphony Orchestra, "Masaniello" Overture (Auber) (DOX 149)
Cordoba Philharmonic Orchestra, "La Habanera" (Lucena) (DOX77).

Herman Finck and His Orchestra, "Melodious Memories" (arr. Finck).

Sir Harra L Wood's Symphony Orchestra "Prelude in C Sharp Minor"

Herman Finck and His Orchestra, "Melodious Memories" (arr. Finck). Sir Henry J. Wood's Symphony Orchestra, "Prelude in C Sharp Minor" (Rachmaninoff, arr. Wood) (DOX83).

J. H. Squire's Celeste Octet, "Memories of Chopin" (arr. Willoughby). London Theatre Orchestra, "Frederica" Selection (Lehar) (DOX145). Regal Cinema Orchestra, "Viennese Nights" Waltzes Selection. Sir Henry J. Wood's Symphony Orchestra, "Volga Boat Song." Cordoba Philharmonic Orchestra, "Carnival" (Lucena) (DOX77).

7.0 : News session.

7.15: Talk-Mr. G. H. Holford, under the auspices of 4YA Primary Productions Committee, "Farm Tractors."

8.0 : Chimes. Relay from Concert Chamber of Dunedin Town Hall of concert by Dunedin Returned Soldiers' Association Choir. Conductor, John T. Leech; Pianist, Chas. A. Martin, Mus. Bac. God save the King.

Tenor—Mr. A. J. Parker, "Onaway, Awake" (Cowan).

Part-songs-The Choir, (a) "Autumn Sea" (Gerrich), (b) Rataflan."

```
Soprano-Miss Anne White, "Absence" (Berlioz).
```

Part-song-The Choir, "In Vocal Combat" (Buck).

Cornet duet—Messrs E. Barlett and D. Fitspatrick, "Watchman, What of the Night?" (Squire),

Male chorus and tenor-Members of Choir and Mr. W. H. Satter-

Male chorus and tenor—Members of Choir and Mr. W. H. Satterthwaite, "Chorus of Sprites and Hours" (Buck).

Part-song—The Choir, "Song of the Bow" (Aylward).

Piano—Mr. Chas. A. Martin, "Variations on a Theme by Kitson."

Duet—Members of Choir, "The Moon Hath Raised Her Lamp."

Baritone—Mr. P. S. Anderson, "Cloze Props" (Wolsey).

Part-songs—The Choir (Mr. J. Keenar, soloist), (a) "The Curfew"

(Attwood), (b) "The Tickling Trio" (Martin).

Soprano—Miss Anne White, "The Willow" (Goring-Thomas).

Sea Shanties—The Choir (Shanteyman, Mr. H. L. Paterson), "Rolling

Town to Rio" (tradit): shanteyman, Mr. Phil F. Harre, "Billy Down to Rio" (tradtl.); shanteyman, Mr. Phil F. Harre, "Billy Boy" (tradtl.).

Boy" (tradtl.).

10.0: Dance music programme (Brunswick)—
Johnny Walker and His Rollickers, "Betty Co-ed" (Vallee) (Col.).
Jacques Renard and His Orchestra, "Loving You the Way I. Do."
Ben Bernie and His Orchestra, "Confessin" (Neiburg) (4898).
Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Just a Idttle Dance Mam'selle" (O'Flynn) (4927).

10.12: Waltz—Abe Lyman and His Californian Orchestra, "This Is Love."
Foxtrots—Isham Jones's Orchestra, "Sweet Jennie Lee" (Donaldson).
Jacques Renard and His Orchestra, "Lucky Seven" (Dietz).

10.21: Vocal—Wendell Hall, "Underneath the Mellow Moon" (Hall) (4879).

10.21: Vocal—Weiner Han, Substitute the transfer of Don't Mind Walkin' in the Rain" (Rich) (4897).

Isham Jones's Orchestra, "In My Heart It's You" (O'Flynn) Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra,

"Wonder How It Feels" (Sherman) (4881).

10.33: Jacques Renard and His Orchestra, "Sing Something Simple" (Hupfeld) (4918); "Can This Be Love?" (James) (4919).

10.39: Vocal—Jessica Dragonette, "When You're Away" (Blossom) (4904).

10.42: Foxtrots—Isham Jones's Orchestra, "Til Be Blue, Just Thinking of You" (Whiting) (4914).

Mayer Davis's Hotel Astor Orchestra, "Looking for the Lovelight in the Dark" (Dubin) (4870).

Earl Burtnett and His Los Angeles Biltmore Hotel Or-chestra, "Little White Lies" (Donaldson) (4881). 10.51: Waltz—Castlewood Marimba Band, "When the Organ Played at Twi-

light" (Wallace) (4913).

Ozzie Nelson and His Orchestra, "I Still Get a Thrill." 10.54: Foxtrots Meyer Davis's Hotel Astor Orchestra, "As Long as I Have

You" (Dubin) (4870).

11.0 : God save the King.

EYB, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, AUGUST 26

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

Thursday, August 27

IYA, AUCKLAND (875 KILOCYCLES)—THURSDAY, AUGUST 27.

8.0 : Chimes. Selected recordings.

8.15: Talk-"Removal of Stains." Prepared by the Home Science Extension Service of Otago University.

5.0 : Children's Session, conducted by Skipper.

Dinner music session (H.M.V.)—
International Concert Orchestra, "La Spagnola Waltz" (Di Chiara).
Novelty Orchestra, "Passion Rose" (Lehar) (Zono. EE200).
Berlin State Opera Orchestra, "German Dances" (Mozart) (D1624).
Organ—Sydney Gustard, "Un Peu D'Amour" (Silesu) (B3318).
Reginald King and His Orchestra, "The Song I Love" (Henderson).
H.M. Coldstream Guards Band, "La Fille de Madame Angot" (Lecocq)
The London Palladium Orchestra, "Sunset" (Matt) (C1898).
Vienna Philharmonic Orchestra, "My Treasure" Waltz (Strauss).
International Concert Orchestra, "My Treasure" Waltz (Becucci).
Novelty Orchestra—"Midnight Bells" (Heuberger) (Zono. EE200).
Organ—Sydney Gustard, "Poupe Valsante" (Poldini) (B3318).
Reginald King and His Orchestra, "Garden in the Rain" (Gibbons).
The London Palladium Orchestra, "Dawn" (Matt) (C1898).
News and market reports. 6.0 : Dinner music session (H.M.V.)

7.0 : News and market reports. 7.40: Talk-"Hardware-Rousehold Requisites." Under the auspices of the

New Zealand Manufacturers' Association.

New Zealand Manufacturers' Association.

8.0: Chimes. Studio Concert by the Auckland Piano Students' Association. Piano duo—Misses C. Martin and E. Hall, "La Sevillane" (Chaminade).

8.7: Mezzo-soprano—Miss Doris Bransgrove, (a) "Micaela's Air from "Carmen'" (Bizet); (b) "Fiddle and I" (with violin obbligato).

8.13: Piano duo—Misses Joyce Smith and Joyce M. Parker, "Tourbillon." Piano quartet—Misses M. Phillips, J. Goodsir, B. Debenham and M. Jagusch. "Pastoral Symphony" (First Movement) (Beethoven).

8.26: Baritone—Mr. H. A. Barton, (a) "White Horses" (Lohr); (b) "The Song of the Waggoner" (Breville-Smith).

8.32: Piano duo—Mr. W. D. Webber and Miss M. Jagusch, "Le Matin." 8.37: Violin—Miss B. Debenham, (a) "Tarantelle" (Drdla); (b) "Hungarian Dance" (Dvorak).

Dance' (Dyorak).

8.43: Soprano—Miss Valerie Peacocke, (a) "Hayfields and Butterfiles" (Del Riego); (b) "Yesterday and To-day" (Spross); (c) "To You."

8.49: Piano duo-Misses Mamie Reid and Joyce M. Parker, "Bellisario." Piano duo-Misses M. Slade and C. Martin, "Symphony in G."

9.3: Evening weather forecast and announcements.
9.5: Two planes (six hands)—Mr. W. D. Webber, Misses Joyce M. Parker and E. Blackburn, "The Warriors" (Percy Grainger).
9.20: Baritone—Mr. H. A. Barton, "Mother Earth" (Sanderson).

9.24: Piano quartet—Misses A. Petricevich, A. Walker, J. Sinclair and Suter, "Raymond" Overture (Thomas).

9.32: Programme of Dance Music (Brunswick)-Foxtrots-Isham Jones' Orchestra, "Trees" (Kilmer) (4856).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "The Wedding of the Birds" (Tobias) (4926).
Tom Gerun and His Orchestra, "You're Lucky to Me" (Razaf) (4916); "My Love For You" (Kahn) (4971).

9.42: Waltz-Joe Green and His Orchestra, "Song of the Big Trail."

Foxtrots-Tom Gerun and His Orchestra, "Rollin' Down the River."

Foxtrots—Tom Gerun and His Orchestra, "Rollin' Down the River."
Jacques Renard and His Orchestra, "Three Little Words."
9.51: Vocal—Charles King, "Here Comes the Sun" (Freed) (4849).
9.54: Foxtrots—Isham Jones' Orchestra, "Stardust" (Carmichael) (4856).
Ozzie Nelson and His Orchestra, "Who's Calling You Sweetheart To-night?" (O'Flynn) (4979).
Nick Incas and His Crooning Troubadours, "I Miss a Little

Miss" (Seymour) (4987).

Ozzie Nelson and His Orchestra, "And Then Your Lips Met

Mine" (Nelson) (4979).

10.6: Waltzes—Regent Club Orchestra, "You Will Remember Vienna."
Castlewood Marimba Band, "Drifting on to Avalon."

10.12: Foxtrots—Colonial Club Orchestra, "On a Little Balcony in Spain."
Jacques Renard and His Orchestra, "I Bring a Love Song."
Nick Lucas and His Crooning Troubadours, "You're Driving

Me Crazy" (Donaldson) (4987). 10.21: Vocal—Chester Gaylord, "Confessin" (Neiburg) (4871).

10.24: Foxtrots—Tom Gerun and His Orchestra, "Cheerful Little Earful,"
Abe Lyman and His California Orchestra, "Never Swat a

Abe Lyman and His California Orchestra, "Never Swat a Fly" (de Sylva) (4924).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "Say 'Oui' Cherie" (Robinson) (4926).

Colonial Club Orchestra, "Sing Song Girl" (McCarthy).

10.36: Vocal—Charles King, "Leave a Little Smile" (Dubin) (4849).

10.39: Foxtrots—Tom Gerun and His Orchestra, "Memories of You" (Razaf).

Abe Lyman and His California Orchestra, "Old Fashioned Cirl" (de Sylva) (4924) Girl" (de Sylva) (4924). Loring "Red" Nichols and His Orchestra, "Embraceable

You" (Gershwin) (4957).

10.48: Waltzes—Castlewood Marimba Band, "Ukulele Moon" (Davis).

Joe Green and His Orchestra, "I'm Alone Because I Love You" (Young) (4978).

10.54: Foxtrots -Tom Gerun and His Orchestra, "My Sweetheart Serenade." Jacques Renard and His Orchestra, "A Girl Friend of a Boy Friend of Mine" (Kahn) (4939).

11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)-THURSDAY, AUGUST 27.

10.0 : Chimes. Selected gramophone recordings.

10.45: Lecturette "Cooking."

11.37: Lecturette-"Malnutrition," under the auspices of the Health Department.

12.0 : Lunch hour music. 2.0 : Selected recordings.

3.15: Lecturette-Miss I. F. Meadows, "Removal of Stains." Talk prepared by the Home Science Extension Department of the Otago University 3.30 and 4.30: Sporting results to hand.

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

6.0 : Dinner music session (Polydor)— Symphony Orchestra, "Die Fledermaus" (Strauss) (27178).

Paul Godwin's Orchestra, "Japanese Cherry Blossom Festival" (Yashltomo) (19747), "Egyptlan March" (Strauss) (19647), "The Circus Princess" (Kalman) (19640).

Ilja Livschakoff and His Orchestra, "Estrellita" (Ponce, Davis). Paul Godwin's Orchestra, "Japanese Lantern Dance" (Yoshitomo). State Opera Orchestra, Berlin-Charlottenburg, "La Gazzaladra." Paul Godwin's Orchestra, "Spring's Awakening" (Bach) (19647). Ilja Livschakoff and His Orchestra, "Pas Des Escharpes."

Paul Godwin's Orchestra, "Third Waltz Medley" (Robrecht) (27177).

7.0 : News session, market reports and sports results. 7.40: Lecturette-Mr. Johannes Andersen, Librarian Turnbull Library, "Maori Folk Lore."

8.0: Chimes. Overture—Band of H.M. Grenadier Guards, "The Rose-English" Selection (arr. Myddleton) (Col. 02521).
8.8: Bass—Mr. R. J. G. Madigan, "Sword of Ferrara" (Bullard).
8.12: Overture—2XA Orchestrina (Conductor Signor A. P. Truda) "Royal."

8.20: Duet—Miss Ena Rapley and Mr. Edwin Dennis, "Boy and Girl."
8.24: Male choir—Ural Cossacks, "Ukranian Folk Songs" (trdtl.).
8.30: Guitar trio—Mrs. Mildred Kenny's Guitar Trio, (a) "One Alone" (Romberg), (b) "To a Miniature" (Brahe).

3.38: Tenor—Mr. Edwin Dennis, with orchestral accompaniment, (a) "Eldorado," (b) "O My Garden" (Mallinson).
8.42: Mouth organ—Pauley Witch Ensemble, "A La Maniere D'Eux."

8.48: Selection—2YA Orchestrina, "Genevieve De Brabant" (Offenbach).

8.48: Selection—2YA Orchestrina, "Genevieve De Bradant (2002).

9.0: Evening weather report and station notices.

9.2: Humour—Gillie Potter, "Mr. Potter's Sporting Broadcast" (Potter).

9.8: Bass—Mr. R. J. G. Madigan, "Simon the Cellarer" (Hatton).

9.12: Selection—2YA Orchestrina, (a) "Favourite French Songs" (arr. Recker), (b) "Zingaresca" (Ellerton).

9.22: Duet—Miss Ena Rapley and Mr. Edwin Dennis, "Oh, Maritana."

9.23: Guitar trio—Mrs. Mildred Kenny's Guitar Trio, (a) "Cherry Ripe"

9.26: Guitar trio—Mrs. Mildred Kenny's Guitar Trio, (a)
(Horn), (b) "Sweet and Low" (Johnson).

9.34: Soprano—Miss Ena Rapley with orchestral accompaniment, (a) "Love,
The Jester" (Phillips), (b) "The Bird With a Broken Wing."

9.40: Banjo—Len Fillis, "Swannee River Medley" (arr. Fillis).

9.46: Waltz—2YA Orchestrina, "Il Bacio" (Arditi): March, "Lorraine."

10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, AUGUST 27.

3.0 : Gramophone recital.

3.15: Lecturette-"Removal of Stains." Talk prepared by the Home Science Extension Service of Otago University.

3.30: Gramophone recital.

4.25: Sports results.

Children's Hour.

**No : Children's Hour.

6:0 : Dinner music session (Polydor)—

Berlin Philharmonic Orchestra, "Titus" Overture (Mozart) (95296).

Paul Godwin's Orchestra, "The Roses' Bridal Procession" (Leon Jessel) (19681); "Oh This Beautiful Springtime" (Lincke) (19661).

Great Symphony Orchestra, "Fortissimo" (Kalman) (27167).

Paul Godwin's Orchestra, "The Marionettes' Mounting Guard."

State Opera Orchestra, Berlin, "Orpheus and Eurydice Ballet Music."

Paul Godwin's Orchestra, "Murmure De Bal" (Meyer Helmund).

Berlin Philharmonic Orchestra, "Le Nozze Di Figaro" Overture.

Paul Godwin's Orchestra, "Popples" (Moret) (19661); "Dreaming Flowers" (transl.) (19507).

7.0 : News session.

7.30: Dialogue Messrs. B. G. Goodwin and J. D. Carolin, Orchard Instructors of Department of Agriculture, "Seasonal Orchard Work."

Chimes. Specially recorded International programme. Dr. Eugene Ormandy and His Salon Orchestra.

International Singers.

Abroad with the Lockharts.

Weather forecast.

International Talk-Mr. W. M. Hamilton, "Mesopotamia."

Ambassadors of Melodyland. Hywide and Handsome.

Nat Brusiloff and His Lido Venice Orchestra.

God save the King.

4YA, DUNEDIN (650 KILOCYCLES)-THURSDAY, AUGUST 27.

SILENT DAY.

Friday, August 28

1YA, AUCKLAND (875 KILOCYCLES)—FRIDAY, AUGUST 28.

3.0 : Selected recordings.

3.15: Literary selection.

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

6.0 : Dinner music session (Columbia) Columbia Symphony Orchestra, "March of the Toys" (Herbert) (02651)

Columbia Symphony Orchestra, "March of the Toys" (Herbert) (02081)
Court Symphony Orchestra, "Destiny Waltz" (Baynes) (564).

New Queen's Hall Light Orchestra, "Petite Suite de Concert": (a)

"Un Sonnet d'Amour," (b) "La Tarantelle Fretillante" (02589).

6.13: Columbia Symphony Orchestra, "The Flatterer" (Chaminade) (01371).

Halle Orchestra, "Rosamunde' Ballet Music" (Schubert: (a) "Andantino," (b) "Allegro Moderato and Andante" (04200).

6.25: J. H. Squire's Celeste Octet, "Memories of Mendelssohn" (02838).

Berlin State Orchestra, "Weiner Blut" (Strauss) (04337).

6.41: New Queen's Hall Light Orchestra, "Petite Suite de Concert" (Coleridge-Taylor): (a) "La Caprice de Nanette," (b) "Demande et Reponse" (02588). H.M. Grenadier Guards Band, "Martial Moments" (arr. Winter).

7.0 : News and market reports.

7.30: Sports talk.

7.30: Sports talk.
8.0: Chimes. Overture—Berlin State Opera Orchestra, "If I Were King."
8.9: Soprano—Mrs. Hawea Rees, (a) "That's All" (Brahe), (b) "A Sprig of Boronia" (Hull).
8.15: March—Salon Orchestra (Conductor, Mr. Harold Baxter), "Pro Patria" (Lotter); overture, "Hungarian Lustipiel" (Kela Bels).
8.25: Humorous sketch—Miss Linnie Nicholas and Mr. Zante Wood, "The Little Wretch" (Hope).
8.32: Orchestral—The Orchestra "Legand Bagbisch" (MacOussiel)

Little Wretch" (Hope).

8.32: Orchestral—The Orchestra, "Legend Baskisch" (MacQuarrie); waltz, "The Dream Princess" (Ancliffe).

8.41: Baritone—Mr. J. V. Burton, (a) "Loving Smile of Sister Kind" (Gounod), (b) "Mother o' Mine" (Tours).

8.46: Accordion—Bastien, (a) "Oh Donna Clara" (Petersburski), (b) "For Ever" (Delhaix) (Poly. 23690).

8.52: Selection—The Orchestra, "Mirella" (Gounod),

9.2 : Evening weather forecast and announcements.

9.4 : Soprano-Mrs. Hawea Rees, (a) "A Japanese Love Song," (b) "The

Hawthorn" (Brahe). 9.9: Male choir—Ural Cossacks, (a) "Das Gebet des Kosaken" (Kolatilin).

9.53: Fantasia-The Orchestra, "The Water-Melon Patch" (Bidgood).

10.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, AUGUST 28.

10.0 : Chimes. Selected gramophone recordings.

11.12: Lecturette-"Fashions."

12.0 : Lunch hour music.

2.0 : Selected recordings.

3.30 and 4.30: Sporting results to hand.

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

6.0 : Dinner music session (Parlophone). Karol Szreter, pianoforte with Berlin State Opera House Orchestra,

Karol Szreter, pianoforte with Berlin State Opera House Orchestra, "Suite Orientale" (Popy) (A3058).

Dajos Bela Orchestra, "You and You" Waltz (Strauss) (A4080).

Sandor Joszi Orchestra, "The Hobgoblin's Story" (Brecht) (A3027).

Orchestra Opera Comique, Paris, "Manon" Ballet Music (Massenet).

Dajos Bela Orchestra, "Wiener Blut" (Strauss) (A4095).

Berlin State Opera Orchestra, "Dance of the Hours" (Ponchielli)

(A4144); "Norma" Overture (Bellini) (A4146); "Slavonic Dances

Nos. 8 and 16" (Dvorak) (A4171).

Dajos Bela Orchestra, "Gipsy Love" Waltz (Lehar) (A4080).

Berlin State Opera House Orchestra, "La Traviata" Prelude (Verdi).

Dajos Bela Orchestra, "Voices of Spring" (Strauss) (A4095).

Sandor Joszi Orchestra, "An Eastern Wedding" (Prychistal) (A3027).

News session, market reports and sports results.

7.0: News session, market reports and sports results.
7.40: Lecturette—Dr. J. Gibb, "Disarmament Conference."

8.0 : Chimes. Relay from the Town Hall of the Ninth Night of the Wellington Competition Society's 1931 Festival.

9.30: Dance music programme (Brunswick)-Foxtrots-Tom Gerun and His Orchestra, "What Good Am I Without

You?" (Ager) (4999).

Foxtrots—Hal Kemp and His Orchestra, "He's Not Worth Your Tears"

Ben Bernie and His Orchestra, "He's Not Worth Your Tears"

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "It Must Be True" (Arnheim) (4984).

Ben Bernie and His Orchestra, "The Wind in the Willows".

9.42: Waltz—Regent Club Orchestra, "It Is Destiny" (Grey) (6000).

Foxtrots—Hal Kemp and His Orchestra, "Them There Eyes" (4992).

Harry Reser and The Six Jumping Jacks "The Wodding in 9.42: Waltz—Regent Club Orchestra, "It Is Destiny" (Grey) (6000).

Foxtrots—Hal Kemp and His Orchestra, "Them There Eyes" (4992).

Harry Reser and The Six Jumping Jacks, "The Wedding in the Ark" (Wallace) (6007).

9.51: Vocal—North and South, "Barracky Bert the Soldier" (Parlo. A3121).

9.54: Foxtrots—Ben Bernie and His Orchestra, "Can't You See I'm Lonely?" Earl Burtnett and His Los Angeles Biltnore Hotel Orchestra, "The Little Things in Life" (Berlin) (4984).

Hal Kemp and His Orchestra, "Hurt" (Piantadosi) (4992).

10.3: Tangos—Juan Llossas Orchestra, "Tavern Tango" (Mario Sarrocchi) (Poly. 22425); "On Far Away Highroads" (Filiberto) (Poly. 22983)

10.9: Vocal—Chester Gaylord, "You're Lucky to Me" (Razaf) (6010).

10.12: Foxtrots—Tom Gerun and His Orchestra, "Nine Little Miles from Ten-Ten-Tennessee" (Sherman) (Bruns. 4999).

Isham Jones's Orchestra, "Lonesome Lover" (Bryan).

Emil Coleman and His Orchestra, "Overnight" (Rose).

10.21: Waltzes—Bob Haring and His Orchestra, "Overnight" (Rose).

10.27: Foxtrots—Ben Bernie and His Orchestra, "Just a Gigolo" (Gasucci) (6023); "Everything But Love" (Kahn) (6025).

Ben Bernie and His Orchestra, "The River and Me" (Dubin),

10.36: Vocal—North and South, "Sittin" on a Five-Barred Gate" (Parlo.).

10.39: Foxtrots—Emil Coleman and His Orchestra, "I Love Love" (O'Keefe).

Abe Lyman and His California Orchestra, "Us and Company" Tangos—Juan Llossas' Orchestra, "Majanah" (Llossas) (22425); "Caragators and the Company" (Temare) (22983).

Tangos—Juan Llossas' Orchestra, "Majanah" (Llossas) (22425); "Carnations" (Demare) (22983)

Foxtrots—Tom Gerun and His Orchestra, "Come a Little Closer."

10.51: Foxtrots-Abe Lyman and His California Orchestra, "As Long As We're Together" (Bard) (4993).
Tom Gerun and His Orchestra, "You're the One I Care For."

11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, AUGUST 28.

\$.0 : Gramophone recital.

4.25: Sports results.

5.0 : Children's hour.

6.0 : Dinner music session (Polydor)-Paul Godwin's Dance Orchestra, "Medley of Popular Student Songs," Paul Godwin's Quintet with harp—"Extase—Reverie" (Ganne).
Paul Godwin's Orchestra, "Poranek Waltz" Intermezzo (Lindsay).

Organ-Leo Stin, "Chanson Hindone" (Rimsky-Korsakov) (23165). Polydor Orchestra, "Concou-Imitative Waltz" (Jonasson) (23563). Paul Godwin's Orchestra, "In the Rosary" (Bialezki) (21005); "Tin Soldier's Parade" (Jessel) (19659).

Berlin State Opera House Orchestra, "Introductions Act. 1, 2 and 3" (from "Carmen") (Bizet) (27190).

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

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

Organ-Leo Stin, "Werther" (Massenet) (28165).

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

Paul Godwin's Dance Orchestra, "Siamese Parade" Fantasy. Polydor Orchestra, "Valse Poudree" (Popy) (23563).

7.30: Dialogue—Messrs. D. Cossgrove and W. Melbourne, "Radio Service."
8.0: Chimes. Overture—Debroy Somers Band, "The Singing Fool."
8.8: Baritone—Mr. Leslie A. Stewart with Octet accompaniment, "The Des-

ert Song" (Romberg).

8.11: Piano duets—The Popular Players, (a) "Polonaise Joyeuse" (Krentz-lin), (b) "Iris—Intermezzo" (Renard).

1.12: All Popular Players, (a) "The Val-

8.17: Soprano—Mrs. L. B. Salkeld with Octet accompaniment, (a) "The Valley of Laughter" (Sanderson), (b) "I Love a Little Cottage."

8.23: March—Studio Octet (Harold Beck Conductor) (a) "The London Scottish" (Haines), (b) Overture, "Comrades in Arms."

8.36: Tenor—Mr. Jas. Shaw with Octet accompaniment, (a) "Yes, Let Me Like a Soldier Fall" (from "Maritana") (Vincent Wallace); (b) "Invictus" (Hubb) "Invictus" (Huhn).

"Invictus" (Huhn).

8.42: Organ—Reg. Foort, "A Musical Trip Round the British Isles."

8.50: Humour in song and story—Mr. Geo. Titchener, (a) "Harmonica Harry" (Baxter), (b) "Give Yourself a Pat on the Back."

8.58: Band—Banda Marrazini, (a) "Un Saluto A Serino," (b) "I Saprente."

9.4: Evening weather forecast and station notices.

9.6: Male quartet—The Kedroff, (a) "Two Russian Folk Songs" (Kedroff and Galtchaninoff), (b) "Valse" (Vogel) (Col. 01036).

9.10: Plano duets—The Popular players—(a) "Sweden" (National Dance) (Rakoff), (b) "La Capriccieuse" Valse (Eggeling).

9.18: Baritone—Mr. Leslie A. Stewart with Octet accompaniment, (a) "Cloze

(RAKOH), (D) "La Capriccieuse" valse (Eggeling).

9.18: Baritone—Mr. Leslie A. Stewart with Octet accompaniment, (a) "Cloze Props" (Charles), (b) "Goblin Blues" (Monte Carlo).

9.24: Popular melodies—Stutio Octet, (a) "Here We Are" (Romberg), (b) "When I Take My Sugar to Tea" (Fain).

9.30: Soprano—Mrs. L. B. Salkeld with Octet accompaniment, "Just For Today" (Seaver).

9.36: Novelty—Tom Katz Saxophone Band, "Popular Songs Medley."
9.43: Tenor—Mr. Jas. Shaw with Octet accompaniment, "There's a Land."
9.47: Humour in song and story—Mr. Geo. Titchener, "'Ard Up and 'Appy."
9.51: Selection—Studio Octet, "Florodora" (Leslie Stuart).
10.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, AUGUST 28.

8.0 : Selected recordings.

5.0 : Children's hour, conducted by Aunt Sheila.

6.0: Uninter music session (Polydor)—
Philharmonic Orchestra, Berlin, "Les Huguenots" Overture.
Paul Godwin's Quartet, "Beautiful Garden of Roses" (Schmidt).
State Opera Orchestra, Berlin, "German Dances" (Schubert) (66458).
Polydor Symphonic Orchestra, "Hear You Again" Medley (Weninger).
Association des Concerts Lamoureux, Paris, "Petite Suite" (Debussy):

(1) En Bateau; (2) Cortege; (3) Menuet; (4) Ballet (66958-9).

Paul Godwin's Quartet, "Le Reve" (D'Ambrosio) (19532).

Philharmonic Orchestra, Berlin, "Emperor Waltz" (Strauss) (19949).

70 : News session.

7.40: Talk—Dr. Duncan Cook, under auspices of Department of Health, "Short Circuits in Nature."

8.0 : Chimes. Overture—Regal Cinema Orchestra, "Show of Shows" Selection (Col. 05086).

8.9: Mixed Quartets—The Harmonists, (a) "Low-Backed Car," (b) "She Is Far From The Land" (Trdtl.)
8.15: Humour—Miss Eva M. Holland, "Big Game."
8.21: Selection—Signora Martinelli-Reggiardo's Orchestra, "A Waltz Dream"
8.33: Baritone—Mr. C. S. Hawes, (a) "Temple Bells," (b) "Till I Awake."
8.39: The Balalaka Orchestra—(a) "Immer Lustig," (b) "The Red Saraford" (trdt) (Poly 2087)

s.5: The Banataka Orchestra—(a) Thinker Edistig, (b) The Red Sar fan" (trdtl.) (Poly. 20587). 8.45: Quartet—The Harmonists, "Three Fishers Went Sailing" (Hullah). 8.49: Selection—The Orchestra, "Stradella" (Flotow).

9.0: Evening weather report and station notices.
9.2: Accordion—Jean Vaissade, (a) "Couscous" (Latoire), (b) "The Secret of Night" (Vaissade) (Poly. 23616).
9.8: Soprano—Miss Mae Matheson, "I Dreamt That I Dwelt in Marble Halls" (Balfe).

Quartet—The Harmonists, "Hunting Song" (Benedict).

9.14: Suite—The Orchestra, "My Lady's Boudoir" (Moore): (1) "Chiffon";

(2) "Perfume"; (3) "High Heels and Buckles."

9.28: Chorus—The Sieber Choir (a) "The Mill in the Black Forest" (Blank-Markett Markett Mark

enburg), (a) "Faust" Waltz (Gounod) (Parlo. A4264).

9.36: Humour—Miss Eva M. Holland, "Wodehouse Up-To-Date" (Evoe).

9.42: Czardas—The Orchestra, "The Gypsy's Wooing" (Trinkaus).

9.50: Quartet—The Harmonists, "Farewell! But Whenever" (trätl.).

9.54: Selection—The Orchestra, "Hungarian Lustspiel" (Kela Bela).

10.4 ; God save the King.

Saturday, August 29

1YA, AUCKLAND (875 KILOCYCLES)—SATURDAY, AUGUST 29.

3.0 : Chimes. Relay of description of Rugby Football Match from Eden Park. Representative match-Auckland versus Thames.

5.0 : Children's session, conducted by Cinderella.

5.0: Children's session, conducted by Cinderella.
6.0: Dinner music session (Polydor)—

Berlin Philharmonic Orchestra, "Torch Dance B Flat Major" (27033).

Ilja Livschakoff and His Orchestra, "Aubade" (Livschakoff) (23048).

Paul Godwin's Orchestra, "Evening Chimes" (Marzian) (23168).

Vienna Schrammel Quartet, "Some Day" (from "Marietta") (Strauss).

Efim Schachmeister's Dance Orchestra, "Casanova, I Love You" Tango.

Ilja Livschakoff and His Orchestra, "Little Serenata" (Grunfeld)

(23048); "What Has Filled Our Hearts With Love?" (Lehar).

Paul Godwin's Orchestra, "The Mask Seller" (Wolff) (22893).

Vienna Schrammel Quartet, "Spin, Spin" (Lochmann) (21915).

Symphony Orchestra, "Il Gnarany—Introduction" (Gomes) (P60006).

Paul Godwin's Orchestra, "Song of the Desert" (Delhaes) (22393);

"Tonerna" (Sjoberg) (22163).

Efim Schachmeister's Dance Orchestra, "At the Firoside" (21181).

Efim Schachmeister's Dance Orchestra, "At the Fireside" (21181). Paul Godwin's Jazz Symphonians, "Butterfly, Sweet Little Lady." Ilja Livschakoff and His Orchestra, "All My Heart Belongs to You."

7.0 : News and market reports.

7.40: Talk—"Direction Finding and Auto Alarm as Aids to Navigation," under the auspices of the New Zealand Amateur Radio Transmitters' Association.

Association.

8.0: Chimes, Overture—Barnabas von Geczy and His Orchestra, "Strauss Waltz" Medley (Strauss) (Parlo, A4126).

8.9: Soprano—Miss Lillian Woods, with orchestral accompaniment, "Waltz Song" (from "Tom Jones") (German).

8.13: Accordion—Morceaux, (a) "Down South" (Myddleton); (b) "Old Comrades" (Teike) (Parlo, A3130).

8.19: March—Salon Orchestra (Conductor, Mr. Harold Baxter), "Youth" (Lautenschlager); ballet, "Coppelia" (Delibes).

8.33: Tenor—Mr. Lambert Harvey, "Edward Gray" (Sullivan). Yogal duet—Miss Lillian Woods and Mr. Lambert Harvey. "Somewhere

Vocal duet—Miss Lillian Woods and Mr. Lambert Harvey, "Somewhere a Voice is Calling" (Tate).

8.40: Banjo—Ernest Jones, (a) "The Kilties," (b) "Return of the Regiment."

8.46: Serenade—Salon Orchestra, "Les Deux Pierrots" (Drigo); tango,
"Argentino" (Clique).

8.54: Humanu—Stepley Hollogrey "Old Saw" (Tollogrey) (Col. Nov. 17)

8.54: Humour—Stanley Holloway, "Old Sam" (Holloway) (Col. DOX147).
9.0: Evening weather forecast and announcements.
9.2: A sea story—"Lee Fore Brace," "Posted Missing" (original).
9.17: Selection—Salon Orchestra, "Katinka" (Friml); morceaux, "Dream" Garden" (Raynes).

9.29: Tenor, with orchestral accompaniment—Mr. Lambert Harvey, "Sleep and the Roses" (Tate).

and the Roses" (Tate).

9.33: Orchestral—Herman Darewski's Ball Room Orchestra, "Old-Fashioned Dances" (Parlo. A3054).

9.39: Soprano—Miss Lillian Woods, with flute obbligato, "Bird of Blue." Duet—Miss Lillian Woods and Mr. Lambert Harvey (with orchestral accompaniment), "Maying" (Smith).

9.46: Morceau—Salon Orchestra, "Mannikins" (Fletcher); waltz, "April" (Ancliffe); orchestral, "The Coon's Patrol" (Lotter).

10.0: Programme of dance music (Polydor)—
Foxtrots—Marimba Original Excelsior de Guatemala, "Hula Tropical." Ilia Livschakoff's Dance Orchestra. "I am so Haddy" (May)

Ilja Livschakoff's Dance Orchestra, "I am so Happy" (May)
Paul Godwin's Dance Orchestra, "Just Such a Giri" (23361).
10.9: Waltz—Paul Godwin's Dance Orchestra, "Pardon, Madame" (23398).

10.9: Waltz—Paul Godwin's Dance Orchestra, "Parton, Maname" (2538).

10.12: Foxtrots—Marimba Original Excelsior de Guatemala, "Llorando."

Paul Godwin's Orchestra, "Victoria and Her Hussar" (Abraham) (23399); "The Broken Record" (Howalt) (23176).

10.21: Vocal—Don and Ken, "Sunny Days" (Jason) (Parlo. A3106).

10.24: Tangos—Ilja Livschakoff's Dance Orchestra, "O Miss Daisy" (Llossas)

Paul Godwin's Dance Orchestra, "Poor Little Mannequin."

Paul Godwin's Dance Orchestra, "Poor Little Mannequin."

Ilja Livschakoff's Dance Orchestra, "Queen of Dreams."

10.33: Waltzes—Paul Godwin's Dance Orchestra, "Under the Roofs of Paris"

(Moretti) (23644); "Good Night!" (Abraham) (23388),

10.39: Vocal—Don and Ken, "Roamin' Thru' the Roses" (O'Flynn).

10.42: Foxtrots—Ben Berlin and His Orchestra, "Fairy on the Clock."

Paul Godwin's Dance Orchestra, "Mickey Mouse" (Carlton).

Ben Berlin and His Orchestra, "Clown Dolly" (Rust).

10.51: Tangos—Ilja Livschakoff's Dance Orchestra, "Don't You Want a Friend,

Little Madam?" (Meisel) (28334).

Little Madam?" (Meisel) (23334).

Paul Godwin's Dance Orchestra, "Thus Spoke the Knowing Marabu" (Egen) (23397); "A Sweetheart as Sweet as You Are" (Meisel) (23354).

11.0 : Sports summary. 11.10: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, AUGUST 29.

3.0 : Relay of Rugby football match from Athletic Park.

: Children's session, conducted by Aunt Molly.
: Dinner music session (H.M.V.)—

Philadelphia Symphony Orchestra, "Damnation of Faust—Marche non-groise" (Berlioz) (ED7).

New Light Symphony Orchestra, "The Waltzing Doli" (Poldini).

International Novelty Quartet, "Teddy Bears' Picnic" (Bratton).

New Mayfair Orchestra, "Wake Up and Dream" Selections (Porter). Organ-Edward O'Henry, "Just As We Used To Do" (Rulli) (B8428),

Salon Orchestra, "Chanson Boheme" (Boldi) (B2581). Marimba Band, "Morales Lopez" (Bolanos) (Zono, EE207). De Groot's Piccadilly Orchestra, "Friend O' Mine" (Sanderson). De Groot's Piccadilly Orchestra, "Friend O' Mine" (Sanderson).

International Novelty Quartet, "The Skaters" Waltz (Waldteufel).
National Military Band, "Lohengrin" Prelude (Wagner) (Zono, A258)
Berlin State Opera Orchestra, "Der Rosenkavalier" Waltz (Strauss).
New Light Symphony Orchestra, "At Dawning" (Cadman) (B2629).
Philadelphia Symphony Orchestra, "Samson and Delilah" Bacchanale.
Salon Orchestra, "Aloha Sunset Land" (Kawelo) (B2581).
Marimba Band, "Aguas Dormides" (Bolanos) (Zono, EE207).
Organ—Edward O'Henry, "Dream Lover" (Schertzinger) (B3428).
De Groot's Piccadilly Orchestra, "None But The Weary Heart."

7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. W. M. Jackson. "Gardening Hints."
8.0: Chimes. Relay from the Town Hall of the Demonstration Concert of the Wellington Competitions Society's 1931 Festival.

10.0 : Dance programme (Columbia)-Foxtrots-Jack Payne and His B.B.C. Dance Orchestra, "The Punch and Judy Show" (Black) (DO33).
O'Leary's Irish Minstrels, "The Pigeon on the Gate" (Regal G20628). Jack Payne and His B.B.C. Dance Orchestra, "Crazy Pirouette." Waltz-O'Leary's Irish Minstrels, "My Wild Irish Rose."

10.12: Foxtrots-Ray Starita and His Ambassadors Band, "My Dream Memory" (Clare) (01815).

Jan Garber and His Orchestra, "When a Woman Loves a
Man" (Rainger) (DO88).

Vocal—Len Maurice, "A Little Kiss Each Morning" (Woods).

10.21: Foxtrots—The Four Bright Sparks, "Hard To Get" (Meyer) (DO19).

Ben Selvin and His Orchestra, "How am I to Know?"

Guy Lombardo and His Royal Canadians, "Singin' in the

Bathtub" (Magidson) (01880).

10.30: Waltz—Will Osborne and His Orchestra, "There Will Never Be An-

other Mary" (Ager) (01919).

Foxtrots—Guy Lombardo and His Royal Canadians, "A Little Kiss Each Morning" (Woods) (01815); "Under a Texas Moon" (Perkins) (DOSS).

10.39: Vocal—Len Maurice, "Gay Love" (Clare) (01902).

Waltzes—Paul Whiteman and His Orchestra, "It Happened in Mont-

terey" (Yellen) (07036). Moana Orchestra, "My Hawaiian Isles" (Noble) (DO101).

Moana Orchestra, "My Hawahan Isles" (Noble) (DO101).

The Four Bright Sparks, "The Kerb Step" (Knox) (DO19).

Paul Whiteman and His Orchestra, "Song of the Dawn."

Moana Orchestra, "Dreamy Hula Town" (Collins) (DO101).

Ted Lewis and His Band, "Lady Luck" (Perkins) (01880).

11.0 : Sporting summary. 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, AUGUST 29.

2.50: Relay of description of Rugby League football from Monica Park.

5.0 : Children's hour. 6.0 : Dinner music session (Columbia)-

Albert Sandler and His Orchestra, "For You Alone" (Geehl) (01912). J. H. Squire's Celeste Octet, "Hungarian Dance in A Minor" (Brahms).
Milan Symphony Orchestra, "Semiramide" Overture (Rossini). Milan Symphony Orchestra, "Semiramide" Overture (Rossini).
Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures."
Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
Eddie Thomas's Collegians, "The Missouri Waltz" (Logan) (02553).
Gil Dech Ensemble, "Valse Parisienne" (Roberts, arr. Barry). (01923).
Debroy Somers Band, "Mister Cinders" Selection (Ellis and Myers).
Charles Ancliffe and His Orchestra, "Ancliffe Waltzes" (DOX 29).
Organ—Emil Velazco, "Estrellita" (Ponce) (01795).
Albert Sandler's Orchestra, "Salut d'Amour" (Elgar) (01912).

I H Sandler's Celesta Octat "Hungarian Dance in D" (Brahms). Albert Sandier's Orchestra, "Salut d'Amour (Eigar) (1912).

J. H. Sandier's Celeste Octet, "Hungarian Dance in D" (Brahms).

Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey) (DOX 21)

Bournemouth Municipal Orchestra, "Echoes of the Valley" (Genuin).

Gil Dech Ensemble, "Italian Nights" (Roberts) (01923). News session.

: Sports results.

7.3. Sports results.
7.45: Talk—Prof. R. Speight, "Flightless Birds," under the auspices of the New Zealand Native Bird Society.

8.0 : Chimes. Relay of programme from 4YA, Dunedin.

10.0 : Dance music programme (H.M.V.)-

Foxtrots—Victor Arden, Phil Ohman, and Their Orchestra, "How Am I To Know?" Parker) (EA700).

Arcadians Dance Orchestra, "Pepita" (Mascheroni) (Zono.)
Bernie Cummins and His New Yorker Hotel Orchestra,

"Livin' in the Sunlight—Lovin' in the Moonlight," The Rhythmic Eight, "Figaro" (Mitchell) (Zono, EE211).

The Rhythmic Eight, "Figaro" (Mitchell) (Zono, EE211).

10.12: Waltz—Jean Goldkette and His Orchestra, "Can You Blame Me?"
Foxtrots—Henry Busse and His Orchestra, "I Came to You" (EA700).
Gus Arnheim and His Orchestra, "I'm Feathering a Nest."

10.21: Vocal—Olga Albani, "It's You I Love" (Davis) (EA782).

10.24: Foxtrots—New Mayfair Dance Orchestra, "There's Room in My Heart" (Gibbons) (EA693); "Cuban Nights" (Salvato) (B5808); "I'll Be Getting Along" (Gibbons) (EA693).

Waltz—Bob Haring and His Orchestra, "By and By, Sweetheart."

10.36: Foxtrots—Nat Shilkret and His Orchestra, "Congratulations" (EA737)
New Mayfair Dance Orchestra, "Cuckoo in the Clock."
George Olsen and His Music, "The Moon is Low" (Freed).

10.45: Vocal—Grace Hayes, "On the Sunny Side of the Street" (Fields).

10.45: Vocal-Grace Hayes, "On the Sunny Side of the Street" (Fields).

10.48: Foxtrots-The High-Hatters, "You Brought a New Kind of Love to Me" (Kahal) (EA761).

Nat Shilkret and His Orchestra, "Into My Heart" (Turk). Herman Klenin and His Orchestra, "I'm Doing What I'm Doing for Love" (Yellen) (EA745).

Nat Shilkret and His Orchestra, "Dark Night" (Grey).

11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, AUGUST 29.

3.0 Relay of Association football match from Logan Park, Dunedin.

5.0 : Children's hour, conducted by Aunt Anita.

6.0 : Dinner music session Parlophone)-The Parlophone Salon Orchestra, "A Lover in Damascus." Berlin State Opera House Orchestra, "Slavonic Dances Nos. 1 and 2." Berlin State Opera House Orchestra, "Slavonic Dances Nos. 1 and 2." Edith Lorand's Orchestra, "Whispering of the Flowers" (Von Blon). H.M. Irish Guards Band, "The Desert Song" (Romberg) (A2433). Edith Lorand's Orchestra, "Hedgeroses" (Lehar) (A4206); "Johann Strauss Fantasta" (Strauss) (A4044). Barnabas von Geczy and His Orchestra, "The Student Prince." Edith Lorand's Orchestra, "Winter Storms" Waltz (Fucik) (A4143); "O Maiden, My Maiden" (Lehar) (A4206). Grand Symphony Orchestra, "Dance of the Waves" (Catalani). News session

7.0 : News session.

8.0 : Chimes. Overture—Piccadilly Players, "Follow Through" (De Sylva).

8.9 : Quartets—Regal Four, (a) "The British Grenadiers"

"The Tarpaulin Jacket" (Coot).

8.16: Selection—Salon Orchestra, "Sunny" (Kern).

8.28: Humour—Mr. B. Brown, (a) "Inverarie," (b) "We A' Go Hame The Same Way" (Lauder).
8.33: Piccolo with Orchestra.—Mr. J. Kenderdine, "The Chant of the Night-

ingale" (Philossky).
8.39: Quartets—Regal Four, "Two Sea Songs": (1) "The Mermaid"; (2),
"A-Rovin" (Shanty) (trdtl.).

8.46: Selection—Salon Orchestra, "Rio Rita" (Tierney). 8.54: Song, dance and patter—"The Radiettes," "I Fell Head Over Heels in

Love" (Thayer). 8.57: Contralto—Miss Bertha Rawlinson, "Achal by the Sea" (Lawrence).

9.0 : Evening weather report and station notices.

9.2 : Humour-Wm. McCulloch, "The Presentation of Prizes."

9.1: Quartets-Regal Four, "Two Hunting Songs": (1) "John Peel" (Tait);

9.1: Quartets—Regal Four, "Two Hunting Songs": (1) "Joint Feet" (Tait),
(2) "Drink, Puppy, Drink" (J.K.L.).
9.16: Selection—Salon Orchestra, (a) "Russian Medley" (Geiger); (b)
"Knights of the King" (Ketelbey).
9.24: Accordion duo—Gellin and Borgstrom, (a) "Darby and Joan" Waltz
(Gilbert), (b) "Rio Negro" Tango (Jaurez) (Poly. 2238).
9.30: Song, dance and patter—"The Radiettes" (a) "I Want a Little Girl"
(Mencher), (b) "Who Wants The Moon?" (Hare).

9.36: 'Cello with Orchestral accompaniment-Miss V. Moffatt, "Air De Bal-

let" (Massenet).

9.39: Humour-Mr. B. Brown, "It's a Fine Thing To Sing" (Lauder).

9.43: Selection-Salon Orchestra, "America" (Winterbottom).

9.55: Quartets—Regal Four, "Two Folk Songs": (1) "Die Lorelei" (Silcher),
(2) "The Spanish Guitar" (W.J.H.).

10.0 : Dance programme (Brunswick) Foxtrots-Jacques Renard and His Orchestra, "Tie a Little String Around Your Finger" (Simons) (6032).

Nick Lucas and His Crooning Troubadours, "Say Hello To The Folks Back Home" (Lombardo) (6013). Jacques Renard and His Orchestra, "I Hate Myself."

Jacques Renard and His Orchestra, "I Hate Myself."

10.9: Waltz—Jacques Renard and His Orchestra, "Reaching For The Moon."

10.12: Foxtrots—Hal Kemp and His Orchestra, "Think a Little Kindly Of Me" (Johnson) (6056).

Isham Jones' Orchestra, "I'm So Afraid Of You" (Kalmar).

10.18: Vocal—Harry Richman, "When Your Lover Has Gone" (Swan).

10.21: Foxtrots—Isham Jones' Orchestra, "My Ideal" (Robin) (6041).

Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "I Surrender Dear" (Clifford) (6034).

Ben Bernie and His Orchestra, "To-morrow Is Another Day"
10.30: Waltzes—Nick Lucas and His Crooning Troubadours, "Falling In Love Again" (Hollander) (6048). Carter's Orchestra, "The Waltz of the Hills" (Fields).

10.36: Foxtrots—Nick Lucas and His Crooning Troubadours, "Lady Play Your Mandolin" (Levant) (6013): "Walkin' My Baby Back Home" (Turk) (6048)

Carter's Orchestra, "When the Bloom is on the Sage."

10.45: Vocal—Harry Richman, "Just a Gigolo" (Caesar) (652).
10.48: Foxtrots—Hal Kemp and His Orchestra, "I Want You For Myself." Earl Burtnett and His Los Angeles Biltmore Hotel Orchestra, "To Make a Long Story Short" (Gay) (6034). Ben Bernie and His Orchestra, "Liza Lee" (Green). Jacques Renard and His Orchestra, "Heartaches."

11.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)-SATURDAY, AUGUST 29.

2.50 to 4.30 p.m. (approx.): Sports relay. 6.30 to 7.30 p.m.: Children's session

7.30 to 9.0 p.m.: Sports results and talks. 8 to 10 p.m.: Concert and dance programme, with sports results.

Sunday, August 30

IYA, AUCKLAND (875 KILOCYCLES)—SUNDAY, AUGUST 30.

8.0 : Chimes. Selected recordings and relay of portion of Organ Recital by the City Organist, Mr. Maughan Barnett, from the Auckland Town Hall.

6.0 : Children's Song Service, conducted by Uncle Bert.

7.0 : Relay of Divine Service from the Salvation Army Citadel. Preacher, Ensign Thorne.

(approx.): Orchestral—Grand Symphony Orchestra, "Suite Orientale" (Popy): (1) "Les Bajaderes," (2) "Au Bord Du Gange," (3) "Les Almees," (4) "Patrouille" (Parlo. A4155/6). Instrumental-Miss Maida Hooker and Mr. Haydn Murray, Sonata for Piano and Violin, Op. 12, No. 12, 1st. Movt. "Allegro Vivace";

2nd Movt. "Andante Piu Tosto Allegretto" (Beethoven) Mezzo-soprano-Miss Berta Carr, (a) "Charmant Papillon" (Old French); (b) "When the Dew is Falling" (Parry); (c) "Chanson de L'Adieu" (Chaminade).

Instrumental-Miss Maida Hooker and Mr. Haydn Murray, Sonata for Piano and Violin, Op. 12, No. 2, 3rd Movt, "Allegro Piacevole."

Evening weather forecast and announcements.

Byeining weather torecast and amountements.

Baritone—Mr. J. Church, (a) "Prince Ivan's Song" (Allitsen); (b) "The Diver" (McMillan).

Piano—Mr. Cyril Towsey, "Holberg Suite" (Grieg).

Soprano—Miss Dorothy Lovelace Milne, (a) "Nobody Knows de Trouble I've Seen," (b) "Tis Me, O Lord" (arr. Burleigh).

Tre Seen," (b) ""Its Me, O' Lord" (arr. Burleigh).
Orchestral—Berlin State Opera Orchestra, "La Traviata Prelude."
Baritone—Mr. J. Church, "The Watchman" (Squire).
Violin—Alexander Sebald, "Obertass Mazurka" (Wieniawski).
Soprano—Miss Dorothy Lovelace Milne, (a) "Comme a Vingt Ans"
(Durand); (b) "Chanson de Florian" (Godard).
March—Massed Military Bands, "1001 March" (Blankenburg).

God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, AUGUST 30.

8.0 : Selected gramophone recordings.

6.0 : Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from the Island Bay Baptist Church.

7.0: Relay of Evening Service from the Baptist Church, Vivian Street, Wellington. Preacher, Rev. L. J. Boulton Smith. Organist, Mr. Chas. Collins.

8.15 (approx.): Relay of Concert by the Port Nicholson Silver Band from the Grand Opera House (Conductor, Mr. J. J. Drew). God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)-SUNDAY, AUGUST 30.

3.0 : Gramophone recital.

5.30: Children's Song Service. 6.15: Chimes from studio.

6.30: Selected recordings.

7.0 : Relay of Evening Service from Christchurch Anglican Cathedral. Preactier, Very Rev. Dean Julius. Organist and Musical Director, Dr. J. C. Bradshaw.

(approx.): Studio programme.

Orchestral—Berlin State Opera Orchestra, "Aida" Selection (Verdi). 8.28: Tenor—Mr. W. Harold Prescott, with octet accompaniment, (a) "Dreams

of Long Ago" (Caruso); (b) "I Love to Hear you Singing."
8.34: Orchestral—Studio Octet, "Fingal's Cave" Overture (Mendelssohn).
8.42: Contralto—Miss Belle Renaut, with octet accompaniment, (a) "To
Music" (Schubert); (b) "The Nut Tree" (Schubert); (c) "Ich

Grole Nacht" (Schumann).

8.48: Violin—Vasa Prihoda, (a) "Chant Hindou" (Rimsky-Korsakov); (b) "Salut D'Amour" (Elgar) (Poly. 95369).

8.56: Baritone—Mr. A. G. Thompson, with octet accompaniment, (a) "The Curfew" (Monk Gould); (b) "Home, Little Maori, Home" (Hill).

9.2: Evening weather forecast and station notices,
9.4: Talk—Mr. E. Iveagh Lord, "The Story of the Golden Coast" (Continued)
9.19: Tenor—Mr. W. Harold Prescott, with octet accompaniment, (a) "Cujus Animam" (from "Stabat Mater") (Rossini); (b) "Eileen Alan-

Animam" (from "Stabat Mater") (ROSSIM); (b) RAIGER AMBRITAIN (Thomas).

9.27: Organ—Leo Stin, "Peer Gynt Suite, No. 1" (Grieg): (a) "Morning," (b) "Death of Ase" (Poly. 23163).

9.33: Contralto—Miss Belle Renaut, with octet accompaniment, (a) "Only the Desolate" (Tschaikowsky); (b) "Evening Boat Song."

9.39: Organ—Leo Stin, "Peer Gynt Suite, No. 2" (Grieg): (a) "Anitra's Dance," (b) "Solveig's Song" (Poly. 23164).

9.45: Orchestral—The Studio Octet, (a) "Turkish March," (b) "Andante from 1st Symphony" (Beethoven); (c) "In Autumn" (Macdowell).

9.53: Baritone—Mr. A. G. Thompson, with octet accompaniment, (a) "Ship-

9.53: Baritone—Mr. A. G. Thompson, with octet accompaniment, (a) "Shipmates of Mine" (Sanderson); (b) "The Golden Hour" (Chaminade)

9.58: Selection—Band of H.M. Royal Horse Guards, "Gallantry" (Ketelbey). 10.1 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, AUGUST 30.

3.0 : Selected recordings.

5.30: Children's Song Service, conducted by Big Brother Bill.

6.15: Instrumental recordings.

6.30: Relay of evening service from First Presbyterian Church, Dunedin, Preacher, Rev. W. Allen Stevely, M.A. Organist, Dr. V. E. Galway.

7.45: Selected recordings.

8.15: Relay of concert programme from 3YA, Christchurch,

10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, AUGUST 30.

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

Our Mailbag

(Continued from page 9.)

The signals from that station thing. miles. will be received better at greater distances and also at less distances." The correspondent thinks that this paragraph M.Z.M. (Lower Hutt): I have a fivewill interest others similarly situated.

The News Sessions.

T HEARTILY disagree with "Eos" in his suggestion re improvement of programmes. Firstly, let us take the news and reports session. There are programmes. hundreds of country listeners who only numerous of country listeners who only receive the daily papers once or twice weekly. Surely these people must appreciate this session. If "Eos" finds this session objectionable he can tune in a "B" station; there are many of them who broadcast music during this hour. I agree with "Ricky" and others con-I agree with "Ricky" and others con-cerning YA stations broadcasting the same class of matter simultaneously, Some same class of matter simultaneously. Some alterations are surely needed. Although not a "jazz king," I don't understand why "jazz lovers" should have to wait until the close of the evening session before this music is put over. Surely one station nightly should begin with an hourly session of dance music. It is quite time the Broadcasting Company altered this obvious mistake.—DX17MC.

Alternative Power Wanted.

BOTH the Broadcasting Company and the Government have mooted proposals for relay stations at various points, you to wait for a little while, say a month, the Government have mooted proposals for relay stations at various points, apparently quite forgetting the heterodyne whistles. Only last week 1YA had to shift its wave as a result of interference from an Australian station. The system low-powered relay stations has been thrown out in England in favour of a few high-powered transmitters. It has been pointed out the high-powered 2YA has not served the Dominion as intended, but then no one with much experience would have expected a station with an output of only 5 k.w. to give with an output of only 5 k.w. to give satisfaction over the whole country. The position would be entirely different if the other three stations were increased to 5 k.w. Although 2YA would not be any better here, we would probably be quite adequately served by one of the others. SYA, for instance, is the best of the stations here, and judging from present volume a tanfold increase. from present volume a tenfold increase in power would possibly serve our district O.K. Another scheme would be to reconstruct the stations for 100 per cent modulation, which would increase the efficiency fourfold. Still another alternative would be duel transposition. alternative would be dual transmission from one station at least. One has only to learn of the striking manner in which the low-powered amateur stations cover the whole Dominion with telephony to get some idea of the boon which would be conferred on listeners with an alter-native high-power short-wave station. native high-power short-wave station. The efficiency of our YA stations also suffers through their being erected, in most cases, right in the towns. Above all, listeners should do everything to keep the service out of the hands of the Government. Many reasons can be given for that statement, but it will suffice to point out thet the temptaking suffice to point out that the temptation to conserve the bounties which Nature to raid the funds for taxation purposes has provided; and also by research the English Government derives a handsome income from that portion of listems in nature, that the dangers may teners licenses which they retain.—Civis.

Ouestions and Answers

(Continued from page 15.)

give it a strong charge before you do any-To take a battery down uncharged is fatal.

valve battery set and would like to know if it would be worth while fitting an eliminator to do away with the "B" battery? If so, what is a reliable make?

A.: For the five-valve battery set you need an eliminator that will give you about 150 volts and 20 or 25 mamps. There are several well-known makes now There are several well-known makes now available and we noticed some advertised in the "R.R." recently. However, there are many good makes to choose from. Just make certain that you get 150 volts and 25 or 30 mamps. It will certainly improve your set a great deal.

MARSITE (Te Aroha): I have built a five-valve all-electric set and wish a nye-valve all-electric set and wish to develop it into something more advanced in design as I think I have pretty well mastered this circuit, which is three s.g., one 209 and one C448. I have been thinking of tackling a super het. of the modern all-electric type and would like the layour the following. like to know the following:-

1. Do the modern sets use the same type of intermediate coupling transformers as the older circuits? I think I can

until the design of our new a.c. super heterodyne comes out.

Bird Society

Preservation Work

NINE years ago a few nature-lovers, alarmed at the depredations being made on the native forests and birds, started a New Zealand Native Bird Society, in the hope that concerted effort would be more effective, and by the teachings of the society the general public would be warned of the pending to the prosperity of the whole said. danger, not only to birds and tre-To-day the society is recognised as a very virile and progressive body, which has been a strong factor in the preservation of our forests and in the control of harmful imported creatures.

The work to be done grows daily, and members of the society and a large number of the general public realise that certain problems, if not effectively dealt with, will destroy the productivity and prosperity of New Zealand.

The society hopes to engage in a wider programme of education of the general public and the school children, in order that they may be taught how

The VOICE of MICHAEL

Conducted "CRITIC"

Biased About America

upon "Men and Machines in America" left me with the desire to have a heart to heart talk with the worthy speaker in continuation of the topic. Having earlier declared the average New Zealander's attitude to America to be compounded one part envy, one part jealousy, and one part pure ignorance, he now supplements that with a further division of us into two classes—one who says it is a wonerful place and cites the Woolworth
Building, and another class which describes it is an "awful place—so different from New Zealand!" The doctor can satisfy neither of these people because he does think it a wonderful place, but he has never seen the Woolworth Building, and he does think it an awful place, but not very different from New Zealand! Thus brightly from New Zealand! introducing matters the speaker justifies himself. He declines to yield adoration to size and engineering skill because he is biased about America. His bias is that men are of more value than machines-although he confessed to doubts on that point after seeing miles and miles of machine tenders—the machines seemed so much more intelligent! America's devotion to factory methods and standardised practices, he reminds us, was forced on her through cheap supplies of immigrant labour-labour incapable of doing much more than tending routine machinery. Because those methods are successful there, however, they might not be here, by reason of essential labour differences. But while American conditions in some ways are awful, they are not more so than our own; they are merely further advanced and represent the logical conclusion of our own. Being more rapid in execution, they have attained where we are still evolving. Like all things logical, they are sometimes absurd as, for instance, when New York's subways were placarded in respect of an automobile show "Why go to all the trouble of finding a parking place? Visit the auto-mobile show by subway." I agree that that is beautiful. Against the evils of racketeering and booze there is much that is good in America to be seen and, as Mr. Beeby concluded, "whether we gibe or admire, whether we despise or envy, whatever our bias, we must admit that America is alive, more alive than any other portion of the world. What she will do with that life only the years can tell-but it will be worth watching.' I found Dr. Beeby's talk merely an aperitif. I want more, for I am biased about America too.

"The Melody of Speech"

FOUND his talk on "The Melody of Speech," given by Mr. C. N. Baeyertz from 2YA on Saturday evening, wholly interesting and inspiring Aug. 22, 1YA, 7.40 , . T. L. Lancaster, Were it possible for all our speakers M.Sc., F.L.S. Shrubs. to be given the advantage of his instruction, there would be such an

ael's utterance as to definitely intensify quite the disparity represented between would be asking the impossible, but I the interest of listeners and subtly im- Australia and New Zealand in this THE observations of Dr. C. E. Beeby, prove the diction of the whole com-respect. Attending that splendid North of Canterbury College, from 3YA munity. I am sure good will speedily v. South Island match on Saturday, I them on.

"Men and Machines in America" spring from the seed sown by Mr. was regaled with the comments of many While the professional note of authme with the desire to have a Baeyertz: in fact, am I right in imagin- young hopefuls near by. Their efforts ority was pleasantly apparent in the to to heart talk with the worthy ing that the tone and manner of the might be set alongside those classical timbre of the speaker's voice, still it announcement immediately following the conclusion of Mr. Baeyertz's address betrayed a conscious effort at improvement? If so, congratulations to Mr. Baevertz!

of knowledge of the technique of speech, Mr. Baeyertz asserted that the first thing to be done was to put their speaking voices in order. How many of the voices of our friends could be described, he asked, as colourless, unpleasant, lifeless, feeble, silly, flabby, adenoidal, muffled, husky, dull, shrill, high-pitched, hard, grinding, grating, harsh, wheezy, and unrestrained? That is a fearsome list indeed, only to be rectified by learning to breathe adequately: having our country. He assures us that he says in himself and his cause. To s them as boldly in Australia, and 25-year- enthusiasts I am always prepared old memories of his former career in listen—for a time!

Dunedin lead me to believe that that may well be so. But with all diffidence, Building Strong Children methinks there must be some little reservation. Our appetite for flattery is probably as insatiable as that of any other people in the world, but person-

improvement in the standard of Mich- ally I decline to believe that there is Wilkie from 1YA last week! the comparison honours, I imagine, listeners. On the contrary, her hints. not fall under this criticism—at least says or not, whether one condemns or if neglement. Baeyertz says so. Since his arrival condones his artistic egoisms, it must illness in the Dominion Mr. Baeyertz has said be conceded he has the crowning merit. A fit some harsh things about his adopted of at least being alive and believing To such

WHAT an excellent thing if all our mothers were listening to

Evening Talks Worth Hearing

(This list is not complete, but selective only.)												
Aug, 1	7	27A,	7,40	p.m.		H.	G,	Sout	h.			Books.
,,		ЗYА,										Biographies, etc.
,,		4YA,	9.5									Internationalism.
Aug.	18	-1YA,	7.40	99		"Sp	arv	vood'	,	('N	Z.	
												Dogs.
9.9		1YA,	9.5	99	• 0	Ton	n B	lood	Wor	th.		International Labour.
97		4YA,	7.40	70		s.	Мc	Crac	ken		4	"Next Century."
Aug.	19,	1 Y A,	7.40	50	• •	Mṛs	s. H	. Ho	dge	S		Book Review.
,,		2 Y A,	7.40	29		Α.	E,	Wils	on			Tourist & Health Resorts.
94		2YA,	9.5	12		Guy		I. S				
												International Talk.
77		ЗҮА,	9.4	77	• •	Te	Ari	Pit	ama			"The South Island Maori."
Aug.	20,	3YA,	7.30	25	٠.	J.	М.	Bar	nett		••••	Forestry.
**		SYA,	9.5	27	٠.	W.	M	achir	l , .			International Indebteduess
Aug.	21,	1YA,	7.40	"	• •	Geo	orge	Gra	han	n		Maori Bird Lore.
,,		2 ΥΑ,	7.40	,,		Dr.	J.	Gil	b .		• • • •	Disarmament Conference.
"		SYA,	9.5	"	••	E.	Ive	agh l	Lore	d	••••	"The Story of the Golden Coast."
		ЗΥА,	9.34	29		Ka	ri /	Atkir	1801	١		"The Midas of Melody."
. 59		2YA,	9.40	79								Goitre.
							-		-			

2YA, 7.40 , .. R. J. Waghorn Solar System.

3ΥΔ, 7.40 C. W. Hervey Birds.

hope those who did hear the many valuable tips will not hesitate to pass

quotations from the back streets of was not overdone. At no stage did she Sydney cited by Mr. Baeyertz, and in talk "over the heads" of her possible might fairly be easy. However, whe- tips and instructions were couched in ther we be worse than Australia or plain matter-of-fact English and were Charging speakers with a general lack not, there is unquestionably much room presented in such manner as to dispel for improvement, and it is all to the the possibility of any question as to good that Mr. Baeyertz should tell us authority. It was not the first of her how that improvement might be effected talks on the upbringing of children; for Our prime fault is sound blindness, this instalment Dr. Wilkie dealt with which is far more prevalent than colour that most important stage of a child's blindness. We simply do not hear the life which ranges between ten and errors of our own speech; hence we fourteen years. While influences tend sadly abuse both "God's patience and to mould the child right from birth—in the King's English." Our faulty enfact, before birth—yet the period ununciation and indistinct utterance, almost der discussion is of the most vital institution of the control entirely due to inadequate or perverted portance. The child is father to the sound perception, can be rectified only man, says the old adage, and habits voices balanced correctly and brought by assiduous study of the niceties of acquired during boy or girlhood have the down on to the teeth, and not shut up utterance. We certainly need more tendency to remain. Encourage clean in our voice boxes. We can gain resoneducators of the standard of Mr. Baey-healthy habits, therefore; personal in our voice boxes. We can gain reson-educators of the standard of Mr. Baey-healthy habits, therefore; personal ance by humming exercises—at which ertz. His address, embodying as it did hygiene is tremendously important, and point I predict an undue strain upon a lifetime's experience in a subject he I was pleased to hear the Doctor lay bathroom acoustics! In Australia is has definitely made his in a subject he I was pleased to hear the Doctor lay bathroom acoustics! In Australia it has definitely made his own, was valuemphasis on the importance of close at would seem that the lips are rarely used, able. I look for definite benefit from tention to the ears, nose and teeth, being mere obstacles in curtailing the his visit to the Dominion. Whether While each or all of these different enunciation of sound. New Zealand does one agrees with all that Mr. Baeyertz organs may cause trouble, the last two, if neglected, may result in very serious

A final word as to sleep. who probably suffered from insomnia invented the saying "Seven for a man, eight for a woman, and nine for child or fool." For my part I cheerfully admit a fondness for nine hours' sleep and would accept such gratefully on most nights were it not a practical impossibility. Realising the innuendo to which I have exposed myself, I am glad to hear that Dr. Wilkie believes in plenty of good sleep. The child, says she, ought to have at least eleven or twelve hours undisturbed slumber in as much fresh air as possible—the verandah for preference. On that basis the rest of us become entitled to at least nine hours sleep each night. Personally, I'm all for it.

The Change of a Nation

SOME interesting thoughts on the changed characteristics of the German races during the last century or so were expressed recently by an Auckland W.E.A. speaker. The talk was scheduled to Mr. Richmond; unfortunately I missed the announcement of the item, but feel almost sure that I remembered his voice, so I will presume the talk was his. It was very good; in fact, these W.E.A. talks and discussions from various of the main centres become increasingly valuable contributions to the evening's entertainment. If listoners are missing these it is a pity, because the subjects are well chosen, of vital and topical interest, and, especially when the principals themselves are lecturing, particularly well presented. It is unfortunate that Mr. Ross is so rarely available in Dunedin but, although students have done their best at times to mutilate

his talks, his papers are warmly wel- knows there have been enough examples come.

His remarks Richmond's lecturette. butterfly. A very ugly grub it proved velopment.

A Dull One

THE paper presented by the Manu- the part of the public should be avoided. facturers' Association on "Furniture and Furnishings" was amazingly duil. The subject is not an easy one; even to wax eloquent (which is vastly different from being interesting) about a Chesterfield or a table is not easy. But the subject has quite amazing possibilities. I always believe in incident or anecdote. A description of the marble table wrought for Cassius, which was subsequently sold by that gentleman when in financial difficulties; a tracing of its history from the time of its purchase by a Pompeilan and its subsequent recovery from the eruption-something of that sort to arrest the interest. Then outline the gradual preference for wooden furniture as against stone or marble, and so link up with such famous masters as Sheraton and Chippendale; found in each.

By a natural process of thought give some illuminating anecdotes on the work of genuine copyists and genuine fakers. To recount a clever fraud is to hold the interest of your audience; goodness

Are you bound down because you have never learned to do any one thing well? To thousands of men like you—hands tied, but eager to break free—L.C.S. training has brought success. No matter where you live, the L.C.S. will come to you. No matter what your handicaps, or how small your means, we have a plan to meet your circumstances. Without cost or obligation let us prove that we can help you to get a better job and a bigger salary. Write or call.

Hundreds of Courses to choose from.

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

182Z WAKEFIELD ST., WELLINGTON

in the furniture world Get on to The emergence of the Germany of modern styles, then, by all means, and 1914-18 from the peaceful artistic and bring in your "Buy New Zealand Furphilosophical people of the 16th and niture"; you will have caught the atten-early 17th centuries and the earnest tion of your listeners and, on the off endeavour of the majority to return to chance that you might have another valuthat earlier state was the subject of Mr. able tit-bit for them, they will listen. Whether or no they are disappointed in made one think of the butterfly emerg- their hopes matters not a little bit-your ing from its chrysalis state—only in the message has gone home to bear fruit, case of Germany the process was we hope. But to drone on—even the reversed. Here we had the ugly, de-announcer could make little else of it, structive and acquisitive grub rearing its poor man—about kapok and horsehair; baleful head from the heart of the webbing and tacks; plush and velvet; kauri and rimu, and so on, and so forth, to be; let us hope that no French han- is to ask for, and receive, either a dicaps are put in the way of its full de- movement of the switch or of the dial.

In either event valuable time has been lost and, which is worse, the listening public will be wary of future talks sponsored by the Manufacturers' Association. In view of the real excellence of some of these, such a tendency on

Programme Features

(Continued from page 17.) Linnie Nicholas and Zante Wood. The 1YA orchestra, under the direction of Harold Baxter, will be heard in several selections, among them being "Hungarian Lustspiel," "Rotten Row," and "The Water Melon Patch." One of the new members of the orchestra, Bright, will play as a cornet solo, "L'Adieu," by Schubert.

From Wellington

AT 11.12 a.m. there will be the weekly lecturette on "Fashions," and at explain what characteristics were to be 7.40 p.m. Dr. J. Gibb will broadcast a talk on "The Disarmament Conference."

From the Wellington Town Hall the ninth concert of the Wellington Competitions Society's 1931 Festival will be broadcast. From 9.30 till 11 p.m. there will be a session of dance music from the studio.

3YA Items

partment of Health. This evening "Short Circuits in Nature" will be Dr. Duncan Cook's subject, to commence at 7.40 p.m.

The evening's entertainment will mark the first appearance of a bril-liant orchestral combination under

A Snip in Pick-Ups.

THE ERLA, 35/- and 47/6 each. Only a limited number—get in early

THE PHILIPS O.P. SET still leads for quality reproduction. Complete with Speaker, £14/14/...

G. G. MACQUARRIE

120 WILLIS STREET, WELLINGTON.

For Radio and Electrical Repairs.

the direction of Signora Martinelli-Reggiardo, well known in Dunedin as a fine planiste and first-class conductress.

The individual members of the orchestra are all well-known artists, including J. Stewart, the brilliant New Zealand flautist. The programme to be presented will include popular musical comedy selections and overtures, including the "Waltz Dream" (by Strauss), and a bright little suite entitled "My Lady's Boudoir," by Moore. The ever-popular Harmonists will sing a number of quartets.

SATURDAY

Selections from 1YA

E N.Z. Amateur Radio Transmitters' Association has already given several interesting lectures, and this evening takes up the subject of "Direction Finding and Auto Alarm as Aids to Navigation."

The studio concert will be given by the orchestra, under the direction of Harold Baxter, with Lambert Harvey and Lilian Woods in solos and duets. Some of the vocal numbers will be given with orchestral accompaniment. During the evening "Lee Fore Brace" will once again delight his listeners with a sea story, entitled "Posted Missing."

Wellington Items

GARDENERS will find it an advantage to tune-in at 7.40 p.m., when dance, and patter.

Mr. W. M. Jackson will be heard in another of his interesting and instructive talks on "Gardening Hints." The demonstration concert of the Wellington Competitions Society's 1931 festival will be broadcast. At this concert all the winners of the various classes will per-

Christchurch Topics

A TALK under the auspices of the N.Z. Native Bird Protection Society will be given by Professor Speight. He will deal with "Flightless Birds." 4YA's programme will be relayed to 3YA.

Notes from 4YA

 $\mathbf{A}^{ ext{N}}$ orchestral octet will delight listeners this evening with excerpts from Kern's "Sunny," "Rio Rita." "American Selection," and two numhers which will be presented for the first time in New Zealand—"Russian Medley" (by Geiger) and "Knights of the King" (Ketelby's most recent composition). The "Russian Medley" is a dance arrangement of traditional Russian folk songs. This orchestra will be under the direction of Thos. Kirk-Burnnand. The "Regal Four," which is firmly established as one of the best quartets at 4YA, will present four groups of numbers. "The Radiettes," who have only recently appeared at 4YA for the first time, will present some of the latest popular melodies in song,

A BIG RADIO TIME-TABLE AND STATION LIST

Printed on good strong paper that will stand folding, this comprehensive list of New Zealand, Australian, American and other stations is wonderful value for the amount asked.

Of each station is given the call sign, the location, the frequency, the wave length and the power. Never before has such a list been offered to New Zealand radio enthusiasts.

There is only a limited number available. you to get your copy to-day, from your bookseller or by send-A ing direct to our office. Price 4d. plus 1d. postage.

Get One To-day. Only a Limited Number Available

RADIO Plea	RECORD, Box 1032, Wellington. ase send me your Radio Time-table.	I enclose 5d. in stamps.
Name		ক ২ ২,০ হাক হাজাত ও ও ওটুমুটা ১ ও ও জানটেছ(র
Address	# # # # # # # # # # # # # # # # # # #	
		R.R. 2.

Short-wave News

TI-4-NRH, New Schedule.

THE 72-watt station, NRH, operating on 29.3 metres, has changed its hours of broadcasting, and is now on the air as follows: Tues., Wed., and Thurs., from 12 noon till I p.m., and Sun., Mon., Fri. and Sat., from 1.30 p.m. to 2.30 p.m.

EAQ, Madrid.

THE call of this station, which may be heard daily from 12.45 p.m. to 1 p.m. on 30.4 metres, is "Hello! EAQQ, Transradio, Madrid." The address of the station is Apartado Postale de Correos 951, Madrid, Spain.

VE9CL. Bi-monthly Tests.

STATION VESCL, Winnipeg, Manitoba, on 48.85 metres, broadcast a special test programme on the 15th and 30th of each mouth from 5.31 p.m. till 9.30 p.m. New Zealand time. The latest test an August 15 was received at good volume, RS-9, but static spoilt reception.

Log for Week Ending August 15

RV15, Siberia, 70.1 metres.—This station has apparently been closed for a few weeks for alterations, and perhaps increase of power, as on Saturday night they came in after a long silence at R9 with one stage of audio. Talks were heard by "Auntie and Uncle," two regular speakers from this station, and, after 11.30 p.m., some very fine music was well received. received

HVJ, Vatican City, 50-26 metres.— On Tuesday, Wednesday, and Saturday volume was good from 6.30 a.m. On Wednesday, at 6.45 a.m., talk in English was heard.

Was neard.

Moscow, 50 metres.—Every morning, good volume till after 7.30 a.m., when it weakens. Still spoilt by a gurgle.

W9XF, Chicago, 49.83 metres.—Saturday, 4 p.m., weak and noisy.

ZI.2ZX, Wellington, 49.51 metres.—Monday and Wednesday, relaying 2ZW. Excellent.

F8XAL, Cincinnati, 49.5 metres.— Sunday and Saturday, 4 p.m., R8, but noisy each day. A station, possibly W8XAL, has been heard several morn-ings about 6.30 a.m., but too weak to identify.

ings about the state of the sta

p.m. Good quality.
W2XE, New York, 49.02 metres.—
R7. but very noisy at 4.30 on Sunday.
F31CD, Saigon, Indo-China, 49 metres.
—Can be depended upon each evening

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopence for every other word thereafter

DILOT Model 112 Power Pack for 245 Valves. Output 300 volts, 90 milliamps, variable tappings and filament winchings. New. £6/10/-. Thornton,

A. J. PARK & SON

Patent Attorneys

Routh's Buildings, Featherston Street,

WELLINGTON

क्ष्युक्तम् पुरुष्ट्रमाताः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः सम्बद्धाः स्थि । स्थाः स



THIS page is conducted in the interests of shortwave enthusiasts. 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.

metres: A test programme commenced at 5.31 p.m. on Saturday with a band item, followed by an announcement which was spoilt by static, only odd words being readable. Volume was R8-9, and continued at this till after 7 p.m., when it weak-

46.69 metres: W3XL, Boundbrook, Saturday, RS-9 from 4 p.m. till 430 p.m., when they signed off.

REN. Moscow, 45.5 metres: Volume quite good each morning, but static has been troublesome on this station the last few days.

Radio Marce, Rabat, 32.26 metres:
Monday from 7.30 a.m. excellent at R9.
OXY, Denmark, 31.51 metres: Very little is heard of this Danish station now. On Wednesday at 7.35 a.m. a grady. B2 signal and the property of the state o gushy R3 signal was heard.

W2NAF, Schenectagy, 31.48 metres: Saturday and Sanday from R5 at 2 p.m. to R9 by 3.30 p.m., when they closed

Zeesen, Germany, 31.38 metres: Wednesday was the only morning that Zeesen was any good as regards volume, when they were RS-9 at 7.30 a.m. This appears to be the peak period just now for vol-

VK2ME, Sydney, 31.28 metres: Sunday and Monday norming with their regular overseas programme, the usual R9 with severe fading.

EAQ, Madrid, 30.4 metres: Sunday, R8-9 from 12.45 till 1 p.m. and R7 on Saturday the same time.

EVA Paris 25.63 metres: Starts at

FYA, Paris, 25.63 metres: Starts at 8.30 a.m. Sunday the only day heard, when they were R9 with rapid fading.
G5SW. Chelmsford, 25.53 metres: Most

mornings reach R5 by 7.30 a.m., when the Greenwich time signal (6 pips) is the Greenwich time signal (6 pips) is heard. Instead of observing the usual interval at this period, the last few mornings they have carried on. On Saturday, volume reached R8 by 7.40 a.m., 12R0, Rome, 25.4 metres: Very weak these mornings till after 7 a.m., and

again from 11 p.m. for some weird native then not what they were a few weeks music.

VESCL, Winnipeg, Canada, 48.85 at R8-9 at 7.30 a.m.

W8XK, Pittsburgh, 25.25 metres: On Sunday volume reached RS by 2.30 p.m., when the Saturday sporting results were

25.2 metres (about): Every morning, music and foreign talk. Just audible at 6.80 a.m., increasing to R5, sometimes better, by 7.30 a.m..

D.X. NOTEPAPER.

Makes sending for verifications

easy.

Per two dozen lots, 1/6 posted.

Per 6 dozen lots, 4/- posted.

Special paper for members of the D.X. Club. State your station number when ordering. Non members can still get the ordinary notenaper from booksellers and office. DX Club paper from office only. Box 1032, Wellington. Write to

W2XAD, Schenectady, 19.5 metres: Friday morning at 7.35 a.m., W2XAD was very clear at R5, with very severe fading. The signals faded right out at intervals of a minute or two for a few

N.Z. Short-wave Club

The Secretary Writes

AN amusing story comes from up north. The authorities received complaints of violent howling from many quarters, and found the trouble emanated from two of Baden Powell's juniors who found that they could communicate by means of code by making dad's set howl. A violent os-cillation on the lower wavelengths produc-

ed a shriller toned howl, and now DX-ers are left in peace.

Correspondents in Ohio. Connecticut, and Brooklyn, New York, report reception of ZLW.

tion of ZLW.

Some letters are divided regarding reception on one valve. It is quite possible to receive the principal stations on one valve—I have done it myself, not only on short-wave but on broadcast, with some of the Australians. Mr. L. Saunders, Auckland representative, will also bear me out. The reason why one valve sets are not given much prominence, however, is a very important one; unless carefully handled they are capable of causing great interference, and, as many people cannot manage three or four valves, it is advisable to learn a few tips before experimenting. experimenting.

I have received a large number of inquiries for the club list of stations: a revised list will be ready for members next month, and will be posted with their cir-

Will all members who send in QSL cards to stations please write their name and address plainly; if addresses are indecipherable I often get the cards sent in the headquarters. I then send them with the members' monthly circular, but it is as well to make sure.

as wen to make sure.

Short-wavers and DX-ers, our next Wellington meeting will be a members' night, when each one is asked to bring along anything of interest. One member promises to bring a home-made battery together with zincs marked out, etc., and there should be much to learn from one enother. another.

A. B. McDonagh, secretary New Zealand Short-wave Club, 274 Cuba Street, Wellington, will find me. Always pleased to hear anything of interest that we can

Rectifiers Mercury

INTIL recently the full and haifwave rectifiers were used for all purposes, but for high-power work little can compare with the hot cathode mercury vapour rectifiers, which can be increased in size to enable railroads to be operated At present most hot cathode vapour rectifiers are used in most hot cathode vapour rectifiers. vapour rectifiers are used in radio transmitters, some of which are rat-ed as high as 40,000 volts. The voltage drop in these valves is of the order of only 10 volts, consequently they can be used with all but the lowest voltages and there are even hopes of producing valves with a drop of only two volts. These valves have a long life in comparison with other rectifiers.

Rob Horrobin Offers

Ebonite Panelling.

21in. x 7in. 3-16in. thickness 4/6 18in. x 7in. Postage Extra. ********** .00015 Banana Plugs and Sockets . . . 5d. pair Vesta Valves, 3v. .06 amps. UV199, with sockets Post Free 5/-Condor 4v. .1 amp. UX Base 6/6
Post Free.

2 Courtenay Place, WELLINGTON. Phone 22-357.

DUBILIER CONDENSERS for "KESTREL 3"

GIVE BETTER RESULTS:

.0001 Mica Condenser and Clips, 2/- each.
.0002 Mica Condenser and Chps,
2/- each.
.0002 Mica Condenser and Clips,
2/- each.
.5mfd. Mansbridge Condenser, 2/9
2 and 10 meg. Leaks, 1/6 each.
Radio Fcy. Choke, 5/6.
.00015 Differential Condenser, 6/6 30 ohm Rheo., 3/-. Ebonite Tube, 4in. x 2in., 1/-. .0003 Var. Condenser, 9/6. .0003 Var. Condenser, with 200-1 Vernier, 15/-. 400 ohm. Potentiometer, 5/-.

All Other Parts Stocked.

STRANGE A.E 404 WORGESTER STREET, CHRISTCHURCH.

Good Old Cardigan.

FOR small incomes and semi-formal occasions the cardigan coat, with sleeveless matching blouse and simplyfashloned skirt, is now almost a standardised ensemble for all manner of fabrics, including fanciful cottons, voiles and the more elaborate painted materials. The shorter jackets are smart, too, but they do mean more diffi-cult cutting, and, therefore, are not such a practical choice for many as the bodice or blouse with the new little top-sleeves and a bolero or short cape-These are all delightfully Again, it is one of the best styles for the many inexpensive cottons and voiles that are so becoming in the newer schemes for girls. The cotton evening dress appears at many smart functions in London, though it will take longer to become an established model for the country house, where it Stitch in Time. really should be more in harmony!

A Protest.

MY trouble," said a girl of twenty, "is this. I have very young and charming parents, who insist on being the life and soul of everything. We cannot have a party without them. They will be young with us, and as they call it, lead their children's lives and share their amusements.' The result is, they take all the wind out of our sails and make us feel like infants. My mother has so much charm and sophistication and experience that I become like a shadow when she is around. I wish they would give up dancing and take to bridge."

Paris Protests.

REFITSH visitors who go to Barbizon, south of Paris, the home of Francois Millet, whose picture, "The Angelus," is known the world over. is known the world over, will be shocked to find that the landscape has been disfigured by a huge advertisement.

The scene hitherto has remained the same as when Millet painted it . . . the same broad sweeping field, the same soft horizon, the little church, and the same type of simple peasants leaning over their implements in prayer, could be seen by a visitor.

Thousands of tourists, attracted by the name of Millet, Corot, Barye and others of the Barbizon hamlet, visited the place each year. Millet's home is kept much the same as it was when he was alive. Until recently the countryside was still a touching souvenir of the last half of the nineteenth century. Now, right in the middle of the view as seen in Millet's picture, appears a blatant advertisement of a popular cocktail ingredient made by a French dis-

The Insensitive Sex.

A CORRESPONDENT writes: I am glad that we can now get definite information about the cruelty involved

NAMES OF PRIZE WINNERS IN RECENT "WAVENE" COMPETITION.

£20—1st Prize, Miss Annie Rose, Auckland (6723). £10—2nd Prize, H. Watkins, Christchurch (5690). £5—3rd Prize, Karl Kennedy, Auckland (5654).

Tombery, Ackarand (6664).

10 prize winners of 10/- each; R. Lang, Taumarunui; Mrs. R. Foster, Cambridge; M. Watkins, Christchurch; Mrs. G. Maxwell, Hokianga; T. C. Grieg, Gisborne; Mrs. P. Keady, Southland; Mrs. L. Parkirson, Mongonui; C. R. Løne, Auckland; Mr. T. Hackett, Grey Lynn; Miss Moira Piree, Gisborne.



in supplying us with furs. easy and becoming to young and slim animals struggle in traps for hours, in a contrasting colour on the edges and often days, suffering excruciating of frills and flounces. agony, in order that we women may show applique and ot clothe ourselves in furs. not to blame."

ROTH hand and machine embroidery are much in evidence as trimming of frocks of the smarter kind, even spots are worked in satin or chain stitch, not printed. On plain material effective when the spots are worked just where needed. Bold applique designs in satin or velvet show up effecin bright colour on a flounce.

It is known ple stitches as buttonhole, that every year millions of fur-hearing bone, or blanket stitch are even worked Linen frocks show applique and other embroidery Is it worth in another colour, white or navy or red it? These are facts, and let no woman and navy or green on white being most who reads them say to herself, "I am effective. The same applies to lingerie The same applies to lingerie of crepe-de-chine or linen lawn, which shows charming little designs in contrasting colour that are frequently frequently mingled with lace motifs.

"Young Woodley" Among the Feminists.

TO the frivolous-minded there was something rather amusing in the frocks, collar, cuffs and vests are shown thought of Mr. Van Druten speaking in spotted fabric, which is especially about his successful "London Wall" to a large audience of feminists. Corbett Ashby was in the chair, and the occasion purported to be a debatetively on the skirt or coatee of a black Mr. Van Druten defending his play frock, and give the requisite against a feminist attack on it made colour touch, or a simple bor- by Mrs. Amber Reeves. But the young der may be worked in some dramatist's bearing was faultless, and some dramatist's bearing was faultless, and Such sim- his exposition of how he came to write

Hints for the Housewife

To Clean Bone Handles.

DISCOLOURED bone knife handles should be rubbed with a cork dipped in a strong solution of peroxide of hydrogen. This treatment whitens them effectively, and is better than the use of lemon juice.

Cleaning Clothes Lines.

CLOTHES lines should always be boiled for half an hour before they are first used. This process makes them tougher and also prevents tangling.

Scissors Sharpener.

WHEN scissors are becoming blunt an excellent plan for sharpening them is as follows:-

Take a piece of ordinary glass-paper and cut it round and round into circles, each one smaller than the last. Within a very short time the scissors edges become quite sharp again.

Onion Hint.

IF onions have unpleasant aftereffects, peel them, cut in four, and place in a basin with a piece of common soda the size of a pea. Pour boiling water over until they are covered, and let them steam ten minutes. Pour away the liquid, and cook the onions

Berets.

WHITE berets, white fur, or other white articles which require dry cleaning can sometimes be treated at home. Get a pound of white powdered starch and put into a deep vessel, Rub whatever is to be cleaned in the powder as if washing it in water. Shake well afterward. The starch can be used more than once if not too dirty.

Celluloid Knitting Needles.

NITTING needles of celluloid frequently become bent when used Paris, The Prude! for long periods at a time. straighten, pour hot water over them, or hold them in the steam of a kettle, straightening with the fingers. Plunge them immediately into cold water to harden. Do not hold near an open flame.

Suede Belts.

SUEDE belts show stains and fingermarks very rapidly. To clean them rub the surface with a coarse flannel dipped in sawdust or bran, afterward raising the nap with coarse glass paper. This method may also be applied to golf coats.

Keeping Salad Fresh.

SALAD that has been left over from a meal will keep fresh until the next day if it is put in a bowl, well damped, and covered with an inverted colander, which allows a amount of air to penetrate.

Successful Piecrust.

PIECRUST of the flaky variety is more successful if, before putting the pie or covered tart into the oven, it is held under the cold water tap at an angle, letting the water trickle gently over the top and turning the dish until the entire surface is moistened.

For Tapes.

IF you wish to run a tape through a hem to slot, and have not a tape needle handy, just fasten a safety pin

"London Wall" and to choose the types for it was most disarming. The hard-est-hearted suffragist could find no cause for repreach or indignation, and Mrs. Reeves herself merely scolded him for ruining the life of the promising young man in his play by getting him engaged so early and so unpromisingly. "London Wall" is staged entirely in the chambers of a solicitor and concerns chiefly the four women typists who work there. Mr. Van Druten told that he himself, not so long ago, spent five years as an articled clerk in precisely the same surroundings as those

The idea for the plot was given to him by a manicurist, who described the pathetic plight of two young sweethearts who had nowhere to talk to each other, whom she had seen saying goodbye to each other under the lilacs in the rain in the garden of a suburban apartment house. The conditions of the lives of such young girls, typists "beginning" at 30/- a week and not living with their parents, interested him so much that he got the secretary of a friend to make him out the working budget. He read it. The rent of a furnished bed-sitting room shared with a friend came to 15/-, fares to and from work 5/-, lunches 1/a day, all other meals 5/- a week, and "half a newspaper" 3d.

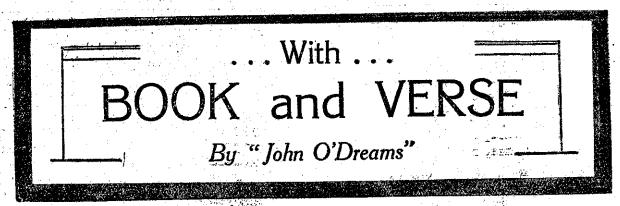
Poor Fare.

HERE have been recently on the London stage several meals with a character entirely their own. In "The Venetian" the supper seemed to consist entirely of grapes and nuts (and not too many of them) washed down with a glass of pink wine (poisoned or not); while the picnic luncheon at the shoot-ing-hunting party in "Tantivy Towers," consisting of a few very thin sand-wiches and a little flat champagne, would hardly satisfy even a dieting woman.

To IN Paris there is quite a strong movement in favour of decorum. This has been discovered by a hairdresser who, as an advertisement for his system of permanent waving, exhibited in his shop window a wax model of a nude woman arranging her hair before her dressing table. She was sitting her dressing table. She was sitting in a decent and artistic attitude, and there seemed nothing about the exhibit to shock anyone who could make a tour of, say, the Louvre or any other art gallery. But protests were made, and now the wax model is clothed in a dressing gown. Critics of this change are wondering how long it will be before the Louvre authorities are compelled to cloak the beauties of the Venus de Milo!

Nostalgia for Sunny Spain.

ACCOMDING to an official who has lately returned from Fontainebleu. Don Alfonso has become very reserved and quiet. Absorbed in his thoughts. his sole interest seems to centre round the Spanish situation. A great change has also come over the Queen. is much thinner, and repeats again and again that they ought never to have left Madrid. They take no part in amusements, and their company is restricted to one or two aristocrats who have followed them in their exile. The Princesses have lost their bright looks, and speak constantly of Madrid, their friends, and the joyous atmosphere of Spain. The infantas spend most of the time studying in their rooms, and on to the tape, it will go through quite the health of the eldest grows worse easily without slipping out. each day.



Jottings

STILL another book concerning the reat Egyptian. In "Cleopatra: A Royai Voluptuary," Oscar von Wertheimer, gives the facts of her life, character and amours so far as they are known, with a praiseworthy attempt to be impartial. "As her genius was beyond question, people tried to blast her reputation," we are told. She was perhaps no worse than her forwards the property of Worthelmor's bears, but it is part of Wertheimer's case that she was intellectually far superior to them or any of her con-temporaries. She was in her teens when she became Caesar's lover, "slim and supple, with a long thin face, soft symmetrical felitures, a somewhat Semitic nose, fine sensual mouth, wonderfully large eyes and abundant hair; while race and regal majesty characterised her every movement." Widely cultured, too, it would seem, and thus qualified to impress the massive intellect of Caesar as well as subdue his heart, though he was too great to be her helpless victim, as Mark Antony was. An interesting contribution to the literature on a fascinating figure of tragedy:

MR. JOSEPH THORP—so widely know as "T" of "Punch"—has written his autobiography under the title "Friends and Adventures." The author has had experiences as a Jesuit, commercial traveller, typegrapher, advertising consultant journalist, and it was he who started the Agenda Club. His publisher, Mr. Cape, describes it as the "apologia of an impenitently 'unsuccessful' man."

PRINCESS PETER WOLKONSKY'S book, "The Way of Bitterness: Soviet Russia, 1920," tells a moving tale of love and privation and heroism. It relates how its author succeeded in rescuing her husband from imprisonment by the Soviet. To this end she endured great weariness and humiliation, tramping through the darkness of night the forty-two wersts between Gatchina and Petrograd, and subsisting, during a protracted period of negotiation, on a minimum of food. That she in the end prevailed was due, over and above her tireless persistency, to a literary association. An earlier Princess of the same hame had followed her husband to exile in Siberia. This devotion inspired a poem, and when Dzerjinsky's attention was called to it, and its modern parallel, he relented, and the Prince, who had been arrested without reason or explanation, was permitted to withdraw with his wife to Esthonia and freedom.

Prize Poem Competition

THE prize of half a guinea in the current competition is awarded to F. H. Smith for "To a Skylark," a poetic rhapsody peculiarly applicable to Bird Mouth. The entries during the past fortnight were of high average merit, specially selected for commendation being "Alpha's" two contributions, one of which we reserve for further consideration.

"Karakia": Your haunting prem impresses by virtue of originality and trialy intriguing titles.

sustained effect.
"Caesar" sends a word-picture, modern in treatment, the delightful phraseology producing cameo-like impression.

S.E.J.: Unusual facility is apparent in your verses, which are successful enough in a lifting fashion, but do not rise above the commonplace. We do not admire the contraction of "violets" to "vi'lets."

"Merrie": "Spring" is a gay, sweet poem, in which intelligent and eager appreciation of beauty find expression in very charming verse form.

S. MacG.: The poem beginning Ah, who so gay
As a bird in May?

is interesting and original work.

"Paolo" invests a slender theme with a Celtic quality of wistful dreams.

"Ajax": Prolix and ponderous. Crocus: Why so dull and dismal?

Communist: Alas! those lines!

Pauline: Writing tragic poetry, it would seem, is not your metier.

Sons o' Guns: Not this time.

To A Skylark.

Light as a leaflet fanned by Zephyr's wing, Thou wend'st thy fluttering way to realms on high, Where in the boundless blue thou lov'st to sing, The peerless prima donna of the sky. Shy Philomet pours forth her rhapsody, Sheltered beneath the purple cloud of night; But thou art barne on waves of ecstasy, Enveloped in a dazzling robe of light. A vein of sadvess very close to tears Runs through the nightingale's rich melody, Leading to solemn thoughts of bygone years, Like some gravé nocturne in a minor key. But thou, whilst singing on thy heavenward way, Breath'st nought, but joy of life in thy refrain. We hear thee on a perfect summer's day And live through all the happy years again. The children in their pastime pause awhile To watch thee vanish from their upturned gase; Even old age with reminiscent smile, Hearing thy voice; forgets declining days.

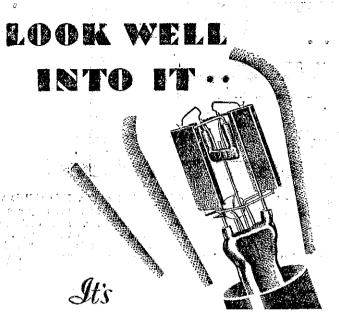
-F. H. Smith, Waimata Valley.

THE talent of Mr. Eric Gill is very varied, for he is not only a sculptor, wood-engraver, and designer in general, but he also writes well. His most recent book is called "Clothes," which he discusses as houses, workshops, churches, and town halls. Then follow chapters dealing with the Tyranny of Tallors, Dignity of Decency, Nature and Nakeduess, while the book closes with an epilogue on Trousers—triply intriguing titles.

for Miss Theodora Benson's new hook. It can hardly be called a novel, though a tiny romance runs through its light and airy pages. It is rather a series of little dialogues, more or less on the lines of those earlier dialogues by Anthony Hope that some of us found so delightful in long-past days. This is a jolly little book, and may be recommended for light, very light, entertainment.

In "Rousseau," Mr. C. E. Vulliamy has produced a valuable and interesting study of that perplexing genius, Jean Jacques Rousseau. To read this book is to know Rousseau, and to know Rousseau is to become acquainted with the most amazing bundle of confounding opposites ever brought together under the same epidermis. Of his genius there is no need to speak. In his books he will remain, for many a generation to come, a living influence for good and evil in the minds of men. We are given a portrait in Mr. Vulliamy's biography of an amazing bundle of human opposites, of one who was neither a liar nor an honest man, neither a coward nor a hero, neither a cad nor a gentleman; he was all of them at once, and staggered through life as if he had been tied to the tail of an invisible balloon.

In "Playing for England," by Jack Hobbs, all who love cricket will find much to delight them in Jack Hobbs's own account of his experience in Test matches. He played against Australia more than 21 years ago, and has gone to the wickets first for England in nearly all the great matches ever since. Easily the best batsman of his time, everybody knows how he has passed the record of W. G. Grace, the cricket hero of the preceding generation. And he is the only professional who has captained England against Australia. His own story is characteristic of the man in its modesty, its generous appreciation of the good qualities of the other side. These Italis are of the essence of good sportsmanship.



MADE IN ENGLAND

· it's made better .



ASK to be shown one of the new Osram 2.5 series Rectifying Valves—MX 280. Give it the closest scrutiny—in comparison with any similar valve, if you wish. You'll find it has a ribbon filament to give it robustness and long life. And you'll appreciate the fine construction, the neat clean finish—all of which are vitally important to valve performance.

The complete range of Osram Valves including the following 2.5 Volt Series is available at your radio dealers—MY 224, MY 227, MX 245, MX 280.



Made in England

MX 280 is a full-wave Rectifying Valve specially designed to with stand everloading and fluctuations in line voltage.

Advertisement of the BRITISH GENERAL ELECTRIC CO. LTD.

37 Taranaki Street, Wellington.
 Brunswick Bldgs., 49 High Street, Auckland.
 Hannaford Chambers, 145 Worcester Street, Christchurch.



When the Pentode Valves arrived the "SUPREME INSTRUMENTS"

were waiting for them

Model 90 "SUPREME" Analyser is not an expense—it is a profitable investment.

It enables you to quickly locate faults in radio apparatus—it is easy to operate.

The SUPREME is the only Analyser provided with adequate moter ranges and switching facilities for all American tube and circuit tests.

MODEL 90 ANALYSER.

Distributors:

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

"Where the Quality Goods are Sold."

POWER TW.

It has an ample reserve of power

POWER TRANSFORMERS

STANDARD British-made Power Transformers are essentially a first-class product.

Model No. 3 (No. 5007-C) with the following windings— 1 2.5 volts, 8 amps. 1 4 volts, 6 amps. Model No. 4 (No. 5007-E) with the following windings— 1 2.5 volts, 10 amps. 1 2.5 volts, 6 amps.

High tension 330 volts at 90 milliamps through filter resistance of 600 ohms. For use on 230 volts, 50 cycle A.C. supply, and arranged for a 5-volt full wave rectifier tube.

Sturdy construction and excellent workmanship (Electrostatic Shield) make the STC Power Transformer a worthy unit of the best radio set.

Surprisingly Low Priced.

Standard
Telephones and Gables (Alsia) Limited

Head Office: G.P.O. BOX 688, WELLINGTON.

Auckland: P.O. BOX 1897,

South Island: L. B. SCOTT, LTD., CHRISTCHURCH.