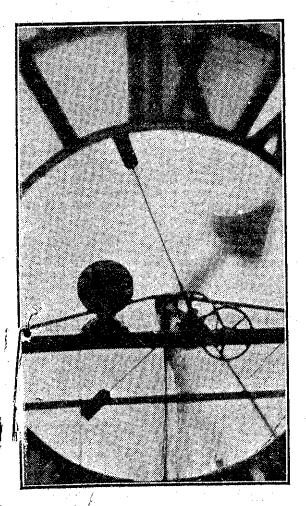
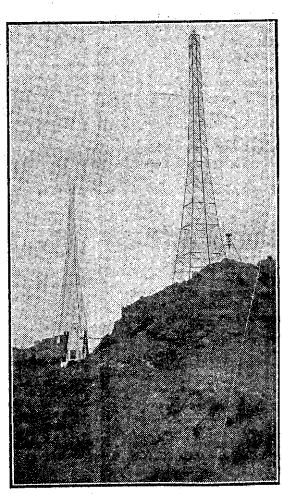


Broadcasting the Clock



Through 2YA thousands of listeners have heard the Wellington town clock chime, but very few realise actually how the chimes are broadcast. photograph on the left shows a carbon microphone permanently fixed in the clock tower. At the back of it can be seen part of the face which, from the other side, is a familiar sight to Wel-The photograph on the lingtonians. right shows the transmitting towers of 2YA on Mount Victoria from which the signals picked up by the microphone are broadcast. The Neon sign -one of Wellington's most conspicuous landmarks-can just be seen on the front of the transmitting house.



the Radio Times is the best paper for technical and DX enthusiasts July issue now available

Your Newsagent or Radio Dealer sells the "Radio Times" for 9d. a copy. After having read one copy you will realise just what you have been missing, but if you should experience difficulty in getting a copy, write direct to the publishers-

The

Radio Record BOX 1032 - WELLINGTON,

R A D I O Round the World

English set different from the Ameri- station owner, or that of any principal can, but with this difference, that the officer or stockholder. radio industry is where the car industry was four or five years ago, To-day in the latter trade the differences are say about it, manufacturers do not type, seem to have incorporated the circuit in new models to any extent; the Americans favour extremely small midgets, while the English still have a great deal of unused space even in their most recent models.

THE Soviet Press comments on the great success of the introduction of wireless receivers in the trains between Moscow and Leningrad. Within the past few weeks loudspeakers have been installed, by which travellers are kept informed of the names of the stations en route, and the time which will be spent at each. News, musical performances, and propaganda are also transmitted. It is understood that other train services are to be similarly fitted in the near future. Every longjourney traveller on the New Zealand railways is asking when the Railway Board intends to install radio on the expresses.

FROM a recent survey conducted in the United States it has been found that radio sets are used on the average 4.04 hours daily. This information, together with that which shows at what particulars hours receivers are most in use, is of utmost value to the advertising branches of the com- ed altogether. mercial broadcasting stations in America.

MANY hitherto undisclosed secrets of

IT is surprising the number of cars for the commission's forthcoming rethat are being equipped with radio port to Congress on the feasibility of in the States, and the high degree to Government ownership of broadcasting which the sets are being developed. Of and the abolition of radio advertising course, conditions are so much different. The commission first selected a "typical over there. There are dozens of power- broadcast week" to be covered in the ful stations within range in all the cit- questionnaire, and asked stations to ies, and there are no license complica designate the number of hours devoted tions to set one thinking. It is said to commercial and sustaining prothat before long radios will be built in grammes during the day and night. The that before long radios will be built in grammes during the day and might in as part of the standard equipment of commission, cautioning broadcasters to the higher-priced cars.

* * * * * descriptions of commodities advertised, the terms of contest, and the like. TUST as the typical English car is different asked, too, how many hours were ferent from the American, so is the used to advertise the business of the

not so marked and it is to be expected THE Paris tramways are causing such that the radios will tend to become interference with radio reception that the radios will tend to become interference with radio reception alike, both nations giving and taking that a prominent member of the Paris The typical English set has only three The typical English set has only three City Council has lodged a complaint. or four valves and uses regeneration. It appears that the interference emun-The Americans have from five to seven ates from the car trolleys, which collect and have discarded regeneration years current from overhead wires. Experts ago; the Americans favour the super state that there would be much less heterodyne, and although English con- cause for complaint if all cars were fitcause for complaint if all cars were fitstructional journals have a great deal to sted with collector bows of a certain

> A MAN whose throat was opened by radio waves after ordinary surgical methods had failed was reported recently to the Academy of Sciences, in Paris, by the veteran experimenter in this field, Professor J. A. d'Arsonval, as a case treated by Dr. Bordier. The victim had drunk a strong solution of caustic potash, or "potash lye." The result was a severe corrosion of the tissues of the throat and esophagus so that the latter tube, connecting the mouth with the stomach, closed up entirely. The surgeon in charge of the case then made an opening directly into the stomach and the patient was kept alive by liquid food supplied through this opening. In this condition, with the esophagus altogether closed so that swallowing was impossible, the patient came to Dr. Bordier. For a period of twenty minutes each day Dr. Bordier passed through the chest at the spot where the esophagus had grown together powerful currents of high-frequency electricity of the kind used in radio and which have been applied by Professor d'Arsonval to many medical uses. After four days a tiny passage opened through the obstruction caused by the caustic scar. In a few more days the esophagus open-

IN "Broadcasting," a prominent Ameri-ANY hitherto undisclosed secrets of can radio journel, De Lee de For-the American radio industry are est, the famous inventor, says: "The expected to come to light in the replies sad state of the industry to-day is more to the new questionnaire addressed to due to the miserable quality of radio broadcasting stations by the U.S. Fed- programmes than to any other cause. eral Radio Commission in preparation The public simply isn't listening-in- have feen true.

not to a degree remotely approaching that of four years ago. More receiving sets-yes; but usually unused. We have learned that the switch-off is the best part of a radio set." Dr. de Forest forecasts; that this year may bring "radical changes" to meet the many protests against American broadcasting's "Defiled Commercialism."

BUILT like a Zeppelin and capable of being propelled by a regular air screw, an automobile has been designed in Iowa to carry radio artists on a "booster" tour. The road Zeppelin is equipped with powerful loudspeakers and will broadcast directly from the studio within the car. It is mounted on a standard chassis, and, in ordinary operation, is driven by the usual auto power plant. The propeller is driven by an airplane engine, however, and will push the car at a speed of about twelve miles an hour when desired. A third engine is mounted inside of provide power for the generators of the broadcasting plant. The over-aller th. of the vehicle is 25 feet.

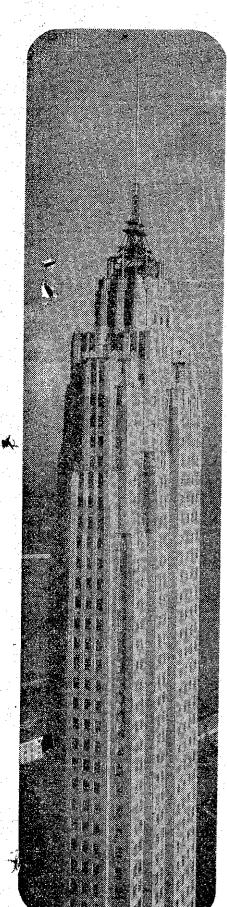
THE skipper of a Grimsby trawler fishing in the Arctic was recently able to make good use of the Canadian Government's wireless service of medical and surgical aid. Apparently one of his men was washed through a scupper door, with the result that he sustained a fractured jaw and had half his scalp torn away. So the skipper sent a wireless message to the operator at the nearest Marine station, the message was sent on to Ottawa, and within an hour a reply was received advising the skipper what treatment to apply.

THE most enlightened amateur in France" is the epithet won by ex-President Doumergue, who delighted radio enthusiasts during his term of office by the interest he invariably displayed in wireless matters. Now, in retirement at his home at Tourneambitious receiver, and he has now accepted the honorary presidency of the Toulouse-Pyrenees Radio Society. so the ex-President is still a president.

an and an arrest

IT was recently announced from a famous English broadcasting station that a very well-known orator was to broadcast at exactly eight o'clock in a stridio which also televised its artists. As the speaker was conduced to his microphone position a few minutes before the appointed time, it engineers, unknown to the waiting or to tor opened up their flying spot. Watchers peering into their television re-ceivers saw the gentleman sit down before the mike and arrange papers, straighten his neckfie, prepare for his speech. The watching audience saw him as he appeared visibly rervous, waiting for the signal to begin his talk. At exactly one minute to eight they were astounded to see him reach around to his hip pocket, from which he extracted a flask, and proceeded to fortify himself for his coming ordeal with a sivable gulp of liquid. For the next few days the station manager was kept busy explaining that the receptacle contained merely cough nedicine—a statement which quite possibly may

CIVILISATION



Is it on the Verge of Collapse?

by Professor L. G. Pocock

from 3YA

I HAVE chosen this subject to discuss to-night because people have been telling us off and on for very nearly twenty years now

that our civilisation is in danger of utter collapse and may very well decay and disappear like that of the Roman Empire. This mournful prediction started with the war in 1914, and is being made with especial frequency during the present economic upheaval. As far as my observation has gone, no one has seriously disputed the statement—it has been listened to with a vague and reverent silence, as though it were the word of God or one of His prophets. Personally, I have long been tired of it, and I do not think it is in the least likely to happen. I propose to give my reasons for saying so.

TO say that civilisation is on the verge of collapse, or that Europe will revert to utter barbarism, is a fine round phrase; but as with most fine round phrases, one should know what is in the pill before swallowing it. I think Mr. Garvin, of the London "Observer," was probably one of the first to trot it out; and it is still serving its purpose of scaring us. For instance, I arranged to give this talk on or about May 3; on May 4 I saw in the paper that Lord Leverhulme was prophesying the end; a day or two later Mr. H. G. Wells—as one would expect—was also at it. He said: "Civilisation is visibly Every week something breaks collapsing. down. It is impossible to see how far the ruin will extend." Well, I think that this is all

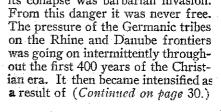
exaggerated rubbish, though I do not wish to minimise the difficulties and dangers of our times

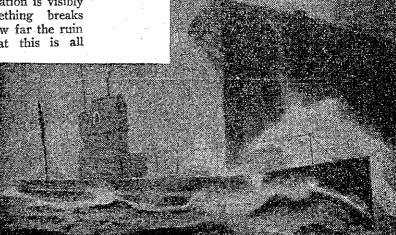
The usual parallel—the "Morning Post," at Home, is, I believe, still very fond of it—is the case of the Roman Empire, in which civilisation did collapse and very nearly disappear, though it is well to remember that that was a process which took several centuries to complete.

Some of the problems of the Roman Empire were strikingly similar to ours, but there are also very essential differences, with some of which I propose to deal.

Before doing so, however, I suppose I should give some definition of what one means by civilisation, by way of clearing the air. Briefly, I should define civilisation as the sum total of human knowledge and its application to the comforts of life. So Vergil includes in the number of the blessed souls in Elysium, "Those noble bards who spake words worthy of the god they served and those who by their arts and inventions improved the life of mankind."

Now, in the first place, Roman civilisation, though a very great one, was merely local compared with ours. Secondly, the chief cause of its collapse was barbarian invasion.





Back of every S.T.C. Radio stands the world's greatest sound transmission and reproduction

organisation.

Since the birth of the telephone S.T.C. have been developing and manufacturing appliances for the transmission and reproduction of sound, and have pioneered in the development of both radio and radiotelephony. . To-day S.T.C. is the largest organisation of its kind in the world and has behind it an amazing record of leadership in its field. S.T.C. was chosen to equip the famous Rugby (British Official Wireless) station, and also for the radio telephone service from England to America. and Australia. The new B.B.C. British Empire station will be S.T.C. equipped White Star and Cunard liners are equipped with S.T.C. radio telephone apparatus, and it is also used by the British Government for maintaining contact with air services operating from Hendon Airport. . S.T.C. has been the choice of nine European Governments as well as those of Japan, South Africa and Australia. In New Zealand, S.T.C. equipment was used for the four YA stations, and the N.Z. Telephone System is an S.T.C. installation. . The same efficiency and dependability which have given S.T.C. radio such overwhelming world preference are built into the new Silent Tuning S.T.C. Radio receiver. To buy a new radio without inspecting the S.T.C. is to discount the judgment of the world's largest and keenest radio purchasers, and that is something no one can afford to do.

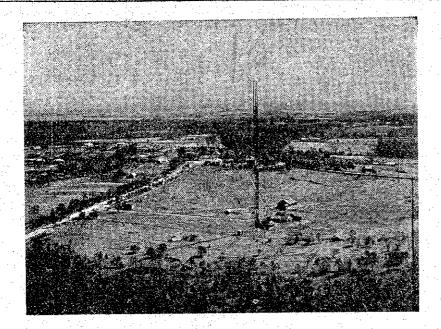
SILENT TUNING

One of the notable features of the S.T.C. is Silent Tuning. With this convenience, the set can be silenced without altering the tuning or volume controls or switching off the current, and one station may be tune into from another without the blare of powerful intervening stations.

The New STC RADIO

Standard Telephones and Cables (Asia) Ltd.

The most powerful short-wave station in the Southern Hemisphere is situated at Pennant Hills, Sydney. It is used in connection with the Australia - New Zealand-England telephone service. Lower — The antenna of G5SW, London, a station which brings to the New Zealand home the chimes of Big Ben, London.



Shortwave

at Call on

The World

"Observer"

several controls, and sets of coils, but modern radio development has made all this un-One can use a modern adapter necessary. which, a.c. operated, fits into a neat cabinet to be placed on the ordinary radio set. The

aerial is attached to the adapter and a connection is made between this and the set. The earth is connected, and the set is ready to do its work, to bring in the broadcasts from near and far. Generally, there is a switch in the adapter with which one can select the wavebands and also cut the adapter completely out of the circuit. In a modern instrument there are no coils to change and no regeneration to master. Short-wave tuning is not quite as simple as broadcast, but it does not take long to learn the principles involved.

HE successful rebroadcast of the Australian short-wave station 2ME's description of the Rugby match, All Blacks versus New South Wales, once again emphasises the tremendous value and possibilities of short-wave broadcasting. It brings home the fact that short-wave broadcasting is now well past the experimental stage, and that on these frequencies there is a great amount of real news and entertainment to be picked up. While this great match was certainly something out of the common, and was consequently rebroadcast by the YA stations, rebroadcasts are not always possible or even desirable, and there is much of interest on short wave that the broadcast listener misses.

Last Saturday we listened to the broadcast and were thrilled with the description. Because of radio we followed the teams up and down the field, and saw in mind's eye the huge crowd that forgathered to see the event. But the description of this one match is nothing out of the common as a short-wave feat. Descriptions of other matches of the tour will be on the air, irrespective of whether the YA stations broadcast them or not, and they require only a simple short-wave set

in order to bring them in.

Football enthusiasts are not the only ones who are catered for. The many sporting activities that are taking place on the other side of the Tasman, and elsewhere for that matter, are put on the air in Take, for instance, the Kirk-Windeyer Cup golfing results. All these were broadcast soon after they were known in Australia, and any golfing enthusiast with a short-wave receiver was able to get them direct and hear them long before they were broadcast from our ordinary broadcast stations.

THEN there are the descriptions of the famous Australian horse races. These go on the air but cannot be tuned in unless one has a receiver that is able to pick them up. The recent boxing match for the world's championship was likewise on the air, and similarly the Eucharistic Congress. One could go on instancing a thousand events of world importance that have been broadcast on these high frequencies.

They are on the broadcast band, too, but the peculiarity about radio waves is that the longer the wavelength the shorter the range of the station, so that if these broadcasts are made on long wave it is impossble

for them to be picked up at any great distance.

Many of the Australian stations were broadcasting the All Blacks' match on Saturday, but only the short waves were able to be picked up here satisfactorily. Similarly with other events around the world. They are all on the air, but they can be received only on short Just why it is possible for short waves to penetrate further than the broadcast is another story; sufficient, then, to say they do.

Until only recently the receptions of short wave meant a battery set or a battery adapter. It meant pulling out valves from the main set and plugging in the adapter. It meant jiggling two or more dials,

Editorial Aotes

Wellington, Friday, July 1, 1932.

likely to have serious consequences itself. to listeners, and in the second in- itself is to have knowledge of what stance upon the popularity of radio it is buying and the consequences in general. This is the dumping of likely to be entailed. cheap American sets upon this market. The radio situation in America in recent years has followed a CHEAPNESS in radio can be peculiar course. In 1929 peak sales secured only at the expense of facturers prospered from those record sales, and their prosperity inthe field by the profits secured by the reputable manufacturers through 1930 and 1931 the American market was over-supplied. Instead of should be prepared to do their part radio sales increasing they decreased. Various factors influenced this First, the depression had begun its malign course; secondly, the public Radio is prospering at the present different to radio through overand, third, the cheap and trashy sets that those now buying radio sets, left a feeling of discontent in their however, should be permanent train through failure to give the listeners, and not become disgruntled service required.

the most attractive from the point of past. Already these cheap sets are fact that cheapness in itself is made

A RADIO situation is developing find their way to the public. The which in the first instance is public must take steps to protect Its only way to protect

were made of radio sets of good quality. It is true that some of quality and repute. Radio manu- these cheap sets give initially good performance, both in range and tone. They are not, however, stayers in cited the development of a number the performance field. The equipof competitors. These competitors ment put into them is not-cannot were inclined to be of the get-rich- be—of good quality, and does not quick type, having been attracted to last. Before long, the initial satisfaction of the buyer with his bargain fades under the pressure of the marketing of good sets on large continual service. The efficiency scale. To break into the market of a set depends upon its valves and the new-comers to the radio field cut its general mechanism, apart from quality in order to give a low price. its appearance. The quality appeal Utilising mass production methods should be the first consideration in they churned out millions of radio the mind of a prospective buyer. sets, with the result that throughout Those who already possess radio 1930 and 1931 the American marsets, in the interests of radio itself in informing intending buyers of the considerations that should weigh with them in purchasing a set. was to some extent becoming in- time. The depression is increasing the demand for cheap entertainment exploitation of the advertising field; afforded by radio. It is important through dissatisfaction with the performance of an inferior set. In WITH this overplus of sets upon the interests of radio in general it their hands, the manufacturers is important that the quality factor sought fresh fields to conquer. Of should override the price factor in all the markets available to them, the buyer's mind. The competition of dumped sets has forced the price view of suitability to their needs is level of good sets down to the the New Zealand market. True, this lowest margin known. There are market is small, but it has been a plenty of good sets being marketed good buyer of American sets in the by reputable dealers, and the very finding their way to this market, the predominant appeal in certain As much protection as possible is cases should put prospective buyers being given to the public by the Cus- on their guard. Unless the public toms Department, but in the absence protects itself, dumped radio sets of an absolute embargo upon their will leave a trail of individual disimportation, the sets are bound to content and damage to radio.



In Phase and Out

By "Quadrant"

FIRST thoughts—football. A good rebroadcast slightly marred by noise, though technically a splendid There are big possibilities in this direction, and I imagine that in a short time there will be a great deal of it done. Do you remember the first rebroadcasts? There is a marked improvement to-day.

HAVE you ever thought of having a radio set built in when making alterations or having a house designed? I saw an example of this at the pictures the other night. The skilfully-The skilfullybuilt radio was part of the architecture of the room; it would not have been noticed had not attention been drawn

The Wellington Chamber Music Players

Will play the First Movement of Mendelssohn's "Trio in D Minor"

From 2YA on July 4.

to the fact that it was there. Incidentally, the background music for the scenes in this home was supposedly supplied by radio, and the effect of a modern home was instantaneous. Radio is being looked upon as part of every home equipment these days.

2ZW showed commendable enterprise in relaying from the Wellington Show, but I think some of the speakers at the opening were imposing on good nature, and went off at a tangent to tell listeners that there was such a thing as a depression going on at present. Don't we hear enough of this with-out having it hurled at us through the

wadio? derness of his force.

WAITING for the church service heard of since!" from 2ZW at 7 p.m. on Sunday last—realism—stark realism.

How is this for a tongue-twister? It was used to weed out 300 can-didates who applied to the National Broadcasting Company (U.S.A.) for an announcership: "The seething sea ceaseth and thus the seething sea sufficient us." And this one used by the French for the same purpose is quite as effective. "Un chasseur sachant as effective. chasser chassa son chien de chasse dans un sachet seche." It means, I think.
"A hunter who knew a thing or two about the chase, hounded his hunting hound into the dry thicket." It is hard enough in English, let alone French.

AN English radio expert is reported to have said that the probable effect demurred, of radio waves on the atmosphere is to heat it slightly. Radio, then, has distinct possibilities in fields other will give me a coupon. Thank youthan the inevitable jazz, sports and Good-bye."

church services, for which I am truly thankful.

A SURPRISE item from 2YA recently took the form of a broadcast from Wellington College. Splendid! It brought back old memories in good style, but one thing was missing. The picture of one's old school is never complete without its "agony" chamber." It was "Room 10" in mine, and incidentally it loomed largely in my school life.

THIS idea of surprise items can be extended ad infinitum. May we survive enough to hear relays from a radio constructor's den when his set won't go: the Wellington Harbour Board's office if the floating dock sank; the "B" station owners is their licenses are not renewed; from the putting green of a local golf course (at no particular time); and from a bright party at about 2 a.m.

AS soon as we stop having the last word in radio sets we might get somewhere and let the industry get there too.

LET us get away from the usual run of talks—the depression, the farm and home, the powers that be and those that don't be, and be original. What is wanted is action: "How I was Lost in the Tararuas," by a well-known foorball player; realism, "Running the Blockade," by a motorist who had not renewed his driver's license; imagination, "What my Set will Do," by a member of the DX Club; force, "The Tariff on American Radio Goods," by a dealers' representative,

QUITE often the broadcasts for lost relatives and friends are success-This story concerns a broadcast for a certain precocious youth of tender years who was, some time after the broadcast, found by a policeman. crying bitterly.

"What is the matter, sonny?" asked the limb of the law with all the ien-

haven't been

YOU have noticed that after a while the wires supporting the masts of your aerial begin to sag and need more or less continual tightering. If ever you have occasion to renew the stays use wire manufactured in Scot-land. So h wire is sure never to give.

I was told this story "for what it was worth": Someone rang up the "Record" office the other day and asked to speak to the Technical Editor. I understand he will not answer queries over the phone, and after some discreet questioning it was ascerta ted that this person was in difficulties with her radio. She was told respectfully to fill in the coupon and post the query to the office. The fair liste. 2

"O er, Oh, yes. I have a friend who takes the Radio Record." He

Margherita Zelanda

To Tour the YA Stations

THE New Zealand Broadcasting Board announce that special arrangements have been completed for Madame Margherita Zelanda, one of New Zealand's foremost coloratura sopranos. to tour the board's stations at Auckland, Wellington and Christchurch. Madame Zelanda is well known throughout the Dominion, both before the microphone and on the concert platform, as a celebrity artist of quality, and she will be assured of a warm welcome from listeners in all parts of the Dominion on her northern trip.

Zelanda is to appear at 2YA on two occasions with the new 2YA Concert Orchestra, under Mr. Leon de Mauny, and special scoring is being arranged for the effective presentation of some of Zelanda's most popular numbers with orchestral accompaniment of a nature which has hitherto not been available over the air.

Zelanda is scheduled to appear at 1YA of August 3 and 4, at 2YA on August 1, 6, and 9, and at 3YA on July 29 and August 12.

Professor W. H. Gould's

Widespread Interests

PROFESSOR W. H. GOULD recently concluded from 2YA a series of four W.E.A. talks on Education and Development. In these talks he dealt in a simple and practical way with many of the difficulties of child development and explained many of the problems with which parents find themselves confronted.

Professor Gould's talks have aroused the keenest interest among parents, and he has received a large number of letters of appreciation from listeners and requests for further talks. The letters come from as far afield as Bluff and Invercargill.

Several of his correspondents express the desire to have the material of his talks in printed form, and in response to numerous requests it is Professor Gould's intention to prepare and publish shortly a pamphlet on "Child Development," in which he will rehearse and expand the material of his talks.

Audland Winter Show

Broadcast of Proceedings

HIS EXCELLENCY THE GOVERN-OR-GENERAL will officially open the Auckland Winter Show on July 13 at 7.30 p.m., and the proceedings will be broadcast through Station 1YA.

THE 1982 GUIDE and CALL BOOK 1 160 pages crammed with useful and interesting matter. On sale everywhere 2/6, or 2/10 posted. Box 1032, Wellington.

Imports of Radio Sets Down

Parts Remain the Same

THE Customs return for May, 1932, indicates that the value of radio sets imported was £4000 lower than that for the corresponding month last year. Parts, on the other hand, were £700 in excess of last year.

The following return from the Customs Department shows particulars of the imports into New Zealand of wireless sets in cabinets and other wireless apparatus during the month of May, 1932 :---

Amole-

Country or origin.	land.	Wellington.	LytteIton. £	Dunedin. £	Other ports.	Totals:
	Wirele	ss Sets Mour	nted in Cal	binets.		
United Kingdon	29	1310	. 21 808	·	4	1,364 808
Australia	492	$\frac{1479}{4225}$	 141	209		1,479 5,067
Totals, May, 1982	521	7014	970	209	4	8,718
Totals, May, 1931	4521	4789	2882	428	4	12,62 J
)thop A	ppliances Pe	enliar to V	Virolegs		-
United Kingdon	548	1622	Cultur bo ;			2.170
Canada	6		262	·		268
Australia	858	860		Paningers		1,718
Germany	-	47				47
Netherlands		451				451
U.S.A	2163	3389	372	105	25	6,051
Totals, May, 1932	3575	6369	634	105	25	10,708
Totals, May, 1931	2928	5198	1215	609	66	10,010
						

The values shown represent the current domestic values in the countries of export plus 10 per cent.

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Listeners' Strike in Germany

A THREATENED listeners' strike in election failed to materialise. The aggrieved listeners-National Socialists plaint was that Hitler was not allow- of Hindenburg.

ed to broadcast. Throughout the election only the Government were allowed to use the broadcast microphone. Certain of the broadcasting organisations appeared to object to the Government Germany during the Presidential monopoly, and strange rumours spread concerning the real cause of the breakdown of one of the stations in the midst -numbered 13 million, and their com- of a speech by Dr. Bruning in favour



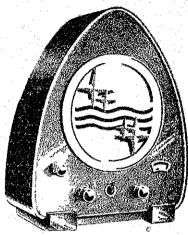
"Around Europe by Air in an

is the title of a novel entertainment to be broadcast from 4YA on July 4

At 8 p.m. listeners will leave Ireland on a musical tour of the British Isles and Europe, passing through Scotland, England, France, Spain, Italy, Hungary, Austria, Poland, Germany. and Norway, arriving back in England at 9 p.m.

Here it is! BRITISH

Radioplayer



NEW THE

THIS is the Set New Zealand has been waiting for! Set created with two ideals in view. A low price and a quality Both have been performance. achieved. The price is the lowest at which quality radio can be produced, and the performance is such that even experts are amazed at its remarkable fidelity. There is only one way to discover for yourself just what an advance the new 930A is on other Sets-and that is to hear it! Arrange for a demonstration toand remember-IT BRITISH MADE.

AT THE LOW PRICE OF

See the name PHILIPS on Every

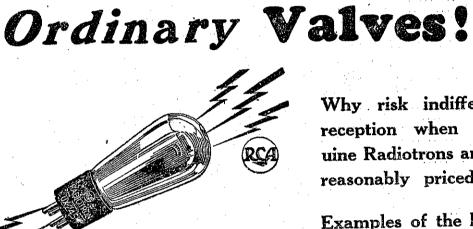
ASK TO HEAR THE NEW

Advertisement of Philips Lamps (New Zealand) Limited. P.O. Box 1673, Wellington.

Z44x0094244C19202990C40022CC4CC44CC42C024CC63C0

W105b

And now RADIOTRONS Cost less than



Why risk indifferent reception when genuine Radiotrons are so reasonably priced?

Examples of the huge price reductions:-

UX 245 UX 280

UY 224 was 16/- now 11/-RCA 235 was 19/6 now 13/-RCA 247 was 18/6 now 13/6 was 14/- now 10/was 14/- now 10/-

> RADIOTRONS ARE STOCKED BY ALL HIGH-GRADE RADIO SHOPS.

Amalgamated wireless Wireless (Asia) Ltd.

P.O. BOX 830, WELLINGTON.



THE round-by-round description of the Sharkey-Schmelling boxing bout by 2YA was a triumph, and the pity of it was that it did not occur on a Saturday afternoon, when more would have been able to hear it. An excellent rebroadcast would have been possible, but I presume permission for this was unobtainable. The transcription, however, was a great success, and all concerned are to be congratulated.

NEVER listen to Mr. J. W. Fergie from 2YA without wondering why the crest or brand of our rail-ways is not N.Z.N.R. instead of N.Z.R. A name is a wonderful thing and were our steel road and its appurtances invariably referred to as our National Railway, the people would shortly realise that they own them, and are responsible for them. In season and out of season this should be broadcast, and just as cotten should the Broadcasting Board remind listeners that broadcasting Happily for the belongs to them. taxpayer broadcasting cannot be a liability, but the railways have been and can be again and again. But what would New Zealand be like without the long view having been taken, or again as Mr. Fergie remarked, what would it have been had there been no Royal Navy. Both services can be a liability, but they insure our being. The motorist may fairly claim that by taxation he has helped to make many country roads a real asset to the nation-in fact no motor service would assert, with the capital cost of the road a taxpayer's liability, that it is not competing unfairly with the railway running parallel to the road. In my opinion, all motor services competing with the railway should be regarded as "express transit," and paid for. The extra cost should be attached to wipe off the capital account of the road and the motor transport company charged rent of the road on a mileage basis.

LIVELY discussion was under way as to who was the most changed his opinion, however, after his final speech from the The Director-General is prob- had been distributed from the fam- holding a small sized violin in one mercialisation of radio by

This Week's Winning Par.

THIS week's prize of 5/- goes to DX29W (Wanganui) for the following:---

This afternoon I was walking up the street with a friend who is a radio enthusiast, and I mentioned that WOWO was putting on a DX programme for N.Z. on Wednesday at 10 p.m. and we would get it here about 3.30 p.m. on Thursday. He looked at me unbelievingly, saw I was serious, and exclaimed: "Gee Whiskers! It takes long enough to get here, doesn't it?"

A prize of 5/- is awarded weekly to the contributor of the best paragraph with a radio interest. Address contributions to "Spark," Box 1032, Wellington.

favourable position to mould public nation Good night." opinion. Sir John is not easily moved from a decision, and made up his mind at the start that he would not be a party to under-estimating the inoff was in Lordon a family public intelligence. "Radio," he says, can make democracy safe for the world," and Sir John and his staff are endeavouring to make radio safe for democracy.

Winter Show by 2ZW was made records is hard to follow. I do go, however, I intend to see increased sales of recordings? the soap stall last, the description some are luxury racing tracks-but of which was almost overwhelming.

of broadcasting, a typical item was remember he was not more than 25, given from each studio. At the con- but at the time had already his now way as to who was the most given from each studio. At the control but at the time had arread, but at the time had arread in British listeners, are likely to North Briton asserting that Scotland were heard to drop connections and had annexed England in 1707 fav- close the doors for the last time. The who married an Englishwoman, his The canny Gaul, although welcoming outed the Prime Minister, who is also last words spoken from the old build-talent for music was manifested at the income that these programmes from the "Land of Cakes. He ing and the motto of the B.B.C. six years of age as the following have meant to his nation, is now the result is considered the control of the prime Minister, who is also last words spoken from the B.B.C. six years of age as the following have meant to his nation, is now gained an added significance when story reveals. One day the conduct finding that France is slipping in hearing Sir John Reith, also a Scot, heard at one minute past midnight, tor of a Croydon theatre orchestra, radio development upon national as an epitaph, to the nine years in looking out of his window, saw a lines. make his final speech from the as an epitaph, to the nine years in looking out of his window, saw a lines. There has been so much cor-L.B.C's. old headquarters at Savoy which entertainment and information little, curly-headed, black-faced boy respondence, deprecating the com-

ably the most criticised man in Bri- ous building on the Embankment. tain, and no one has been in a more "Nation shall speak peace unto

inoff, was in London a few weeks ago, and in an interview expressed the opinion that broadcasting is bad for art. Rachmaninoff hates the idea, for he says that nothing can convince him that the result is How he reconciles this artistic. position with his agreement with the THE relay of the opening of the gramophone people to make his Is it temrealistic by the narrator that I perament or is it insufficient inducefeel attendance is unnecessary. If ment? Or, does the stand make for

twenty-two better ones in the new "We must respect the man who July 1. premises. Before there was uttered makes such an assertion." And our the solemn prediction of the future respect is the greater when we

hand and playing marbles with the other. He called the boy in and put some music before him, and was delighted to find that he could play it in perfect time and tune. From that time the child, whose name was Samuel Coleridge-Taylor, was ear-marked for music. While still at marked for music. While still at school he led the class-singing with his violin, and began to appear in public. Some few years later he was enrolled by a local benefactor, as a student of the Royal College of Music. As a student of the college the youth produced the first part of "Hiawatha," a work that exhibited both racial and individual qualities, and attracted immediate admiration. It was in the Hall of the Royal College that it had its first performance. Stanford conducted, and Sullivan was present. The evening was a triumph and heralded his brilliant career. That was in 1898, when career. Coleridge-Taylor was twenty-three. He lived only fourteen years more, dying, like Purcell, at the age of thirty-seven. It has been said that not long before he passed away he sold the copyright of all his works for the sum of £100. Within a few weeks of his untimely end a fund was opened on behalf of his widow, who found herself in reduced circumstances. Thus not only did music lose a powerful disciple, but his dependants were never to reap any benefit from his life work of composing.

In the twenty years since death Coleridge-Taylor's music has come to occupy an almost unique place in the affections of cultured music-lovers. He was in later life NOTICE in this Friday's pro- a fervid apostle of colour, his negroid THE final programme transmitted Mauny's orchestra is playing Coler- pride to him. A believer in the from the old headquarters of idge-Taylor's "Incidental Music to folk-song element in art, his aim was the B.B.C. was one that stirred the emotions. Its character illustrated the development of British broadathe development of British broadathe a note of sadness, but listeners and artists alike said bood-bye to the sight extractions. In the old huilding with the commons of the common of t eight studios in the old building with it in me to compose." Well might tra can give a good account of itself the knowledge that there were the Lord Mayor of the city declare: in this colourful composition, on

> BRITISH sponsored programmes from French stations, for French and British listeners, are likely to be much curtailed in the near future. There has been so much cor-

eigner, that the Post and Telegraph Department has asserted that the position now appears to be intolerable.

THOSE wireless announcers who inflict their "refaned" accents on the rest of the world and teach us how the words we are afraid to use are really pronounced, are finding the way to the microphone harder and harder. Recently at an audition one young man pronounced "Gregor Piatigorsky" correctly but faltered at "Ase's Tod," the name of one of the movements of the Peer Gynt Suite, "Badinage" proved the undergo of an applicant who was a suite of the peer Gynt Suite, "Badinage" proved the undergo of an applicant who was a suite of the peer Gynt Suite, "Badinage" proved the undergo of an applicant who was a suite of the peer Gynt Suite of the peer Gy doing of an applicant who was safe on "Cavalleria Rusticana." Each applicant was escorted into a small studio and seated at a desk. was handed a manuscript, the first paragraph of which contained such words as: "Athenaeum, belles-lettres, sine qua non, apothegm, caballero, bel-esprit, stymological, and bon mot." If he negotiates the test of reading these words, the aspirant is then asked to read this: A resume of a few of the programmes of the Philharmonic Society's broadcasts gives a fair idea of the genre of the announcer's work during a symphonic hour. His musical terminology must be facile, for, although he may have prepared his continuity for the Handel Concerto Grosso, he may be asked to announce, at a moment's notice, the programme notes for the largo, adagio, and finale of Haydn's Symphony in B flat major. The following week his linguistic savoir faire may again be put to the test when he announces the 'cello virtuoso, Gregor Piatigorsky. Continuing in the Slavic vein, his tongue may trip over the announcement of Prokofieff's suite from 'The Prodigal is not stated. Son,' or he may meet his Waterloo with the pronunciation of the Czech Titans' names, Antonin Dvorak, Drdla, and Friedrich Smetana.

scherzo of Mahler's Fifth Symphony, together with Krenek's suite from the music to Goethe's 'Triumph der Emp-findsamkeit,' will give him an oppor-tunity to display his knowledge of

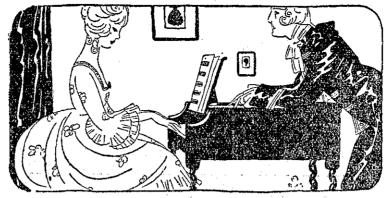
"Of course, even the commonest of musical terms might sometimes rov, a Bach fugue, Puccini, Paderewski, Weiniawski, Tradier, 'Ase's Tod' and 'Peer Gynt.'"

Then the aspirant has to negotiate

some tricky terminological hurdles, made up of words gathered from the

FIGURE SKILL COMPETITION

Owing to the large number of "last moment" entries received for the above, it was an absolute impossibility to furnish the necessary list of prize-winners in time for publication in this week's issue of the "Radio Record," and the announcement of Results will have to be held over until the issue of Wednesday next, the 6th of July.



A Programme of

Music French

Will be broadcast from 4YA on WEDNESDAY, JULY 11

Bv

the Concert Orchestra and assisting artists, including

Margherita Zelanda, coloratura soprano.

left to the imagination—such as selves, and I'm wondering if they Admiral Shiosawa, Chapei, Whang- can do it again. How many apprepoo, and Tsitsihar.

forthcoming if the applicant's deliv- a swing? ery and tone are impressive.

date who pronounced the words so that anybody could understand them mained on the air to attempt a re-

"Again, the Trauermarsch and the broadcast of the description of the cast a message with his blessing to New Zealand versus New South the gathering. Wales Rugby match, for with such listeners must have been keenly diswretched weather there were probappointed that wireless conditions ably more listeners to this broadcast were so bad, but, apparently, New than to any other, for a long time. The announcer could rise to the occasion when brilliant play happened, too, so we shall all hope that prove a stumbling block: 'Cavalleria better conditions prevail for the next Rusticana,' badinage, Kamennoi Ost- match. Some of the rebroadcasts of 2ME have been 100 per cent., and 'Ase's the next one might be.

> STATIC was fearful, yet I nevertheless enjoyed the short reviews ing in Europe, where she was received with much enthusiasm. given by Mr. W. B. McEwan (4YA) of some of the newspapers printed by the New Zealand Forces during the War. Like everybody else I have often read snatches from similar publications, but all Mr. Mc-Ewan's fragments were new to me. The subject was not exhausted, and I hope further excerpts may be given in the near future.

Far East—and what would happen thing good from the Optimists, but if Wales came into the news can be on this occasion they excelled themciate the fact that there must have The entire script must be read been many hours spent on constructhrough without a blunder to qualify tion and rehearsal, before such a for a job—which may perhaps be show could be made to go over with

Sunday night when stations rebroadcast of the closing ceremonies in connection with Pontifical High Mass at the International Eucharistic Congress at Dublin. At this cere-TT'S a great pity that conditions mony a land line was to be utilized were so unfavourable for the re- for His Holiness the Pope to broad-The many devout Zealand was not the only country to suffer, as it was announced that neither Australian or American stations were heard rebroadcasting.

> GOOD news! Mde Margherita Zelanda is to tour the YA studios. and listeners throughout the Dominion will therefore be able to hear this delightful coloratura soprano to advantage. Madame has had a wide experience and completed her train-

Radio Popular in Germany

Over Four Million Licenses

ONE of the brightest programmes A CCORDING to a dispatch in the London "Observer" at the end of from 2YA for some time was Janaury, there are now upward of ing that no space at that given by the Y.M.C.A. Optimists' 4.000,000 listeners in Germany. The voted to advertising. Club, under the title "A Darkey's total has swellen by over half a milnow filled about 20 m Birthday." We always expect some- lion within the past year, this great morning programmes.

expansion being directly due, curiously enough, to the depression which has afflicted Germany. As the wireless license amounts to 6d a week, this gives the Post Office a revenue of well over £4,000,000 a year.

The broadcasting companies require for their technical and artistic staff, including programme contributors, the sum of £2,000,000, according to pre-Ministerial calculations. liminary Sixty per cent. of the license fee is therefore deducted immediately at postal headquarters, and the rest distributed among Germany's broadcasting stations.

In view of the increase in total revenue, an agitation arose for reduction of the license fees from 2/- a month to 1/6 a month. Accordingly the Prices Commissioner was instructed to investigate the question, and he was surprised to find that the recent notable increase in numbers was directly due to the reductions made in salaries and wages. These reductions made visits to the cpera, the theatre and the cinema an impossibility for many more people than formerly, consequently they took up radio. In spite of these investigations, Cabinet decided not to reduce the license fee on the ground that wireless does not come under the head of a necessity of life.

An interesting point illustrative of the German psychology is mentioned in the dispatch. This is that German listeners, however desperate the poverty that afflicts them, do not attempt to evade their responsibility in regisrration. The reason is that the average German dare not play pirate, even if he desires. In the poorer quarters What would happen to a candibe really friendly on account of the constant differences that exist on the subject of the stairs, dust-bins, the communal washhouse, and a dozen other domestic evils. The commonest form of retaliation when radio first began to be popular was to play the part of informer to the Post. This meant a confiscation of the receiving set and a fine as well; hence the forced honesty of the German poor.

The distribution of space at Germany's various broadcasting stations shows very clearly what the various localities are interested in. Whereas literary and intellectual Berlin devotes only 52 per cent, to musical items, Frankfurt, Cologne, and Breslau devote 60 per cent. to music, Leipzig 61 per cent., Stuttgart 62 per cent., Kon-igsberg 66 per cent., and Ham-burg 70 per cent., with the other cultural centre, Munich, just overtopping Berlin by 1 per cent. with 58 per cent. Berlin and Munich have the highest per cent. of lectures or talks, 33 per cent. and 31 per cent. respectively, with the other 15 per cent. and 16 per cent. devoted to "literary items." Frankfurt follows then with a balanced programme of 20 per cent. literary features and 20 per cent. talks, but Hamburg is literary to the extent of only 9 per cent, of its programmes, Leipzig 11 per cent., and the other stations ranging from 12 per cent. to 14 per cent. After Berlin and Munich, Leipzig has most "talks," which fill 28 per cent. of the programme, while other stations range from 20 to 26 per cent.

All Germany is unanimous in declaring that no space at all should be devoted to advertising, which has till now filled about 20 minutes of Berlin

Next Year's Radio-Here TO-DAY!

With New Models that are 12 Months ahead of All Competitors

Less than three weeks after leaving their super-skilled makers' hands—and the New 1932 Majestic models arrived in Auckland by the S.S. MONTEREY.

Surpassing even the famous Majestic models of previous years, these astounding sets present the greatest array of important developments ever offered in any radio. More than a dozen major engineering improvements are included, and Majestic alone has them ALL—many of these revolutionary features are entirely exclusive to Majestic.

STATIC ELIMINATION Tremendous Power from Majestic's

Quiet Reception, Freed from Harsh Noises.

By far the most important recent development in Radio is Majestic's amazing AUTOMATIC SYNCHRO-SILENT TUNING. This "noise suppressor" affords Static Elimination to an infinitely greater degree than ever before. No blastings, no roars, no crackles, but the type of reception that radio engineers and the general public have always looked for. Just imagine a radio with static practically cut right out. At last, here's a radio really worth while. And, of course, it's a Majestic.

PRICES from

1001

9 VALVES

Realising that more valves mean more power, the Majestic designing engineers have incorporated 9 valves in the "Madison" model, illustrated here. Seven of these valves are entirely NEW and exclusive to the Majestic—the most sensational improvement yet made in valve design. With the enormous power of 9 valves, the Majestic combines distance getting, sensitivity, and tone that must be experienced to be believed. Cabinets of rare beauty and distinction make these new Majestics the most beautiful sets you have ever seen.

See, hear and buy a 1932 Majestic to-day.

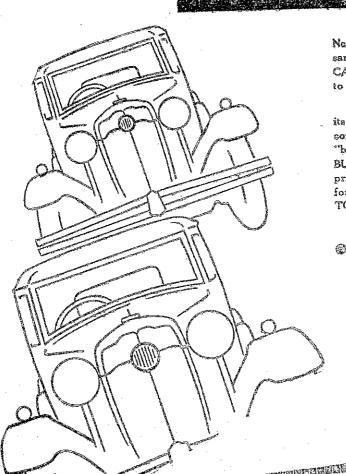
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There is a Majestic Dealer in every town in New Zealand. Write to your nearest one for Free Illustrated Literature.

New Zealand Representatives: SPEDDING LTD., P.O. Box 462 AUCKLAND.

is the Time to Change to the Motoring Economy



BUY YOUR ROVER "TEN" NOW! With the benefit of economies of New Zealand manufacture, the price has been greatly reduced-yet, at the same time, this local production has resulted in a GREATLY IMPROVED CAR, incorporating special body-work and other features designed definitely to suit local conditions, and add greatly to service and value.

Only in the Rover "Ten" -- with its full-sized, four-door saloon body, and its famous overhead-valve, high-efficiency engine-do you get all the style, comfort, and performance of a big car, with almost the operating cost of a "baby"-a proved 34 m.p.g. of petrol, and 1000 to 1500 m.p.g. of all. But BUY NOW! An increase in exchange must inevitably mean increased car prices. Your Rover dealer is in a position to offer you an attractive figure for your present car. SEE HIM ABOUT YOUR NEW ROVER

o o and the price is reduced to

[Old Price £295]

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Music Lovers' Competition

Detailed Lists of All Items Broadcast

1YA. Auckland

No. 1 .-- 1. Light Cavalry: 2. Until: 3. By the Waters of Minnetonka: 4. Old Folks at Home; 5, My Blue Heaven; 6, Singin' in the Rain; 7, Somewhere a Voice is Calling; 8, Knocked 'Em in the Old Kent Road; 9. Songs My Mother Taught Me; 10, Song of the Volga Boatmen.

No. 2 .- 1, Repasz Band March; 2, O Promise Me; 3, Melodie d'Amour; 4, Till the Sands of the Desert Grow Cold; 5, My Ain Folk; 6, Soldiers in the Park; 7, La Paloma; 8, Asleep in the Deep; 9, Mocking Bird; 10, Soldiers' Chorus

No. 2.—1, Nola; 2. Little Dolly Day-dream; 3, O Star of Eve; 4, The Doll Dance; 5, Boys of the Old Brigade; 6, I Get the Blues When it Rains; 7, Down the River of Golden Dreams; 8, Flight of the Bumble Bee; 9, Wedding March (Mendelssohn); 10, Softly Awakes My Heart.

No. 4.-1, Soldiers of the King; 2, Two Little Girls in Blue; 3, Absence Makes the Heart Grow Fonder; 4, Sally Horner; 5, Little Irish Girl; 6, Come to the Fair; 7, Riding Down to Bangor; 8, There is a Tavern in a Town; 9, Funiculi Funicula; 10, The Deathless Army.

No. 5.—1, The Flying Dutchman Overture; 2, Ave Verum; 3, The Smithy in the Wood; 4, Serenade (Toselli); 5, The Skaters; 6, When Your Hair Has Turned to Silver; 7, Deep in My Heart, Dear (Student Prince); 8, Simple Aveu; 9, The World is Waiting for the Sunrise; 10, Hearts and Flowers.

No. 6 .- 1, Zampa Overture; 2, Evensong; 3, Ave Maria (Schubert); 4, Wine, Women and Song; 5, You're the Cream in My Coffee; 6, Humoresque; 7, Lo; Here the Gentle Lark; 8, The Rustle of Spring: 9, Just a Gigolo; 10, Jeannine I Dream of Lilac Time.

No. 7.-1, Lohengrin Prelude; 2, Under a Texas Moon; 3. Rigoletto Paraphrase; 4, By the Blue Hawaiian Waters; 5, Meditation (Thais); 6, La Paloma; 7, 0 Sole Mio; 8, Tango (Albeniz); 9, Gypsy Love Song; 10, Morgenblatter.

No. 8 .- 1, Storm King; 2, Mary; 3, Baby Tank; 4, On the Banks of the Wabash; 5, The Floral Dance; 6, Nebraska; 7, E Pari Ra; 8, You're Just a Flower From an Old Bouquet; 9, Nocturnette; 10, Dawn of the Century. No. 9.—1, Trumpet Voluntary; 2, The

Broken Melody; 3, Dream a Little Dream of Me; 4, From the Canebrake; 5, Scene de Ballet Marionettes; 6, Singin' in the Rain; 7, When My Dreams Come True; 8, I Love to Hear You Singing; 9, Song of the Volga Boatmen; 10, Pastoral

No. 10.-1, Marche Hongroise; 2, Lay My Head Beneath a Rose; 3, Destiny Waltz; 4. I Love You So Much; 5, In a Chinese Temple Garden; 6, Frasquita; 7. I Love You (Grieg); 8, Lover Come Back to Me; 9, Indian Love Call; 10, Punjaub

2YA, Wellington

Threads Among the Gold; 3, The Old Dream (Scherzo),

In response to numerous requests to ourselves and the Broad- Norwegian Dance; 9, Salut d'Amour; casting Board it has been decided to publish the full detailed lists of all items broadcast in the Music-Lovers' Competitions held from each of the YA stations. From these lists competitors will be able to check their own entries. Will competitors please note that it is impossible to supply detailed scores of their entries.

Rustic Bridge; 4, Sonny Boy; 5, Merry Widow Waltz; 6, Mighty Lak a Rose: 7, Old Black Joe; 8, Spring Song; 9, The Rosary; 10, The Desert Song.

Banks and Braes; 3, Clementine; 4, Come Back to Erin; 5, Riding Down From Bangor; 6, It's a Long Way to Tipperary; 7, Home, Sweet Home; 8, My Bonnie Lies Over the Ocean; 9, Polly Put the Kettle On; 10, Keep the Home Fires Burning.

No. 3.—1, The Mikado Overture; 2, ashmiri Song: 3. La Golondrina; 4, Kashmiri Song; 3, La Golondrina; 4, Love's Old Sweet Song; 5, The Lost Chord; 6, Killarney; 7, Song of India; 8, Miserere—II Trovatore; 9, Bells of Aberdovey; 10, I Kiss Your Hand, Madame.

No. 4.-1, Sultan's Grand March; 2, Oh! Wert Thou in the Cauld Blast; 3, John Peel; 4, Loch Lomond: 5, There is a Tavern in the Town; 6, In the Sweet Bye and Bye; 7, A Life on the Ocean Wave; 8, Comin' Through the Rye; 9, Blue Bells of Scotland; 10, Auld Lang

No. 5 .- 1, Blue Danube Waltz; 2, The Wedding of the Painted Doll; 3, At Dawning: 4, Little Pal; 5. Turkish Patrol; 6, Down South; 7, Softly as in a Morning Sunrise; 8, Melody in F (Rubinstein); 9, Pale Moon; 10, In a Persian Market.

No. 6.—1, March of the Smugglers ("Carmen"); 2. Serenade (Schubert); 3, Hungarian Rhapsody No. 2; 4, Merry Wives of Windsor Overture; 5, Londonderry Air; 6, Funeral March (Chopin); 7, Golliwog's Cake Walk; 8, In the Hall of the Mountain King (Peer Gynt); 9, Louise; 10, Marche Lorraine.

No. 7.—1, Pomp and Circumstance; 2, Rondino; 3, Poupee Valsante; 4, Pizzicato (Sylvia Ballet); 5, Sidewalks of New York; 6, My Song of the Nile; To Spring; 8, Serenade (Braga); 9, A Perfect Day; 10, The Waltz Dream.

No. 8,-1, Blaze Away March; 2, The Anchor's Weighed; 3, Ever of Thee; 4. The Good Rhein Wine; 5, By the Side of the Zuyder Zee; 6, The Lark Now Leaves His Wat'ry Nest; 7, Knitting; 8, The Village Blacksmith; 9, Angels Ever Bright and Fair; 10, The Bridge.

No. 9.—1, High School Cadets; Madrigale (Simonetti); 3, Orpheus Hades; 4, Rose in the Bud; 5, Bells Across the Meadows; 6, Rhapsody in Blue; 7. It Happened in Monterey; Praeludium; 9, Drifting and Dreaming; 10. The Gladiator's Farewell.

No. 10.—1, Washington Post; 2, A Brown Bird Singing; 3, Lo Lo; 4, Will Ye No Come Back; 5, 1812 Overture; 6, The Moonlight Reminds Me of You; 7 Berceuse de Jocelyn; 8, Spin Spin; 9, No. 1.-1, Colonel Bogey; 2, Silver Keys of Heaven; 10, Midsummer Night's

3YA. Christchurch

No. 1.-1, Washington Post; 2, Indian Love Call; 3, When It's Springtime in No. 2.-1, Camptown Races; 2, Ye the Rockies; 4, After the Ball; 5, It Happened in Monterey; 6, O Sole Mio; 7, From the Land of the Sky Blue Water; 8, Humoresque; 9, Drink to Me Only; 10, Three O'Clock in the Morning.

No. 2 .- 1, The Minstrel Boy; 2, Dancing With Tears in My Eyes; 3, Ramona; The Dear Little Shamrock; 5, Over the Garden Wall; 6. Kathleen Mayourneen; 7, When Johnny Comes Marching; 8, The Prisoner's Song; 9, Lady Luck; 10, Believe Me If All Those Endearing Young Charms.

No. 3.—1, Tannhauser (Grand March); 2, Cuckoo; 3, The Policeman's Holiday; 4, The Swan; 5, Aloha Oe; 6, Was it a Dream; 7, Blue Pacific Moonlight; 8, Because; 9, Crying for Carolines; 10, Three Blind Mice.

No. 4.-1, Here Comes the Sun; 2, Till the Sands of the Desert; 3, Around the Corner; 4, Marcheta; 5, Always; 6, Mary of Argyle; 7, Tiptoe Through the Tulips; 8, The Last Rose of Summer; 9, Sweet Genevieve; 10, Bye Bye Blackbird.

No. 5 .- 1, Poet and Peasant; 2, The Erl King; 3, The Jolly Coppersmith; 4, Traumerei; 5, Sometimes I'm Happy; 6, Over the Waves; 7, Pagan Love Song; 8, Solveig's Song (Peer Gynt); 9, Hark, My Blue Heaven. Hark the Lark; 10, Parade of the Wooden Soldiers.

No. 6.-1, Wee MacGregor Patrol; 2. Polly; 3, Syncopation; 4, An Emblem; 5, By the Waters of Minnetonka; 6, The Pagan Song; 7, Fingal's Cave; 8, Thou Art Repose; 9, The Holy City; 10, A Room With a View.

No. 7.-1, Liberty Bell; 2, The Doge's March (Merchant of Venice); 3, Absent; 4, Invitation to the Waltz; 5, Sally of My Dreams; 6, The Woman in the Shoe; 7, Estrellita; 8, Gavotte (Mignon); 9, Singin' in the Rain; 10, Waltz of the Flowers (Nutcracker Suite).

No. 8.-1, Bambalina; 2, In a Little Spanish Town; 3. Love Sends a Little Gift of Roses; 4, Just a Night for Meditation; 5, Paradise; 6, Only a Rose; 7, Wedding Day; 8, Two Little Blue Birds; 9, Schon Rosmarin; 10, When Love Comes Stealing.

No. 9.—1, Marionettes' Wedding March; 2. Danse Espagnole; 3, Les Millions d'Arlequin; 4. In a Monastery Garden; 5. Moment Musical; 6, Lazy Louisiana Moon; 7, The Old Folks at Home; 8, Somewhere a Voice is Calling; 9, La Cinquantaine; 10, Ruy Blas Over-

No. 10 .-- 1, Dance of the Hours; Bird Songs at Eventide; 3, La Traviata Prelude; 4, Me and the Man in the Moon; 5, Saxophobia; 6, To Know You is to Love You; 7, Turkish March; 8,

4YA, Dunedin

No. 1.-1, Dunedin March; 2, Annie Laurie; 3, Londonderry Air; 4, The King's Horses; 5, Stein Song; 6, Barcarolle from Tales of Hoffmann; 7, The Glow Worm; 8 I Love You So Much; 9, A Perfect Day; 10, La Marseillaise.

No. 2.—1, Down by the Old Bull and Bush; 2, Rose of My Heart; 3, Under the Deodar; 4, Ellie Rhee; 5, Bells of St. Mary's; 6, Tarpaulin Jacket; 7, Telling it to the Daisies; 8, The Mill Wheel; 9, Sympathy; 10, Hi, Ho, the Merrio.

No. 3.-1, El Capitan; 2, My Old Kentucky Home; 3, Largo; 4, The Temple Bells; 5, Ah! Sweet Mystery of Life; 6, On Wings of Song; 7, Alice, Where Art Thou?; 8, Liebestraum; 9, Il Bacio; 10, Hallelujah Chorus.

No. 4.—1. When the Sergt-Major's on Parade; 2, Still as the Night; 3, Daisy Bell; 4, Just Before the Battle, Mother; 5, Rollin' Down the River; 6, Maggie Murphy's Home: 7. Moonlight Saving Time; 8, If I Might Come to You; 9, Ring the Bell, Watchman; 10, Oh! Dear, What can the Matter Be.

No. 5 .- 1, The Stars and Stripes for Ever; 2, Elegie (Massenet); 3, Faust Waltz; 4, To a Wild Rose; 5. Stephanie Gavotte; 6, Deep River; 7, When Day is Done; 8, The Fly's Courtship; 9, The Song is Ended; 10, Aida Grand March.

No. 6.—1, Oberon Overture; 2, Lily of Laguna; 3, Come Back to Sorrento; 4, Rag Doll; 5, Knocked 'em in the Old Kent Road; 6, Prelude in C Sharp Minor; 7, Narcissus; 8, Nearer, my God, to Thee; 9, Serenade (The Student Prince); 10,

No. 7 .- 1, El Capitan; 2, Andantino; 3, Minuet in G, No. 2; 4, The Grasshoppers' Dance; 5, The Maiden's Prayer; 6, Carnival of Venice; 7, Death of Ase (Peer Gynt); 8, Songs My Mother Taught Me; 9, Where the Shy Little Violets Grow; 10, Light Cavalry. No. 8,—1, Santa Lucia; 2, Eileen

Aroon; 3, The Gipsy's Warning; 4, Captain Morgan's War March; 5, Ever so Goosey; 6, Ticklin' the Ivories; 7, Solomon Levi; 8, Pilgrim's Chorus (Tannhauser); 9, Alexandra's Ragtime Band; 10, New Colonial March.

No. 9.—1, Entry of the Gladiators; Tiptoe Through the Tulips; 3, Valse Triste; 4, Souvenir (Drdla); 5, Seriramide Overture; 6, The Clock is Playing; 7, Miniature Overture (Nut-cracker Suite); S, Liebesleid; 9, Indian Love Call; 10, Marche Slav.

No. 10.—1, Entry of the Boyards; 2, L'Heure Bleu; 3, Funeral March of a Marionette; 4, The Swan; 5, Roses of the South; 6, Poem; 7, Pique Dame Overture; 8, Rakoczy March; 9, Dream Lover; 10, Country Dance (Nell Gwynn).

KNOW the time all over the world with a

DX Clock.

Posted in Cardboard Tube, Price M. "Radio Record," Box 1062,

Answer to Correspondent.

TOJ. (Wellington): If you write to the Radio Inspector, care of the P. and T. Department, Wellington, he will clear the matter up for you.

H.M.G. (Wanganui): It is not the Registrar who is refusing you your certificate, but the Wireman's Registration Board. Altogether the position is unsatisfactory, and needs straightening out in the near future. Thank you for pointing out that case of plaglarism: we noticed it just after it was too late: fortunately not to stop the award.

The Orchestra and the Standard of Music.

MIGHT I express my appreciation of the 2YA Concert Orchestra and of the work of Mr. Leon de Manny to further the cause of good music. Thanks are also due to Signor Truda and Mr. Dixon for the work their combinations did. It is a gross injustice to abuse Mr. de Mauny or Mr. Dixon as Mr. K. Johns has done. I am in agreement with the sentiments expressed by Chas. Smith, Karori. Classic and operatic music are types that appeal to the writer, and in a small place like this where no choir, orchestra, opera company or eminent soloists there is only the wireless to bring to one's hearing the works of the masters. The orchestras of 2YA have been a great boon to me in that respect. In my opinion they have the responsibility of giving forth to the public the finest and noblest expressions of the mind as found by those who are preeminent in the world of music. In fact it is their duty to educate the public. not the public to educate them.

Any reasonable man can see that the programmes cater as far as possible for all tastes; it is surprising how the standard is maintained.

I was impressed by the generally low standard of music in New Zealand when just after the war I used to spend the evenings at the Cologne Opera House, and later at Covent Garden. The vaudeville shows were packed, and only what might be called a sprinkling of New Zealanders were to be seen at the opera houses.

The reception of the 2YA Orchestra appears to depend on locality. I was listening to "Orpheus in the Under-world," "Sylvan Scenes," "Tres Jolie," using a horn and large moving-coil speaker, the latter with a three-feet baffle, and standing out in the room. The reproduction was distinctly good. the "inners" were clean and precise, and the double basses had a clean, full tone. To my way of thinking the gradation of tone should be worked back from a strong f. giving a much softer level for PP. When ff and beyond are reached clarity suffers. A big responsibility rests on the monitoring, and it is not a job for boys.

Without being deemed inconsistent, might I put forward a suggestion for Mr. de Manny's consideration, that of using the double bass for solo work, with plane or orchestral accompaniment. The plea may, be put forward that they are not recognised solo instruments, but the performers on these instruments can be just as much artists as those on violins, flutes and cornets. They could play "slow melody" solos such as "On Heaven's Just Cause Resuch as "On Heaven's and Cause welying," from Les Huguenots, also others of that type and class. Of course one does not expect "Lo Here the Gentle Lark," and that type of solo to be attempted on these instruments. Bass solos are given in choirs by men, and in

Our Mail Bag

exponents on the double basses, so why not solos in orchestras?

Classic music requires the use of the intellect, and for that reason does not appeal to many people. I trust that the orchestra will continue to develop and give still more pleasure to those of us who live in remote valleys and isolated districts .-- A. E. Elliston (Reef-

The Case For B Stations.

THE letters of Mr. Fitzgerald and DX42W regarding B stations are to the point. Generally speaking, the B stations give the finest programmes recordings, for the most part. These recordings of all kinds represent the best work of the world's leading artists, bands and orchestras. Hence the great popularity of the B broadcasts with the listening public. The present co-ordination of YA and B stations should not be interfered with, for I am sure that any action tending to close down the B stations will be reservices are so good and are so widely beginning of a general shortening of enjoyed that many radio owners would this session, which I do not think is not continue to pay fees in order to grudged by the city listeners. Also, listen to the YA stations alone. From I suggest that a fixed time be allotted time to time we read of harsh criti- for the weather report, and that all sented by listeners generally. The B

brass bands there are some wonderful cism of local talent, which, admittedly, is not generally up to, say, Australian standard. Still, the YA stations must use the best available talent in their centres-and they have an exacting public to eater for. Uniform pleasure and satisfaction all the time cannot be given by our group of YA stations; so our B stations have their place and the authorities controlling radio service in New Zealand will. I hope, wisely recognise this fact. The correct policy is co-operation between YA and the leading B stations. -K.H. (Anckland)

Shortening the News Session.

OUT here, with a bi-weekly mail service, we depend largely on 2YA for up-to-date news, as also do many I view with other country listeners. alarm the gradual shortening of the news session. On some night each week recently this session has been shortened to 30 minutes, of which 8 minutes are taken up with shipping and weather. I hope this is not the

shipping round the coasts be cut out. Who is interested in the arrival of the Kuku at Patea? I hope "the powers that be" are con-

sidering the heterodyne trouble. Up here 2YA has a very loud howl from 16.30 to 18.00, due to WGN. At times it is hard to hear what Mr. Announcer is saying, and to listen to the Children's Session is usually futile. If hope that before the Rugby games in Australia are broadcast 2YA has had a 10 k.c. change.—DX12HE.

"Lucia di Lammermoor."

WISH to offer my congratulations to the YA stations on their relay of the opera "Lucia di Lammermoor." 1YA was not up to the standard of the other YA's, apparently due to transmission trouble. 3YA was a vast improvement, but 3HA, Hamilton, Victoria, was better. However, I realise this is the first attempt at relaying an opera, and I know a big improvement can and will be made. Onehunga.

Radio Servicemen's Exam.

As you have so far not published any adverse comments on the last radio servicemen's exam., I should like to give my views on the subject, which I think I may fairly claim are held by all the candidates (in Auckland, at least), and n large number of others connected with the radio business.

1. In the first place, the examiners appear to have lost sight of the fact that this exam, is not for the purpose of conferring degrees, but merely to permit servicemen to perform simple repairs, involving as a rule nothing more intricate than the replacement of transformer, choke, resistor, or other

Involved calculations concerning the amount of current at various points of a circuit, and other questions such as these, may be necessary for a set build-er, but are totally outside the scope of a serviceman's work.

2. It is a universal practice, where the repair involved is anything more serious than the above, to send the set to the distributors, or agents, who usually have all the necessary testing gear, spares, and a complete knowledge of the weak points of that particular

This procedure is, I submit, far more satisfactory to all concerned than turning a customer's drawing room into a workshop.

3. Several questions read: "Describe fully—," "Describe in detail—."
On some of these subjects books might have been written. The result was that some candidates who attempted to carry this out were unable to finish the paper.

4. Unless I am much mistaken, the term "free bias" is a slang term, and not to be found in technical works. It was not known to some candidates who were quire well up in their subject.

5. The professed object of this exam. is to protect the public. As it is now conducted, it is doing just the reverse, in that a dealer may now sell his sets and is prevented by law from servicing them. Radio may now become a profitable business after all.

6. The great majority of the candidates are boys round about the age of 20, who have served a few years with wireless dealers, and are very efficient indeed at practical work, but will never be able to pass exams, of the standard of the recent one, not having had a (Continued on page 19.)

Rugby Talks by All Blacks New Series from 3YA

SO keen has been the interest evinced in the talks on Rugby experiences broadcast by Mr. Read Masters from Station 3YA that it has been decided to present a further series at the conclusion of Mr. Masters' talks; and to this end arrangements have been finalised for Mr. J. T. Burrows, M.A., to commence a series of six talks on Monday, July 18.

Jim Burrows represented Canterbury from 1923-30, represented New Zealand 'Varsity in 1925, appeared for the South Island versus North Island in 1925-27-29, represented New Zealand in the South African tour in 1928, and now holds the position of sole selector for Canterbury.

Mr. Burrows will appear at 9 p.m. each Monday, his subjects being as under:--



J. T. Burrates.

"Rugby Difficulties in South Africa." July 18-1. "Some Unofficial Experiences of the All July 25-2. Blacks in South Africa."

"What the South Africans Taught Us." Aug. 1-3. Aug. 8-4. "A Touring Team Between Matches." "Sight-Seeing with the All Blacks in South. Aug. 15-5. Africa.

"An All Black's Impressions of South Africa." Aug. 22-6.

Answers to Correspondents

36W (Wellington).—2ZR is a new Nelson "B" station which is at present undergoing tests in Dunedin. See description of this station in DX Topics. We will endeayour to have your verification translated.

will endeavour to have your verification translated.

B. W. (Stratford).—Do you know whether KDKA and WSXAR operate on different frequencies? It is apparent from your letter that, despite the information contained in verifications received by other difference in power is the only difference then the two stations cannot count as two verifications. We are sorry we have had to give so many varied decisions on this matter, but the information received concerning these two stations has been definitely conflicting. For the benefit of other difference in SDWA stating that that station has an experimental license which vermits it at certain hours to broadcast experimentally on a much higher power. The stations are identical, and the call WSKAR is used only on experimental programmes.

G.B. (Clive).—Both sets are of excellent quality, and have good reputations for dx. If you will tell us the model of your set and the way in which the dial is graduated, we could explain the various readings. In one model of your type of set the dial of the shortwave reads backwards; in other words, the maximum dial setting is the minimum condenser setting.

wards; in other words, the maximum dial setting is the minimum condenser setting. Certainly, we would be pleased to welcome your wife into the club.

Identification Wanted

Station heard between 6.30 and 7 a.m. on 1110 k.c. (270 m.), on June 14-16 inclusive. Items heard on 15th were "Over the Waves," "Will You Dance the Polka?" followed by a humorous item, and two plane solos. Static was very bad on all three mornings.—125.00. (Seacliffe).

Station heard between 5.10 and 6.20 p.m. on June 20 on 725 k.c. (414 m.). Call sign was "XEF" or "XEX."—H.M. Havelock North).

Station on about 1400 k.c. (214 m.) heard at 8 p.m. on June 21. Speech was foreign, and sounded Japanese. Songs and music were heard. 3GL comes in on 36, and the stranger on 85.—F.E.L. (Auckland)

land).

Station heard Sunday mornings on W.W.'s frequency, 720 k.c. (428.3.m.). He generally plays dance music, and closes down at 3 a.m., N.Z. time.—20T.

Station heard at 10.30 p.m. on June 14 playing "Bring Back My Bonny to Me" on 775 k.c. (387 m.). Announcement sounded like "XRF, Del Rio, Texas." Also station heard at 10 p.m. on 16th on 595 k.c. (504 m.). A man was speaking in a foreign language which sounded like Spanish.—J.L. (Wellington).

Stations Identified

(Karori).—Station heard was reymouth, on 366m. (820 k.c.). 37W (Karori).—Station heard was 3ZR, Greymouth, on 366m. (820 k.e.). Address is: Grey Radio Society, Bright Street, Cobden, Greymouth.—"Six-valve" (Christchurch).

(Christchurch).

140A (Onehunga).—American on 570 k.c. is KMTR, Hollywood (their EKKO stamp is one of the best). Stations on 780 k.c. are KTM, Los Angeles, and KELW, Burbank. KELW usually broadcasts after KTM signs off, but it has been reported recently that KTM has been heard as late as 10 p.m. Station heterodyning 1YA is KHJ, Los Angeles, 4RK, Rockhampton, also causes trouble with 1YA. 6Mc. (Christchurch).

DX Topics

News and Views of the DX Club

Heterodyne Interference.

HAS any dier received daylight verifica-AS any deer received daylight verification of 2GB? I wrote him, and received a card, but there was no mention of daylight reception. KTAB on 560 kc. (585 m.) were coming in well on June 14, while on the same night KDYL and KFAC were up to R7 at 6.20 p.m. Heterodyne interference is very bad on 1280-1230 k.c., especially the 4BK. 2ZB and KDYL combination, whose efforts leave

Palmerston North Branch Meeting

Dxers in Palmerston North and surrounding districts are advised that the next district meeting will be held on July 14, at the residence of DX12W. J. P. Cowlishaw, 157 Bryant St., Palmerston North.

P. Trenkner, 91W, District Secretary.

the much-maligned "cats' concert" well in the shade. 3ZO's frequency has shifted recently to 2CH's, causing another very bad heterodyne.—32T.

W8XAK Coming in Well.

SHORTWAVE station WSXAK, Pitts-SHORTWAVE station WSXAK, Pittsburg, U.S.A., on 25.25m., has been coming in well lately. According to information received from KFI, a huge coast-to-coast broadcast of the opening of the Olympic Games is to be put on the air on June 30 in America. Selections will be played by a massed band of 2000 pieces, while a choir of 1000 voices will also be hear. These broadcasts will last until July 14.—118A (Morrinsville).

American Amateurs on Phone.

IN DX Topics of this week's "Radio Record" I read a report by Mr. H. F. Adcock concerning American amateut phone stations now operating on 75 metres. (These bains used to work on the top end of the So-metre band, but have now dropped down to the bottom end.) Mr. Adcock mentions that wowoff and others in that vicinity will to have now dropped down to the bottom end.) Mr. Adeock mentions that W9FQU and others in that vicinity will be operating on 3907 k.c. on Tuesdays. Fridays and Mondays between 4.30 p.m. and 5 p.m. Could Mr. Adeock give me a little more information? Does this mean that there will be certain other with highlight have working an tast sport ninth district hams working on test apart from W9FQU, or does it mean to report any American amateur working between

4.30 p.m. and 5 p.m.? A30 p.m. and 5 p.m.?

I have found in reporting American amateurs some are very prompt in replying, but others either forget or do not worry to Q.L.S. However, I have been lucky enough to receive Q.L.S. cards from all nine districts. The American hams it seems, are allowed to use far greater power than the New Zesland hams—in fact. I have reported some and have

stamp, and a personal letter from the him in the afternoon at 3.30 p.m. at R6 Richfield reporter.—B.W. (Stratford). to 7, QSA 5.

These hams work at all hours. At 10.30 p.m. last Saturday week I heard W4TM at Tennessee coming in like a local, calling CQ, DX. Evidently he is anxious to work Australians and New Zealand amateurs on phone, so; New Zealand amateurs on phone so; New Zealand amateurs on ph land hams, here is your chance for a little dx.

W2XAD, 19,56 metres, were well heard on their early morning transmission last on their early morning transmission last Saturday week. I heard them at 1.30 p.m., and also later relaying the Lucky Strike programme. They went off the air suddenly without making any announcement. It was evidently a test programme. NRH, the little Central American station, has not been heard this last month. Has any New Zealand listener heard him since May 15? I know it was his intention to rebuild the since we have the stream of the state o it was his intention to rebuild the station and put in 100 per cent. modulation.

A. P. Morrison (Wellington).

Particulars of 2ZR.

THE following report from the Nelson "Evening Mail" contains details of 2ZR, Nelson's new "B" class station, which is now testing in Dunedin. 2ZR was heard here at R8 at 12.30 a.m. on June 23, when they announced that they were on their final test:—

"2ZR, Nelson, testing in Dunedin," is the radio call listeners in various parts is the radio call listeners in various parts of New Zealand have been hearing almost every night after 11 o'clock for the last week. The call has aroused general interest, and many are anxious to learn the explanation of a Nelson call-sign being used in Dunedin. The solution to the problem is not difficult to find, as recently the Post and Telegraph Department issued to Mr. N. Braithwaite, of Dunedin, a license to operate a radio station in Nelson, and this outfit is being assembled, tested, and adjusted in Dunedin, before being brought to this town.

"A young Dunedin man, Mr. L. Bates,

"A young Dunedin man, Mr. L. Bates, "A young Dunedin man, Mr. L. Bates, is responsible for the construction of the transmitter, which has an output power of 50 watts, and is carefully wired with 50 amp, copper strips instead of the usual copper wire. It is a most compact job housed in a light oak casing, which occupies the smallest space possible.

"A speech amplifier is built in rack "A speech ampiner is punt in Tack formation, using its own power supply, and is of the very latest design. Special instruments have been fitted to maintain constant balance of speech and music while a mixing panel is provided to accommodate two condenser microphones, one Western Electric carbon microphone. and the gramophone pick-up amplifiers. A special condenser microphone has been constructed in Dunedin, and it is considered by experts to be the best of its kind in operation in the Dominion. Twin turntables of the latest synchronus type have been purchased for the playing of records. It is interesting to note that these motors cannot alter their speed, there being no governors or regulators, so that all records must be played at the same rate.

"Two electric pick-ups are in position "Two electric pick-ups are in position beside the motors, and a special fading device enables the operator to fade one record out at the same time bringing the music from another disc in, all in the one operation. A special relay amplifier has been assembled for relay work. In order to overcome microphonic noises in this instructures automobile relays have been DX Jottings.

DX Jottings.

power than the New Zealand hams—in music from another disc in, all in the one fact. I have reported some and have operation. A special relay amplifier has found they use as much as 1 k.w. (1000 been assembled for relay work. In order turned this along with their verification. I heard two hams talking to overcome microphonic noises in this intimed this along with their verification. The last-named sent an ekko strength he comes in here. I have heard reproduce the slightest extraneous noise.



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TRAVEL IN COMFORT BY

WELLINGTON PALMERSTON NEW PLYMOUTH

"Since they have been testing with ZZR, Messrs Bates and Braithwaite have received over one hundred letters from fisteners from as far north as North Auckland and as far south as Invercargill, the majority reporting excellent reception. Distant reports are all the more remarkable when it is stated that all tests have been carried out with a make-shift aerial. been carried out with a make-shift aerial. which stretches from a second floor win-dow-sill to a tree very much lower than the window, and is almost completely shielded by neighbouring houses. It shielded by neighbouring houses. It would seem that the best reception area is in Wellington city, where listeners have logged 2ZR at maximum strength. "A local station is a long felt want in Nel-

son, and will undoubtedly be a welcome acquisition to this town. It will be located in the heart of the town, and will open up here toward the end of this month. It is the intention of the constructors to complete the testing work in Dunedin, so that when 2ZR is installed in its permanent home it will be ready to commence regular broadcasting without any preliminary tests being carried out.

on the air a children's session will be conducted by Uncle Doug, who has al-ready established himself a firm favourready established inhibited with his sessions from 4ZB. It is also hoped that arrangements can be made to relay a church service on Sunday evenings. The programmes will consist of all the best representations of the control of the programmes will consist of all the best recorded items, while local artists will be given the opportunity of appearing before the microphone. The younger folk will be catered for with special late dance sessions. 2ZR will operate on a frequency of 1360 kilocycles.

Particulars of 3AW.

T READ with interest 29W's report in the "Times" of the 1st instant, and I heartily sympathise with him in the way the Coverage Commission crept through the towns, as it were, unannonneed.

29W asks for information concernget comes in at 1440 k.c. on my receiver, which is a 7-valve A.C., at about R4 strength. There is a heterodyne beat with some other station and address of 3AW-Vogue Broadcasting Co. Ltd., His Majesty's Theatre. Melbourne.

The DX badges are certainly far too large-half the size would do easily. As suggested, the change can be made when stocks of the large ones are exhausted.

I am sure that all dxers will agree that the president should be elected by popular vote through the "Times." as suggested by 91W at his meeting in Palmerston North. The president should certainly be a member of the club, but not necessarily a top-notch He must be very interested, and have plenty of time to work for and encourage and bind together members of the club and keep it in real goodfellowship. - Keith Millinan (DX

Mr. Stafford Supported.

THINK it most unjust for a member to make a criticism, as Mr. Welsh does, of Mr. Stafford. When getting down to brass tacks, I think we all guess once in a while, and there certainly are stations that one picks up and very seldom hears again; some never again. I have never written to any station by guessing, but on five occasions, when I have mistaken the calls, my letter has been forwarded to the correct destination.

There are no "no-reply" stations as far as I am concerned. Give them a I have just received a verification Is it because the earthed objects good detailed report, and tell you from KMOX, and he states that most waves nearer ground?—DX14A.

The Interference Problem

DX Club Active

BRANCHES of the club are taking steps to ascertain and eliminate sources steps to help overcome interference. which is becoming very acute at the The position obtaining present time. at the present is that, although it appears very little is being done on the problem, the P.W.D. is actually very active, and is in close touch with the inspectors and the supply authorities in each district. However, little can be done until the report of the Radio Commission is tabled.

The sources of electric interference "The hours of transmission suggested are numerous and originate not only are:—12 to 2 p.m., and 5 to 7 p.m., with in the supply lines and the apparatus two night performances weekly. On one directly associated with them, but with of the nights on which the station will be flashing signs and other domestic apflashing signs and other domestic apparatus. In some of the cities this interference is indeed acute, and the only way to effect a real cure is to instal thousands of pounds worth of apparatus throughout the country. Just who is to bear this expense is another question. It is interesting to note that in many countries regulations against the interference of electrical apparatus with radio reception are already in vogue. Germany, Austria and America have regulations on the subject, while Denmark, Belgium, Italy, and Latvia, have regulations in the course of preparation, and it is expected that, when the report of the Coverage Commission is tabled something definte will be done on the subject in this country.

At the present time the Public Works Department is urging upon supply ing 3AW. This station is easy to authorities the need for giving the trouble attention, because it has a direct bearing upon the revenue of the supply authorities. Figures compiled in the United States show that over a I have not as yet discovered. Name period the consumption figures of the supply authorities went up nearly 40 per cent., attributed mainly to the number of radio sets installed. The Public Works Department, however, urges that Government regulations to deal with the problem are not wanted in New Zealand unless other means fail. It is suggested that the Post and Telegraph Department the P.W.D., and supply authorities' association should co-operate withh the vendors of electrical equipment in eliminating faults. It proposes that avery supply authority 'n its own interests should take proper

of trouble.

Much is being done in this direction, and here the DX Club can be of real service. What is wanted is accurate reports upon each district in New Zealand. Members should, if possible, acquaint themselves with the different types of interference and help to locate them. If the trouble in your district is oroginating from a street lamp, track it down, and then communicate with your secretary, who will get in touch with the right authority. At the present time the Christchurch branch, under the direction of Mr. Eric Watson, is doing excellent work and compiling a comprehensive report. Listeners would greatly assist the club and themselves if they would send a detailed report as to the date and times of interference, approximate strength, and suggestions as to the source of the trouble to Mr. E. W. Watson, Secretary of the Christchurch Branch of the N.Z. DX Club, 37 Chancellor Street, Shirley, Christchurch.
The Canterbury branch is not alone

in this systematic tracking of the Other branches are active. It is urged that dxers get in touch with their local secretary, who will probably be able to do something. When secretaries have their reports made out. headquarters will be able to collate them and see that they are taken to the right quarters.

However, it is not a question of national policy-that should be left to the P.W.D. What is wanted is help in the individual districts, and members should be of more use in locating actual sources of trouble than in making recommendations for a national solution of the problem. Incidentally, it is interesting to note that the Christchurch Tramway Board, having heard that apparatus for dealing with electrical interference of radio reception has been perfected in England, is now making inquiries with a view to ascertaining whether is can be used in any way in Christchurch.

The branch of the club at Hastings and the dealers in Napier are getting to work on the problem in a businesslike manner, and attempting to track the sources of interference there.

and the results are well worth while. wants true signal strength of the sta-Don't skimp your report paper, and include enough postage. This is essential if you want results. I am glad to see we have a secretary in our district, and I hope to see this quarter become very lively with members soon.-Ron. Mc-Leod (118A).

The R Signals.

I NOTICE that many dxers do not appear to know how loud the "R" signals are. I notice that most stations are logged at R9, which is very great volume. I receive 2YA at R9 on my "Outspan," and have to cut it down to half. KFI comes in at R5, and is quite audible through the house.

would be honoured to receive a card reports are very exaggerated. He tion and the amount of fading.

I do not agree with 2HB with regard to construction notes in the "Radio Times," for I, like many other dxers. like to read the technical notes, and I find they are of great interest to many enthusiasts. The notes also teach dxers the ins and outs of their radio. Everyone who needs to get the best out of his set must know this. Do any dxers notice that, with an aerial using a tree as a pole, they get better results? I have mine on to a tree, and get great results, and when shifted to a mast of the same height did not get anything like as good. "Digger" has his on a tree, and he brings in some great dx. In the Manawatu.

WHAT months of the year are defined as summer and what winter for daylight reception purposes? [Summer, September to February, inclusive, the rest winter.—Ed.]

Reception has been poor here during the last fortnight. Static has been unusually bad, and the Americans weak. During the past week matters have been made worse by a persistent howler, and if I was certain of his identity I would take great pleasure in cutting his aerial down. It is a remarkable thing that, although I believe there are two radio inspectors attached to the local post office, I have never heard of a howler being prosecuted in the Manawatu district.

At the meeting of our branch in Palmerston North, I mentioned that perhaps a little humour of the schoolboy howler class might be incorporated in the "Times." By this I mean strange and impossible loggings by new chums at equally strange times. For instance, as below:

An acquaintance of mine regently bought a midget set, and several mornings later the news was around that Mr. So-and-so had logged Mexico at 12 noon on broadcast. Another person, last Sunday, was trying out a standard radio set and believes that he logged Berlin on broadcast. I can see old dxers smiling at these two howlers, and I am sure that dxers through New Zealand could send other items of the class that would certainly raise a smile on most hard-bitten dxers.

I have received "daylight" cards from

2NC, 2UE, 2CH, and 2GB, but as 2GB just verified, I sent it back with three daylight reports and asked them to add "daylight" to the verification.

This morning I received KTM's card, and I have also received XER, but I enclosed a reply coupon with the report. The only Americans on my "non-reply list" are KRLD and WFAA. I have written these again enclosing a coupon. -DX99W.

Send a Reasonable Report.

THERE has been a lot of talk about non-replying stations, but my experience has been that if you send them a reasonable report that is of some use they will verify, and are pleased to do There are odd stations that fail. possibly some of them because of financial reasons.

I think Mr. Morley Stafford is a real dxer, and deserves all he gets. He must have had untold patience to have the number of stations verified that he has, let alone the cost both in writing material and stamps,-DXIINW (Black-

Correspondent Wanted.

CHAS. A. HOLLOWAY, 80 Collingwood Street, Hamilton, would like to hear from dx-ers using an all-electric Crosley "Gembox."

Neutron IV.

I HAVE constructed the "Neutron Four," and am delighted with my success. This is my first attempt at a valve set, and I liked the circuit because I could use the parts from a sixvalve neutrodyne which was not giving me satisfaction. I liked the way the set was described, and although I had never attempted valve set construction, and knew nothing about radio, I took the bull by the horns. It was the I have just received a verification Is it because the earthed objects draw case of spoil a horn or make a comb, (Concluded on page 29.)

Questions and Answers

"A MPERITE" (Taranaki): I have made up a simple shortwave set and it will not escallate. I have tried all the usual cures, but can only make it work properly by placing my hand on the r.f.

A: Try another rf. choke. Although you are using a good one, this is possibly at fault. If you can get your set to oscillate only by putting your hand on it on certain bands, it looks very much as though this is the cause of the trouble. Break the connection between the primary and the secondary. Easiling this. Freak the connection between the primary and the secondary. Failing this, bring in the aerial through a fixed condenser of about .0001 to the top of the grid coil. Take the lead from the choke to the fixed plate of the reaction condenser instead of from the plate of the

DX180C (Invercargill): Can I use two 201A's in push-pull, as per my dia-

A. Theoretically your scheme will be quite practicable. It is questionable, however, if you would get good results,

2. Using 18 volts bias, about what would be the drain from 105 volts h.t.?

A.: We do not have a curve of this valve available, but believe it to be about 2 mamps. for both valves.

3. How does one calculate the imped-

3. How does one calculate the impedance of a speaker for matching purposes? Would the d.c. resistance be of any use for calculating ratio of output?

A.: We are afraid there is no practical way for calculating impedance. It is necessary to measure it, and to a degree it is quite independent of d.c. resistance. Impedance is built up on this factor and reactance, being the product of inductance, frequency, self capacity and a fixed quantity. If you are using a magnetic cone speaker you could use a 1-1 transformer, and you would not be transformer, and you would not be

"PUNG" (Hamilton E.) : I intend to add what is the strength of the potassium hydroxide solution, and how much lithium hydroxide is added?

A.: The electrolyte consists of 21 per cent, solution of potassium hydroxide. Lithium hydroxide is added in the proportion of 50 grams per litre. Do not portion of 50 grams per litre. Do not attempt to make these solutions up your-self—any chemist will do it for you for

next to nothing.

2. I am enclosing a sample of the substance I use for spreaders. What is the material, and where could I procure

A.: It appears to be a composition bake-Your best plan would be to send MANARARÀREURORORORANE DE DIRIER REPORTANTE DE LA LA RESERVA (AUTORIA DE LA CONTRACTORIA D

Information Coupon

(To be used with all requests for information.) neaconogengonoses. 193 10 conen

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Nom de plume To be kepi in subsequent inquirles

lease Note:.(1) Be specific and brief, tabulating, if possible.
(2) Write legibly and on one side
of the paper
(3) We do not design circuits.
(4) Limit three questions, unless
1/- is enclosed.
(5) Postal queries limit three
questions. Enclose stamped
envelope and 1/- fee.

Please Note:-

a sample to a well-known dealer and ask him if he can procure it for you, and at what cost.

C.G.M. (Wellington): Could you give me the constants of the shortwave adaptor shown herewith?

A.: Particulars of the coils could be found from any standard list. For instance, if your are using two .00015 condensers, one at C1 and the other at C2, the coil particulars would be as follow:

C2, the curlow:—
Prim-SeconReBand, ary, dary, Wire, action,
9-15 2 2½ 26.d.s.c. 8
15-28 5 6½ 26.d.s.c. 5½
15-28 5 6½ 26.d.s.c. 5½
28-50 6 8½ 26.d.s.c. 10½
5-100 12 75½ 26.d.s.c. 11½
with 30 d.s. 30d.s.c. 30.d.s.e. 30.d.s.e Wind the primary with 30 d.s.c. The other components will be as follow:—R1, 25,000 ohms; C3, 225—5mfds.; I.4 ordinary shortwave rf. choke; C4 an .0001-.001 mfd. condensers.

2. What is the "I" feature referred to in the adaptor?
A.: We do not know; it is a reference evidently to a commercial device.

MUG" (Wanganui), I am desirons

of eliminating a.c. hum from the power transformer. Would shield and enrthing same cure this?

A.: First make certain that all the laminations are tight. Slacken off the nuts holding them together, and if necessary pack with extra stalloy. Drive a wooden wedge in between the core and the winding, only make certain that in doing this you do not injure the latter. Shielding and earthing a transformer would certainly make it quieter.

3AR (Waitetuna).—What are the correet types of valves used in the "Radiogram Five"?

A.: A screen grid valve, a special detector, a g.p. audio and a high gain power valve.

power valve.

2. What is the correct B voltage for the same set?

A.: You want from 90 to 120 volts, preferably the latter, with a grid blas according to the valve used in the last stage. This will probably be in the region of 12-15 volts.

3. Can the coils for the "Radio Gram Five" be purchased ready made?

A.: Yes, any dealer will make them up for you.

'TOEY" (Hokianga).--Would the wire

sample enclosed, be suitable for a lead-in direct from my aerial.

A.: Yes, it would make a good lead-in, but there is little point in insulating it so heavily. If you have some on hand use it. If you intend to buy it, use enamelled, it is much cheaper. Covered wire prevents corrosion of the aerial.

R.S.D. (Wanganui): Would it weaken

n. ... , wanganui): Would it weaken a power transformer to join the winding?—No, provided the joint is carefully soldered and insulated.

2. I have a 1½in. x 1½in. stalloy core, the sizes being 4½in. x 2 5-3in. Would the number of turns for this core be the same as for the 150 watts size in the "Guide"?

A. Yee

"Guide"?

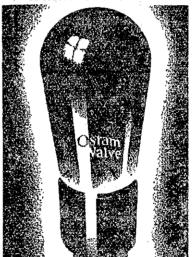
A.: Yes,
3. In the "Guide" you say to precede
a pentode by a first audio stage is generally looked upon as a scheme for inviting instability. Does this statement,
also apply to preceding bush-pull pentodes by a first audio?

A.: No; in this case you have a much
greater available grid-swing and consequently can use pre-audio stages, e.g., the
5 watts amplifier described in the 1932
"Badio Guide."

DX21W (Ohakune Junction): When tuning from 1500 kc, with the vol-ume control fully open the set breaks into oscillation, and increases in inten-



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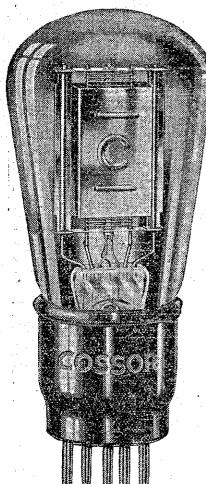
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sity until the end of the dial is reached. The local agents have been unable to remedy the fault.

A.: There is undoubtedly a fault in your set which only a systematic search with suitable test instruments could reveal. However, it could be suppressed by inserting a 500-1000 ohms resistance in series with the grid of one of the r.f. valves. This resistance could very easily be put in without pulling your receiver about in any way. The dissipating qualiabout in any way. The dissipating quali-tics of the resistance need be very small indeed, as it is not called upon to pass any current. Maybe there is a short-circuit in one of the chokes, and this would not be easily detected. It may help you to bring the aerial in successively to the grids of the three screen-grid valves and to make the test for oscillation. It would then be possible to discover in which stage the trouble lay. We are picking it to be the second valve, possibly because L4 has short-circuited. If the trouble has always been the same it may be necessary to further de-couple the stages, but this is quite beyond the capabilities of the average amateur.

"SUPER SIX" (New Plymouth): I have built the "Super Six," but the stations can be received on two places on the oscillator, and the set will not get 2FC at night on the loop.

A.: It is quite in order for the oscillator to heaving in the stations in two posi-

tor to bring in the stations in two posi-tions, one at the sum of the frequencies, two at their difference. Your locality is possibly against 2FC being brought in at

We are sorry your previous queries were mislaid.

(Sydenham): Would ice made from tap water, when melted in an earthenware vessel, be suitable for use in an Edison B battery and in jars of B chargers?

A.: It wouldn't be safe to do so. It would be better to collect rain water in the earthenware vessels and use that.

H.E.L. (Miramar): I intend to ator, but am not clear as to how to calculate the number of turns for the filament

late the number of turns for the filament voltage on different-sized cores. I could not find any table in your "Radio Guide."

A.: A suitable table appears on page 146, giving the number of turns per volt as 9. It is not easy to calculate the number of turns per volt. However, the figures given will be near enough for most practical purposes.

"LOCO." (Wanganui E.): I have an umbrella aerial of approximately 100-130 feet in length on 65 feet masts. My reception of short-wave stations is only fair. Can I improve my short-wave reception by making any alteration to the

A.: Yes; it is far too long. At 186; it is far too long. Every a much shorter aerial for short-wave, and do not exceed 100 feet, including the lead-in. You are using about 165 feet in all. Try first of all reducing the effective capacity of the aerial by the usual

.0001 condenser in series.

2. What type of aerial is best for the operation of an all-wave set?

A.: An aerial of no greater length than 100 feet, while a single wire of from 30-40 feet would be more effective for shortwave reception.

A. W.L. (Petone): What are the requirements of the radio serviceman's examination? Is Morse included?

A.: A syllabus of the examination can

be obtained from the registrar. It entails only a knowledge of simple service procedure, together with the basic principles underlying radio. Morse is unnecessary.

N. E.X. (Auckland): Would a C battery improve my set when used on the broadcast band, and not spoil the short-wave reception?

A.: We are sending your diagram marked showing where to include the C bat-

SATANAS" (Auckland): Reception from 1ZQ and 1ZS appears to be harsh compared with other stations. If

the dial is moved slightly off these reception is distorted. The same to a lesser degree applies to 1ZR.

A.: In modern superheterodyne circuits

A.: In modern superheterodyne circuits the slightest variation of the tuning dial from the exact resonant point, that is, the loudest point on the tuning dial, causes distortion. However, it should be quite clear from the two local "B" stations, providing they are tuned in accurately. Turn the volume control down very low, and tune for maximum signal with the centre dial, and then adjust the volume. If it is still harsh and not so on other stations, the trouble is probably in the stations themselves, but if the same symptoms are noticed over a wide number of stations. noticed over a wide number of stations, the trouble then can be blamed to the set.

2. Should the set oscillate? If so, at

what point?

A.: No.
3. Would bad weather conditions result in the trouble explained above?
A.: It is most unlikely.

A. F. (Pahiatua): How can I tune in to American stations? I am using

a five-valve set with three 45 volt blocks.

A.: The ability to pick up the Americans depends very much upon your locality and on the condition of your aerial and earth. Your set is not a particularly powerful one, and you may have difficulty in logging them.

W. K. (Christchurch): What is the effect of insulators in the stays supporting the aerial mast?

A.: The use of insulators prevent leak-

age, mainly through capacity effects, from the aerial to the stay wires and where a steel mast is used it is preferable to have them, but not absolutely essential. After all, they do not make a very great differ-

UBIQUE" (Wellington): I have a shortwave converter attached to my superheterodyne set. I do not require to use the 65-200 metres on the shortwave and would like to use two valves for the

and would like to use two valves for the shortwave converter on the broadcast bund, and still retain the 20-65 metres band. Is this practicable?

A.: No: the valves in a shortwave adapter rarely amplify. Their function is merely to transform the high frequency impulses picked up by shortwave to freimpulses picked up by shortwave to frequencies that can be amplified by your broadcast set. If the frequencies already can be amplified by the set, the double version would serve no useful purpose.

pose. Certainly it would not amplify.

2. The volume on the 25-60 metre band is poor, whereas the broadcast set is good. Would it improve matters if I connected the aerial lead from the converter to some point other than the aerial terminal of the broadcast set? the broadcast set?

A.: The aerial should be connected to the aerial terminal of the converter and the output terminal of the converter to the aerial of the set. Have you it connected in this way? We would advise you to get in touch with the dealer who sold you the converter. The volume should be quite good on the 20-65 metre

(Nelson): My battery set has developed a persistent crackling, which sounds like weak static. It disappears completely when I push the jack plug into

A: There is a bad connection in the last stage of your set. Is the volume all that it used to be? Possibly the primary of the inter-valve transformer has broken down. Look over the last has broken down. Look over the last stage for loose connections; tug at the wires to make certain that all joints are sound. Go over the fifth valve jack, clean it from dust, and make certain that the contacts are good. Trace the wires from the speaker terminals to their destinations and see if they are good also.

A B.C. (Wellington).—With a transfor-

A. B.C. (Wellington).—With a transformer $1\frac{1}{2}$ x $1\frac{1}{2}$ should the primary be 850 turns of 22 enamel, and the secondary 30-gauge enamel, 870 turns:

A.: The primary is right, but the secondary will give approximately 200 volts, You should use a 280 rectifier, which will require a winding of 18-gauge d.c.c.

wire, consisting of 19 turns. For the four volts valves you will require two windings each of 16 gauge wire, with 16 turns on each. For a dynamic speaker your best plan would be to have one with a high restations of 612 winding and increase the plan would be to have one with a night sistance field winding, and increase the number of turns on the secondary to allow for the drop in the speaker. This would mean that you would need to provide at least 250 volts, the drop in the speaker being approximately 50 volts.

DX91A (Hamilton).—Would loss of volume in a battery set be caused by a condenser having been burned out?

A.: Yes; if a condenser were burnet out you would get a leakage from one of the tappings or no voltage at some particular point. This would cause weakness.

lar point. This would cause weakness.

2. Are the valves suitable, using A415 as detector and in the last stage?

A.: A415 used as a detector is excellent. In the last stage, although it will give a high lift, it is not really suitable for that socket, and you should use one of the B406 class, which will give you much improved results as far as tone is concerned.

3. Would it be the "B" batteries wrong-

3. Would it be the "B" batteries wrongly connected that cause loss of volume and skipping oscillation?

A: Yes. If the "B" batteries were wrongly connected these symptoms would mankest themselves. It sounds, too, as though your set is not now neutralised. As a matter of fact, your set was designed for the 119 types of valves, and unless it is very carefully re-neutralised it is not advisable to use any other type in it.

PUZZLED (Berhampore): Reception is

variable. Signals come in strongly and then die away.

A.: It is impossible to say. The first thing would be to measure the voltage of each of the valves when the set is in a quiet period and when it is normal. Make quite certain that there is no voltage of the valves are discontinuously then the constant of the valves of age fluctuation. Obviously, then, the trouble must be on the h.f. side. Have all the valves tested.

2. Can you tell me how to step my detector voltage down to 22½?

A.: Yes; connect in series with detector.

tor, tapping a variable resistance of 20,000 ohms and put a 1 mfd. by-pass condenser from the set side of this resistance to B-. You can then regulate the voltage

to any value you desire.

3. What bias is required on B205?

A.: It depends upon the "B" voltage, but presuming you are using the full you will need from 15 to 18 volts.

SUPERHET (Gisborne): Your best plan would be, if you cannot get satisfaction from your local man, to write direct to the N.Z. agents and make a complaint. The address is Spedding, Ltd., Auckland. Certainly do not call in anyone else if you are protected by a guarantee, and if we were to tell you to interfere with your set yourself, you would likewise lose the guarantee.

SPARKS (Wellington): Could you advise me how best to obtain experience in order to get my radio serviceman's examination?

A.: You first of all should study the fundamentals of radio in such a book as Henney's Principles of Radio, or if you Henney's Principles of Radio, of it you do not want to go as far as Henney takes you, get a general idea of the principles from the "Radio Guide," and in the "Radio Times." In them you will find many of the fundamentals explained from month to month. Certainly as far as the a.c.

to month. Certainly as far as the a.c. set is concerned we would recommend you to look back over the last two months and read the series now running, on the A.B.C. of the a.c. set. The best servicing book that we know is "Radio Servicing," by Ghirardi, a book which is not particularly expensive. As far as the experience is concerned, you certainly need a fair amount of this before you would be eligible for a serviceman's certificate. The requirements are that you be three years in the trade. However, by having your wireman's registration you will be able to install radio sets, and possibly you could make arrangements with some

of the local dealers for a small remunera-tion to fit in in some way in their service department and so obtain your experi-

DX127A (Rotorua): Is the suppression of noises through electrical supply by means of a filtering device satisfact

tory?
A.: Where interference is bad and it is being picked up by the a.c. mains a suppressing device will have a great effect. We understand that these are not obtainable in New Zealand commercially, though they can be made up from specifications which have been given in the "Radio Record."

2 Explain the method of earthing the

the "Radio Record."

2. Explain the method of earthing the free end of the aerial for the purpose of

free end of the aerial for the purpose of suppressing power line interference.

A.: We do not know anything more about this than you do. A correspondent wrote to say he earthed the free end of his aerial, so presumably he ran a wire down from the distant end and grounded it. Other than giving you the advice we did last time, we can do nothing for you. Interference is one of nothing for you. Interference is one of the biggest problems that the radio listener has to face and it has nonplussed many a clever engineer.

NOVICE (Auckland): How can I find the place on my three dials to tune in a station on a given wavelength?

in a station on a given wavelength?

A.: Only by a knowledge of your dials. For instance, you might know that 2YA, which operates on 420 metres, comes in at 80 on one dial, 81 on the other, and 70 on the third, and that 2BL, on 351 m., comes in, say, on 64, 65, and 63. You then would know that a station on a wavelength intermediate between these two points would come in somewhere between those dial readings. Otherwise, there is no other method.

there is no other method.

2. Where could I obtain a book from which I could get a working knowledge

of radio to build a set myself?

A.: We can do little more than recommend our "Radio Guide," which is obtainable from all booksellers in New Zealand for 2/6.

DEE STREET (Invercargill): I have tried out two sets in my shop, which is near the tramlines, but the interference from trams is very considerable and recention is unsatisfactory. What can reception is unsatisfactory.

I do?
A.: There is very little you can do. Interference is one of the bugbears of radio, and you are very near a tramline. Keep your aerial as short as posradio, and you are very hear a tram-line. Keep your aerial as short as pos-sible, and have it at right angles to the tramlines. You are in a parti-cularly bad place, as there is a loop in the line just by, and that would cause a fair amount of noise, which would probably be fed in through the mains. Try an interference filter if you can get

TUI (Buller): Which line of figures

is used for each class of battery "A," "B," and "C" on my meter?

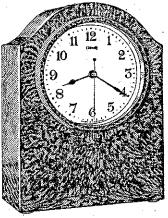
A.: The lowest range is for the "A" battery, the next range for the "B," while the "C" can be tested either on the "A" if it is of low value or on the "C" if it is of high value. The top one measures current and must be used only in series with the lead through which the drain is to be ascertained.

2. Can the valves be tested with a

2. Can the valves be tested with a roltmeter? If so, how?
A.: You can test them with your mil-A.: You can test them with your miliammeter providing they take the large current, but as you are using a battery set, the valves of which do not take much current, the scale is too coarse. You would need a 0-20 milliammeter at the most to test your valves satisfactorily. On your meter there must be four terminals, one for the negative, one for the milliamps, another for the high scale (volts 160), and the other for the one for the minimum, another for the minimum scale (volts 160), and the other for the low scale (volts 8). To test your "A" and "C" batteries, have one at the negative and one at volts 8. To test the "B" one at negative and the other at volts 160. You will probably not need

(Continued on page 28.)

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Featurettes

"Around Europe by Air" 4YA, Monday.

Chamber Music Players 2YA, Monday.

Philharmonic Society 4YA, Tuesday.

> French Music 4YA, Wednesday,

"The Rose Maiden" 1YA, Thursday.

R.M.V. Rangitiki's Orchestra 1 YA, Friday.

Philharmonic Society.

THE evening programme at 4XA on Tuesday will consist of a relay from the Concert Chamber of the Town Hall, where the Dunedin Philharmonic Society, under the conductorship of Signor R. Squarise, will give a con-

Broadcasting Choir.

1 YA's concert on Thursday will be provided by the Chamber Orchestra and the 1YA Broadcasting Choir. The opening number will be the patri-otic ode "Men of England," by Ketelotte ode "Men of Lagrand," by keter-bey, the well-known English composer. The popular cantata, "The Rose Maid-en," by Cohen, will be presented, this work being written some 50 years ago and since having enjoyed great popu-In it is told the story of the Flower Fairy who, weary of a life of unbroken calm, prays that the newly-returned Spring will bestow upon her the gift of love that she bestows upon man.

Girl Guide and Boy Scout Rally.

THE concert programme at 1YA on Wednesday will be relayed from the Town Hall, where a concert will be given by the Girl Guides and Boy Scouts.

The Dominant Seven.

THIS is a new combination which will make its second appearance in novelty items during the concert session at 1YA on Saturday. The Harmonisers, a new male quartet, will be heard in several vocal numbers.

Orchestra of R.M.V. Rangitiki.

DURING the concert programme from 1YA on Friday the orchestra of the R.M.V. Rangitiki, which will be in Auckland for a few days, will present some of the latest hits from London.

The Church Services.

-St. Andrew's Church. Preacher, Rev. W. B. Bower-Black, and the organist and choirmaster, Mr. E. S. Craston.

2YA-Trinity Methodist Church, Wellington South. Preacher, Rev. lington South. Preacher, Rev. Bramwell Scott, and choirmaster Mr. W. McLellan, with Miss Lilam Thawley.

3YA-Oxford Terrace Baptist Church. Preacher, Rev. L. A. North; org-anist, Mr. Melville Lawry; choir-master, Mr. Victor Peters.

4YA-St. Andrew's Church of Christ, Pastor W. D. Moore; choirmaster, Mr. W. H. MacKenzie, and the organist Miss V. Stokes.

On the Air this Week

July 4 - 10

Talks

Mr. E. S. Macpherson, from 1YA, Tues-

"Humorous Incidents—On and Off the Field," Mr. Fred Lucas, from 1YA, Wednesday.

Dr. Guy Scholefield, O.B.E., International Talk, from 2YA, Wednesday. "Modern Novels," recorded talk by

Mr. J. B. Priestley, from 2YA, on Thurs-

day. "Weather Forecasting," Dr. E. Kid-

son, from 2YA, on Friday.
"Travel Memories of People and Places," Mr. Read Masters, from 3YA. on Friday.

"New Schools of Europe," Mr. L. F. de Berry, M.A., from SYA, on Thurs-

day.
"Italy—Yesterday and To-day," Mr. John Ash, from 4YA, on Monday.

W.E.A. Talks.

"Man Conquers Matter," W. T. G. Airey, M.A., from 1XA, Wednesday.

"Three Human Ancestors," Gilbert Archey, M.A., from 1YA, Thursday. "The Individual and the Community,"

H. C. Becroft, M.A., from 1YA, Thurs-"Modern British Drama," W. S. Wau-

chop, M.A., from 2YA, Thursday.
"New Zealand Forest Birds," W. R.

B. Oliver, M.Sc., from 2YA, Saturday. "Banking and Currency,"

Lawn, M.A., from 3YA, Monday.

"Literature," Professor Sinclair, from WARION

3YA, Friday.

"Public Health," Dr. C. E. Hercus, from 4YA, Tuesday.

"Anticipations—The Future of War Debts and Reparations," Lloyd Ross M.A., from 4YA, Friday.

Other Talks.

At 9 P.M. "Modern Ballroom Dancing," Mr. W. "The Domestic Life of the Chinese," E. Priestley, from 1YA, Saturday.

"Contract Bridge," Mrs. A. L. Long, from 2YA, Friday.

Personal Notes

A SPEAKER new to 1YA is Mr. E. S. Macpherson, who, at 9 p.m. on Tuesday will talk on the "Domestic Life of the Chinese" Mr. Macpherson served in the Air Force in China, and has a considerable knowledge of the life of that country. The talk should be one of outstanding interest.

THE Wellington Chamber Music Players, as a combination, have not been heard from 2YA for some considerable time, but on Monday they will be heard again in the First Movement from Men-delssohn's "Trio in D Minor."

FRANK CROWTHER'S Novelty Orchestra and the Choral Eight will be heard from 2YA on Tuesday. Choral Eight is an ensemble of popular vocalists, whose numbers will include "Little Irish Girl" and "O, Lovely Night."

ALFRED HILL'S exhibarating "Song of the Locust" will be heard from 2XA on Saturday, sung by Nobo Toki, George a Maori tenor of considerable ability.

> WOODHOUSE'S Club will be heard from 3YA on Friday in a programme including "Song of the Danish Sea Kings" by Macpherson, "Autumn Days," and such popular numbers as "Roses of Picardy" and "Ye Banks and Brass."



JOHN DEVEREUX



THOMAS KENNEDY

Who will both contribute baritone solos during the concert to be pre-sented by the Stella Musicale from 4YA on July 10.



Gwladys Edwardes.

This Australian soprano, wellknown to listeners to the YA stations, has taken up her residence in Auckland, where she is teaching voice production and microphone art. Miss Edwardes will be remembered for her recent recital of modern compositions, presented in conjunction with Lalla Vondersloot, of Wellington.

TOCK LOCKHART, the popular SYA comedian, will be heard on Satur-day night, and he will include in his numbers the latest hit, "All Baba's Camel."

THE Dunedin Glee Singers, under H. P. Desmoulins, will be responsible for the vocal portion of the concert programme on Friday from 4YA. A programme on armay arous area wariety of numbers will be presented, including "All Through the Night," "My Old Kentucky Home," "Who is Sylvia," and "Old Mother Hubbard."

Sports Broadcasts

RUGBY Football Talks from 1YA and

3YA. See 9 p.m. talks. Rugby football from Eden Park, 1YA. Saturday, 2.45 p.m.

Rugby from Athletic Park, 2YA, Saturday, 2.45 p.m.

Rugby from Carisbrook, 4YA, Saturday, 1.15 p.m.

Topical Notes

STRIKING tribute to the stan-A STRIKING tribute to dark dard of programmes broadcast recently through Station 2YA is conveyently through Station letter on behalf of ed in the following letter on behalf of six station members of Flarbourne Station, Blenheim:-

"Just a brief note in appreciation of the much-improved programmes which have been put on the air since the Radio Broadcasting Board took over the control of 2YA. The most notable programme ever offered, in opinion, was the presentation of "Revuedeville" by the Wellington Operatic and Theatrical Society last Thursday, 16th instant. To my mind this was simply splendid. Please convey my sincere thanks to that society. and may we please have many more such evenings. If the board keep improving the programmes at the present rate we will have the finest broadcast ing service in the world. I have been asked by all the members of the station (there are 6 men here who listenin) to thank you very, very much on their behalf."

"RAMPHIS and His Aerial Artists" will present a concert from 2ZW on June 30. The programme is as

- (1) "Allah" (Willeby).
- (2) "Sink, Red Sun" (Teresa Del
- Record. "Coronation March" (Meyerbeer).
- "A Song Remembered" (Ecri Coates).

famous compositions from "Faust" (Gounod):

- (a) Piano Solo, "Fantassie" (arranged by Rene Favarger).
 "The Calf of Gold" from Act
- "Mephisto's" Serenade from Act IV.

Children's Session

(FROM 1YA.)

Tuesday, July 5.—Pupils of Miss Winthrop will provide musical numbers and put your thinking caps on, as no doubt. Uncle Dave will have another puzzle for you to

Wednesday.-Request numbers will be given by Uncle Reg, while a further nature talk will be given by Uncle Walker.

> Thursday,--Piano duets and solos from our clever little cousins, stories and birthday greetings from Skipper.

> Friday.-Songs, piano solos, and violin solos for this evening's entertainment, as well as stories and riddles

> Saturday.--Assisting Cinderella will be Madame Powdrill's Banjo Ban,d which is always greatly enjoyed.

> Sunday.-Children's Song Service, conducted by Uncle Bert, assisted by Beresford Street Sunday School,

Morocco's Model Radio Service

PARIS listeners are suggesting that the local broadcasting authorities should go to Morocco to learn how a go-ahead broadcasting service should be/conducted. It appears that "Radio Maroc" has outstripped all other French stations by its enterprising developments within the last year, particularly in the direction of educational transmissions. Every school in French Morocco now has its own receiver in addition to a cinematograph installation, radio lessons being illustrated by films forwarded in advance by the Public Education Department.

Our Mailbag

(Continued from page 12.) sufficiently advanced course in mathematics.

Formulae which appear simple to a college man are Greek to the average prohibited from doing even the simschoolboy, particularly when they are plest jobs.

A cantata.

"The Rose Maiden" (Cowen)

be broadcast Will from 1YA on

Thursday, July 7

by the

1YA Broadcasting Choir and Orchestra



set in conjunction with a trap composed of a network of resistors, and, incident- only say that all men are not fools and to do with the question.

so badly that it is doubtful whether an have operated stations of their examiner would have the patience to read through their papers.

This is not an exam. for handwriting, yet these boys will never pass a written exam.

I trust the matter will not be allowed to drop, and that other protests will be made by radio clubs, and other organisations who are able to view the subject from all angles, and not merely from the narrow view of the board of examiners, whose sole purpose and delight is to trip up the poor candidate, and collect another 12/6 from him at the next exam,-"Aerial" (Auckland),

Radio Servicemen's Exam.

NOW that the Radio Service examination is an established event, one can only wonder when the Government will cease to interfere with private business

The regulations appear to be just auother example of Government bungling. In the first place the regulations were Under the pretence of unnecessary. Under the pretence of protecting the listener, the law was framed to protect the big business man. We shall soon have licensed motor mechanics for surely our car deserves the same protection as our radio set.

Properly administered the regula-The sertions would be pardonable. vice "ticket" should have been given as a recognition of merit and could have been used by its possessors to induce, not enforce patronage, but the listener should be free to decide whom to entrust with the work. In many small towns only one man has the required 'ticket" and no matter how much he is disliked (professionally) or how high his fees, there is no alternative.

There are many young men who have made a study of radio and have the knowledge required to effect small Some of them are unemployed and would be glad of the chance to earn a few shillings from the application of their knowledge. The regula-tions now require that they have had The regulathree years in the profession before they can obtain a certificate. They are

As for the electrical hazard, one can ally, a valve circuit which has nothing point to our 300 practising amateurs to do with the question.

point to our 300 practising amateurs it is to this highly respected fratern-Some of these boys, real practical serity—the hams—that the regulations vicemen, in responsible positions, write become an insult. For years they OWN construction. Are they now to call in an "expert," who probably has never seen a transmitter before, to make their adjustments; or have they to start studying servicing and put in years of work in a business which does not interest them.

Then again there should be two grades of "tickets." One for those who passed the first test and one for those who passed the second. Is it fair that the examination standard should altered at each sitting? If the Govern-ment cannot yet decide what they require, then all candidates should be re-examined when the standard is fix-That is if the heads are determined to interfere.--73W.

A's versus B's.

WAS pleased to see by the letters of DX42W and DX4T that the club is becoming interested in the B station elimination contest. The country has many associations, but listeners have been "pretty slow off the mark," and now when a strong organisation is needed we are not prepared, not because we have not had enough warning or that every-body is satisfied, but because we think that at the finish common-sense by the Broadensting Board must prevail. The Broadcasting Board must prevail. Broadcasting Board must prevail. The only organisation with any foundation at all, that is, still alive although scattered, seems to be the DX Club. Although it is probably outside the objects for which the club was formed, I think distributed to the control of trict secretaries should call a general meeting to consider this question, as it affects all members probably more than the average listener. Listeners have not exactly realised what it would be like to be without B stations and to have to depend entirely on the YA's. While of its attitude toward them.—Ed.]

a few say they are satisfied, it is in most cases becaused they cannot, or do not, go farther afield, and consequently do not know what they are missing.

How many turn their sets off at 10 p.m. when the YA stations close down, and then complain as far as they are concerned broadcasting has ceased for the onight? This when there are excellent programmes offering for them from B stations till probably 12 p.m. I have listened to 4ZL, to mention one, when there has been no other station at speaker strength with the exception of Perth. One might say nobody wants to listen at that time, but this can be countered by the fact that these programmes are by the fact that these programmes are usually all request ones. This is only a detail of the service B stations are giving in general. I keep in touch with dozens of stations, both A and B, and I am quite satisfied that in eight cases out of ten the YA's lose by comparison with the B's, when it is considered that the B stations are working under a severe handicap.

Concerning the YA programmes: We Concerning the YA programmes: We must cultivate local talent, certainly, but why practise on us? The board knows full well what the public wants, but refuses to give it. This is proved by the fact that there are no screeching sopranos put on at the Sunday night band concert. Let any of the regular studio items be not on at one of these even items be put on at one of these cou-cert and then an item by, say, to men-tion two, Dan Foley or Herbert Wood, and compare the applause.

Why the board and YA supporters want to put B stations off the air is beyond me. Even granted there is nothing in their favour, surely there is a stationary than a life or the stationary than a supporter was a stationary to be supported by the stationary than a supporter than a supporter was a supporter to the supporter than a supporter to the supporter than a supporter to the supporter than a supporter than a supporter than a supporter than a supporter to the supporter than a nothing against them. If a listener tunes to a YA station for his programme, the B stations are not interfering with If a listener

The only thing unsatisfactory with The only thing unsatisfactory with B stations at present seems to be the matter of hours' service, but this can easily be overcome. I think the majority of listeners would not object to sponsored programmes and advertising to the extent of, say. 25 words every fourth recording. The hoard with their present cording. The board, with their present apparently hostile attitude toward B stations, would undoubtedly not allow them to overstep the mark, and I am sure the B stations in their own interests would not do so. would not do so.

Regarding heterodyne interference, this could be eliminated to a great extent. There are a good many B stations which are not capable of covering a great distance, yet are strong enough to be a nuisance. By reducing their power still leaver that goold be more or less lecely. lower they could be more or less local-ised. No more licenses should be grant-ed unless in a district where they are absolutely necessary, or in the event of a station closing down for any reason. Some stations could be cut out where they are serving the same locality, but we must have B stations. Allow them the recently I have mentioned give them we must have B stations. Allow them the revenue I have mentioned, give 'hem a five-year license and a free hand regarding programmes and they will provide all we want for nothing.—B.W. (Stratford).

[The correspondent takes a great deal for granted. The Board has not pro-nounced its policy with respect to "B" stations, nor has it given any indication of its attitude toward them .- Ed.]

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and Where

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Programmes for Week ending July

Sunday [July 3]

1YA

AUCKLAND.

902 kc. Sunday, 3.

2.0: Selected recordings and literary relection.

6.0: Children's song service.

7.0: Relay of service from St. Matthew's Church. Preacher, The Rev. C. H. Graut-Cowen. Organist and Choirmaster, J. H. Philpott.

8.30 (approx.): Relay of Municipal Band Concert from Town Hall, conduct-Band Concert from Town Hall, conducted by G. Buckley. March, The Band, "Die Folkunger" (Kretschmer). Overture, The Band, "Morning, Noon and Night" (Suppe). Cornet, J. Davies, "The Holy City" (Adams). Selection, The Band, "Aida" (Verdi). Flute and Clarinet, H. C. McLennan and E. Pheloung, "Lo, Here the Gentle Lark" (Bishop). Selection, The Band, "Patience" (Sullivan). Xylophone, Royald Luckson "Toe Picudores" (Rur-Royald Luckson "Toe Picudores" (Rur-Royald Luckson "Toe Picudores" (Rur-Ronald Jackson, "Los Picadores" (Barsotti). Flute, H. C. McLennan, "Fantasia Elegante" (Heinemeyer). Hymn, The Band, "St. Oswald.". March, The Band, "Vimy Ridge" (Bidgood). Selected recordings.

2YA

WELLINGTON. 720 kc. Sunday, 3.

2.0: Selected recordings.

6.0: Children's song service, conducted by Uncle George, assisted by the Children's Choir from St. Mark's Anglican Church.

7.0: Relay of evening service from the Vivian Street Church of Christ. Preacher, Pastor W. G. Carpenter. Organist, Robert H. Coombe.

Concert Programme.

8.15 (approx.): Relay of Concert by the Royal Naval Volunteer Reserve Band from the De Luxe Theatre (Conductor, Harry Baker).

CHRISTOHURCH. 980 kc. Sunday, 3.

2.0: Gramophone recital.

5.30: Children's song service, conducted by the Salvation Army.

6.15: Chimes. 7.6: Relay from the Salvation Army Citadel, Victoria Square. Address by Ensign Neeve.

Concert Programme.

8.15: Overture, Studio Orchestra, "The Bronze Horse" (Auber).

8.22: Recordings, Associated Glee Clubs of America, "Adeste Fidelis."
8.25: Recording (Piano), Emil von Sauer. Gnomenreigen" (Liszt).

8.29: Baritone, Claude Burrows, "Will

o' the Wisp" (Cherry).

8.33: Recording (Cello), Orabio de Castro, "Nocturae in E Flat" (Chopin).
8.37: Soprano, Addie Campbell, "Spring's Looking Out of Her Window" (Carew); "Little Brown Hands" (Lobr).
8.43: Recording (Violity) France Cinc.

8.43: Recording (Violin), Efrem Zimbalist, "Ave Maria" (Schubert-Wilhelm). 8.47: Recording (Baritone), Riccardo equal incarolla" (I om hivil).

Silent Days this Week 1YA, Monday. 3YA, Tuesday. 4YA, Thursday.

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

8.53: Studio Orchestra, Ballet Suite, "La Source": (a) "Scarf Dance," (b) "Love Scene," (c) "Dance—Circassienne" (Delibes).

9.0: Weather forecast and notices.

9.2: Reserved

9.16: Studio Orchestra, "Second Suliivan" Selection (arr. Godfrey),

9.28: Recording, Don Cossack Choir, "Serenade" (Abt).

9.32: Recording (Organ), Stanley Mac-donald, "Largo" (Handel).

9.35: Soprano, Addie Campbell "Lit-tle Boy Blue" (Nevin); "If Winter Comes" (Gideon). 9.41: Valse, Studio Orchestra, "South-

ern Roses" (Strauss).
9.50: Baritone, Claude Burrows, "A
Land of Roses" (Del Riego); "Port of
Many Ships" (Keel).

9.56: Recording (Band), H.M. Grena-dier Guards, "Onward, Christian Soldiers" (Sullivan); "Nearer, My God, to Thee" (Dykes).

4YA

DUNEDIN.

650 kc. Sunday, 3.

2.0: Selected recordings.

5.30: Children's song service, conducted by Big Brother Bill.

6.15: Selected recordings.

6.30: Relay of evening service from Knox Presbyterian Church. Rev. D. C. Herron, M.A. Roy Spackman.

7.45: Selected recordings.

Concert Programme.

8.15: Relay from Dunedin Town Hall of Organ Recital and Concert by Dr. V. E. Galway, City Organist, and assisting

9.30: Recordings. Chorus, Miriam Licette, Clara Serana, Messrs. Russell, Noble, Carr and Chorus, "Merrie England" (German).

9.38: Selection, Grand Symphony Orchestra, "A Children's Overture" (Quilter).

9.46: Piano, Mischa Levitzki, "Hungarian Rhapsody, No. 6 in D Flat Major" (Liszt).

9.54: Choral, Sheffield Orpheus Male Voice Choir, "The Long Day Closes" (Sullivan).

9.58: March, Band of the Royal Air Force, "Sons of New Zealand" (Lith-

2YB NEW PLYMOUTH. 1230 kc. Sunday, 3.

7.30 to 8.15-Church relay. 8.15 to 10.0-Studio concert.

Monday

[July 4]

WELLINGTON. 720 kc. Monday 4.

16.6: Selected recordings. 10.30: Devotional service.

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

12.0: Lunch music. 2.0: Selected recordings.

3,30 and 4.30: Sports results. 5.0: Children, by Uncle Jeff.

The Stella Musicale

Under the conductorship of Signor Giovanni Stella. will present a vocal and orchestral concert from

> 4YA on Sunday, July 10.



Signor Giovanni Stella.

Dinner Music.

6.0: National Symphony Orchestra, "Light Cavalry" Overture (Suppe). The International Concert Orchestra, "Spring, Beautiful Spring" Waltz (Lincke). Zono-Salon Orchestra, phone "Killarnev" (Balfe).

6.15: H.M Coldstream Guards Band, "Wedding of the Rose" (Jessel). New Light Symphony Orchestra, "Peer Gynt" Suite No. 2, Op. 55 (Grieg): (a) "Arabian Dance," (b) "The Return of Peer Gynt," (c) "Solveig's Song." International Concert Orchestra, "Over the Waves" Waltz

6.32: Dajos Bela Orchestra, "The 6.32: Dajos Held Orchestra, "The Countess Maritza" Potpourri (Kalman). Kiriloff's Russian Balalaika Orchestra, "Shining Moon" (Russian Folk Song). De Groot and His Orchestra, "Under the Roofs of Paris" (Moretti).

6.48: Zonophone Salon Orchestra, Chid Rustic Bridge" (Skelly). Charles Ancliffe and His Orchestra, "Ancliffe Waltzes" (Ancliffe)

Waltzes" (Ancliffe).
7.0: News and reports.

7.40: Lecturette, H. C. South, "Books Grave and Gay."

Concert Programme.

8.0: Overture, 2YA Concert Orchestra, (Conductor, Leon de Mauny), "Oberon" (Webber). Suite, "Peer Gynt Suite" No. 1: (1) "Morning," (2) "Ase's Death," (3) "Anitra's Dance," (4) "In the Hall of the Mountain King" (Grieg).

8.25: Recording (Bass-baritone), Peter

Dawson, "The Lute Player" (Allitsen);
"The Floral Dance" (Moss).
8.33: Instrumental, Wellington Chamber Music Players, "Trio in D Minor"
(1st Movement Allegro ed Agitato) (Mendelssohn).

843: Mezzo-contralto, B. R. Leigh-Hunt, "Bye an' Bye"; "I Stood on de Ribber Jordan" (both arr. Burleigh).

8.49: Instrumental, 2YA Concert Orchestra, "Minuet" (Paderewski); Grand March from "Aida" (Verdi).
9.0: Weather report and notices.

9.2: Reserved.

9.17: Valse, 2YA Concert Orchestra, "Mon Reve" (Waldteufel)

9.24: Recording, Stuart Robertson, with chorns, "Widdleombe Fair" (Jacob);
"Richard of Taunton Deane" (Molloy).
9.30: Mezzo-contralto, B. R. Leigh-

Hunt, "Hark I the Rehoing Air a Triumph Sings" (Purcell); (b) "An Old French Carol" (Liddle); "The Cockle Gatherer"

(Kennedy-Fraser),
9.37: Passepied, 2XA Concert Orchestra, "Le Roi s'Amuse" (Delibes)
9.41: Recording, Hubert Eisdell, Dorn Labbette, Muriel Brunskill and Harold Williams, "In a Persian Garden" (Lebergard)

9.49: March, 2YA Concert Orchestra, "Picador" (Sousa).

"Pieador" (Nousa),
9.54; Recording, National Minus.,
Band, "The Birds and the Brook"
"The Jolly Coppersmith"

10.0: Dance programme.

CHRISTCHURCH. 980 kc. 3ҮА Monday 4.

3.0: Gramophone recital 5.0: Children, by Rajah,

Dinner Music.

6.0: Berlin State Opera House Orches-"The Beautiful Galathea" Overture (Suppe, arr. Artok). San Francisco Symphony Orchestra, "Rosamunde— 8.24: Selection, The R Entracte" (Schubert). De Groot Trio, Rhapsody" (Friedmann). "Rosamunde-"Paraphrase of Strauss Waltzes" (arr. de

6.17: Jack Hylton and His Orchestra, "More Melodious Memories" (Finck). J. H. Squire Celeste Octet, "Minnet Sici-lienne" (Squire-Hart). London Symre Celeste (Squire-Hart). London "Komarinskaya" phony ·(Glinka).

6.34: Organ, Jesse Crawford, "La Borrachita" (Fernandez-Esperon). Musical Art Quartet, "Screnade" (Herbert). J. H. Squire Celeste Octet, "Minuet in D" (Mozart, arr. Willoughby). London Palladium Orchestra, "Selection of Operatic Gems" (arr. Forbes).

6.50: Organ, Jesse Crawford, "I Loved You Then as I Love You Now" (Mag-National Military Band, donald-Axt). "Ben Hur" (Byng).

7.0: News and reports.

7.30; W.E.A. Session, George Lawn, 9.27; Recording (Violin), Efrem Zim-M.A., "Banking and Currency" (No. 2). balist, "Impromptu" (Aulin).

Concert Programme.

(40: March, Woolston Brass Band (Unductor, R J. Estall), "Hercules" (Rimmer). Selection, "Sir Henry Bishop's Songs" (Hume).

8.15: Part-song, Kaiapoi Male Choic, (George March, Conductor), "Hymn Be-"Secrets" Action" (Davies); fore (Smith).

8:19: Tenor, E. Gray, "Rosebud" (Drummond); "Just a Wearyin' for You"

8.24: Selection, The Band, "Slavonic

8.30: Part-songs. The Choir, "The Three Clocks" (Starks); "Evening Song" (Schumann).

8,36: Cornet Solo, Bandsman R. Ohlson, "The Redcap" (Moss).

8.42: Baritone, J. H. Blackwell, "The Fortune Hunter" (Willeby).

8.46: Recording, Prince's Orchestra, La Paloma" (Yradier); "March of the Little Lead Soldiers" (Pierne).

8.52: Part-song, The Choir, "Maiden Fair, O Deign to Tell" (Haydn); "Landerkennung" (Grieg).
9.0: Weather forecast and notices.

9.2: Reserved.

9.17: Intermezzo, The Band, "Prelude" (Rachmaninoff).

9.22: Tenor, T. Puddle, "Passing By" (arr. Herrick). Part-song, The Choir, Part-song, The Choir, Drink to Me Only" (Parks).

9,31: Baritone, R. A. Blakeley, "Drake Goes West" (Sanderson).

9.34: Recording, Poltronieri String Quartet, "Siciliaua"; "Allegro Con Brio"

(both by Boccherini). 9.40: Recording (Contracto), Karin Branzell, "In Febters She Was Led' (Verdi).

9.44: Overture, The Band, "Tancredi" (Rossini).

9.53: Part-songs, The Choir, "Soldier's Farewell" (Kinkel); "Sea Fever" (Andrews).



Addie Campbell,

the popular Christchurch soprano who will be heard again from 3YA on July 3.

9.57: March, The Band, "Ravenswood" (Rimmer).

4YA

DUNEDIN.

650 kc. Monday 4.

3.0: Selected recordings.

4.30: Sports results. 5.0: Children, by Uncle Jack.

Dinner Music.

6.0: Herman Finck and His Orchestra, "Melodious Memories" (Parts 1 and 2) (arr. Finck). Continental Novelty Or-chestra, "Las Lagarternas" (Foulkes). Sir Henry J. Wood's Symphony Orchestra, "Prelude in C Sharp Minor" (Rach-J H. Squire maninoff, arr. Wood). J H. Squire Celeste Octet, "The Ant's Antics" (Squire).

6.17: Cordoba Philharmonic Orchestra, "Carnival" (Lucena). Regal Cinema Orchestra, "Viennese Nights" Waltzes Selection (Romberg). Continental Novelty Orchestra, "Los Claveles de Sevilla" (Guerrero).

6.31: Sir Henry Wood's Symphony Orchestra, "Volga Boat Song" (arr. Wood). Cordoba Philharmonic Orchestra, "La Habanera" (Lucena), J. H. Squire Celeste Octet, "The Fly's Courtship" (Squire). H.M. Coldstream Guards Band, "La Fille de Madame Angot" Selection (Lecocq). Herinan Finck and His Orchestra, "Melodious Memories" (arr. Finck), Parts 3 and 4.

7.0: News and reports.

Concert Programme of Recordings.

8.0: "Around Europe by Air in an Hour." Leave Ireland. Selection, Debroy Somers Band, "Erinalia" (Irish Medley) (arr. Somers).

8.5: Scotland, Pipe Band of the Cameron Highlanders, 'March Past of Highland Regiments' (Traditional).

8.8: England, Chorus, 'The National Chorus, "Here's a Health Unto His Majesty" (Traditional). Humour, Gillie Potter, "Mr. Potter's Sporting Broad-cast" (Potter).

8.13: France, Waltz, Marek Weber and His Orchestra, "Tres Jolie" (Waldtenfel).

8.17: Chorus, Edith Doy and Chorus. "French Marching Song" (Romberg). 8.20: Spain, Selection, Edith Lorand

Orchestra, "Torendor and Andalouse" Milits (Rubinstein). Vocal Trio, Stracciary, mer).

Appoloni and Ticozzi, "Toreador's Song"

8.27: Italy, Selection, Berlin State Opera House Orchestra, "Italy" (Moszkowski).

8.30: Tenor, Beniamino Gigli, "Che Gelinda Manina" (Puccini).

8.34: Hungary, Selection, Berlin State pera House Orchestra, "Hungary" Opera House (Moszkowski).

8.37: Austria, Chorus, The Musical Comedy Company, "Viennese Nights" (Romberg).

8.40: Poland, Dajos Bela Orchestra,, "Polish Life" (Nedbal).

8.44: Germany, The B.B.C. Choir, "Pil-Selection. grims' Chorus' (Wagner). Berlin State Opera House Orchestra, 'Germany" (Moszkowski).

8.50: Norway, Soprano, Emmy Bettendorf, 'Solveig's Song"; Suite, Royal Opera House Orchestra, Covent Garden, "In the Hall of the Mountain King" (both by Grieg).

8.57: Arrival Back in England, Maren, Royal Albert Hall Orchestra, "Pomp and Circumstance" (Elgar).
9.0: Weather report and notices.

9.2: Talk, John Ash, "Italy-Yesterday and To-day."

9.17: Selection, Grand Symphony Or-chestra, "The Great Eysler" (Hruby).

9.25: Piano, Patricia Rossborough, Barcarolle, Humoresque' (arr. Scott-Wood).

9.29: Male Chorus, English Chorus Party, "The Smoking Concert."

9.37: Selection, De Groot and His Orchestra, "Autumu" (Chaminade).

9.41: Bass-baritone, Peter Dawson, "A Bachelor Gay" (Tate).

9.44: Organ, Charles W. Saxby, "Les

Millions d'Arlequin" (Drigo).

9.48: Humour, Flotsam and Jetsam,
"Sing a Song of England"; "New Words
for Old."

9.54: Chorus, Light Opera Company, 'Naughty Marietta' (Herbert).

9.58: March, Band of H.M. Coldstream nards, "We MacGregor Patrol" Guards. (Amers).

NEW PLYMOUTH. 1230 kg. Monday 4.

7.30 to 8.0—News and information. 8.0 to 10.0—Studio concert.

Tuesday [July 5]

1YA

AUCKLAND.

902 kc. Tuesday 5.

3.0: Selected recordings, and Literary Selection.

4.30: Sports results. 5.0: Children, by "Uncle Dave."

Dinner Music.

6.0: Berlin State Opera Orchestra, 'Oberon-Overture" (Weber). H.M. Air Force Band, "The Parade of the Tin Soldiers" (Jessel). Arthur de Greef and the Royal Albert Hall Orchestra, "Hungarian Fantasia" (Liszt).

6.26: Organ, Reginald Foort, Sacred Hour" (Ketelbey). No National Sacred Hour" (Ketelbey). National Symphony Orchestra, "Stradella Over-ture" (Flotow). Instrumental Trio, Fritz Kreisler, Hugo Kreisler and M. Rauchelsen, "Marche noise" (Kreisler). B.B.C. Wireless Military Band, "Le Reve l'asse" (Hel-mor).

AUCKLAND

performance.

noises

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WELLINGTON

6.43: London Symphony Orchestra, Saunders). J. H. Squire Celeste Octet, Khowantchina — Persian Dances" "An Irish Love Song" (Squire). Persian "Khowantchina -Organ, Leslie James, (Moussorgsky). "Medley of Old Songs."

6.52: Fritz Kreisler, Hugo Kreisler and M. Raucheisen, "Syncopation" (Kreisler). H.M. Air Force Band, "The Nightingale and the Frog" (Bilenberg).

7.0: News and reports.

7.30: Agricultural Talk, P. W. Smallfield (Department of Agriculture), "Seasonal Operations."

Concert Programme of Recordings.

8.0: Overture, St. Louis Symphony Orchestra, "Fingal's Cave" (Mendelssohn).

8.13: Jolly Old Fellows, "Drinking Songs" (Trdtl.).

8.19: Jack Hylton and His Orchestra, "Memories of Paris" (Padilla).

8.25: Elizabeth Feuge-Friederich. Elizabeth's Prayer"; "Elizabeth's Greeting" (both by Wagner).

8.33: Band of H.M. Coldstream Guards, "Leslie Stuart's Songs" (arr. Hume).

8.41: Comedian, Cicely Courtneidge, "Ali Baba's Camel" (Gay).

8.47: J. H. Squire Celeste Octet, "Rhapsodie No. 2" (Liszt).
8.55: Zonophone Light Opera Company, Vocal Gems from "The Belle of New York" (Kerker).

9.1: Weather forecast and notices.
9.3: Talk, E. S. Macpherson, "

Domestic Life of the Chinese."

9.23: Suite, Orchestra of Concerts Colonne, Paris, "Mother Goose" (Rayel):
(a) "Hop o' My Thumb"; (b) "Empress of the Pagodas"; (c) "The Fairy Garden."

9.35: Tenor, Hubert Eisdell, "Little Lady of the Moon" (Coates); "Columbine's Garden" (Besly).

9.41: Accordion, J. Fiers, "Jealous"

(Malie); "Temptation, Rag" (Lodge).
9.47: Comedian, Will Evans, "W "Will Evans Loses His Umbrella"; Evans Unveils a Statue."

9.35: Selection, Menorah Symphony Orchestra, "Bar Kochba" (Goldfaden).

2YA

WELLINGTON. 720 kc. Tuesday 5.

10.0: Selected recordings.

10.30: Devotional service.

11.12: Lecturette. "Fabrics Fashions."

12.0: Lunch music.

2.0: Educational session.

3.0: Selected recordings.

3.30 and 4.30: Sports results. 5.0: Children, by "Jumbo."

Dinner Music.

6.0: Royal Italian Band, "Marcia (Royal March) (Gabetti). Vienna Philharmonic Orchestra, "Dorf-schwalben—Waltz." De Groot and His Orchestra, "Une Heure D'Amour" (Alexander). Mandoline Concert Society, "Echoes of the Volga" (Rutter).

6.21: Jack Hylton and His Orchestra, "Memories of Paris" (Moretti). De Groot (violin) and David Bor (piano) with H. M. Calve ('cello), "El Religario" (Padilla). New Queen's Hall Light Orches-

6.38: J. H. Squire Celeste Octet, "An Old Church Legend—Intermezzo" (Trinoen). Royal Italian Band, "Inno di Garibaldi" (Ollivier). De Groot and His Orchestra, "For Ever and For Ever" (Tosti). The Royal Opera Orchestra. Covent Garden, "Eugen, Onegin" Waltz (Tschaikowsky).

6.51: De Groot (violin), David Bor (piano), and H. M. Calve ('cello), "Setary Bilection of Hebrew Melodies" (arr. Sharp).

"An Irish Love Song" (Squire).

7.0: News and reports.

7.40 Lecturette. Representative, Agricultural Department, "For the Man on the Land."

Concert Programme.

8.0: Selection, Frank Crowther's Novelty Orchestra, "Favourite Melodies" (arr. Rosey).



Gladys Brooks,

who will contribute soprano items to 3YA's programme on July 6.

-Stephano Webb, photo.

8.12: Choral, The Choral Eight, "Love is Meant to Make Us Glad" (German). Duet, "The Little Irish Girl" (Lohr). Soprano, "I Am Longing for the Spring"; "Stay With Me, Summer" (both by Morris). Choral, The Choral Eight, "See Our Oars with Feather'd Spray (Stevenson).

8.24: Piano, Gordon Short, "Italian Concerto" (Bach).

8.36: Trio, "The Oars are Plashing Lightly" (Geibel). Baritone, "A Life That's Lived For You" (Sullivan). Contralto, "Home Song" (Liddle). Quartette, "All in the April Evening" (arr. Roberton).

8.48: Fox-trot, Frank Crowther's Nov-ty Orchestra, "I Don't Know Why" elty Orchestra, "I Don' (Turk and Ahlert). Trumpet duet. Messrs. Dick Colvin and Sid Bernard, "Birds of the Forest" (May). Frank Crowther's Novelty Orchestra, "We Two" (Payne).

9.0: Weather report and notices.

9.2: Reserved.

elty Orchestra,

Contralto, "June tock). (Trent). The Choral Eight, "Solemn

Night" (arr. Tolhurst). 9.37: Rhythmic Paraphrase, Crowther's Novelty Orchestra, "Il Trova-tore" (arr. Lange). Valse, "Sympathy" (Friml). One-step, "My Temptation" (Polla).

9.47: Choral The Choral Eight. "O Happy Eyes" (Elgar). Duet, "O Lovely Night" (Landon Ronald). Choral, The Choral Eight, "Speak to Me With Thy Eyes, Love" (Elliott).

tary Band, "Bonnets so Blue" (arr.

4YA

(Cadman).

hoven).

DUNEDIN.

5.0: Children, by Wendy and Aunt

Dinner Music.

Ferdy Kauffman and His Orchestra, "The

Gipsy Baron" Selection (Strauss). De Groot and the Piccadilly Orchestra, "If

Only I Had You" (Davies). New Light Symphony Orchestra, "At Dawning"

6.16: Coldstream Guards Band, "Suite

Francaise" (Foulds). J. H. Squire Celeste

Octet, "Song of the Waterfall" (Squire).

Ballet No. 2" (Bizet). Regal Salon Or-chestra, "Memories of Beethoven" (Beet-

6.49; Concert Orchestra, "Sous Bols" (Staub). De Groot and the Piccadilly

Orchestra, "Lolita" (Ferrette and Bies-

sier). New Light Symphony Orchestra,

7.30; W.E.A. Session, Dr. C. E. Hergus, "Public Health" (Second of Series).

Concert Programme.

Dunedin Town Hall, Concert by the Dunedin Philharmonic Society, Conduc-

8.0: Relay from Concert Chamber of

"The Waltzing Doll" (Poldini). 7.0: News and reports.

6.31: Piccadilly Orchestra, "Carmen-

6.0: Royal Opera Orchestra, "Carmen-Entracte and Ballet No. 1" (Bizet).

3.0: Selected recordings.

4.30: Sports results.

650 ke. Tuesday 5.

2YA

WELLINGTON. 720 kc. Wednesday 6.

10.0: Selected recordings.

10.30: Devotional service.

11.37: Lecturette, "Hollywood Affairs."

12.0: Lunch music.

2.0: Selected recordings.

3.30 and 4.30: Sports results. .

5.0: Children, by Aunt Molly.

Dinner Music,

6.0: Milan Symphony Orchestra,, "Mignon" Overture. Organ Solo, Jesse Craw-ford, "Serenade" (Romberg). New Sym-phony Orchestra, "Pastoral Dance from 'Nell Gwynn'" (German). Musical Art Quartet, "Deep River" (arr. Conrad Held).

6.18: New York Symphony Orchestra, "Entrance of the Little Fauns" (Pierne). Vienna Philharmonic Orchestra, Fledermaus" Waltz (Strauss), Brunswick Concert Orchestra, "La Danseuse" (von Blon). A. and P. Gipsies Orchestra, "My Memories."

tra, "My Memories."

6.43: The Salon Orchestra, "Chinese Lullaby" (Bowers). Orchestra Mascotte, "The Girl in the Taxi" Selection (Petras) Peter Biljos Balalaika Orchestra, "Blowing Winds" (Ukrainian Medley). The Salon Orchestra, "Sleepy Valley" (Hanley). Organ Solo, Jesse Crawford, "Indian Love Call" (Friml).

6.49: The Little Salon "Springtime in the Forest" A. and P. Gipsies Orchestra, "Bohemian Romance."

7.0: News and reports.

Concert Programme of recordings.

8.2: Overture, The State Opera Orchestra. "The Rose from Stamboul" (Fall).

8.8: Tenor, Alfred O'Shea, "At the Mid-hour of Night" (Cowen); "The Star" (Rogers).

8.14: Pianoforte, Benno Moiseivitch, "Rococo" (Palmgren); "The Little White

Donkey" (Ibert). 8.20: Concerted, Light Opera Company,

"Peggy Ann" (Rodgers).

8.24: Violin, Jascha Heifetz, "Hebrew ance" (Achron); "Spanish Dance" Dance' (Sarasate).

8.32: Humour, Wish Wynne, "A Servant Girl"; "Our District Visitor" (both by Wynne).

8.38: Instrumental, Jack Hylton and

8.46: Vocal Duet, Winnie Melville and Derek Oldham, "Love's Dream" (arr. Besly); "The Old Sweet Song" (arr. Kelp).

8.52: Selection, The Paul Godwin Orchestra, "The Circus Princess" (Kalman),

9.0: Weather forecast and notices. 9.2: Lecturette, Dr. Guy H. Scholefield,

O.B.E. 9.17: Medley, Regal Cinema Orchestra,

"A Musical Jig-Saw" (arr. Aston). 9.25: Bass-baritone, Peter Dawson, "Onaway, Awake, Beloved" (Cowen);

"Turn Ye to Me" (arr. Lawson). Quartet, Poltronieri "Siciliana"; "Allegro 9.31: String

String Quartet, Con Brio" (both by Boccherini)

9.37: Humour, John Henry, "My Wireless Set" (Reeves).

9.43: Novelty, Beryl Newell, "The Teddy Bear's Picnic" (Bratton); "Frog Puddles" (Whitney). 9.49: Concerted, Light Opera Company,

"The Girl Friend" (Rodgers). 9.53: Instrumental, Dajos Bela Orches-

"Waltzes from Vienna"

9.15: Mazurka, Frank Crowther's Nov-ty Orchestra, "Coppelia" (Delibes).

Serenade, "Sizilietta" (Blon),
9.25: Tenor, "To Enid" (Travers).
Soprano, "A Feast of Lanterns" (Ban-(Travers).

9.57: Recording, B.B.C. Wireless Mili-

Wednesday

[July 6]

1YA

902 kc. AUCKLAND. Wednesday 6.

3.0: Selected recordings and literary

4.30: Sports results.

tor, Signor R. Squarise.

5.0: Children, by Uncle Reg.

Dinner Music.

6.0: Sydney Baynes and His Orchestra, Old England" Selection (arr. Baynes). Marek Weber and His Orchestra, "Along the Banks of the Volga" (Borchert). B.B.C. Wireless Symphony Orchestra, His Orchestra, "Old-time Songs." 'Iolanthe" Selection (Sullivan).

6.18: London Palladium Orchestra, "The Rose-Selection of English Melodies" (arr. Myddleton). Int International Novelty Quartet, "Dwarfs' Patrol" (Rothke). Classic Symphony Orchestra, "Carmen" Selection (Bizet).

6.38: Salon Orchestra, "Reminiscences of Vienna" (Strauss). Sydney Baynes and His Orchestra, "Kentucky Home" Selection (arr. Baynes). The Salon Or-chestra, "Where the Rainbow Ends" Selection (Quilter).

7.0: News and reports.

Concert Programme.

8.0: Thirty Minutes of Selected Recordines.

8.30: Relay. The Girl Guides and Boy Scouts' Concert from the Town Hall.

9.0: Weather forecast and notices.

9.2: Talk, Fred Lucas, "Humorous Incidents On and Off the Feld." 9.17: Continuation of relay.

10.0: Dance programme.

CHRISTOHURCH. 980 kc. Wednesday 6.

3.0: Gramophone recital. 5.0: Children, by "Uncle Bill."

Dinner Music.

6.0: Marek Weber and His Orchestra, "Cavalleria Rustleana" Selection (Mascagni). International Concert Orchestra, "My Treasure—Waltz" (Becneci).
6.13: National Military Band, "Ballet Egyptien" (Luigini). De Groot and His Orchestra, "When the Great Red Dawn is Shiping". The London Orchestra.

is Shining." The London Orchestra, "Valse Memories" (arr. Somers).

6.30: Albert Sandler and His Orchestra, "My Dream Memory" (Levant). Philadelphia Symphony Orchestra, "Casse Noisette" (Nuteracker) Suite—"Waltz of the Flowers" (Tschalkowsky). Lou-don Palladium Orchestra, "Classica Selection" (arr. Hwing).
6.47: International Concert Orchestra.

"La Spagnola—Waltz" (Di Chiara).
Albert Sandler and His Orchestra, "Give
Me Back My Heart" (Novello). De
Groot and His Orchestra, "Zinetta"

7.0; News and reports.

7.30: Addington stock market reports. 7.40: Dialogue, under auspices of the Canterbury Horticulture Society. E. E. Wiltshire and F. C. Fairclough, "Story of the Garden."

Concert Programme.

8.0: The Studio Orehestra (Conductor. Harold Beck), "Florrabras" Overture (Schubert).

8.8: Recording, Grand Irmler Chair, "Bridal Chorus" (Wagner).

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home.

8.12: Recording (piano), Mischa Levitzki, "Sonata in A Major" (Scarlatti).

8.15: Soprano, Gladys Brooks, "Elizabeth's Prayer" (Wagner).

8.21: Studio Orchestra, "Harvest Fes-(Ames); "Folk Song and Fiddle

Dance" (Fletcher). 8.32: Bass recital, Finlay Robb, "A Man Going Round Takin' Names"; "I'm a Goin' to See my Friends" (both by Dett); "Lovely Kind and Kindly Lovin' "Request" (Franz); (Holst): Menin Gate" (with Orchestra) (Bowen).

8.44: Selection, Studio Orchestra, "La Traviata" (Verdi),

8,56: Recording, Inghilleri, Nessi Venturini and Epsemble of La Scala, Drinking Song" (Verdi).

9.0: Weather forecast and notices.

9.2: Reserved.

9.17: Soprano, Gladys Brocks, "Dear Hall of Song" (Wagner); "Oh! Had I Jubal's Lyre" (with Orchestra) (Han-

9.25: Incidental Music, Studio Orchestra, "Monsieur Beaucaire" (Rosse).

9.30: Dance music.

4YA

Home Fireside and

GULBRANSEN

DUNEDIN. 660 kc Wednesday 6.

3.0: Selected recordings.

3.15: Talk, Home Science Extension Service of University of Otago, "Puddings in the Winter-Time."

4.30: Sports results.

5.0: Children, by Big Brother Bill.

Dinner Music,

6.0: Columbia Symphony Orchestra, "March of the Bojaren" (Halvorsen). J. H. Squire Celesto Octet, "Invitation

to the Valse" (Weber). Jacques Jacobs' Ensemble, "Sobre Las Olas" (Rosas).

6.12: Plaza Theatre Orchestra, "G'psy Suite" (German): (1) "Valse" (Lonely Life); (2) "Allegro" (The Dance). (3) "Menuetto" (Love Duet); (4) "Tarantella" (The Revel).

6.25: Albert W. Ketelbey's Concert Orchestra, "In a Fairy Realm—Suite" (Ketelbey) (a) "The Moonlight Slide"; (b) "The Queen Fairy Dances"; (c) "The Gnomes' March." Orchestre Symphoni-

Gnomes' Mannand que de Paris, "L'Arlesienne de Paris, "L'Arlesienne de Carillon" (Bizet).

6,40: Columbia Symphony Orchestra, Carillon" (Grieg). Orchestra Paris, "L'Arlesienne Paris, "L'Arlesienne L'Arlesienne L'A Symphonique de Paris, Suite—Adagietto" (Bizet (Bizet), Albert W. Ketelbey's Concert Orchestra, "Bells Across the Meadows" (Ketelbey). London Novelty Orchestra, "Amina-Egyptian Serenade" (Lincke). J. H. Squire Celeste Octot, "Chant Sans Paroles" J. H. Squire (Tschaikowsky).

7.0: News and reports.

Concert Programme.

8.0: Programme of French music. Overture, Concert Orchestra (Conductor, Mons. B. L. H. de Rose), "The Yellow Princess" (Saint-Saens).

8.12: Contracto, G. Burt, "Bird of Love"; "Little Mother"; "Whence Come You. Good Shepherd?" (all Trdtl.)

8.19: Recording (Harp), Mildred Dilling, "Arabesque No. 1" (Debussy).

8.23: Fantasia, The Orchestra, tasie de Ballet" (de Beriot).

8.35: Baritone, A. J. Lungley, "John-nie's Donkey"; "The Bushman" (both Traditional).

8.42: Symphonic Suite, The Orchestra, "Callirhoe" (Chaminade).

8.54: Contralto, G. Burt, "The Wedding Day"; "Phyllida at the Well" (both Traditional).

9.0: Weather forecast and notices.
9.2: Coloratura Soprano, "Margherita 9.2: Coloratura Soprano, "Margnerna Zelanda," "Volte la Terrea fronte alle Sielle" (Verdi); "Elf and Fairy" (Densmore); "How Fierce He Looked and Watched Me"; "High, High, High Aloft They Cry" (both by Leoncayallo); "An Cross "Constant (Wacdman); "Libiamo Open Secret" (Woodman); "Libiamo ne'liete Callei" (Verdi).

9.17: Valse, The Orchestra, "Premiere Valse de Concert" (Durand). 9.21: Baritone, A. J. Lungley, "Elegie"

(Massenet).

9.26: Selection, The Orchestra, Three French Songs: (1) "Hindeo Song" (Bem-berg): (2) "At Fivening" (Debussy): (3) "Open Thy Blue Eyes" (Massenet). 9.34: Dance music.

NEW PLYMOUTH. 1230 kc. Wednesday 6.

7.30 to 8.0-News and information. 8.0 to 10.0-Studio concert.

Thursday [July 7]

1YA

AUCKLAND. 902 kc. Thursday 7.

12.15: Selected recordings. 12.30: Relay of Mid-day Service from

8.15; Home Science Talk, Prepared Cold-Does it Matter?"

4.30: Sports results and close down, 5.0: Children, by "Skipper,"

Dinner Music.

6.0: National Symphony Orchestra. "Orpheus in Hades-Overture" (Offenbach). Royal Opera Orchestra, Covent Garden, "The Sleeping Beauty-Waltz" (Tschaikowsky). De Groot (violin), and Herbert Dawson (organ), "Drink to Me Only With Thine Eyes" (Calcott).

6.16: The Savoy Orpheans, "Lido Lady" Selection (Rodgers). Bourne-mouth Municipal Orchestra, "Marriage of Figaro-Fandango" (Mozart), delphia Symphony Orchestra, "Danse Orientale" (Glazounov). National Military Band, "Lohengrin—Prelude" (Wag-

"Simple Aven" (Thome). De Groot (vio-Sing Thee Songs of Araby" (Clay). Philadelphia Symphony Orchestra. "March of the Caucasian Chief" (Iwanoff). Boston Symphony Orchestra. "Fruhlingsstimmen—Waltz" (Strauss).

6.46: Bournemouth Municipal Orchestra, "Don Glovanni, Act 1-Minuet" (Mozart). Marek Weber and His Orchestra, "Vienna by Night" (Komzak). 7.0: News and reports.

Concert Programme.

8.0: Recording, Band of H.M. Grensdier Guards, "New Sullivan Selection" (arr. Godfrey).

8.9: Ode, 1YA Broadcasting Choir and Orchestra, "Men of England" (Ketelbey). 8.17: Recording (violin), Jascha Hei-

fetz. "Jota" (de Falla); "Puck" (Grieg). 8.25: Cantata, The Choir and Orchestra, "The Rose Maiden" (Cowen).

9.0: Weather forecast and notices.
9.2: Continuation of the Cantata-"Rose Maiden."

9.37: Recording (String Quartette), Prisca String Quartet, "Quartet in G-'Horseman'" (Haydn); (b) "Quartet in

C" (Schubert). Recording, The Roosters' Concert Party, "Tommy's Little Day" (Merriman). 9,53: Recording, Band of H.M. Royal

Air Force, "Songs of Britain" (Trdtl.).

720 ke.

Thursday 7.

2YA WELLINGTON.

10.0: Selected recordings. 10.30: Devotional service.

11.37; Lecturette. Representa Health Department, "Health Hints," Representative,

12.0: Lunch music,

2.0: Selected recordings.

3.15: Lecturette, Miss I. F. Meadows. Talk prepared by the Home Science Extension Department of the Otago University, "Just a Common Cold-Does it Matter?"

3.30 and 4.30: Sports results. 5.0: Children, by Big Brother Jack.

Dinner Music.

6.0: Bournemouth Municipal Orchestra, "Crown Diamonds-Overture" (Auber). Dajos Bela Orchestra, "Viennese Life-Waltz" (Translateur). Regimen-tal Rand of H.M. Grenadier Guards, "The Turkish Patro!" (Michaelis). Organ, Terence Casey, "Bird Songs at Even-tide" (Coates).

6.16: Grand Symphony Orchestra, "Tales of Hoffman-Entracte and Minuet" (Offenbach). Berlin State Opera House Orchestra, "Wine, Women and Song" Waltz (Strauss). Piccadilly Orchestra, "My Beloved Gondolier" (Tibor).

6.30: Regimental Band of H.M. Grenadier Guards, "The Smithy in the Woods"

St. Matthew's Church. 3.0: Selected recordings.

by the Home Science Extension Service of Otago University, "Just a Common

H. W. CLARKE LTD. 182 WAKEFIELD STREET, WELLINGTON.

N.Z. DISTRIBUTORS:

Orchestra Mascotte, (Michaelis). "Amoureuse—Waltz" (Berger). Grand Symphony Orchestra, "Tales of Hoffman -Barcarolle" (Offenbach). "Fra Diavolo" Overture (Auber).

6.48: Organ, Terence Casey, "I'm Lonely" (Coates). Eddie Thomas's Col-legians, "The Missouri Waltz." H.M. Grenadier Guards' Band, "Country Dance" (German).

7.0: News and reports.

7.30: W.E.A. Session: W. S. Wauchop, M.A., "Modern British Drama-Some Modern Comedies and Their Authors."

Concert Programme.

8.0: Concert by the Wellington Artillery Band (Conductor, Capt. T. Herd) and 2YA Artists, March, The Band, "The New Ideal" (Brown). Suite, "The New Ideal" (Brown). Suits, "Suite Bohemian" (Hume): "A Gipsy Love Story," (a) "The Appeal"; (b) "The Caravan"; (c) "The Tarantella."

8.14: Soprano, Gladys Webb, "Song of the Little Folk" (Coates); "Love Has Eyes" (Bishop).

8.20: Piano Duet, Messrs. M. T. Dixon and J. Haydock, "Gipsy Suite" (German) 8.28: Recording (Humour), The Big Four, "Form Fours" War Songs Medley

(arr. Giraud). 8.32: Fantasia, The Band, "From Dawn to Twilight" (Smith).

8.47: Entertainer, Will Bishop, "A Humorous Interlude,"

9.0: Weather report and notices.

9.2: Recorded Talks by Well-known Authors (No. 2), Mr. J. B. Priestley, "Modern Novels."

9.15: Waltz, The Band, "Erin's Isle" (Vernon).

9.20: Recording, Zonophone Minstrels, "The White Blackbirds."

9.26: Piano Duets, M. T. Dixon and J. Haydock, "Polonaise" (Weber); (Weber): "Dances" (Moszkowski).

9.34: Soprano, Gladys Webb, Last Rose of Summer" (Moore); "Love's Rhapsody" (d'Hardelot).

9.40: Egyptian Serenade, The Band, "Amina" (Lincke). Dance, "Indian Sun

Dance" (Cohen).
9.51: Recording (Comedy), Joe Hayman, "Cohen on Telephone Deportment" (Hayman).

9.55: March, The Band, "Fighting Mac" (Lithgow).

CHRISTCHURCH. 980 kc. 3YA Thursday 7.

3.0: Gramophone recital

3.15: Home Science Talk, prepared by Home Science Extension Service of Otago University. "Just a Common Cold—Does it Matter?"

4.30: Sports results.

5.0: Children, by Ladybird and Uncle Dick.

Dinner Music.

6.0: Berlin State Opera House Orchestra, "Academic Festival" Overture (Brahms). Opera Comique Orchestra, Overture "Scenes Pittoresques"-March and Fete Boheme (Massenet).

6.16: Berlin State Opera House Orchestra, "Slavonic Dances, Nos. 8 and 16" (Dvorak). "Christmas Concerto" (Corelli).

6.39: Edith Lorand Orchestra, "Toreador and Andalouse" (Rubinstein). Berlin State Opera House Orchestra, "La Traviata" Prelude (Verdi).

6.45: Dajos Bela Orchestra, "Strauss, "Idilio" (
the Waltz King, at Home" (Weber). Concert Edith Lorand Orchestra, "Minuet" (Boccherini).

7.0: News and reports.

7.20: Review of Journal of Agriculture. "Bank Holiday."

Concert Programme of Recordings.

8.0: Berlin State Opera Orchestra, "Polonaise No. 2" (Liszt).

8.8: Lawrence Tibbett, "Eri Tu Che Macchiavi" (Verdi).

8.12: Descriptive, Super Cinema Orchestra, "Love's Dream After the Ball" (Czibulka)_

8.16: Chorns, "Sea Songs."

8.20: 'Cello, Gregor Piatigorsky, "Song "Air on G String" (Bach). Gil Dewithout Words," No. 25, in G Major Ensemble, "Italian Nights" (Roberts). (Mendelssohn); "Scherzo" (Feltzer).

7.0: News and reports.

8.26: Dialogue, W. P. Lipscomb and Alex. Field, "Tit for Tat," (a) "The Deutist in the Barber's Chair," (b) "The Barber in the Dentist's Chair" (Lipscomb).

8.32: Los Castillians, "Corazon Paso Doble" (Heart Lagonell).

8.35: Soprano, Miriam Licette, "Philomel" (Messager).

8.38: Organ, Terence Casey, Medley, "The Irish Organist" (arr. Casey).

8.46: Light Opera Company, Vocal Gems from "Faust" (Gounod). 8.54: Humour, Ronald Frankau,

"Riots, Strikes and Revolutions" (Fran-

8.57: International Novelty Quartet, "She's a Lassie from Lancashire" (Murphy).

9.0: Weather forecast and notices. 9.2: Talk, L. F. de Berry, M.A., "The New Schools of Europe."

9.17: Selection, New Meister Orchestra, "The Bat" (Strauss); "The Beggar Student" (Millocker).

9.23: Soprano and Baritone, Lotte Schoene and Willy Domgraf Fassbander, 'My Part I'll Play!' (Donizetti).

9.31: Squire's Celeste Octet, "Echoes of the Ball" (Willoughby).

9.34: Humour, Will Kings, "Bertram Addresses the Tenants" (Rutherford).

9.38: Organ, Quentin M. Maclean, "Serenade" (Heykens).
9.41: Part-songs, B.B.C. Wireless Singers, "Where the Bee Sucks" (Arne); "Come, Let Us Join the Roundelay" (Beale).

9.47: Piano, Frederic Lamond. "The Erl King" (Schubert-Liszt),

9.51: Songs at the Piano, Leslie Hutchinson, "Life is Just a Bowl of Cherries" (Brown); "Close Your Eyes" (Ten-

9.54: March, The National Military Band, "Regimental Marches."

Friday [July 8]

1YA

AUCKLAND.

902 kc. Friday 8.

12.30: Relay. Community Singing from the Lewis Eady Hall

3.0: Selected recordings and literary selection.

4.30: Sports results. 5.0: Children, by Nod and Aunt Dorothea.

Dinner Music.

6.0: Bournemouth Municipal Orches-a, "The Bronze Horse" Overture tra, (Auber). Debroy Somers Band, "Hungarian Medley—One-step" (arr. Debroy Somers). Rio Novelty Orchestra, "Mientras Llora el Tango" (Barabine).

6.16: Columbia Symphony Orchestra, "Idilio" (Lack). Albert W. Ketelbey's Concert Orchestra, "Cockney Suite" (Ketelbey): (a) "A State Procession," (2) "The Cockney Lover," (3) "At the Palace de Dance," (4) "Elegy," (5)

6.35: J. H. Squire Celeste Octet, "Funeral March of a Marionette" (Gounod), arr. Sear. Gil Dech En-Valse Parisienne" (Roberts, arr. semble, "Valse Parisienne" (Roberts, arr. Barry). Debroy Somers Band, "Mister Cinders" Selection (Ellis and Myers).

6.47: Rio Novelty Orchestra, "Spaventa" Tango (Pares). Columbia Symphony Orchestra, "Spring Song" (Mendelssohn). J. H. Squire Celeste Octet, "Air on G String" (Bach). Gil Dech

7.30: Sports talk.

Concert Programme.

8.0: Recording, London Symphony Or-

chestra, "The Impresario" (Mozart). 8.5: Soprano, May Bray, "I Know a Lovely Garden" (d'Hardelot); "Happy Song" (del Riego).

Rangitiki,

8.20: Recording (Comedian), Jim linny, "Once Aboard the Lugger" Slinny, (Sarony).

8.23: Recital, J. M. Clark, 'The Enoch

of Calaveras" (Harte). 8.27: Organ Recital, Arthur E. Wilson, "Autumn Night" (Frysinger); "Trumpet Tune and Air" (Purcell); "The Squirrel" (Weaver); "Narcissus" (Nevin); "Andante and Allegro" (Bach).

8.47: Baritone, Reginald Morgan, "The Celebrated Spanish Creole" tional); "Mignon" (d'Hardelot).

8.52: Harmonica, W. A. "Marching Feet"; "Danish Waltz" (both arr. Woods).

8.57: Recording, Parlophone Military Band, "Adrienne."

9.0: Weather forecast and notices. 9.2: Reserved.



Findlay Robb,

who is to give a bass recital from 3YA on July 6. -Stephano Webb, photo.

9.17: Selections, Orchestra, of R.M.V. Rangitiki.

9.27: Soprano, May Bray, "The Second Minuet" (Besly); "Shule Agra" (Traditional).

9.32: Recording, Elastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).

9.35: Baritone, Reginald Morgan, "Just Love Me" (Phillips); "The Old Refrain" (Kreisler). 9.40: Recital, J. M. Clark, "Mrs Raw-

den Crawley Found Out" (Thackeray). 9.48: Recording, Clarkson Rose, "We're Living at the Cloisters" (Wes-

Woods, 9.51: Harmonica, W. A. "Southern Marches"; "Jazz "Jazz Medley (both arr. Woods).

9.56: Selections, Orchestra of R.M.V. Rangitiki.

2YA

WELLINGTON.

720 kc. Friday &

10.0: Selected recordings.

10.30: Devotional service.

11.12: Lecturette, "Fashions."

12.0: Lunch music.

2.0: Selected recordings.

3.30 and 4.30: Sports results. 5.0: Children, by "Tweedledum."

Dinner Music.

6.0: Berlin State Opera House Orches-8.10: Selections, Orchestra of R.M.V. tra, "The Barber of Seville" Overture (Rossini). Dajos Bela Orchestra, "Woodland Peace" (Favilla). Opera Comique Orchestra, "Gopak" (Moussorg-sky). Dajos Bela Orchestra, "Roses of the South" Waltz (Strauss).

6.15: Opera Comique Orchestra, "The Sorotchintsi Fair"-"A Hot Day in Little Russia" (Moussorgsky). Grand Symphony Orchestra, "Polonaise No. 1 in A" (Chopin). Debroy Somers Band, Desert Song" (Romberg). Barnabas von Geczy "ud His Orchestra, "Strauss Waltz Medley" (Strauss).

6.39: Berlin State Opera House Ornestra, "Aida—Selection" (Verdi). chestra. Grand Symphony Orchestra, "Hungarian Dances-Nos. 5 and 6" (Brahms). Dajos Bela Orchestra, "The Court Ball" (Lan-"Vienna Bon Bons" ner). (Strauss).

7.0: News and reports.

7.40: Lecturette, Mrs. A. L. Long, "Contract Bridge."

Concert Programme.

8.0: Thirty Minutes of Selected Recordings.

8.30: Overture, 2YA Concert Orchestra (Conductor, Leon de Mauny), "The Bohemian Girl" (Balfe). Valse, "Toreador" (Royale).

8.43: Baritone, R. D. Campbell, "Where the Great Ships Ride" (Sanderson): "The Menin Gate" (Bowen).

8.50: Instrumental, 2YA Concert Or-Three Dances from chestra, Three D Gwynn" (German).

9.0: Weather report and notices.
9.2: Lecturette, Dr. E. Kidson, "Weather Forecasting."

9.15: Morceau, 2YA Concert Orchestra,

"Extase" (Ganne).
9.19: Baritone, R. D. Campbell, "Oh, to be a Gipsy" (Forster).

9.23: Intermezzo, 2YA Concert Or-chestra, "Pulcinello" (Aletter). March, "The Colonial March" (Hall).

9.31: Dance programme.

3YA CHRISTCHURCH. 980 kc. Friday 8.

3.0: Gramophone recital. 5.0: Children, by Friday.

Dinner Music,

6.0: New Queen's Hall Light Orchestra, "The Little Minister" Overture. J. H. Squire Celeste Octet, "Serenade" (Titl). Symphony Orchestra, "Doctrinen" Waltz (Strauss). H.M. Grenadier Guards Band, "Martial Moments—

march Medley" (arr. Winter).
6.24: Plaza Theatre Orchestra, "The Three Bears" (Coates). London Palladium Orchestra, "Lightning Switch" (Alford). J. H. Squire Celeste Octet, "La Serenata" (Braga).

tra, "Old and New—Potpourri of Popular Cardy).

Melodies" (arr. Finck) Symphony Orchestra, "When the Lemons Bloom" (Conductive Waltz (Strauss).

(Conductive Hush, Texture 11 of 12 of 12 of 12 of 13 of 13

8.10: Part-songs, Marian Woodhouse's Glee Club, "Song of the Danish Sea Kings" (Macpherson); "Roses of Picardy" (Wood).

8.18: Salon Orchestra, "At Dawning" (Cadman).

8.22: Mezzo-contralto, Mavis Andrew, "Che Faro" (Gluck).

8.25: Baritone, K. Murray Fountain.
"Pagan" (with orchestra) (Lohr).

8.29: Thirty minutes of selected recordings.

9.0: Weather forecast and notices.

9.2: Talk, Read Masters, "Travel Memories of People and Places" (No. 2).
9.17: Part-songs, Glee Club, "If You Will Come to Corte" (Howell) "Bells of Shandon" (Sweeting).

9.22: Soprano. Evelyn Lawn, "Vissi d'Arte" (Puccini); "Blackbird's Song" (Scott).

9.27: Salon Orchestra, "Carissima" (Elgar).

9.32: Baritone, K. Murray Fountain, "Ireland, Mother Ireland" (Loughborough); "For the Green" (Lohr).

9.38: Soprano, Mavis Andrew, "She 's Far from the Land" (Lambert).

9.41: Salon Orchestra, "Ciribiribin" (Pestalozza).

9.45: Part-songs, Glee Club, "Ye Banks and Braes" (Traditional); "Come Away, Sweet Love" (Miller).

4YA

DUNEDIN.

650 kc. Friday 8.

3.0: Selected recordings.

4.30: Sports results.

5.0: Children, by Aunt Sheila.

Dinner Music.

6.0: La Scola Orchestra, "The Secret of Susanna" Overture (Wolf-Ferrari). New Symphony Orchestra, "Mors et Vita -Judex" (Gounod). Berlin State Opera House Orchestra, "German Dances" (Mozart).

6.15: Marek Weber and His Orchestra, "Treams on the Ocean" Waltz (Gung").

Novelty Orchestra, "Midnight Bells"

(Heuberger). New Mayfair Orchestra, "A Lover in Damascus" (Woodforde-Finden).

"Follow Through" Selection (de Sylva, sian Fantasie" (Lange). "Faust-Brown and Henderson).

6.30: J. H. Squire Celeste Octet, "Operatica" (arr. Squire). Royal Opera Or-chestra. "Naila" Waltz (Delibes). Sym-phony Orchestra. "Waltz of the Hours"; Variations from "Copelia" (Delibes).

6.50: Novelty Orchestra, "Passion Rose" (Lehar). International Concert Orchestra, "Danube Waves" Waltz (Ivanovici).

7.0: News and reports.

7.30: W.E.A. Session. Lloyd Ross. M.A., "Anticipations—The Future of War Debts and Reparations."

Concert Programme.

8.0: Recording, Paul Whiteman and His Concert Orchestra, "Caprice Futur- Maiden, My Maiden" (Lehar).

6.41: Herman Finck and His Orches- istic" (Malneck); "High Water" (Mc-

8.8: Part-songs, Dunedin Glee Singers (Conductor, H. P. Desmoulins), "Oh, Hush, Thee, My Baby" (Sullivan); "All Through the Night" (Traditional).

Concert Programme.

8.0: Christchurch Salon Orchestra, (Conductor, Francis E. Bate), "Chu Chin Chow" (Norton).

8.10: Partsoner (Sussion, Professor Sin-Bullet (Sussion), "All Annough the Night" (Traditional).

8.15: Popular Melodies, The Bellbird Hawaiian Trio, "Yes, Yes" (Conrad); "Don't Sing Aloha" (Smith).

8.22: H. McL. Eggers, "Comedy Sketches" (Eggers).

8.32: Chorus. Danadia (Mr. Conrad)

8.32: Chorus, Dunedin Glee Singers, "My Old Kentucky Home" (Foster). 8.36: Recording (Descriptive Sketch).

Ensemble, "The House that Jack Built" (Jeans).

8.44: Popular Melody, The Bellbird Hawaiian Trio, "Kiss Me Good-night, Not Good-bye" (Hanley).

8.43: Humorous Part-song, "Dunedin Glee Singers, 'Old Mother Hubbard" (Wheeler); "The Bonnie Wee Window"

8.55: Recording, Tom Katz Saxophoue Band, "Popular Songs Medley" (arr. Quintrell).

9.0: Weather report and notices.

9.2: Reserved.

9.17: Madrigal, Dunedin Glee Singers, "Now is the Month of Maying" (Morley). Part-song, Dunedin Glee Singers, "The Blue Bird" (Stanford).

9.23: Recording (Organ), asey, "Time Alone W Terance Will Casey, Tell (Nicholls); "Just One More Chance" (Johnston).

(Johnston).
9.29: Humour, H. McL. Eggers,
"Comedy Sketches" (Eggers).
9.37: Popular Melodies, The Bellbird
Hawaiian Trio, "Here Comes the Sun"
(Wood); "Aloha Oe" (Traditional).
9.43: Rounds, Dunedin Glee Singers,
"The Bell Doth Toll"; "Row, Row Your
Boat"; "Lovely Evening"; "Good-night" (all Traditional).

9.48: Recording (Xylophone), Rudy tarita, "The Punch and Judy Show" Starita,

Sweet Love" (Miller).

9.51: Salon Orchestra, "Hungarian Dances," Nos. 2 and 4 (Brahms).

9.57: Part-songs, Glee Club, "Mayday Song," (Harvey); "Autumn Days" Song, "Who is Sylvia?" (Galway).

(Davies).

10.3: Salon Orchestra, "Hungarian Dance," No. 5 (Brahms).

Starita, "The Punch and Judy Show" (Black)

9.51: Vocal Trio, Dunedin Glee Singers, "A Country Hymn" (Warrell); Part-song, "Who is Sylvia?" (Galway).

9.57: Recording, St. Hilda Colliery Band, "The Flying Squad" (Hume).

Saturday [July 9]

1YA

902 kc. AUCKLAND.

Saturday 9.

2.42: Relay. Description of Rugby Football Match from Eden Park. 5.0: Children, by "Cinderella."

Dinner Music.

sian Fantasie" (Lange). Waltz" (Gounod).

6.15: Dajos Bela Orchestra, "I Pagliacci—Selection" (Leoncavallo). Lorand Orchestra, "Hedgeroses" (1 Edith (Lehar). Ernest Leggett London Octet, "Operatic Fantasia" (arr. Aldington).

6.34: Dajos Bela Orchestra, "The Swallows" Waltz (Strauss). La Argentina, Castanets, with Orchestra, "Dance No. 5" (Granados). Dajos Bela Or-chestra, "Fantasie Orientale" (Lange). "Viennese Waltz Pot-Pourri" (Parts 3 and 4) (arr. Robrecht). La Argentina, Castanets with Orchestra, "La Corrida" (The Bull Fight) (Valverde).
6.55: Edith Lorand Orchestra, "O



Signora Martinelli Reggiardo

a talented 4YA pianiste and conductress. Selections by her sextette will be a feature of the concert to be presented by the Stella Musicale from 4YA on Sunday, July 10.

7.0: News and reports.

7.30: Talk, W. E. Priestley, "Modern Ballroom Dancing."

Concert Programme.

8.0: March, The Dominant Seven. "Local Pride" (Ford). Characteristic. Characteristic, "Bear Track" (Barroll).

8.7: Quartet, The Harmonisers, "Hear contrader Calling" (Moore); "Molly Kentucky Calling" Darling" (Parks).

8.13: Recording, J. H. Squire Celeste Octet, "Putting the Clock Back" (arr. Squire).

8.21: Novelty, Ernest and Wendy, "Bits and Pieces."

8.28: Waltz, Dominant Seven, "Sentiers Fleuris" (Waldteufel). Two-step, "That Tangoing Turk" (Cobb).

8.36: Contralto, Phyllis James, "I Wonder if Love is a Dream"; "Just a

World of Roses" (both by Forster).

8.42: Recording, Mandolin Band, "La Traviata Preludes" (Verdi).

8.50: Quartet, The Harmonisers,

Mammy's Little Coal Black Coon" (Parks). 8.54: Foxtrot, The Dominant Seven,

"Delishious" (Gershwin). Slow waltz, "Sweetheart of the Prairie" (Solman).

9.0: Weather forecast and notices. 9.2: Reserved.

9.17: Rag, The Dominant Seven, "Down Home" (Sweetman). Saxophone Oddity, "Slip N Sax" (Craig).

9.23: Quartet, The Harmonisers, "Larboard Watch"; "Picaninny's Lullaby" (both by Parks).

9.29: Recording (piano), Raie da Costa, "Sweetheart I'm Dreaming of You" (Brody); "When Day is Done" (de

9.37: Novelty, Ernest and Wendy, "Bits and Pieces."

9.44: Recording, Ilja Livschakoff Orchestra, "Listen and Wonder" (Dostal). 9.50: Phyllis James, "The Glory of the

Sea" (Sanderson); "Good Morning, Brother Sunshine" (Lehmann).

9.55: Foxtrot, The Dominant Seven, "Sun Kist Rose" (de Voll). March, "The Troopers" (Bacon),

10.0: Sports summary. 10.10: Dance programme.

2YA

WELLINGTON. 720 kc Saturday 9.

2.45: Relay. Description of Rugby Football Match played at Athletic Park. 5.0: Children, by Aunt Molly and Uncle Jasper

Dinner Music.

6.0: Grand Symphony Orchestra, "Raymond" Overture (Thomas). The Royal Music Makers, "Kiss Me Again" Waltz (Herbert). Victor Oloff Sextet, "Cherry Ripe" (Scott). Frank Westfield's Or-chestra, "The Druid's Prayer" Waltz (Dayson).

6.16: Dajos Bela Orchestra, "Electric Girl" (Holmes); "The Grenadiers" Waltz (Waldteufel). Organ, Jesse Craw-Girl" ford, "How am I to Know?" (King). Dajos Bela Orchestra, "Pique Dame" Fantasia (Tschaikowski).

6.34: Frank Westfield's Orchestra. "Neapolitan Nights" Waltz. Plaza Theatre Orchestra, "Scarf Dance" (Chaminade); "Pierrette" The Royal Music Makers, (Chaminade). s, "Ah! Sweet Mystery of Life" (Herbert). Dajos Bela Orchestra. "Eldgaffeln" (Landen). 6.48: Organ, Jesse Crawford, "I'll Close My Eyes to the Rest of the World"

(Friend). Dajos Bela Orchestra, "Casino Tanze" Waltz (Gungl). Vienna Harmonic Orchestra, "Turkish March" from "Ruins of Athens" (Beethoven).

7.0: News and reports. 7.30: W.E.A. Session, W. R. B. Oliver, M.Sc., "New Zealand Birds—New Zealand Forest Birds."

Concert Programme,

8.0: March, 2YA Concert Orchestra (Conductor. Leon de Mauny), "Our Favourite Regiment" (Ertl).

8.5: Tenor, Noho Toki, "In the Garden of To-morrow" (Deppin); "The Sweetest Call" (Morrow).

8.11: Recording (Comedy), Ernest Hastings. "Lovely Music"; "Perverted Placards" (both by Hastings).

Saltr: Ballet Suite, 2YA Orchestra, "La Source": (1) "Pas des Echarpes," (2) "Scene d'Amour," (3) "Variation," (4) "Danse Circassienne" (Delibes).

8.29: Mezzo-contralto, Christina Young, "Love is Meant to Make Us Glad" (German); "Pirate Dreams" (Huerter)

8.35: Recording (Humour), "Frank Crumit, "What Kind of a Noise Annoys an Oyster?" "Foolish Facts" (Both by Curtis),

8.41: Selection, 2YA Concert Orchestra, "Faust" (Gounod).

8.54: Recording (Quartet), The Big Four, "You're Gonna be Young" (Nicholls); "The King's Horses", (Graham).

9.0: Weather report and notices

9.2: Reserved.

9.17: Violin, Leon de Mauny, "Lon-donderry, Air" (arr. Morris). 9.23: Tenor, Noho Toki, "Song of the Locust" (Hill); "Ka Mate" (Te Rangi Hikiroa).

9.29: Recording (Saxophone), Andy Sannella, "Jack and Jill" (Sannella). 9.32: Recording (Humour), William McCulloch, "Old Soldiers Never Lie" (Stoddart).

9.38: Instrumental, 2YA Concert Orchestra, "Valse Blene" (Margis).
9.42: Mezzo-contralto, Christina Young,

Fragile Things"; "Were I a Moth

(both by Phillips).
9.48: Two-step, 2YA Concert Orchestra, "Miss Liberty" (Leroy). "Inc

9.52: Recording (Hun Smoking Concer't' 10.0: Sporting summary. (Humour).

10.10: Dance programme.

CHRISTCHURCH. 980 kc. Saturday 9.

3.0: Gramophone recital. 5.0: Children, by "Aunt Pat."

Dinner Music.

6.0: Albert W. Ketelbey's Concert Orchestra, "Chal Romano-Gypsy Overture" (Ketelbey). Salon Orchestra, "By the Light of the Stars" (Shay). San Francisco Symphony Orchestra, "Caprice Francisco Symphony Orchestra, Viennois" (Kreisler).

6.16: Zonophone Salon Orchestra, "Evensong" (Easthope Martin). The London Palladium Orchestra, "Sunset" (Matt). Marimba Band, "Aguas Dormides" (Borlanos). Berlin State Opera House Orchestra, "A Midsummer Night's Dream—Overture" (Mendelssohn).

6.38: San Francisco Symphony Orches tra, "Coppelia Ballet Automatons Dance" (Delibes). International Novelty Quartet, "Merry Widow-Waltz" (Lehar). The London Palladium Orchestra, "Dawn" (Matt).

6.49: Zonophone Salon Orchestra, "Eleanor" (Deppen). Marimba Band. "Morales Lopez" (Borlanos). Berlin "Morales Lopez" (Borlanos). Berlin State Opera House Orchestra, "A Mid-Dream - Wedding summer Night's Di March" (Mendelssohn).

7.0: News and Reports.

Concert Programme.

8.0: Christchurch Salon Orchestra (Conductor, Francis E. Bate), "Glorianna" (Friml).

8.10: Recording, Light Opera Company, Vocal Gems from (a) "Mister Cinders" (Ellis Myers); (b) "Darling, I Love You" (Carter).

8.18: Recording, Piano, Gil Dech (a) "When My Dreams Come True" (Berlin); (b) "Old Timer" (Rose).

5.24: Bass-Baritone. Claude O'Hagan, (a) "The Drover" (Stoneham; (b) "The Little Irish Girl" (with orchestra), (Lohr).

8.29: Recording (Organ), Pierre Pal-, "Valse Pondree" (Popy).

(a) "Oh That It Were So" (Bridge); (b) "My Hero" (with orchestra). (Strauss)

8.39: Waltz, Salon Orchestra, "Jours Passes" (Horne). Tango, "Love in Springtime" (Korner).

8.49: Comedia, Jock Lockhart, (a)
"Ali Baba's Camel" (Gay); (b) "That's
How I Like Em" (Weston Lee).

8.55: Recording, Pipe Band of the Cameron Highlanders, (a) "My Native Highland Home" (Arranged Marshall); (b) "Munlochy Bridge"; (c) "The Kilt is My Delight"; (d) "Happy We've Been."

8.58: Recording, The Four Voices, "In Old Madrid" (Trotere).

9.1: Weather Forecast and Notices.

9.3: Reserved.

9.18: Bass-Baritone, Claude O'Hagan, (a) "Roses" (Adams); (b) "Captain Mac" (with orchestra), (Sanderson).

9.23: Recording (Cornet), Jack Macintosh, "Silver Shower" (Rimmer).

9.26: Recording (Comedienne), Ann Penn, "A Dicky Bird Told Me So" (Gil-

9.29: Suite, Salon Orchestra, Americana Suite, (a) "The Tiger's Tail"; (b) "Malinda Sings"; (c) "The Water Melon Fete" (Thurban).

9.40: Mezzo-Soprano, Merle Miller. "One Morning Very Early" (with orchestra), (Sanderson).

9.44: Recording, International Novelty Quartet, "The Valeta" (Morris).
9.47: Comedian, Joek Lockhart, (a)

"That Rests Entirely With Me" (Ver-

non); (b) "Love, Wonderful Love" (Morgan).

9.53: Waltz, Salon Orchestra, "Blue Danube" (Strauss). 10.0: Sports Summary. 10.10: Dance Music.

DUNEDIN.

650 kc. Saturday 9.

1.15: Relay description of Rugby Football from Carisbrook Ground.

4.30: Sports results. 5.0: Children, by Aunt Anita.

Dinner Music.

6.6: Minneapolis Symphony Orchestra. "March Militaire" (Schubert). Pavilion Lescaut Orchestra, "Pan and the Wood



Arthur Lungley,

One of Dunedin's foremost baritones, who will breadcast from 4YA on July 6.

-Artlite, photo.

8.33: Mezzo-Soprano, Merle Miller, Goblins" (Rothke). A. and P. Gipsics Orchestra, "Herbertiana" Brunswick Concert Orchestra, "A Thorsand Kisses" Waltz (Joyce). Anglo-Persians' Orchestra, "My Little Persian Rose" (Friedland).

6.16: Minneapolis Symphony Orches-"Coppelia Ballet-Prelude and Matra. zurka" (Delibes). Dajos Bela Orchestra, "Delirien" Waltz (Stranss). Minnea-polis Symphony Orchestra, "Prelude to (Rimsky-Korsakov). Khowantchina" Grand Symphony Orchestra, "Dance of the Waves" (Catalani).

6.36: Pavilion Lescaut Orchestra, "Clog Dance" (Fetras). A. and P. Gipsies Or-chestra, "White Acacia"; "Petite Causerie" (Stone). Brunswick Salon Orchestra, "Love Everlasting" Waltz (Friml); "Little Grey Home in the West" (Lohr).

6.52: Minnneapolis Symphony Orchestra, "Dernier Sommeil de la Vierge" (The Virgin's Last Sleep) (Massenet). Dajos Bela Orchestra, "Count of Luxembourg Waltz" (Lehar).

7.0:. News and reports.

8.0: Belay from Concert Chamber of Dunedin Town Hall. Dunedin Orchestral Society. Conductor, Alfred Walmsley.

10.0: Sports summary. 10.10: Dance music.

NEW PLYMOUTH. 1230 kc Saturday 9.

7.30 to 8.0-News and information. 8.0 to 10.0-Studio concert.

PRIVATE STATION :: PROGRAMMES

1ZR. Auckland

(1090 kc., 275.2m.)

WENDY'S children's session at 1ZR last Thursday evening was outstanding. The children of the Jubilee Institute for the Blind supplied the programme, and demonstrated that they were under no handicap as far as music or elecution was concorned. The performers in part-songs, vocal and instrumental solos, showed an artistry of a high order. Miss Law had charge of the children, and this Wendy's session was one of a type that would be welcomed more frequently.

NEXT Friday's hour of fun for the little folk-the children's hour at 1ZR, conducted by the Fairy Princess and Uncle Cam-is to be a real boys' night. The Boy Scouts are to supply the programme, and Uncle Cam has just that way to make the boys feel at home. A lively session is in store for the kiddles.

1ZR Programmes

Friday, July 1.—10.20 a.m.: Devotional service, Uncle Scrim. 11.15: Mr. W. Anderson. 2-0 p.m.: C.ose down. 5.0: Dinner music. 6.0: Children's session, Uncle Cam, Fairy Princess, and Boy Scouts: Camp Fire Scenes. 7.0: Mr. Bill Hindman. "Sport." 7.80: Relay of Community Singing from Lewis Eady Hall. Song leader, Vernon Drew. 9.0-10 p.m.: 1ZR Concert Party, Studio, Haydu evening. Haydn evening.

Saturday, July 2-10.30 a.m.; Devo-Peters. 1.30 p.m.: Close down. 5.0: Dinner music. 6.0: Children's session, Polly Flinders and Jack the Giant-killer. 7.15: G. Roland Hutchinson. 8.0: Musical State of the Control of the cal. 10.0-11 p.m.: Dance music.

Sunday, July S.—9.0 a.m.: Tom's children's service. 9.45 9.45: Uncle Serim conducting the studio church service, with 12R Broadcasting Choir, under the direction of Mr. J. Whitley McElwain. 6.0: Music. 6.15: Miss Baker's Church of England children's service. 7.0: Relay of Mr. A. H. Dallimore's mission service from East Street Hall. 8.30 p.m.: Studio standard classics. 9.0: The Man Who Speaks. 9.30: Close down.

Monday, July 4.—10.30 a.m.: Devo-tional service, Mr. Garner. .11.15: "Maorilander," "Titbits." 2.0 p.m.: Close down. 5.0: Dinner music. 6.0: Children's session, Goldilocks and Hoppy. 7.0-7.30: p.m.: Music.

Tuesday, July 5.—10.30 a.m.: Devo-tional service, Uncle Scrim. 11.15: Madame Milne, "Diet and Health." 2.0 p.m.: Close down, 5.0: Dinner music. 6.0: Children's session, Aunts Ruth and Nina and Uncle Scrim. 7.15: Mr. Garcert Chamber of goyle. 8.0: Popular programme. Concert by the p.m.: Close down. 10.0

programme. 10.0-11.0 p.m.: Dance session.

2ZW, Wellington

(1120 kc., 267.9m.)

Realising that many thousands of country listeners are extremely in-terested in the Winter Show at present being held in Wellington, 2ZW broadcast the opening of the show in the afternoon of Thursday, 22nd, and will relay 15 minutues or so each evening from the Winter Show Building itself, while the show is in progress. This will include a description of the show, of the crowd, of the stalls and of the various entertainments in progress

AN arrangement has been made with the Wellington Aero Club by which the station and the Aero Club will cooperate whenever any interesting or vital happenings occur within a radius of 50 or 60 miles of Wellington. In the meantime an arrangement has been made to broadcast a series of speeches by Mr. Nisbet, secretary of the club, on matters of interest to the general public. Details of this will be announced later.

MR. W. L. HARRISON, B.E., B.Sc., Assoc. I.R.E., station engineer of 2ZW, was appointed station director on June 6, succeeding Mr. L. E. Strachan,

2ZW Programmes

Wednesday .- 10.0: Devotional service. 10.15 to 11.45: Women's session. .11.45 to 12.0: Miscellaneous orchestral programme. 7.0: After dinner music. 7.30: gramme. 7.0: After dinner music. 7.30:
Talk by Dr. Marsden. 8.0: Talbidi revue by Merrymakers. 3 to 10: All-British programme. 10-11: Dance music.
Thursday.—10.0: Devotional service.
10.15 to 11.45: Special women's session.
11.45 to 2.0: Mixed orchestral programme. 2.30: Orahogram and 2.0: Devotional services.

2.30: Orchestral programme. gramme. S.0: Relay from city tea rooms. 5.0 to 6.0: Children's hour. 7.0: After-dinner music. 7.30: Talk by the City Missioner.
8.10: Studio concert, featuring Lucien
Cesaroni (bass), assisted by Mavis
Dillon (pianist). 10.11: Dance music.
Saturday.—10.0: Devotional service,
10.15-12.0: Women's sessions. 12.2:

Miscellaneous band and orchestral programme. 7.8: After-dinner music 8.10: Light popular programme. 10-12: Dance session, including relay Majestic Lounge.

Sunday .- 11.0: Devotional 6.30: Eventide music. 7.30: Relay of evening service from St. Paul's Pro-Cathedral. 8.0: Concert.

Cathedral, 8.0: Concert,

Monday,—10.0: Devotional service,
10.15-11.45: Women's session (as on
Wednesday), 11.45 to 2: Miscellaneous
orchestral programme, 7.0: After-dinner
music, 8.0 to 10.0: Popular programme,
10-11: Dance music,
Tuesday,—10.0: Devotional service,
10.15-11.0: Women's session, 11.15-12:
Miscellaneous orchestral programme, 7.0:
After-dinner music, 7.30: "Diet and

p.m.: Close down.

Wednesday, July 6.—10.30 a.m.: Devotional service. Uncle Scrim. 11.15:
Dr. Violet Hastings. 2 p.m.: Close down.
5.0: Dinner music. 6.0: Children's session.
Thursday, July 7.—10.30 a.m.: Devotional service. Uncle Scrim. 11.15: Mr. Mr. J. Lyon. 2.0 p.m.: Close down.
Dinner music. 6.0: Children's session.

Thursday, July 7.—10.30 a.m.: Devotional service. Uncle Scrim. 11.15: Mr. Mr. Miscellaneous orchestral programme. 7.0: tional service. Uncle Scrim. 11.15: Mr. After-dinner music. 7.30: "Diet and W. J. Lyon. 2.0 p.m.: Close down. 5.0: Health," by Mrs. D. W. Adamson. 8.0 Dinner music. 6.0: Children's session, to 9.0: Oil Company's programme. 9-11: Wendy. 7.15: Mr. F. R. Field, "The Dance programme by 2ZW's full dance programme by 2ZW's full dance programme.

Talks from 1YA

The World Crisis—Some Long Term Trends

(By Mr. W. T. G. Airey, M.A., Acting Professor of History, Auckland University College.)

THE general theme of the series is the "lag" of social and political consciousness and control behind material development. The present crisis is not so much the aftermath of the war as the result of long-term trends during the 19th century, leading to mal-adjustment of which the war was an

No. 1: Man Conquers Matter (From 1YA, Wednesday, July 6, · 7.30 p.m.)

THE 19th and 20th centuries have been marked by an unprecedented rapidity of development in the material sphere, due to the application of science to the production of wealth. This is visible in industry, transport, communication, and has been accompanied by the growth of a delicate finance system. The result is a shrinkage of the world and the intimate material interdependence of the world's people. Hence we are living in a very changed world to which our political and social thinking has not been adjusted.

Some aspects of this changed world are the migration of people (British Commonwealth) and the migration of capital in the quest for raw materials, markets, and fields for investment e.g., railways, telegraphs. In industrial countries there has been a growth of urban as against rural population involving new conditions of life and problems of government. In other parts the latest developments of this new civilisation have been brought suddenly in contact with (a) old and different civilisations, e.g., China, and (b) primitive civilisation, e.g., tropical Africa and the Pacific Islands.

A discussion of the methods by which his "expansion of Europe" has been carried out and of the problems that have arisen; and of the use man has made of his conquest of matter-e.g., armaments, chemical warfare.

Man in the Making (By Mr. Gilbert Archey, M.A.)

- (1) Three Human Ancestors.
- (2) Three Races of Mankind.
- (3) Three European Races.
- (4) Three Earliest Civilisations.

No. 1: Three Human Ancestors From 1YA, Thursday, June 7, 7.30 p.m.)

THE first lecture will give an account of three stages in the evolution of the human races. The second will describe the development of the three great races of mankind, black, yellow and white-Negro, Mongolian and Caucasian, and their spread over the globe. The migration of early man into Europe, which gave rise to the three different types which now live there will form the subject of the third lecture, and the last will describe the rise of the first three great civilisations-of Europe, Mesopotamia and that recently discovered in the Indus Valley,

Half-hours with the W.E.A.

"The Individual and the Community."

THE following is an outline of a talk to be delivered by Mr. H. C. Becroft, M.A., from 1YA on Thursday. June 30, on "The Individual and the Community." It is the last of a series of four talks on "Psychology To-day."

The relation of the individual to society is the root of every social problem. Individual not related to community as part to whole. This idea is based upon the assumption that the boundaries of the self are fixed. The meaning of the realisation of individuality; wrong conceptions analysed. Two trends within social psycho-

The systematic nature of mind-a crowd not the true type of collective mind. Meaning of the group mind and the general will. The laws, cus-toms and institutions of society; historical retrospect; the situation to-day. Some reflections on social institutions.

Lectures from 4YA Mr. Lloyd Ross, M.A., LL.B.

July 1-The Future of Prices. July 8-The Future of War Debts and Reparations.

Trade.

dustry.

Mr. George McCracken

July 29-Clan Relationships and Industrial Democracy.

August 5-Kipling and the Common Man.

Educational Sessions

2YA Schedule

THE 2YA Educational Sessions for the next four weeks are:--

- Clubs and Societies.
- (2) Mr. Jenner and students-"The Gypsy." (Music below.)
- (3) Mr. Shedden, of Newtown School -Coal-mines (1).

July 15—The Future of International July 26-

July 22-The Future Control of In-

August 12-William Morris and Ideal-

istic Socialism. August 19—Sir Harry Atkinson and Laissey Faire.

- Mr. A. G. Butchers, M.A., M.Ed., LL.B., F.R.H.S.—School

Imperial War Graves

N.Z.'s Representative to Speak from 2ZW

Commission

WAR activities in the Great War did not cease with the cessation of active fighting in 1918. Immediately peace was declared various commissions were set up to attend the work that could be comwhen fighting had menced only ceased.

One such commission set up by the British Empire was an



Commission, Lieutenant A. W. Mildenhall. Lieutenant Mildenhall, served on the Imperial War Graves Commission from November, 1919. For five years he was on the Gallipoli Peninsula, and here he superintended the con-

struction of 31



Lieutenant A. W. Mildenhall.

الماليون والأناء فالعاملان

war cemeteries. He was in charge also of the building of New Zealand's War Memorial at Chunuk Bair.

In 1924 he was transferred to France and Belgium, where he supervised the construction of war cemeteries in those areas that are so well remembered by New Zealand returned soldiers.

Commencing on Saturday evening, July 2, 1932 at approximately 7.30 p.m. Lieutenant Mildenhall will talk over 2ZW (1120 kilocycles). Wellington, giving four talks on that and the three following Saturdays, He will speak of

the work that was done by the Commission of which he has been New Zealand's representative for so Zealand's many years.

Many listeners have a deep personal interest in the war graves, and any correspondence sent to Lieutenant Mildenhall care of "The Radio Re-cord" will be inmediately delivered.

July 19-

- (1) Mr. S. M. Mills, Headmaster Correspondence School-Life in the Cook Islands.
- (2) Mr. Jenner and students-Revision.
- (3) Mr. Shedden-Coal Mines (2).
- (1) Mr. E. M. LePetit, of the Correspondence School sions of London Schools.

NATIONAL SANDON DE STATEMENT DE LA SECONDA DE LA CONTRACTION DEL CONTRACTION DE LA C



PHYLLIS JAMES

Who is contributing soprano solos to 1YA's variety concert arranged for Saturday, July 9.

-S. P. Andrew photo.

SET ON HOUSE THE OFFICE HEALTH STATEMENT STATEMENT OF THE OFFICE SET OF THE OFFICE S

- (2) Mr. Jenner and students-"Barcarolle"—a Lesson in Compound Time. (See music below.)
- (3) Mr. W. J. Mountjoy, Jr., B.A .-The Speaking of Verse.
- (1) Mr. A. P. L. Kennedy, of Thorndon School-Apia.
- (2) Mr. Jenner and students-Re-
- Miss A. R. Paterson, M.A., Lecturer in England, Wellington Teachers' Training College— English Speech.

Incorrect Time Signals

AMERICAN broadcasting stations have received a sharp warning from the Federal Radio Commission not to transmit time signals received by telegraph wire even when announced as originating in the U.S. Naval Observatory in Washington, The Naval Department has informed the commission that "the rebroadcasting of Naval Observatory time signals which are transmitted over a land wire is objectionable because of the inherent time lag in the system which creates an appreciable error in the signal." The Navy authorises stations to transmit the signals if they are intercepted by radio direct.

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(Continued from page 17.)

to use the milliamps, but if you do, you connect one to negative and one to milli-

are in order, and except the use of a lmfd. condenser between the plate of the first audio valve and earth. If you did this you would cut out all signals. If you want to by-pass the jack, by-pass

the B+ to earth.

2. Would a 200 henries audio impedance be high enough to spoil operation?

A.: No, it would be quite satisfac-

Questions and Answers 3. Can you give me details for making coils for the broadcast band?

A.: These have been published many times, and we advise you to look up some of the back issues of the "Radio Record" or the "Radio Guide." A table is given in the 1930 "Guide" which should help you to design your own.

RADIO (Stratford): Your alterations JACKO (Otahuhu): I have built the are in order, and except the use successful in logging the Auckland standard of a logical condensor between the plate tions, but have not yet been able to get any other shortwave stations. There appear to be dead spots on the dial.

> A.: To remove the dead spots, take a few turns off the primary coil, and you will find then that the set will osciliate more readily, and you will be able to get further afield. Failing that,

> > w to Become a Radio Amateur' (A.R.R.L.), 2/-.

"Radio Handbook," by Moyer and Wostrel 37/8 (An unfalling coach for exams.)

"Armature Winding and Motor Repair," by Braymer, 24/-

"Radio Receiving Tubes," by Moyer and

Wostrel, 21/-.

"Radio Construction and Repairing," by Moyer and Wostrel, 21/-.

Loomis's "Radio Theory and Operating" (U.S.A.) 32/6. A good book for any amateur or operator.

Henney's Principles of Radio." 26/6.

Morecroft's new book "Experimental Radio Engineering" (51 experiments).

"Practical Testing Systems," by Rider.

Leutz & Gable's "Short Waves." 19/-, (A wonderful book on subject). "Radio Amateur 'Handbook' (Handy's 9th

Wostrel, 21/-

Electrical Measure

try different valued condensers in the The usual value about .0002.

2. Why can I receive better when my battery is almost discharged rather than when it is in full voltage?

A.: Because your valves work better at a slightly lower potential than their rated value. Incorporate a resistance in the "A+" or "A-" lead and so control the voltage to the valves. You will then get better results.
3. Can I use phones on my big set

without damaging them?

A.: It would be unwise to do so. You

would need an output filter.

R.Z. (New Plymouth): I have been unable to get the "Neutron Four" to function. What is "T" of the regeneraformer? It appears from one diagram and in the text to be the top of the primary coll, and in the other the top of the regeneratormer.

A.: "T." as is shown quite clearly in the regeneraformer diagram, is the top of the tickler coil. If you look more closely into the bottom sketch you will see that "T" is not the top of the primary, but that the dotted lines extend beyond the last line representing the primary coll. On page 18, third column, six lines from the bottom, the "T" position should read the "P" tion. A line has been dropped in the first column, under the second paragraph of page 21 under the heading 'Under Baseboard Wiring." The paragraph should read:-

A connection is taken from this point (the F- terminal of the detector socket and the moving plates of the detector condenser) down through hole number 5, along underneath the baseboard to hole number 6, where it connects with F of the regeneraformer. A connection is made between this point and one lug of the 1 mfd. condenser."

Yes; "N" and "end" are synonymous. Why you cannot get the set to go is a puzzle; we have known several who have constructed and have had great results, e.g., see a letter in this month's "Log." We have built it ourselves and it is giving excellent service. Try to locate your trouble. Put your finger on the grid-leak and see if you get a buzzing in the speaker. If you do not, there is something wrong in the audio system and this should be checked over. Pull the power valve out and see if you get a plop in the speaker. Probably you will. Go back to the first audio, pull this out, and you should hear the contact being made. If the audio system is all right, bring the aerial in to the fixed plates of the detector valve and see if you can pick up anything. This would indicate a fault in the r.f. stage. Therefore the only way is to make a systematic search of your receiver until you find the trouble. The circuit is a really good one, and, apart from the two small inaccuracies which do not seem to have worried many people, no difficulty has metal cabinets provided holes are been found in the construction of the drilled in the cabinet. Heavy-duty

E.L.S. (Bombay): Is it necessary to show one's method in arriving at an answer to questions such as the first on page 29 of the "Radio Times"? For instance, I work by a slightly different method from you, and arrive at the same answer.

A.: Unless the method is specifically asked for, there is no limitation as to which one will be employed. The one used by us is the more usual for two resistances in parallel, or two capacities in series. However, it is exactly the same as the one you use, only we have taken it a step further,

2. How do you arrive at 6 mils from 210 -- X 1,000—evidently the equation --15,000

a printers's error.

A.: Yes: by reading the context it is quite obvious that it should be

35,000 ohms. We think, however, very few would go wrong over this point. It is really quite a small one. Nevertheless we are very sorry it crept in.

3. How often will the Servicemen's Examination be held?

A.: We understand that it is to be held twice yearly.

4. What do you consider to be a good publication for intending servicemen?

A.: There are many publications that will help to obtain a real understanding of service work. One of the best we have come across is Ghirardi's "Radio Servicing Course." Another good book is "Testing Radio Sets," by Rayner. Another, "Servicing the Superheterodyne" by Ryder, and for general understanding of the principles of radio Menney's "Principles of Radio."

J.S.J. (Lower Hutt). I cannot cut out Weilington on my "Neutron Four." It spreads practically all over the place, and I get 2ZW at about 10. 3YA comes in at 19, while the Australians of note cannot be heard while 2YA is on the air. I get the best results in the locals by using aerial No. 1, shifting off the radio frequency valve. I put a .002 condenser in the aerial, but it only made a slight difference. How can I sharpen the selectivity?

A.: Selectivity can usually be improved by increasing the grid bias on the first valve. However, this should not need to be greater than 7.5 Selectivity to a large extent depends upon the aerial and the way the coils are made, and this explains possibly why we were able to eliminate 2YA and bring in the other stations nearby without any difficulty. A .002 mfd. condenser in the aerial is much too large. Try a .0002, or even a .0001 mfd. However, if you cannot get the set to work properly, use a wavetrap between the aerial and the set and cut out 2YA by that. Probably you have some of your old parts, and could quite easily make the trap up without further expenditure.

Prolonging Life of Rectifiers

ALL types of rectifying valves should be operated under conditions that provide good ventilation. Valves of the 80 or 81 variety may be housed in rectifiers, such as the type 866, should not be boxed in a metal cabinet. They should be mounted in breadboard fashion and placed in a safe location where there is free access of air. When their maximum output, it is sometimes necessary to force circulation around the bases by means of an electric fan. With these valves, as with any rectifier valve, the rated filament voltage should be carefully maintained. Running filament at lower than normal specified voltage shortens the life of the valve. All rectifiers of the mercury-vapour type should be given ten or fifteen minutes to heat up before the plate voltage is applied.

N.Z's. OWN RADIO BOOKSHOP-NEW STOCKS BY EVERY OVERSEAS MAIL—IF NOT LISTED BELOW, WRITE US.

"Radio Physics Course," by Ghirardi, 30/-. "How to Become a Radio," by Rider, 15/-. (A.R.R.L.), 2/-. "Servicing Super-Heterodynes," by Rider, "Radio Frequency Electric ments," by Brown, 35/-.

"Mathematics of Radio," by Rider, 15/-.
"Servicing Super-Heterodynes," by Rider, 7/9,
"Practical Radio Repairing Hints," by Rider, 15/-.
"Modern Radio," May and June, 1/9 each. Rider's "Perpetual Trouble Shooter's 'anual, 1931," 40/-.
Rider's "Perpetual Trouble Shooter's Manual, 1932," 65/-. (Published in two big sections—larger than ever—just off press).
"Outlines of Wireless," 10/- (Ralph Stranger's wonderful effort).
"Cinematography and Talkies," by Cameron and Dubray, 28/-.
"Sound Pictures and Trouble Shooter's Manual," by Cameron and Rider, 46/-.
"Sound Pictures: Questi as and Answers," by Cameron, 24/3.
"N.Z. Handbook Annual, 1932," 2/6. (With International Time Converter Supplement).
"Drake's Radio Cyclopedia, 1931," 40/-.

"Drake's Radio Cyclopedia, 1931," 40/-. "Gernsback's "Short-Wave Craft" (a mon-"Radio Amateur 'Handbook' (Handy's 9th edition), 6/6.

"Radio News," Oct., Nov., Dec., Feb., March, April, May, June, 2/- each, "Q.S.T.," Sept., Oct., Nov., Dec., Jan. Feb. March, April, May, June issues, 2/- ea. Scott's Broadcast Time Chart (including log and complete list of world's long and S.W. staions), 7d.

"Wireless: The Modern Magic Carpet," by Ralph Stranger, 5/-, (New stocks just arrived—The "Radio Record" and Mr. Dawson. Philips Lamps, say ho set owner should miss this.)

"Radio Call Book and Technical Review," (formerly Citizens' Call Book Quarterly), 2/-.
"Mathematics for Practical Man." by Howe. Simplicity itself, 10/9.

Radio Telegraphy & Telephony, Duncan and Drew, 57/6. (Just out—ev phase of radio science dealt with.) -every

7fodern Valves." 1/6. "Batteries & Accumulators."
1/6. "How to
Understand Dia-By Ralph

grams, 1/6.

"Service" (monthly digest of Radio maintenance by Rider), 1/6.

"Radio-Craft" (Gernsback), 2/-. (A

"Radio-Craft" (Gernspack), 2/c. (Madio-Craft" (Gernspack), 2/c. (Madio-Craft" (Gernspack), 2/c. (Madio-Engineering, 2/c. (Madio-Engineering, 2/c. (Madio-Engineering, 2/c. (Mathematics, 2/s. (Mathematics,

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OUR LOCAL AGENTS: (Inspect local stocks).

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Napier: Storkey's Bookshop.
Nelson: Keith Walker Baird's Buildings.
New Plymouth: Fyfe's Bookshop.
Palmerston North. Radio Supplies & Service Co. (E. B. Borham), 245 Main St.
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Timaru: J. H., Healey, Bookseller.
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DX Topics

(Continued from page 14.)

and to my astonishment it became the

I constructed a coil-winder and made the coils, which seem to be quite satisfactory, and I did the whole thing in less than a week, so that says a lot for the simple way in which it was laid out in the "Radio Times."

I have fitted the "Neutron Four" into a combination console which I had picked up quite cheaply, and am using a good cone speaker, and now have something worth while. Last night I was listening to a concert relayed from tion, each instrument was so clean and clear.

I have a few bits left over from my old set, so I will be looking out for something to build to use them witha shortwave adaptor would appeal to me.-J.S.J. (Lower Hutt).

N.Z. Short Wave Club Notes

From the Secretary's Pen

MANY readers when writing in com-plain or being lar away from the city; I really envy them, because lately the number or visators I have had has striously hindered club work. Seeing that I charge inquirers a penny stamp for my autograph 1 am going to install a collection box and, with the proceeds, buy presents to soften the wrath of memwho are being neglected.

Owing to the times many cannot join but are with us in spirit. If readers who are unemployed or who are on part-time would like to know a way in which they can obtain membership under a branch scheme they could collect from upward of five names of others in a similar position and write in, when details

be sent.

will be sent.

I have to thank many members and non-members who sent in items of interest, especially with regard to important announcements. I am thus chabled in my daily conference with the president to keep some sort of trace of the everchanging conditions. My one regret is that I have not more time so that I could give more information out. Percould give more information out. Perhaps if I can persuade visitors to be brief I may be able to manage.

Important matters of policy are awaiting the clearance of the present rush The time has arrived to lay down definite lines, and, with that object in view, all the members will be invited to send in

Drop a line to A. B. McDonagh, secretary, New Zealand Short Wave Club.

4 Queen Street, Wellington, and Uncle
Mac will tell you all about it.—Yours featernally.

Radio Advertising

PUBLICITY by microphone has now thorities. In France, Spain, Germany, Hungary. Italy, Irish Free State, and Poland. broadcasting stations are allowed to include a percentage of advertisements in the programmes broadcast; in Great Britain, Denmark, Holland, Sweden and Switzerland, the autherities have decided against this principle.

July "Radio Times

Available this Week

wealth of varied information. There able hints for those who are not are two general articles which should familiar with radio technicalities. have a wide appeal, one dealing with the question which is occupying the attention of most people "in the know" at the present time—that is, dumping and the other dealing with the percentthe Town Hall, which was a revela- age of licenses in England, America, and New Zealand. The first article explains how, in the last two years, the American factories over-produced, and points out the danger of that overproduction to New Zealand. It states some facts that will surprise most people, and in the article are two most interesting charts which set out diagramatically the position that has arisen over the last twelve months.

The second article shows that New Zealand has a long way to go yet before saturation point is reached. The article to a degree is retrospective, and points out how rapid growth has taken place in the number of licenses both at home and abroad. It analyses the possible reasons why England and America have so far advanced in the radio world, and suggests certain lines of development for New Zealand radio.

The "B" station dealt with this month is 3ZC, and together with an account dealing with both technical and entertainment sides of the station's activities, is a splendid photograph of the interior of one of the studios.

On the constructional side there is a complete account of how to build the "Economy Three," a three-valve a.c. receiver comprising tuned r.f., detector, and pentode. The circuit employs ganged condensers.

Other technical articles include Part III of the A.B.C. of the a.c. set, in which a modern superheterodyne set is dealt with and the modern method of obtaining voltage is fully explained. Those who are studying radio, either from an amateur or dealer's point of view, would be well advised to follow these articles carefully, as they bring to light facts that may take a long time to dig out.

Of interest to the technical man, too, will be the full account of several new valves which have been developed in America. The description of these valves contains a summary of their principal characteristics and depicts the valves, which, by the way, are rather different from the usual, pictorially and in circuits. It explains also a new system of amplification.

units helpful. This month is published Part 2 of Ohms Law, in which power

THE July "Radio Times," which will but which has not since been seen, rebe available this week, contains a appears in this issue, with some valu-

In the dealer's section are two official articles from the federation, one dealing with points arising out of the newly-framed radio regulations, the other being the answers to section 1 of the radio serviceman's examination.

Another article in this section deals with the newly-formed New Zealand

DX Notes

Australian Reception

The following table shows the relative strengths of reception of the Australian "B" stations as heard at 10.30 p.m. on June 17. 125.OC (Seacliffe).

4.BH, 2SM, 2CH, 2GB	1.9
2UE, 3HA, 4BC	8
7LA, 2AY	7
2CA, 2HA	6
3KZ, 3BO, 3UZ	5
7HO, 2WL, 2KO, 2UW	4
/m² + + + + + + + + + + + + + + + + + + +	

The above table affords an interesting comparison with the fol-lowing sent in by 1230C (Tim-It was compiled at 10.15 p.m. on June 18.

200, 400, 20H, 28M	16:
SHA. 2HD. 3AW, SUZ.	
3DB, 4BC	
3BO, 2UE, 2UW, 3KZ, 7LA	,
2KY, 2MO, 2WL, 3GL, 2AY	
7HO, 4TO, 4BK, 3BA, 2KO	
4GR, 2CA, 3WR, 5AD, 2GN,	
STR	

5KA 6ML, 5DN 6PR, 5PI

1230C mentions that in his opinion 2HD earns a much higher place on the list than that given it by others, and is, for example, well ahead of 2UE and 2UW.

Radio Institute. The serviceman's corner has bee: extended, and this time is illustrated with sketches which should prove of great interest to radio servicemen. The "Radio Times" offers a prize of 10/6 monthly for the best case sent in by servicemen. and this month's winning one sets a high stand-

THE DX section should fully satisfy members of the club. In addition to There are two articles on electrolytic the very comprehensive district notes. condensers-one explaining how they there is the monthly mail, and two imare made and what they comprise, and portant announcements, one concerning the other explaining how they may be the dx badges, and the other respecting used in transmitters and receivers so the club president. All dxers will be that their filtering properties may be indeed interested in these announce utilised to the maximum.

BLICITY by microphone has now been forbidden by the Belgian auben forbidden by the Be

Generally speaking, it may be said that this month's "Radio Times" derivation is dealt with and a circuit is fully up to the very high standard shown indicating how Ohms Law may which has been set by the past issues. be applied to it so that the values and and judging by the response received power ratings of the resistances may by the others, this one will find a very be worked out.

The "Beginner Corner" which appoonded in the first issue of the "Times," the office, Box 1022, Wellington.

Radio Servicemens' Exam.

Successful Candidates

THE following list of successful candidates has been received from the Registrar of the R.S. Exam. The passes

are subject to confirmation:-

Aldous, Chas. Fellows; Anchor, George Spencer; Anderson, Alfred John.

Barnaby, Neville Stedman; Beasley, Les-lie Chas.; Bedingfield, Douglas Laurence; Beswick, James; Binns, Leonard Frederick; Black, Eric Randolph; Borham, Ernle Beav-en; Bowers, Lindsay Gordon; Buchanan, David William; Bull, Norman Edwin; Bul-lock, Jack,

Cheshire, Arthur Herbert; Collins, Albert Percy Bence; Connor, John Reginald; Crabtree, Ambrey William; Cunningham, Nocl Raymond.

Daniell, Reginald Arthur; Davies, Maxwell Alfred; Demsen, Geoffrey William; Dixon, John Heslop.

Etheridge, Henry George.

Firth, Edward Thomas; Fisk, Claude Proctor; Foord, Richard Batchelor.

Glassey, Robert Burns; Goodman, Samuel Henry; Gosling, Samuel John; Griffiths, William Hart.

Haggitt, William Herbert; Harlow, Frank Ernest; Hoy, Ronald Arthur; Holland, An-thony Wilfred,

Illingworth, Wilfred; Isherwood, John Clifford; Jamieson, John Clifford Esmond; Jones, Benjamin Stanley.

Kenah, Gilbert Parsons; Kingsley, Byrne

Larking, Manrice James Wilton; Larson, Harold Arthur; Lawson, Sefton Charles; Leicester, Raymond William.

Harold Arthur; Lawson, Sefton Charles; Leicester, Raymond William.

McConnell, James Raymond; McDonald, Alfred Hector; McGowan, Edward Vass; McInman, Meredith Charles; McPhee, Edwin Alan; Marriott, Edmund Henry; Mason, Phillip Deane; Megann, Arthur Bromley Cunnington; Michie, Arthur James Hunter; Morrin, Eric Carsley; Morrison, Colin William.

Patterson, Ian James McLean; Piesse, Alfred Reginald; Phillpott, Leicester A'court; Pringle, Ivan James Joseph; Purcell, John William Lionel.

Riggs, Reginald Flemington.
Schrader, Walter Robert; Searle, Henry George; Seccombe, Allen Raymond; Seddon, Paul; Shield?, James Wright; Smith, Wallace Trevor; Smyth, James Andrew; Spackman, Burnard Clarence Walter; Spiers, Murice Edward; Stewart, John Douglas.

Taylor, John Barker; Taylor, Raymond Jack; Todd, Edgar; Todd, Victor Baden; Trenworth, John Henry Leedham; Turner, John Nelson; Turvey, William Alfred.

Undrill, Eric.

Watkin, Raymond Alan; Webb, Alfred Alexander; Webber, William; White, Percival Sydney; Whitehead, Alfred Charles; Whiteley, Arthur James; Whittaker, Johr Moore.

World Radio News

THE world's greatest problem, i.e., what to do with old razor blades, seems to have been solved by Mr. H. Steanson, a Newcastle wireless experimenter, who, according to Press reports, has constructed a one-valve set which incororates sixty-three blades and receives five stations. The blades are used as condenser vanes.

IN Russia, with a view to popularising the broadcast programmes, the Soviet authorities have cancelled to listening tax and owners of rece als are no longer required to declare the ... According to a recent communique, the Soviet Union now controls fifty-five broadcast transmitters broadcast transmitters with personal from 3 to 100 kilowatts. power

Civilization

(Continued from page 1)

the great Mongolian migrations—the migrations of the nomadic Huns and Alans; as a result of their pressure first the Visigoths, then the Vandals, Sueves and Ostrogoths-and finally Attila and the Huns themselves burst through the frontiers and thrust their way into the civilised world. were real barbarians, most of them entirely uncultivated, all of them ignorant and many of them out for nothing but blood and booty—wild beasts and destroyed, to use the words of Milton. These barbarians gradually forced their way into the army and into the administrative services of the R.E. and while they themselves were sufficiently influenced by the customs and institutions of civilisation, to become the ancestors of the modern world, by their numbers and their ignorance and superstition they finally swamped submerged the culture of the ancient But please remember that process took some six hundred years or more to complete. [In fact, full effect only in 9th and 10th C. A.D.I

Nowadays we have no similar dan-There are no barbarians ger to face. left, in the ancient sense of the word, certainly not enough to threaten Western civilisation-and even if there were enough, they would be powerless to threaten it without a thorough under-

standing of its resources.

Thirdly, our civilisation depends enormously on the comforts of applied science. We may flatter ourselves that we have made great intellectual advances since Roman days and the result is that our civilisation is very much more concrete than theirs. Roman civilisation was a legal and political civilisation based on primary production and comparatively simple condi-Ours is in many retions of life. spects a mechanical civilisation, based on discovery and accumulated I see no reason why that knowledge. knowledge should suffer any really serious setback.

For one thing our means of production, primary as well as secondary, are infinitely greater than theirs were, even in proportion to our enormously creased populations. We need fear actual starvation no more than need fear barbarian enemies. That is at any rate true at present when in spite of all our troubles the markets of the world are suffering from a glut

of primary produce.

For another thing the very fact that so many of us, directly or indirectly, depend for our livelihood or our welfare on highly scientific professions, making the continuation of what we may call the civilised point of view inevitable. Again, we have cast off a great deal of the ignorance superstition which swamped the older Education is becoming universal; we can nearly all read and that was very far from being the case in the Roman world. Meagre as the results of education sometimes appear at close quarters, barren and depressing as it may sometimes seem in terms of matriculation examinations and so forth, seen in its proper perspective its influence hard enormous, hard to exaggerate, even to estimate.

Largely as a result of this education of the masses and the rationalism that must slowly grow with it, we are comparatively free from that superstition and that ecclesiastical and monarchical tyranny which is so striking a feature of the Christian era.

ventions of modern civilisation in themselves appear to guarantee its preservation. Remember that the printing press was unknown to the Romans. All their records were written by hand, therefore few in number-it was comparatively easy to lose or destroy them. Ours appear to be imperishable. We have the art of printing, typewriters, duplicators, photography, and so on, so that human knowledge is recorded and docketed and card indexed, to an extent which makes its loss unthink-

Communications, too, by land, sea, air and ether are now so good that knowledge is easily accessible to anyone who takes the trouble to seek it out. In short, I would say that the seeds of civilisation are so widely broadcast that no human agency can ever destroy it.

It is true that our powers of destruction have also increased, but they themselves are the fruit of science and useless without the scientific or civilised

CLARE DILLON

Soprane, who will be heard in solos and duets from 4YA on Sunday, on Sunday, July 10.

THE RESERVE HER RESERVE THE PROPERTY OF THE PR

-Zenith photo.

mind to direct them. The destroyer must himself be civilised, and therefore in a position to bequeath his knowledge to his successors. Surely the war itself has shown how impossible it is to destroy even one nation, much less a world-wide civilisation. Even if the worst came to the worst and Wells's atomic bomb matured, I think this would still remain true. War and poison gas and aeroplanes, revolution and widespread disorder might check our civilisation or modify it, but never; I think, destroy it. In many respects our civilisation has been actually advanced rather than retarded by the war of 1914-18, dearly though we have had to pay for it.

The case of Russia, I think, will illustrate my argument. In 1917 the Government of that country had completely broken down; everything, it appears, was in a state of disorganisation and chaos. Then followed a revolution as bloody and unpleasant as any revolution is likely to be. It was accompanied, moreover, by a series of civil wars. Apart from massacre and physical brutality the Bolsheviks discarded their

Furthermore, the discoveries and in- perty, repudiated their debts, and made a fresh start in life as fraudulent and undischarged bankrupts. No country is likely to experience more devastating troubles.

> But has civilisation gone by board in Russia? No, it appears not. Some even hold Russia up to us as a pattern of progress and enlightenment. think they go a little far, but she is certainly competing with some vigour and success in the markets of the civilised world.

> The fact is that human beings have. and have always had, very much the same ideals and ideas of expediency; we differ in that respect only in comparatively unimportant details from the Greeks and the Romans or even from the most primitive forms of tribal life; and men, although like all animals they are slow to originate, have long memories, and are good at using the instruments that experience has given them and to which they have grown accustomed.

> So it is one feature of our civilisation that we now possess so much accumulated experience of political organisation and political institutions that the maintenance of order or the restoration of it is within limits, comparatively easy and natural to us.

> Actually, then, when people like Mr. Wells say that civilisation is going to collapse, I beg to submit that they are "talking through their hats." They are using words, as we are so prone to do, without really thinking what

Probably by "civilisation" they mean something quite different-their tional credit, the financial system, the institutions to which they are accustomed, even perhaps their private investments. These are serious matters, and it would be idle to deny that the world is faced with many grave dangers and difficulties and problems which seem desperate at the moment. They may make things very unpleasant for a few years, perhaps for a generation, or even two generations, but they will pass. These crises have appeared many times before in history, though their scale has been smaller.

Prices always go up during a war, and production is stimulated. The following period of deflation is always uncomfortable. We are going now through much the same experiences of panic and distress as our great grandfathers went through 100 years ago, after the French Revolution and the Napoleonic wars. Things looked desperate enough in England in 'hungry forties," but they were lowed by years of the greatest prosperity the country has ever known. So may it be again.

Debts have been repudiated before and financial systems have crashed, but the world has still gone on. Apart from Russia, Germany's financial for instance, has been completely ruined once already since the war, but Germany is nevertheless not uncivilised.

Really and truly our problems today are mainly problems of adjustment, and we have sufficient reason and adaptability to overcome them in

commercial honour and their internation our posterity, but they will not be they can be connected in parallel and tional morality. They confiscated property recorded as the end of a civilisation.

I will therefore take the liberty of comparing Mr. H. G. Wells with the jackal in one of Kipling's stories:-

"In August was the jackal born, the rains came in September, now such a dreadful flood as this, said he, I can't

Of course in what I have been saying I am only talking according to the light of reason, and I do not wish to hurt the feelings of any religious sect who believe that the end of the world is at hand; they, like the early Christians, doubtless look forward to a higher state of civilisation-for the faithful, at any rate, after that event.

I understand that in 1912 a meteorite fell, fortunately, in Siberia, large enough to obliterate London and envirous, and for all I know one big enough to destroy humanity may come our way. That would doubtless "knock the stuffing" out of civilisation, but, short of an act of God, and I the word in a narrower sense than the insurance companies, I think we may go to bed happy in the sense that civilisation is quite reasonably safe from destruction; that the Britons will not go back again to woad and coracles; nor the Irish retire permanently, to their bogs, nor the Americans hang the scalps of their enemies at their girdles.

Curbing the Pentode

EMPHASIS has often been laid on the fact that a pentode cannot be regarded as being interchangeable with a triode output valve unless the appropriate circuit alterations are made. The result of an indiscriminate change is almosts always poor quality manifesting itself by a shrill over-emphasis of the higher notes, and, as often as not, there is little apparent increase in sensitivity unless proper precautions are taken.

The problem of matching, which is all important if the full benefits of making a change are to be obtained, has been dealt with from time to time, and the essentials may be repeated for the benefit of those readers who have brought forward specific questions. Briefly, the scheme most usually advocated is to use a tapped output choke, and to join the loudspeaker (in series with a large-feed condenser) between the most suitable tapping of the choke and earth. The tendency toward over-emphasis of high notes is curbed satisfactorily by shunting the choke with a correcting device consisting of a condenser of about 0.01 mfd. in series with a variable resistance of some 25,000 ohms, which gives some latitude for adjustment.

Certain highly specialised pentode valves may need different values of correcting components.

Protecting Valves in Short-Wave Sets

THE new type 30 valves, used in me.

short-wave sets, require a filament
It may be good for us to be scared, battery voltage of 2.2, and this should but on the whole I think we should de- not he exceeded, or the life of the valve plore alarmist and inaccurate state- will be greatly shortened. A d.c. voltments like the one under discussion. In meter should be connected permanently the perspective of history our present across the filament of the valves. One troubles will doubtless be interesting meter may be used for all valves, as served with a single rheostat,

Attack on the Atom

Latest Research Work

THE annual exhibition of the British Institute of Radiology was opened in London on December 3 by Lord Rutherford, who not only gave one of his extraordinarily simple and yet illuminating expositions of the history of atomic physics, but added an announcement of the results of his latest researches.

At the Cavendish Laboratory a coordinated attack has been made on the problem of the structure of the nucleus of the atom. The nature of the nucleus may be deduced from the rays it emits when it disintegrates, but the rays are so complicated that progress has been slow in the study of how they are pro-duced. Lord Rutherford is now fairly certain that the penetrating rays from radium, which resemble X-rays, but surpass them in power of penetration, are due to the vibration of the nuclei of helium atoms within the nucleus of the radium atom. They appear not to be due to the vibrations of the ultimate particles, the protons and the electrons. but to groups of these bound together as in the nucleus of the helium atom, and the mechanism is of the type suggested by the young Russian physicist,

Lord Rutherford recalled his early days in the Cavendish Laboratory after the X-rays had just been discovered in The application of them Germany. made the discovery of radio-activity and of the electron much simpler. Indeed the discovery of the X-rays by Rontgen in 1895 really marks the division between the old physics and the

What is Radiation?

DURING the exhibition, Sir James Jeans, one of England's most noted scientists, delivered a lecture on "What is Radiation?

The chief characteristics of radiation are that it travels and carries energy. According to our idea of familiar things, such as stones and water, energy is carried by them as by particles and waves. When energy is carried by stones or particles it is assumed that they fly through empty space. When the energy is carried by waves just the contrary happens, for one cannot conceive waves as travelling through emptiness.

Newton first tried to explain light by particles, but the explanation broke down. Then the idea of light as waves was developed, and was so successful that in the nineteenth century physicists, except one or two profound ones like Maxwell, were quite certain light was, wave-like, and that a substance existed to transmit it, the ether. But as the knowledge of light became deeper is was found to have unexpected particle-like properties. The particlelike properties were more evident in light of short wavelength, such as Xrays.

By 1905, Einsten had developed a theory which conceived of light as bundles of entities called photons. These have weight, but no electric charge. They can be conceived as a form of a fundamental structural unit of nature which has two alternative forms, the electron and the proton. As a rule protons and electre : move much less quickly than light, because they have to carry charges of electricity about with them. All of the three fun-

it were, of wave and particle characteristics, sometimes showing one property and sometimes another. Photons have very little weight; in fact, the electric light companies have to supply so little to light our houses that they can charge us £17,000,000 an ounce for photons. This expense of photons explains in the last analysis why the transmutation of metals into gold would be uneconomic if we could do it. The cost per ounce would be of that order.

Useful Hints

WHEN reaction seems much too strong and it is inconvenient to take off turns from the reaction winding, and adjustable condenser of about .0002 mfd. placed between the anode and filament of the detector valve to act as a by-pass may be of assistance

FOR very fine adjustments of tuning of reaction it is always an advantage to turn the dial by its outer rim.

AN easy method of removing the layer of scale on a neglected soldering iron is to heat the iron until it

into cold water, when the deposit will flake off.

TERMINALS should never be filed over a panel where variable condensers are mounted, or the dust may get on to the vanes of the variable condensers and cause endless trouble.

The S N) Choral Eight

Will be heard in solos and concerted numbers from 2YA

· On

TUESDAY, JULY 5.

ARGE dials give much finer adjustments than small when held in this way, and it is often advantageous to fit a large "tuning" dial to a reaction condenser which normally has a small dial.

and poor heat from the soldering ment may be injured.

damental units are a combination, as is almost red-hot and plunge it swiftly iron is that you are liable to melt adjoining ebonite, etc., through failure to get a quick joint.

> IF your soldering iron is not properly heated when soldering to terminals on a transformer or similar component, you may melt the connections inside the instrument and find it extremely hard to renew them.

> IF the flux from a newly-soldered joint is wiped while it is hot it comes away cleanly, but if left until cool it becomes sticky, and it is impossible to remove it from the underside of wires, etc.

ONE of the greatest disadvantages of soldering flux left behind around a joint is that dust will settle upon this in time, and so make a conductive path which may destroy the advantages of correct insulation.

ELECTRIC soldering irons are very convenient, but as they are not quite so robust as ordinary ones, should be handled carefully and not banged ()NE disadvantage of dirty surfaces against anything or the heating ele-

20/-



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Philips B443 Pentode

3-Strand Bare Copper 1/9 ea.

99-Volt Super British Bat-teries16/- post free 60-volt Super British Batou-voit super British Batteries ... 19/6 post free 60-volt Standard British Batteries ... 8/3 post free R.C.A. 230v. A.C. Dynamic Speakers in heautiful console cabinet ... £6/6/-

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Short-wave News

EAQ, Change of Schedule.

EAQ, Change of Schedule.

SEVERAL members of the New Zealand Short-wave Club have reported very fine reception from EAQ recently and have noted that their schedule is to be amended on July 1 to 11 a.m. till 12.30 p.m., New Zealand time (one hour earlier than at present). A special programme is to be broadcast on August 25; it is understood to be for New Zealand.

They announce that they will soon

They announce that they will soon be publishing in Spanish a "EAQ Re-view," which will contain a full list of short-wave stations and deal with all matters of interest to short-wave listen-

Reports on reception of EAQ, besides being acknowledged "over the air," are replied to by letter.

KKW, California.

MR. J. CROSDALE (Takaka) reports KKW, Bolinas, California, on 21.62 metres every day from 12.30 p.m. to 4 p.m. They sometimes relay KGU and KGMB, also the N.B.C. programmes. KKW is heard at Takaka at R8-9.

News from Japan.

TWO stations in Japan have been heard recently, one on about 30 metres and the other on about 30.6 metres. The and the other on about 50.5 hetres, the one on the lower wavelength has been broadcasting news in several languages, including English, between 10 p.m. and 11 p.m., at good volume.

Try for These!

MR. A. A. HASSAN (Bay of Plenty) sent the following notes:—
Mukden, Manchuria, 27.4 metres:
Tuesday, Thursday, and Saturday, 3 a.m., 20 minutes

W10XAO (U.S. Airship Akron), 48.5

and 62.5 metres. **YVQ.** Venezuela, 16.35, 25.7 and 32.8

MVQ, Venezuela, 16.55, 25.7 and 52.5 metres.

VRT, Bermuda, 29.8 and 60 metres.

KKP, Hawaii, 18.7 metres, and KKH, Hawaii, 40 metres.

League of Nations (call, Radio Nations): HBQ, 40.3; HBJ, 20.6; HBL, 31.3; HBP, 38.6, till 9.30 a.m.

Canadians: CKS, Calgary, 39.74 metres; VE9CL, Winnipeg, 48.8 metres; VE9CS, Vancouver, 49.93 metres; VE9GW, Bowman, 25 and 49.96 metres. (The 25-metre station is often heard between 3.30 p.m. and 4 p.m., also antween 3.30 p.m. and 4 p.m., also another Canadian at the same time on 45 metres.) VE9DR, Drummondville, 4 k.w., relays CFCF, Montreal, on 49.96 or 49.43 metres.

Schmeling v. Sharkey.

AN interesting sporting event broadcast on short waves on Wednesday by several of the American stations. The writer was ready to listen to W2XAF, as this station announced the fight earlier in the week.

Reception was gushy from W2XAF, so W2XAD was tried, which proved to be the best American on the air. As both these stations turned their micro-

both these stations turned their micro-phones over to a German announcer at 1.30 p.m. for the fight description, another station had to be found. WSXK, on 25.25 metres, was fair, volume about RS-9, with a noisy background, but I was able to get most of the description. The verdict came as a surprise to me after hearing nearly all of the fight described.

All Blacks v. New South Wales.

VK2ME was not at its best on Saturday for the broadcast of the first match of the All Blacks in Sydney. Reception during the first half of the game was quite good, but later, fading was very severe for long periods, the description being missel several times. An improvement near the finish allowed us to hear the details of the closing moments of the exciting game.

Log for Week Ending June 26

Continents (including America) were again heard during the week; in fact, they were all heard on one day-Monday.

Special Transmission from YV11BMO

MR. PAGE TAYLOR, Detroit, U.S.A., has made arrangements with short-wave station YV11BMO, "La Voz del Lago," Spartado 112, Maracaibo, Venezuela, working on 48.95 metres, to broadcast a special programme for reception in New Zealand.

The time to listen is from 4.30 p.m. till 6.30 p.m. on either July 2 or 3. As this special trans-mission commences at midnight (Venezuela time) there is some doubt which day is meant. However, if listeners fail to find the station on the 2nd, try again on the 3rd.

Mr. Taylor says: "They may announce in English at this time, but if they don't it is easy to understand "La Voz del Lago" in Spanish which they repeat after every second selection. The and every second selection. The call letters sound like "Egree Vay uno y diez bay emmay oh."
A very nice verification, similar to NRH, is sent to all who report this station.

12RO, Rome, 80 metres: Wednesday and Saturday morning. Wednesday was quite good, being R7 at 6.45 a.m. to R5 by 8 a.m. Signals on Saturday were very weak.

RV15, Siberia, 70.1 metres: As usual

every evening, average RS-9.

HVJ. Vatican City, 50.26 metres: Only up early enough on Wednesday, when they were R8-9 till 6.45 a.m.

RV59, Moscow, 50 metres: Received quite well each morning. During the English session on Monday reports were asked for, with the statement "We answer every letter." During the

W9XF, Chicago, 49.83 metres: This station has "come back" with its old-On Tuesday they time volume. on till 5.30 p.m., but were a little lower in wavelength than before.

ZL2ZX. Wellington, 49.5 metres: Volume and quality good each evening they

are transmitting.

W3XAL, Boundbrook, 49.18 metres: Sunday only now, R9 till 4.30 p.m., with medium static.
W3XK, Pittsburgh, 48.86 metres: Tuesday till 4 p.m. at R8-9. Very jerky with bad static

REN, Moscow, 45.38 metres: Wednesday, 6.45 a.m., excellent at R9. Saturday, a little weaker, with slight static at

day, a little weaker, with sught static at the same time.

Radio Maroc, Rabat, 32,26 metres:
Monday, 7,50 a.m., R8-9, with rapid fade;
8,30 a.m., less volume, but more steady.
PRPA, Rio de Janeiro, 31.58 metres:
Sunday and Monday from 10,30 a.m.,
with a programme from the studios of
Radio de la Brazil. Volume about R8-9.
Local QRM spoilt reception.

OXV. Demark, 31.51 metres: Heard

OXY, Denmark, 31.51 metres: Heard several mornings, but very weak.

W2XAF, Schenectady, 31.48 metres: Audible from about 11 a.m. till signing off at 3.30 p.m. Readability is usually good soon after midday. An organ recital by Jesse Crawford was well received on Manday till 2.30 n.m.

cital by Jesse Crawford was well received on Monday till 3.30 p.m.

Zeesen, Germany, 31.38 metres.—
Heard each day except Wednesday. Volume is best about 8 a.m.-8.30 a.m., usually about R9 at this time.

WIXAZ, Springfield, 31.35 metres.—
Reaches R9 by 3 p.m. as a rule, quite a good reliable station now. An organ recital from the Metropolitan Theatre, Boston, till 3.30 p.m. on Monday was very enjoyable.

cital from the Metropolitan Theatre, Boston, till 3.30 p.m. on Monday was very enjoyable.

VK2ME, Sydney, 31.28 metres.—Sunday, 5.30 to 7.30 p.m., R9 with long, slow fades. Saturday, relaying football match, R9 at first with slight fading, later R7 with severe fading.

? Japan, 30.6 metres (about).—10.30 p.m. on Monday, at R9, with some very fine music, mostly violin and piano. Still going strong at 11 p.m. when I closed down. On Ariday, at the same time, volume was R8-9, but all talk this time EAQ, Madrid, 30.4 metres.—Still received well—R8-9, from 12.30 p.m.

? Japan, 30 metres (about).—Thursday, from 10.30 p.m. till 11 p.m., Japanese music, one item without a break during this period. Talk followed after 11 p.m. in Japanese. A friend informed me that news in English was broadcast prior to 10.30 p.m.

Radio, Colonial, Paris, 25.6 metres.—Still very good each morning till 10.30 a.m.

G5SW, Chelmsford, 25.53 metres.—

G5SW, Chelmsford, 25.53 metres.—Quite good now after 8 a.m., cometimes gushy, but better than for some months.

gusny, but better than for some months.

12RO, Rome, 25.4 metres.—Each morning except Wednesday and Saturday, when they were on 80 metres. Volume R8-9 at

best.

W8XK, Pittsburg, 25.25 metres.—
Early Sunday afternoon, R8-9, with a political talk. Wednesday, the fight was heard from this station at about R8-9.

W2XAD, Schenectady, 19.56 metres.—
Tuesday and Thursday mornings, R3 between 8 a.m. and 10 a.m. Wednesday R8-9, very clear and steady from 12.30 p.m. till after the fight (Schmeling and Sharkey). p.m. till Sharkey).

Revised Schedules

mence on July 1 were announced on Sunday, June 26, from these two

stations:—
EAQ, Madrid, Spain (30.4 metres), will operate from 11.30 p.m. to 1 a.m., station time, or from 10 a.m. until 11.30 a.m., New Zealand time, Moscow (50 metres) will commence their English session one

will commence their English session one hour later than usual, 12 p.m. to 1 a.m., station time, or from 8.30 a.m. until 9.30 a.m., New Zealand time.

KKW, California, was heard from 1 p.m. until 2.55 p.m. on approximately 22.5 metres at R7-8 for the first time relaying portions of N.B.C. programmes, and laten working dupler telephony with and later working duplex telephony with KGU, Honolulu, received during weekend.—J. V. McMinn, NZ16W (Welling-

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McCABES RADIOS. Newton, Auckland.



hear a lecturette! I tuned in to 1YA and other cosmetics are quite unnecesrecently, as I had seen advertised a talk on "Cirrus" by Mr. Hayward Wright from this station. As I have visited one or two citrus estates in different countries I was anxious to know what New Zealand was doing in the matter. Not a word could I hear from this station, but on making inquiries I learned from another source that this country is working up the lemon industry, and should therefore get as much encouragement as possible. (This fruit is such an essential product and should be used extensively in every home, as well as for its medicinal qualities, as for the hundred and one other purposes to which it can be put; and if every housewife would purchase lemons grown in this country another step would be advanced on the way to pros-

IT may interest readers to know that Messina is the centre of the lemon There are someindustry in Sicily. thing like seven thousand million lemons produced annually in Sicily, the greater part being picked between December and April. The summer crop, of which I had a view a few years ago, is gathered from May to August. Lemons grow from grafts on bitter orange stocks, which are used because they resist root diseases and are much better than lemon stocks. The fruit has to be passed by Government inspectors before it is exported. The lemons are picked in dry weather as they ripen, and are transported in gaily-coloured and decorated carts drawn by horses in richly ornamented The picking and transport of whole lemons, however, is not the only industry in that country. Visitors to Messina should look in at a factory there which is owned by an English firm and run by an English manager. They would see much to interest them.

THE most valuable part of a lemon is the essential oil contained in the rind, which is used for flavouring A thousand lemons yield ten gallons of juice and one pound of essential oil. The oil is extracted by rubbing the rinds in a specially constructed machine. The oil flows structed machine. The on more structed machine into a separator, which extracts all the fibre and yields the pure essential oil. The lemons then pass by conveyor to the squeezing machinery, where two squads of girls operate. The juice flows down girls operate. conduits to the reception tank. The half lemons, denuded of pulp, pips and juice, are not wasted, but are carefully packed in large barrels and sold for cattle fodder.

THE girls in the factory work from a moment. 7 a.m. to 7 p.m., and although the standard of living in Southern Italy is very low, the girls look happy and contented, and physically they are a fine lot. They are mostly peasants from

when one wishes particularly to natural complexions. Powder, lipstick, sary and never used. This no doubt is partly due to the olive oil lunches and partly to the number of lemons they Among the fruit is a small seedless lemon with a soft skin unsuitable for packing. These little lemons are called "bastardi," and are the perquisite of the factory girls. Each girl eat's four or five of these daily, winter and summer, and they are said to have a beneficial effect on the complexion.

> MISS FLORA CORMACK, in her recent talks on "Hollywood Affairs," the film stars. Regular cinema frequenters, I am sure, listen with delight to these talks of hers. It was rather a coincidence that while I was writing on the subject of the lemon industry, ing one's avoirdupois. Miss Cormack our British films. Australia, too, is

STATIC and fading! Most annoying have particularly beautiful skins and said: "Remember to use lemons in every coming on with regard to the making possible way if you wish to be slim. Squeeze the juice of a lemon in a tumbler of hot water and take the first thing in the morning. This drink taken every day is one of the best reducers, and also clears the system. Also use lemon juice instead of vinegar in your salad dressing." This is one of the means by which Joan Crawford keeps her slim figure. Several girls of my acquaintance are ambitious to become film actresses, and should they enter for that profession they must make up their minds to years of solid grind. Mediocrity is debarred, and to become a successful actress one must possess gave us interesting facts concerning a very strong personality, charm, readisome of the best and most beautiful of ness for hard work, and much patience and perseverance.

I AM glad to see that there is a British Films Week. All other British industries have had their special pub-Miss Cormack was telling over the air licity, so it was time something of the the beneficial effects of lemons in reduc- kind was done for the furtherance of

of pictures. There are some fine pictures now in process of being made at Efftee, Melbourne, one of which is the "Sentimental Bloke."

FEW people are aware that the bankers in control of Hollywood business affairs have made drastic economies, and yet it does not pay. An outsider ventures to tell them why. He says: "Hollywood has nearly all the things required to make successful films-first rate actors, lovely women, brilliant writers and directors. technical resources that can work The one thing it lacks is miracles. ideas." Even when you have found the next best thing to a universal success you cannot assume that the formula will work again. The mixtureas-before may be a sound recipe for pickles; in entertainment it ultimately spells ruin.

IN listening to broadcasting the average person must in the past few years have acquired a more extensive vocabulary and a greater enjoyment of words. Many words we meet with in books are never added to our vocabulary, and we may read them for years without being able to pronounce them. Since broadcasting began thousands of new words must have come into circulation generally and the discussion of the accent and pronunciation of those who stand before the microphone must have created a greater interest in our language than was ever known before. a

ANOTHER series of lecturettes from 2YA was begun on Thursday evening, the 23rd, by Mr. W. S. Wauchop on "Modern British Drama." The dawn of modern drama was the subject for his first talk, and he spoke chiefly of the works of Henry Arthur Jones and Sir Arthur Pinero, both of whom have done so much to raise the standard of dramatic art during the past forty years. Mr. Wauchop has a very pleasant and clear delivery, and his reading of some of the passages in the plays discussed made an agreeable change from the ordinary lecturette. Those who are fond of the drama will, I am sure, listen with appreciation to these talks.

N the fashion talk from 2YA this week, Miss Madge Thomas, the lady from Kirkcaldie and Stains, Ltd., gave some excellent hints on how to wear the hats of the moment. To buy a new hat is one of the joys of a woman's life, but being so long accustomed to wearing the cloche and pull-on variety, it is difficult to adjust ourselves to the present fashion of showing so much of our hair, which Miss Thomas asserts should be beautifully coiffured. In windy Wellington, many will agree with me that it is next to impossible to keep the hair as smooth and neat as fashion decrees when wearing the new èhaneauy.

Hints for the Housewife

rasire to clean a frying-pan, as afterbest thing is to boil up a little water and soda in it when very dirty; if only a little greasy, use soft kitchen paper, and rub the bottom with a little salt. This does not scrape the metal in the same way as ordinary abrasives.

ORANGE juice is so much a part of every child's diet nowadays that most mothers will be glad to know of a way sufficient for several weeks' supply can be made when oranges are cheap, and then put aside.

Squeeze the oranges into a pan. strain them through a coarse and then through a fine sieve. Measure the juice. and to every pint add 11b of loaf sugar. Let it stand all night, covered over, then remove the seum, stir well, and put in dry pint bottles, putting a little oil in before corking and tying down with small pieces of kid or leather. Kept in a dry place it will be good for many months. The oil should be taken off with a piece of cotton-wool before using the juice.

Irons which have become rough or rusty will work smoothly if treated in this way. Wrap a small piece of soap in a rag and rub over the warm iron. Then iron over a thin layer of salt for

Do not discard an old comb merely because some of the teeth have become broken. Instead, keep it handy somewhere in the kitchen and use it on the have been added. Rinse well before the surrounding countryside, and all tresses of the brooms and brushes be- using.

It is a great mistake to use an ab- fore they are put away: it will serve excellently for the removal of hairs, ward food is inclined to stick. The fluff and pieces of cotton which are apt to collect on the bristles, and the brooms will always be ready for a clean sweep when required.

If you have been for a long walk and your fect are tired, try the following foot bath. To two quarts of cold water add two tablespoonfuls of strong ammonia, and a tablespoonful of ordinary bay rum. Keep the feet immersed method of bottling it to keep. In this in this bath for a short time, and you will feel ever so much refreshed.

> Glass that has been mended and will not stand ordinary washing should be cleaned with methylated spirits or petrol. Use a very soft rag or a piece of cotton-wool.

Ovens in gas stoves should be scrubbed out after every roasting. This will prevent grease from collecting, and so save time in the long run. Use very hot water and soda, and turn on the gas for a few moments afterward to dry the oven quickly.

The water in which opions have been boiled is excellent for cleaning whitepainted woodwork. When the cleaning is finished, polish the woodwork with a dry duster.

Aluminium coffee pots should be kept bright on the inside to ensure that the coffee is good. Every few days the coffee pot should be given a thorough hoiling in water to which soap flakes

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