A NEW short-wave station is reported to be located at San Lazaro, a suburb of Mexico City. Call, XC51, wavelength, 44 metres. Mexican news is broadcast at 9 a.m. and 9 p.m. daily.

The "Wireless World" writes: "The Nairobi broadcasting station now transmits on 35 and 400 metres, and it is hoped that programmes on the former wavelength will be audible throughout the world. The times of transmission are 4 p.m. to 7 p.m. G.M.T. daily, Sundays included. The Nairobi station, which uses the call sign 7LO, was opened in June last, and has since made a name for itself among DX enthusiasts."

This station, apparently, is experimenting with various wavelengths, as the shortwave used now is nearly 33 metres, while they worked on 90 metres when they first started operating about five months ago.

5SW, Chelmsford, are changing their wavelength of 24 metres to 25.53 metres (11,750 kilocycles) as from December 3. Reports will be appreciated comparing reception on the new wavelength with that of 24 metres.

This information was gathered from a chat between 5SW and 2XAD one morning during the week. Something was said about 2XAD also changing its wavelength, but I did not hear anything definite.

ANE, Java, was heard giving 2ME the following particulars:-

PCLL is now working on 38.8 and 18.4 metres.

ANE broadcasts on 15.93 metres on Wednesdays from 12.30 till 13.30 G.M.T.

Round the World on Short Wave

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

(12.30 a.m. till 1.30 a.m. Thursday, N.Z. summer time).

Saturday, November 24.

58W at 7.30 a.m., with a talk was R4-5, rapid fading, 2XAD was heard at about R2 for a short time about 3 p.m. Later on they could not be picked up. KDKA were very weak at 3 p.m., about R3, increasing to R7 by 4 p.m. Up to this time the music was supplied by the National Broadcasting Co., and Concert Bureaux. From 4 p.m. till signing off at 4.35 p.m., dance music was heard from the William Penn Hotel. Volume decreased slightly towards 4.20 p.m.

PCJJ commenced at 4 p.m. at R2-3, slowly gaining in strength till 7 p.m., when volume was R8-9. The usual selection of good records was heard, When signing off at 7.5 p.m. reports were asked for.

A Jap. at 7 p.m., on about 28.5 metres, was talking quite a lot. Strength,

3LO, Melbourne, were transmitting on dual wave-length from about 7.50 p.m. The short-wave used was 32 metres. Reception was excellent.

RFM, with talk and music, was R9. Static very bad.

Sunday, November 25.

ter and noting that IMI, Milan, day morning, I decided to get up earl- R9. ier than usual to see what was doing. My luck was out as far as IMI was instance they were too weak to hear a 32 metres. call. The following are the approximate wave-lengths; perhaps some reader can oblige with the calls:-

About 45.5 metres, music, R2.

get call.

About 36 metres. Talk only, R2-3. About 21 metres, describing football match, very strong ripple, spoiling intelligibility.

The above were heard between 6 a.m. and 7 a.m.

7LO, Nairobi, although free from the son. usual morse interference, was too had gone-not even a carrier. weak to be readable—about R2-3...

giving a description of a football ANE, Java (R7). match between Yale and Harvard. Java was speaking quite good Eng-2XAF was the clearest and strongest. lish, 100 per cent. readable. At 7.30 a.m. they were R5, which is Wanganui, 2BO, Wellington, and 2GO, quite good for early morning reception. Wellington, were testing. The station on 21 metres may have been describing the same match, but could not be certain.

2XAF and KDKA were too weak be- Morse. fore 4 p.m. to bother with.

De Witzler Hotel, Albany, New York, African station is weak. was heard at about R5 through 2XAF from 4 p.m.

sent out messages to the Byrd Expedition. Strength about R4, rapid fading spoiling readability.

3LO, Melbourne, was tuned-in on 32 metres at 7.50 p.m., when they announced that they had just concluded a test.

RFM was very good during the evening.

Monday, November 26.

7LO, Nairobi: Carrier only audible. 3LO. Melbourne: Their regular veekly transmission from 7 a.m. came in splendid at R9. 3LO from 8 p.m. on dual wave-length, transmitted their regular evening programme.

RFM was R9. Static fair.

Tuesday, November 27.

From 5.45 a.m. till 6 a.m. 5SW (R8) and 2XAD (R5) were carrying on duplex telephony. Changes of wavelength mentioned earlier in these notes were discussed between the speakers at these stations. 7LO, Nairobi, was R5, but jammed by Morse most of the time.

ANE, Java, on duplex telephony, were about R3. 5SW at just before 7 a.m., after asking for reports on reception of the station on the new wavelength (25.53 metres) to operate from December 3, announced that "We are now going over to London for the evening programme." Big Ben was heard, followed by "London calling."

The announcements direct from 5SW were perfectly clear and 100 per cent. mission systems. A few thousand watts readable at R7, but directly they go concentrated in a short-wave beam "over to London" it is impossible to could be expected to ionise the air in A FTER reading Mr. Morrison's let- understand what is said except for an the path, changing it from an insulator odd word or two at times. RFM to a fair electrical conductor. Two was heard in the early hours of Sun-during the evening was very good at such beams, along parallel paths, would but instead of the usual 32 metres for ductors, literally "hanging in thin air," short-wave transmission, they were which could be aimed at any desired concerned, but I heard several sta- found on about 75 metres. Reception point. If the two reflectors were contions which to me were new. In each on this wavelength was as good as on nected to the high voltage terminals of

Wednesday, November 28.

creasing later. Morse and static as out the aid of any further radio appa-About 39.5 metres, orchestra R3. usual spoilt reception. From PCLL on ratus. The power received would not Heard "Hullo, hullo," but could not 38.8 metres at R8 a man and woman necessarily have any relation to the were having a long talk, duplex tele- power of the radio transmitter. phony I expect, but could not locate the other station. From 6 a.m. PCJJ were transmitting music. R8, decreasing to R4 by 7.30 a.m. Big Ben from 5SW at 7 a.m. was about A talk followed by Miss Jack-At 7.30 a.m. all sign of 5SW 3LO, on 75 metres, was again heard during 2XAF, 2XAD, and KDKA were each the evening. 2ME, at R9. was calling The speaker at

Thursday, November 29.

6 a.m., 7LO, Nairobi, R2-3, clear of It is strange, but when the Morse station that works on top of Dance music from the crystal room, 7LO is silent-which is seldom-the If the development becomes practical

R7, were transmitting gramophone re-KDKA, after a musical programme, cords. Except for a slight fade, reception was perfect.

Music was heard at R4. poor.

Friday, November 30.

short time.

Strength only R5 to commence, and decreased to R2-3 at 7.30 a.m. was very unsteady at 7 a.m. Strength / R4-5. RFM, at R9, was very good during the evening.

Another New Ray

IN an age of unbelievable developments we have arrived at one of the most unexpected of them all. First radio transmission of voice and later television have startled our credulity at their introduction, but now comes the announcement of a phenomenon surpassing either of them-power by radio. In the transmission of a picture from point to point the picture as such does not move through space, but in the transmission of power the electrical energy will be actually transmitted through space, independent of the strength of the radio transmitter.

Apparently Simple.

Mr. Phillips Thomas, Ph.D., research engineer of the Westinghouse Electric and Manufacturing Company of America, in a recent lecture predicted the transmission of power by use of very short-wave radio transmitters. Very short radio waves, of the order of 10 centimetres, may be reflected and focused in a parallel beam in the same manner as light and with comparatively simple apparatus.

This type of reflector has been employed on a large scale by Signor Marconi in his well-known beam trans-3LO again on dual wavelength, constitute a pair of weightless cona transformer and the beams focused on two metal targets connected to a similar transformer for reducing the 7LO, Nairobi, R2 at 5.30 a.m., in- voltage, power could be received with-

Another "Death Ray"?

Rumours of a "death ray" capable of creating havoc in time of war recently created much consternation in the minds of the people. Perhaps their fears may now be realised, for it would be as fatal to life to come into the path of rays energised by the high voltage as it would be to pick up a high-tension wire. Its onslaught on an army would be noiseless, and—at least in daytime invisible.

Apparatus for producing the 10-centimetre radio transmission is not available, but it is now in the process of design and construction and will soon be tested experimentally.

One cannot conceive of any location so remote or inaccessible that it could not be furnished with power by radio. for commercial use we may look for the PCLL, Kootwijk, 38.8 metres, at universal dissemination of electrical energy.

Printed and published for the New Y 58W, at about 7.20 a.m., was very Zealand Radio Publishing Company at the registered office. Wakefield Street, Wellington of the Wellington Publishing Company, by Archibald 7LO, R3, music clear of Morse for Sando, of 47 Freyberg Street, Lyall PCJJ from 6 a.m. Bay, FRIDAY, DECEMBER 7, 1928.



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