

AROUND AND BEHIND THE DIALS

OFFICIAL LIST OF CUBAN SHORTWAVE STATIONS

THE following list of Cuban short-wave stations was sent in by Ricardo F. Rubio (DX1920.), Cuban representative of the N.Z. DX Club.

Times are given in E.S.T., which is 17 hours behind N.Z. summer time. The list is correct as at October 13, 1938.

COCO relays CMCK. No slogan. Owners: Luis Casas e Hijos, San Miguel 86 or P.O. Box 98, Habana, Cuba. 2500 watts; 6010 kc. (49.92 m.). Schedule: 7.55 a.m. to 11.30 p.m. daily.

COCQ relays CMQ. Slogan, "de la crema dental Colgate y el Jabon embellecedor Palmolive." Owners: Cambo and Gabriel, Monte No. 17 esq. a Prado, Habana, Cuba. 5000 watts; 9740 kc. (30.76m.). Schedule: 6.55 a.m. to 1 a.m. daily.

COBZ relays CMBZ. Slogan, "Radio Salas." Owners: Manuel y Guillermo Salas, San Rafael 14 altos or Box 866, Habana, Cuba. 250 watts; 9030 kc. (33.32m.). Schedule: 7.45 a.m. to 1 a.m. daily.

COBC relays CMBC. Slogan, "del Progreso Cubano y los Almacenes de Trajes El Gallo." Owner: Domingo Fernandez, Monte, No. 139 altos or Bo 132, Habana, Cuba. 1500 watts; 9963 kc. (30.12m.). Schedule: 6.55 a.m. to 12.15 a.m. weekdays; Sundays, 6.55 a.m. to 11.0 p.m.

COCW relays CMW. Slogan, "La voz del Radio Philco." Owners: Gil and Troncoso, Prado 105 altos or Box 130, Habana, Cuba. 2500 watts; 6330 kc. (47.6m.). Schedule: 6.55 a.m. to midnight weekdays; Sundays, up to 10.0 p.m.

COCM relays CMC. Slogan, "Transradio Columbia." Owners: Transradio Columbia, S.A. Calle, 23, No. 1216 or Box 33, Habana, Cuba. 1000 watts; 9838 kc. (30.52 m.). Schedule: 8.0 a.m. to midnight daily; Sundays, up to 11.0 p.m.

COBX relays CMBX. Slogan, "de los talleres de Radio Alvarez." Owner: Alberto Alvarez, San Miguel 194, Habana, Cuba. 500 watts; 9200 kc. (32.59m.). Schedule: 8.0 a.m. to 11.30 p.m. daily.

COCA relays CMCA. No slogan. Owners: Testar and Gonzalez, Galiano 102, Habana, Cuba. 100 watts; 100 kc. (32.97m.). Schedule: 8.0 a.m. to midnight.

COCD relays CMCD. Slogan, "La voz del Aire." Owners: La voz del Aire, S.A., 25 y G, Vedado, or Box 2294, Habana, Cuba. 250 watts; 6130 kc. (48.94m.). Schedule: 10.0 a.m. to 11.30 p.m., weekdays; Sundays, up to 9.0 p.m.

COCH relays CMCF. Slogan, "de la General Electric." Owners: General Broadcasting Co., Prado 9 altos, or Box 41, Habana, Cuba. 5000 watts; 9437 kc. (31.8m.). Schedule: 8.0 a.m. to midnight, daily.

COCX relays CMX. No slogan. Owners: Casa Lavin, Ave. Simon Bolivar 76 altos, or Box 32, Habana, Cuba. 2000 watts; 11,740 kc. (26.55m.). Schedule: 8.0 a.m. to 10.0 a.m. daily.

COGF relays CMGF. Slogan, "Ecos del Valle del Yumuri." Owner: Bernabe de la Torre, General Betancourt 51, La Playa, Matanzas, Cuba. 250 watts; 11,800 kc. (25.43m.). Schedule: 3.0 a.m. to 10.0 p.m., weekdays; Sundays, 9.0 to 10.0 p.m.

COHB relays CMHB. No slogan. Owners: Weiss and Ramirez, Serafin Sanchez 3, or Box 85, Sancti Spiritus, Sta. Clara, Cuba. 2000 watts; 6280 kc. (47.77m.). Schedule: 9.0 to 10.0 a.m., 12.30 to 1.30, 4.0 to 7.0 and 9.0 to 11.0 p.m. daily.

COJK relays CMJK. Slogan, "Radio Zenith." Owner: Frank H. Jones, Finlay 3 altos, Camaguey, Cuba. 1000 watts; 8665 kc. (34.60

m.). Schedule: 10.30 a.m. to 12.30 p.m., and 7.0 to 11.0 p.m., daily.

COKG relays CMKG. Slogan, "Emisoras Gran." Owners: Grau Brothers, Sagarra Alta 26, or Box 137, Santiago de Cuba, Oriente, Cuba. 2400 watts; 8935 kc. (33.31 m.). Schedule: 8.0 a.m. to midnight, daily.

Rivet Heated "White Hot" by Radio Waves

RADIO waves were put to a new and novel use recently when, as the erection of steel on the Radio Corporation of America's exhibit building at the New York World Fair, 1939, was completed, the last rivet to go into place was heated by radio.

The demonstration was held at RCA's building site on the World Fair grounds in the presence of World Fair executives and newspaper men. Robert Shannon, vice-president and general manager of the RCA Manufacturing Company, Camden, N.J., held the rivet suspended in a concentrated field of radio waves and, in little more than a minute, it was white hot. The rivet was driven into place by H. C. Bonfig, commercial vice-president of RCA Victor.

"While this demonstration may not be looked upon now as a practical application for the construction industry," Mr. Shannon said, "at the same time it is indicative of the many potential uses of radio and electronics."

The oscillator unit of a regular radio transmitter was set up on the framework of the building for the demonstration. Usually, the output of an oscillator is directed into an antenna, but in this case it

was directed into a coil of wire. The result was that instead of being broadcast over a wide area the radio waves were concentrated in a field at the centre of the coil. The intense heat thus generated made it possible to cause a metal object to become white-hot by simply suspending the object in the field of concentrated radio waves.

The contractors started the work of erecting the walls and interior of the exhibit building immediately after the demonstration. As previously announced, the building has been designed to take the form of a radio tube affixed to a base and the whole lying on its side, the bottom of the base being the front of the building. The front will extend the entire length of a 200-foot frontage on the Avenue of Patriots. Present plans also call for a small yacht basin on one corner of the building lot and a 250-foot antenna tower on one side. A sizable yacht completely equipped with modern radio marine devices will be floated in the basin. Special antennae for television and facsimile transmissions will be strung on the radio tower.

treatments in practice. The two reverberation rooms are lined with tiles. This is not a new method of changing the reverberation period rapidly, but of obtaining as long a reverberation period for the room as is possible so that comparatively large samples of material can be measured.

THE curse of summer reception in India is not so much atmospheric as the interference caused by electric fans. According to the Civil and Military Gazette of Lahore, the best way to counteract this would be to relay through the local transmitter the Empire programmes from the receiving station at Delhi. The journal contends that, although this elaborate receiving plant cost a lot of money, it is rarely used.

RIVALRY between the Geneva and Lausanne studios for the services of the Sottens radio orchestra has now been ended by the decision to contract the famous Orchestre Romand, conducted by Ansermet, for broadcasting and to station it at Geneva. It is pointed out that Lausanne's big studio will probably fall into disuse.

DURING 1937 the Italian broadcasting organisation, E.I.A.R., provided 128 programmes for foreign countries, and itself received 79 programmes from abroad. A large percentage of the former were undoubtedly operas.

ALL historical recordings will be preserved in a "Phonothèque Nationale" which was recently instituted by the President of the French Republic.

THE use of wireless sets in schools in Czechoslovakia is limited to strictly educational broadcasts. It is forbidden to use the receivers for political purposes, and listening to any foreign programme is prohibited.

THE Paris correspondent of "The Times" states that M. Maxime Baze, a Frenchman, is reported to be at work on a PA system designed to produce most of the sounds of battle. The apparatus could be set up in a field, and timid troops might be frightened into immobility by nothing more lethal than a series of gramophone records played behind the enemy's lines.

From The Mailbag:

THE BBC Acoustic Section at Nightingale Square, Balham, under Mr. John McLaren, is making a close study of resonant absorption of sound. There are two reverberation rooms of different sizes and two experimental studios also of different sizes. The reverberation rooms are used for carrying out routine measurements on the sound-absorbing properties of various materials and for laboratory types of measurements, and the test studios are erected to try out various types of acoustical

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