



By R. M. SHERRILL
(Radio Engineer)

The progress which is being made with short wave radio transmission is astounding and promises to be little short of revolutionary.

Station KDKA, for example, has been transmitting its programs regularly on a wave length in the vicinity of 50 meters. The power used at this wave is very small compared with that used on the conventional wave lengths. And yet, the shorter wave is consistently reaching greater distances. The short wave of this station is frequently picked up in England and the program re-broadcasted for local listeners. It has been received at distances up to 10,000 miles.

Amateur operators have been obtaining remarkable results on a 20 meter wave length. With this wave and exceedingly low power, they have frequently communicated from coast to coast in DAYLIGHT.

What effect is the performance of these shorter waves going to have on the broadcasting of the future? It is hard to say.

Saving Radio Tubes

The brother "bug" with the above-mentioned 10 tube set might now be getting the same results with 5 tubes had he taken a slight precautionary measure. This measure consists of connecting a 110 volt 25 watt incandescent light bulb in series with one of the B battery connections. This bulb may be left permanently in the circuit, and in case of an accident, it will prevent the B battery from "shooting" the tubes.

Long-Distance Programs Expensive

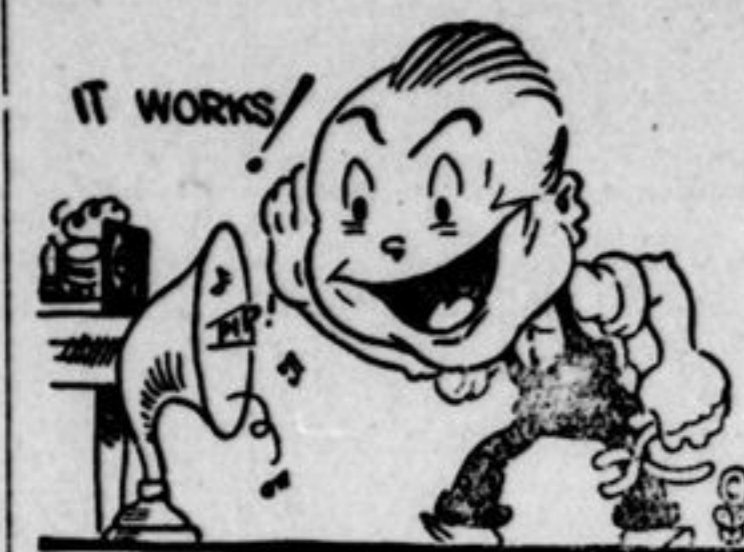
In announcing that it will discontinue the broadcasting of the Vic-



tor Artists' programs, station WMAQ reveals that the cost of bringing this program to Chicago by means of long distance telephone lines, amounts to approximately fifteen dollars per minute.

Human Nature

Why is it that the man who buys a radio receiving set "kicks like a steer" if he doesn't get KFI at Los Angeles and WEAF at New York the first night? When the same



man builds his own receiver, he is happy to hear a local station come in with the volume of a whisper.

One Program For Several Stations

The present system of having a single program to be broadcasted simultaneously by several stations seems to be gaining favor in the east. While this system is undoubtedly a step towards putting broadcasting on a better economical basis, it has met with the disapproval of the "DX-hounds." The complaint is, that it makes the night's entertainment more monotonous, as the listener runs into the same program from so many stations. Also, that the listener cannot tell what station he is hearing without standing by a long time for the infrequent call letter announcements.

There are, of course, many advantages as well as disadvantages to this system of broadcasting. This department would be pleased to receive some of the readers' views on the subject.

RADIO QUESTIONS AND ANSWERS

Mr. Sherrill will be glad to help you solve your radio problems. Write him, care of The Durham Chronicle.

J. B. E. wants to know: "What is the cause of squealing in my five tube Neutrodyne? This trouble is most noticeable when I am tuning below 300 meters."

Ans.—It is probable that you are getting some sort of a magnetic feed-back in your wiring. Try to shorten your grid and plate connections and keep them as widely separated as possible. Check up to see

if the set is properly neutralized.

M. S. R. asks: "What does the potentiometer do on a two tube receiver?"

Ans.—The potentiometer is probably there for the purpose of controlling the grid voltage on one or both of the tubes. This is done to prevent the tubes from oscillating.

ACROSS CANADA AND BACK

The wonder trip of the coming summer will be conducted by Dean Laird of Macdonald College, to Victoria, B. C., and back.

Inspired by the success of the trip to Victoria last year on the occasion of the Teachers' Federation meeting at that point, and filled with patriotic motives for everyone to see their own country, the Dean has arranged for a special train of standard sleeping cars to leave Toronto on July 20, visiting Port Arthur, Fort William, Winnipeg, Regina, Moose Jaw, Calgary, Banff, Lake Louise, Vancouver, thence by steamer to Victoria.

Returning, the trip will be via the Okanagan Valley, Nelson, the Kootenay Lakes, Windermere Bungalow Camp, from which place the party will be motored to Banff, 104 miles over the newly completed Banff-Windermere Highway, the most charming and awe inspiring trip it is possible to conceive, with stops at Radium Hot Springs, Vermilion River and Storm Mountain Bungalow Camps—another day at Banff, then Edmonton, Saskatoon, Devil's Gap Bungalow Camp, near Kenora on the Lake of the Woods, steamer from Fort William to Port McNicoll, thence rail to Toronto, where the trip will terminate on August 10.

Everything is included at the price of \$325.00 from Toronto: Transportation, sleeping cars, accommodation in hotels and bungalow camps, meals in diners, hotels and on steamers, sightseeing tours at points visited, and all gratuities.

While appealing primarily to teachers, the tour is open to everyone desiring to go.

All will be welcome. Fares from other points than Toronto will be named, and descriptive illustrated booklet sent on application to Dean Laird, Macdonald College, P. O. Que. 4.27 to 5.25

International crisis: To mules eager for the same ear of corn.

World News Seen At A Glance

Daily Events as Told by Cable Condensed for Busy Chronicle Readers.

France-German negotiations for a commercial treaty were resumed Monday. Dr. Trendelenburg returned to Paris as the head of the German mission.

Emile Vandervelde, the Socialist leader, informed King Albert of Belgium that he had found it impossible to fulfill the mission entrusted him of forming a Cabinet to succeed that of Premier Theunis, which resigned April 5th.

Short-wave radio signals from the United States fleet manoeuvring off Hawaii, were heard in Melbourne, Australia on Thursday night. The signals were extremely loud and easy to copy. The distance between Hawaii and Melbourne is, roughly, 6,400 miles.

Because it was decided to propose the health of the Pope before that of King George, the Lord Mayor of London, Col. Sir Alfred Bower, who is a Roman Catholic, refused to attend the annual banquet on Thursday evening of the Catenian Association, a Roman Catholic society.

Premier Tzankoff declared to press correspondents in Sofia that the charges made by the British members of Parliament who recently visited Bulgaria regarding conditions here were "sheer calumny." The Premier said the Laborite M. P.'s had not seen the things they alleged they saw.

Considerable opposition to the new French naval program developed in the Chamber of Deputies yesterday during the discussion of the item in the 1925 budget calling for the appropriation of 35,000,000 francs for the completion of the second phase of the naval program allowed under the Washington agreement.

Much anger and resentment is manifested in the Russian Soviet Press and Government circles over statements circulated abroad fixing responsibility for the terrorism in Sofia under Moscow.

Paris Le Matin says Foreign Minister Briant and perhaps also Premier Painleve will go to London at an early date to consult with the British Government as to the best way of continuing the security negotiations. Their object is to find a system insuring France's security by completing the clauses in the Versailles Treaty in that regard, making up for the failure of the League of Nations Assembly but rejected by Great Britain.

Premier Stanley M. Bruce of Australia has replied to a cable from Premier Mackenzie King of Canada, on the matter of re-opening the Canadian-Australian trade treaty negotiations, the Commonwealth Premier declining to do so. Premier Bruce, in his reply, says he regrets his inability to agree to Premier King's suggestion that the discussion on the proposed trade treaty should be re-opened. The Australian Premier says he is now awaiting the decision of the Canadian parliament on the treaty.

The Allied Council of Ambassadors, which was to meet to discuss Marshal Foch's supplementary report on Germany's violations of the disarmament clauses of the treaty of Versailles, postponed its gathering until this week. It is understood that the Allies reached the conclusion that the matter should be deferred until after the German presidential elections.

The sale of "North Pole Stamps," the proceeds of which will help finance the Amundsen expedition, has begun. The Norwegian Post Office has issued 420,000 of the stamps, valued at 43,800 crowns.

The Soviet Russian Government has made a further concession to the peasantry by agreeing to allow them to employ salaried laborers on their farms. Heretofore, this was forbidden, as the present Soviet Land Law specifies that no one shall possess more ground than he is able to work himself.

The three principal defendants of

the sixteen Communist members of the German "Cheka" were sentenced to death for murder and terroristic acts. They are Felix Neuman, Ernst Poegel, and a Russian, Alexander Skobievsky. The thirteen other defendants were given penitentiary sentences varying from fifteen years to five months.

King George has had a letter from Premier Baldwin every day since he has been away on his health cruise in the Mediterranean. It has been the custom of the House of Commons leader for generations to write to the King every day, especially when the House was sitting, and for many years, he was supposed to do so in his own hand.

Fifty Communists, held in the Berlin City Jail on charge of political offenses, have begun a hunger strike in protest against what they allege is in the intentional delay by the authorities in bringing them to trial.

King Alfonso, of Spain, is quoted by the French writers, and Brothers Jerome and Jean Tharaud, as declaring to them in an interview that the tranquil conditions in Spain were proof that his country was satisfied with the Government of the military directory, to which he asserted, only a handful of professional politicians were opposed.

A convention of Nationalists in Belfast decided to repeal the former decision that members of the party should not take the seats to which they were elected in the Ulster Parliament until the Boundary Commission had reported.

Income tax in the Irish Free State has been reduced from five to four shillings the pound. Duties have been abolished on tea, raw cocoa, coffee and chicory, and, and duties have been placed on clothing, blankets, rugs, furniture and empty glass bottles. The duty on toilet soaps has been doubled. Imperial preference on sugar has been abolished, reducing the duty on sugar from 2½d to 1d per pound.

Parliament Square, outside St. Margaret's Church, Westminster, was filled with large, silent crowds Sunday on the occasion of the funeral service for Gen. Lord Rawlinson, commander-in-chief of the British forces in India.

After eight months of comparative rest, Mount Vesuvius is in eruption again. The present activity occurs periodically and is caused by the collapse of a section of the rim of the crater, which allows the lava to flow down the volcano slope.

A foreign mail bag containing fifty bundles of letters, stamped in St. Louis, March 30, and addressed to various towns in Scotland, was found on Saturday on the sands near Newquay on the Cornwall coast of England. The authorities are investigating.

The report of a verbal agreement between the Bank of England and the New York Federal Reserve Bank under which the latter will discount sterling bills whenever presented, after the pound has reached parity, is unofficially confirmed in banking circles in London.

The King of Belgium has request-

ed Aloys Van de Vyvere, financier and statesman, to form a new cabinet to succeed that of Premier Theunis, who resigned April 5, but M. Van de Vyvere has declined. This follows the failure of M. Vandervelde, Socialist leader, to form a cabinet to succeed that of M. Theunis.

Argentina in 1924 again led the world in supplying London with meat. Statistics just issued show that 224,866 tons of Argentine meat were distributed through the central market at Smithfield, as compared with 104,843 from the British Isles, 90,972 from Australia and New Zealand, 8,961 from Canada and the (Continued on page 10)

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Advertisement for Melotte Cream Separator featuring an illustration of the machine and text: 'Square Cut Gears Last Longer... is twenty years and during this time you separate 14,600 milkings. Think of it! The Melotte does last longer and skim cleaner and turn easier. Our users name it—"The separator that won't wear out." Ask us to tell you more and demonstrate. F. W. MOON Durham - Ontario'.