



News of Wireless Talking Activities and Developments, Musical and Other Programmes of Broadcasting Stations and Answers to Queries Will Be Found in These Columns.

By Capt. Robt. Scofield Wood.
(D. F. C. M. C. Croix de Guerre with four palms; formerly Commander 167th Squadron, Royal Air Force.)

All students of radio have followed the work of Paul Godley with great interest and have expressed their admiration for the great work he did in proving to the British radio experts that American amateurs have perfected their instruments that they can be heard in England. During his recent experimental trip to Androssa, Scotland, he received messages from twenty-seven stations operating in America, all of which were amateur stations, some using less than thirty watts of power. Of the twenty-seven stations officially announced by Mr. Godley, seven were spark stations, the other twenty were continuous wave stations. After conducting the experiments, which were rather exhaustive, Mr. Godley makes the spark method used by amateur relay men and in particular to abandon the spark coil which he says is of great detriment to all interests. The following is a list of the call stations who were successfully heard at Androssa:

- 1AWW—Illegal station, owner and location unknown.
- 1ARY—Burlington, Vt., owned by the University of Vermont.
- 1BDT—Atlantic, Mass., owner S. S. Heap.
- 2BK—Yonkers, N. Y., owner C. E. Trube.
- 2DN—Yonkers, N. Y., owner Arnold Hillhart.
- 2EH—Freeport, L. I., owner Town of Freeport.
- 2BP—Newmarket, Ontario, owner E. S. Rogers.

The seven stations mentioned above are spark stations. The following are using continuous wave:

- 1RU—Hartford, Conn., owner Robt. S. Miner.
- 1RZ—Ridgefield, Conn., owner J. V. Hubbard.
- 1ARY—Burlington, Vt., owner University of Vermont.
- 1BCG—Greenwich, Conn., owner Armstrong and Amy.
- 1BDT—Atlantic, Mass., owner S. S. Heap.
- 1BGF—Hartford, Conn., owner Perry Briggs.
- 1BKA—Greenbrook, Conn., owner G. E. Brown.
- 1XM—Cambridge, Mass., owner Massachusetts Institute of Technology.
- 1YK—Worcester, Mass., owner Worcester Polytechnic Institute.
- 2EH—Riverhead, L. I., owner Radio Engineers Club.
- 2PD—New York, owner H. Barber.
- 2PF—Brooklyn, owner J. DeBlase.
- 2ARY—Brooklyn, N. Y., owner W. E. Redfern.
- 2AJW—Babylon, L. I., owner H. S. Collins.
- 2BML—Riverhead, L. I., owner H. H. Beverage.
- 2DH—Princeton University.
- 2FB—Atlantic City, N. J., owner W. Jordan.
- 2BM—Cleveland, Ohio, owner J. Russell.
- 2AFC—Washington, Pa., owner T. McNeary.
- 2XY—Pittsburgh, Pa., owner S. S. McCullough.

NOTE—The duplicates in this list used both spark and continuous wave during these experiments.

11.15 A. M., musical programme.
12 M., weather report and special farmers' market report.
12.15 P. M., music and news.
1 P. M., music and news.
2 P. M., maritime news.
2.15 P. M., musical programme.
3 P. M., music and news.
4 P. M., musical programme.
5 P. M., Arlington official time.
5.05 P. M., music and news.
6 P. M., resume of farmers' market news and music.
7.45 P. M., address by Hirsabel Jones, Director Division of Foods and Markets, State of New York.
8.20 P. M., dance music by the Tennessee Five Orchestra.
9.32 P. M., Arlington official time.

KDKA (Pittsburgh) 358 metre
10 A. M.—12 M., music and news.
2 P. M.—4 P. M., musical programme.
8 P. M., Mrs. Margaret Stewart Gray, Superintendent of Bureau of Recreation, Pittsburgh, will speak on the subject of "Recreation."
8.30 P. M., programme by the Le Sueur Opera Company.

W B Z (Springfield, Mass.) 360 metre
Evening radio services by the Rev. Martin from Wesley Methodist Episcopal Church.

K Y W (Chicago) 360 metre
After W J Z signs off for the night you may pick up the following part of the Chicago programme: "Evening Star," "Tappanauer," by Wagner; "Musetta Waltz," "La Boheme," by Puccini; "Drink to Me Only With Thine Eyes," "Old English;" "Just A-Wearyin' for You," Jacobs, Bond.

W D Y (Roselle Park) 360 metre
This station will not be heard to night or Sunday.

W B Z (Springfield, Mass.) 360 metre
This station will not be heard to night.

W J Z (Newark) 360 metre
11 A. M., music and weather forecast for the metropolitan district.

KDKA (Pittsburgh) 358 metre
10.45 A. M., Radio services of the First Presbyterian Church, conducted by Dr. Matilda A. G. ...
1 P. M., Radio chapel services conducted by Dr. Hutcheson, pastor of East Liberty Presbyterian Church.
7.30 P. M., services of the Calvary Episcopal Church will be conducted by Rev. Edward J. Van Etten.

Questions and Answers.
E. P. L., New York, writes: I have a home made outfit consisting of 15x4 tuner, of No. 24 enamel magnet wire, two brass sliders, paragon detector, galena crystal, tin foil condenser, copper wire soldered on and a 3,000 Ohms ear phone, grounded on water pipe. Aerial 100 feet long and 40 feet high, well insulated. I live thirty miles from Newark. Why can I not get the concerts broadcasted each evening? Ans. You should hear Newark and it is only a matter of carefully adjusting your detector for the best possible receiving point. It is also suggested that you carefully adjust the inductance of your tuner.

Edwin Widman, No. 2076 66th Street, Brooklyn, wants to know if two honeycomb coils with condensers are good to receive radio phone service in conjunction with a crystal detector. Ans. Yes, this outfit is quite suitable.
2. "Kindly tell me how to connect two honeycombs, two condensers, a crystal detector and phones." Ans. Any simple receiving circuit will do. Watch this column Monday.

Fred Grill, No. 208 West 115th Street, City, wants to know what additional parts he will need to hear Pittsburgh radio concerts. He has at present Navy type loose-coupler, pair of phones, a detector panel, and one detector bulb. Ans. He will need one detector, a two stage amplifier, with a good loud speaker. His loose-coupler will probably be O. K. without having to buy any other instrument.
2. "What is the best length for an antenna?" Ans. For best results your aerial should be about 120 feet long.

SUNDAY PROGRAMMES.
3 P. M., Radio chapel services conducted by Rev. Jesse L. Hurbit, D.D., Sunday school expert and member of Newark Annual Conference, Methodist Episcopal Church.
7.45 P. M., Myrom W. Morse, fag custodian of Newark, will speak on the subject of "The American Flag."
8.20 P. M., Sacred Music.

HIRED GANG OF BOYS TO STEAL IN STORES
Given Sing Sing Sentence—Last of 200 Xmas Shoplifting Cases Disposed of.
Nine shoplifters, men and women, the last of two hundred cases detected during the holiday season by the Stores Mutual Protective Association, were today sentenced in Special and General Sessions. In two cases sentence was suspended, fines were imposed in others and one prisoner was sent to Sing Sing for from two and one-half to five years. The latter was Louis Bernstein, twenty-two, of No. 66 Morton Street, convicted of receiving during the last six months articles valued at \$5,000 from a gang of boys he employed to steal from the stores.

BIG CO-OPERATIVE HOUSE PLANNED
Proposed Apartment to Occupy Entire Block in Manhattan and Cost \$1,000,000.
An apartment house occupying one full block, preferably in Manhattan, and run on the co-operative tenant plan will soon be built as an experiment if a call for \$1,000,000 donation, sounded yesterday by Miss Rosalie Manning at a meeting of a dozen organizations at the Women's City Club, No. 22 Park Avenue, is answered with the necessary cash. Representatives of the clubs expressed their belief that the \$1,000,000 will be forthcoming. Each club, it is expected, will try to raise its share.

Miss Manning declared that the co-operative plan has already established itself as a success, has effectively ended the strife between landlords and tenants wherever tried, and has resulted in the better care of apartments since tenants do not destroy that which is their own.
Among those at the meeting were Miss Mary Garrett Hay, who presided, J. E. Murphy, Andrew E. Thomas, Mrs. William Olmsted, Miss Olive Wade, Miss Teresa O'Donohue, Mrs. Frederick Lee Ackerman, Frank B. Williams, Raymond V. Ingersoll, Mrs. N. Taylor Phillips, Miss May Mathews and Mrs. Edwin Goldwasser.

MARTENS ASSISTANT RELEASED BY SOVIET
Word Reaches Here That Nuorteva Is Free After Eight Months.
Charles Recht, lawyer, of No. 110 West 40th Street, and others expressed lively interest to-day in a report that reached her from Moscow by way of London that the Soviet Government had released Santori Nuorteva, former associate and chief assistant of Ludwig C. A. K. Martens, after eight months' imprisonment.
One report represented that Nuorteva had been arrested for alleged divulgence of Soviet secrets by some one in the Soviet Foreign Office, of which Nuorteva was the head. Another report said he had been accused of financial irregularities.
Nuorteva, who was of upper class Finnish birth, came to America after the 1905 Russian uprising and associated himself with the Soviet Bureau in New York.

GRANDPOP MURRAY, 107, SUDDENLY EXPIRES
Aged Gatekeeper of Trinity Cemetery Dies at His Post.
One hundred and seven years old, known to all the children of the neighborhood as "Grandpop," James Murray of No. 477 West 143d Street, gatekeeper and watchman in Trinity Cemetery, is dead at Columbus Hospital. He collapsed while on duty, falling in the cemetery gateway as Patrolman John Reilly, of the West 153d Street Station, passed him.
Murray was once a police reporter, but for fifty-three years was employed at the cemetery.

BUILDING WAGE AGREEMENT EXTENDED A MONTH
Christian G. Norman, Chairman of the Board of Governors of the Building Trades Employers' Association, to-day notified the Building Trades Council that the 1921 wage agreement will remain in force until March 1. The extension from Feb. 1, the date originally set for the termination of the agreement, was made by a unanimous vote of the Board of Governors, pending the outcome of negotiations for a new agreement.

Bankers and steel executives agree that if the merger cannot be put through at this time it will have to be definitely abandoned. Conditions could not be more propitious. Two years ago when a similar merger was attempted steel shares were selling on an inflated basis and directors of steel companies would not listen to reason, but insisted that market quotations then prevailing were in line with the intrinsic values of the shares. Now, however, when the steel industry is experiencing the worst depression in its history and steel shares are on a greatly depreciated basis, inflated ideas of value are still in evidence and the economies that would almost surely result from a consolidation of the independents may not be brought about. But the

Market Sidelights
By R. R. Batson.

Reports, now being circulated so widely in Wall Street that important steel mergers which have been under discussion for many weeks have been abandoned, are incorrect. Negotiations are still in progress.
It is true that sharp differences of opinion have arisen as to the basis on which various companies should go into the consolidation, but the prospects of ironing out these differences are not by any means hopeless.
Appraisers working on the various companies have not completed their work and probably will not complete it for several weeks yet, but they have progressed far enough to give the negotiators a basis for naming tentative terms of consolidation and it has been the discussion of these terms that has led to disagreements.

The present complicated status of the steel merger illustrates the rashness of stock market traders in making the consolidation the basis of indiscriminate purchases of stocks. Fed up with the idea that the consolidation is a certainty, practically all of the independent steel shares have been eagerly accumulated. Pools have made it the basis of senseless operations. In the first place, if an agreement is arrived at it probably will require many weeks of discussion. Secondly, assuming that the consolidation be effected, there undoubtedly will simply be an exchange of securities of a company yet to be formed. And in the case of more than one company this exchange is likely to be distasteful to present holders of steel shares.

Much interest attaches to the forthcoming issue of bonds by the Burlington Railroad, particularly with regard to the amount of underwriting commissions to be taken by bankers.
When money rates were high, and investment demand was flat there was sufficient warrant for exacting commissions of from 3 to 4 per cent. In the case of the issue of \$30,000,000 Burlington 10-year 5 per cent. bonds, to be offered on Monday, it is a moral certainty that there will be a heavy oversubscription if the bonds are offered on a basis to yield 5 1/2 per cent. or better. Investment houses and investors will be scrambling for them if offered on that basis. The risk of underwriters certainly will not match up with a commission of 3 1/2 per cent. or more than \$1,000,000, yet it is rumored that the commission to be exacted.

outlook is not nearly as hopeless as Wall Street now seems to believe.
According to an interest closely identified with the Consolidated Gas Company, the decision of directors to leave the question of the continuance of the present rate of dividend to the Executive Committee, which meets next Tuesday, does not necessarily mean that the present 7 per cent. rate will be cut at that time.
The question of whether the 8 per cent. gas rate is confiscatory is before the United States Supreme Court and a decision is expected at any time. It is generally expected that the Supreme Court will uphold the decision of the District Court, which was in favor of the company. Monday is the last decision day of the Supreme Court before February adjournment. If the gas decision is handed down on Monday and is favorable the regular rate of disbursement will be ordered on Tuesday. If the decision is not handed down the Executive Committee is not unlikely to decide to defer action until the Supreme Court again convenes. Even in the event of an unfavorable decision it is not thought in well-informed quarters that the rate will be reduced below 5 per cent. But this phase of the matter has not been the subject of official discussion by the Board of Directors or the Executive Committee.

One of the main reasons for the renewal of impressive investment buying in the bond market is the expectation that in spite of the current flurry in the rate for funds loaned for purposes of stock speculation, the Federal Reserve Bank cannot reasonably longer defer a reduction in rediscount rates to 4 per cent. Since the first of the year the reserve ratio of the system as a whole has increased more than 5 points, and now stands at 74.5 per cent. This is the highest ratio since the latter part of September, 1917. And cash reserves of the system stand at \$3,058,855,000 the highest figure ever reached.

FOR INFLUENZA



When using grapefruit and oranges remember the health value of these citrus fruits is in the juice.

Get Sealdsweet grapefruit and oranges, tree-ripened, which often contain double the quantity of strength-giving juice found in some other kinds.

Sealdsweet Grapefruit and Oranges cost no more.

Packed by the growers' great cooperative organization.



They weigh more because they are FULL of juice.
Ask Your Dealer