

AMATEUR CAN MASTER MAGIC ART OF STEERING

Radio Currents Operate Magnets Which Control Ship's Apparatus.

(Montreal Gazette.) Any wireless amateur or master of the magic art of steering or radio-control if he wishes. Unless a very rich man he will not be able to practice it on the grand scale, he will never be in a position to swing ships about by crooking his finger nor fly pilotless aeroplanes. But he may acquire skill to provide hours of instructive entertainment for himself and his friends by controlling miniature objects. Incidentally, too, he will open for himself the gate which leads to a fascinating bypath of scientific knowledge.

As used in the navy for large scale experiments radio control is achieved by means of very short wave lengths. In working it instruments of great precision are necessary, and these must be adjusted to the thousandth part of a hair's breadth or the required electrical mechanical effect cannot be obtained. The thing won't work.

Simply stated, the system consists in wireless currents which are generated at the control station (that may be either on board ship or on shore) being transmitted wirelessly to the object being controlled. There they are received by valves and made to operate magnets. Of the latter a series is installed in the ship—if it is a ship that is under control. Each magnet has a particular job to do. One puts the rudder to port, another turns it to starboard, and so on through the whole range of actions incidental to running the ship.

Each magnet does its special job and that job alone—and it works only when current is directed upon it. Communication is made or broken instantly. The operator at the control station wants a given number of degrees of starboard helm put on the controlled vessel, he energizes the magnet installed for the purpose of starboarding the helm and cuts it out again immediately the helm is in the position required. Instantaneous response to the signals from the control station is an essential feature of radio control.

Although he may be twenty miles away from her, the man who handles a ship by this system occupies exactly the same position in relation to navigating her as he would if he were captain giving his orders from her bridge. In the latter case he tells various sailors what he wishes them to do. But by control, instead of giving verbal orders to mechanical appliances, and they do exactly what he wants them.

Theoretically, the use of different wave lengths for operating different control instruments is satisfactory. In practice there are objections to it on the grounds of multiplicity of plant. The better method is to operate the relay switches, which do whatever is required aboard the controlled vessel by impulses or punches. One wireless punch sets a specific switch or magnet in action; two punches start up another—and so on through the whole gamut of activities that are subject to the will of the men at the control station.

As secrecy is no consideration to the amateur, he need not bother about getting short wave connection. All his controlling can be done by ordinary wave lengths, but he must be prepared to use his brains and give time to experimenting if he wished to add radio control to his knowledge.

FACE BLOWN AWAY EXAMINING BLAST

Elderly Milton, Ont., Citizen Killed While at Work in Brickyard.

Milton, Ont., Nov. 20—George Sheppard, aged sixty-five years, met with a fatal accident at the Milton Pressed Brick works last Wednesday. It is reported that he and John Storer, whose duty it was to blast the clay in the pit, had prepared two charges of dynamite ready to set off. When all was ready the electric battery was turned on, but only one charge exploded.

After five minutes had elapsed Mr. Sheppard went to see why the second charge had not gone off, when, for some unknown reason, the charge suddenly exploded, blowing part of Mr. Sheppard's face away and shattering his right arm in a frightful manner. The accident took place at four o'clock and the injured man died an hour later without regaining consciousness. The body was taken to C. R. Turner's undertaking parlors where an inquest was opened.

VIOLETS IN FULL BLOOM IN NOVEMBER WEATHER
Milton, Ont., Nov. 20—Lovers of flowers had the pleasure last week of seeing violets in full bloom in John Mills' flower garden on Mill street. This is an unusual sight for the middle of November, and speaks well for the climate in this part of Canada.

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MILLIONAIRE TO PRISON AS SPY

William Bross Lloyd Violated the Illinois Espionage Law.

Chicago, Nov. 20—William Bross Lloyd, millionaire radical, must go to prison for violation of the state espionage law, unless Governor Small grants executive clemency. Four associates also must go to prison within a few days, by order of the Illinois Supreme Court, to serve sentences of one to five years for violation of the state anti-syndicalism law. They will be locked up by Monday, it is believed.

Charles W. Vail, clerk of the Supreme Court, mailed a mandate for the imprisonment of Lloyd and his colleagues to Chicago following Chief Justice Thompson's refusal to grant a 90-day stay.

Since the five men have furnished sufficient bonds, a day or two will be given them in which to adjust their affairs, but unless evasion is attempted, all the men should be in Joliet Monday. The action of the State Court followed closely the refusal of Justice Sutherland, of the United States Supreme Court, to take action in Lloyd's favor, and the denial of a request that all the justices of the Supreme Court be permitted to review his case.

W. S. Forest and William Cunneen, attorneys representing the five defendants, tonight expressed the hope that their clients would have a week to arrange their affairs before beginning their terms at Joliet. Special emphasis was placed on a plea for time on the grounds that "a man who has a \$1,800,000 estate should be permitted at least the delay allotted manslaughter defendants in arranging his affairs."

William S. Forest, attorney for Lloyd,

pleaded with Chief Justice Thompson at midnight for 90 days of grace.

"My client must make arrangements for the management of his \$1,800,000 estate," the lawyer argued.

"No man going to prison ought to have that much money," the judge remarked, as he refused the stay.

The chief justice's action affects also eleven Communists sentenced to a year each in jail, and two were fined. The men were found guilty in August, 1920. Appeals have delayed execution of the sentences until now.

The Illinois authorities do not know where all the condemned men are, Lloyd Heath, special prosecutor, said today. They did not attempt to keep in touch with them.

The hour of vespers in the church of the Assumption, west end, has been changed from 7.15 to 8.30 for the winter months, the first service under the new time was held yesterday afternoon.

Justice Thompson's refusal to grant a 90-day stay.

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SAYS FAREWELL TO CONGREGATION

Rev. R. H. H. Bulteel Severs Connection With Parish to Take Charge in Dorchester, Mass. — Exhibits at Toronto.

Fredericton, Nov. 19—Rev. R. H. H. Bulteel, curate at Christ Church

Cathedral in this city, preached his farewell sermon today. He will leave with his wife on Wednesday for Dorchester, Mass., where he has accepted a charge at All Saints' church. Saturday night he was presented with a purse by the Tuxis Boys' Club of the cathedral, in which he has been greatly interested. There also were presentations from the A. Y. P. A., the sidesmen of the cathedral, the Women's Auxiliary and by the congregations at New Maryland and Minto.

Rev. Mr. Bulteel has been in Fredericton three years and a half, taking the curacy here after leaving the chaplain service of the C. E. F. The departure of himself and wife is regretted by a large circle of friends.

Harvey Mitchell, deputy minister of agriculture, left Saturday for Toronto to attend the Royal winter fair which

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opens in that city on Tuesday. The Provincial Government is making an exhibit of apples at the fair. Potatoes are entered in competition classes. Provincial Horticulturalist A. G. Torrey and O. C. Hicks are now in Toronto looking after the exhibit.



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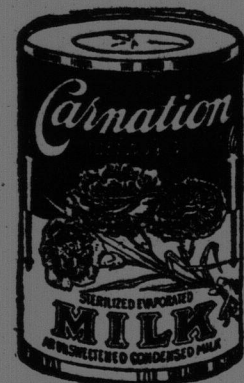
CREAM WHITE SAUCE

(For creaming vegetables)

2 tablespoonfuls flour, 1/3 cup Carnation Milk, 2 tablespoonfuls butter or substitute, 1/4 teaspoonful salt, 2/3 cup water. Melt butter or butter substitute, add flour and stir until thoroughly mixed. Add the milk diluted with the water and cook about five minutes or until mixture thickens, then add seasonings. This recipe makes one cup. All vegetables may be creamed. The vegetables should be cooked by either boiling or steaming. After cooking with salt, drain and add cream sauce.

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