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Radio is Urged for Forest Patrol Work

System of Communication Suggested Which Amply Meets All Special Requirements for Protective

(By J. Stuart Richardson, of the Northern Electric Co., Montreal.) The history of the growth of com-

munication is a history of the world's progress. Communication has contributed a measure of safety to whatever specific purpose it has been applied. The early inhabitants of the earth used smoke signals to save themselves the effort of journeys, and to give warning to their kind of impending danger. A system of flag signals was developed for use by ships, so that they might not become endangered either by proximity to each other or to the shore. The social order of today is built up on elaborate and specialized systems of communication, the main object of each of which is saving, either of time, property, or life.

The purpose of this paper is to conin order that the maximum area may be under the observation of the minimum number of observers. Look-out in the bush tends to create a more careful attitude in hunters,, prospectors he creating of fire hazards.

Warning the Public

Newspaper warnings, posters, and al- ever, possesses certain inherent weakmost every conceivable means are used | nesses. Penhaps the oldest means by to bring home to those who, by which information may be conveyed thoughtlessness, might be the means of from one point to another is by mesdestroying large areas of timber, with senger. The most modern and techconsequent danger of life and property. | nically complex is the wireless tele-Such warnings have undoubtedly pro- phone and telegraph. A study of the duced excellent results, but although kind of messages, the men who send it is probably safe to say that the pub- hem, and the ranges over which the ic are more keenly aware of the risks | communication system must operate, nvolved as a result of their activities | leads inevitably to the conclusion that in the bush, the danger of fire is still the telephone and radio telephone

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Ont. "It got so bad I had to stop working and stay in the house. I was two weeks in bed, when a friend advised me to try Dr. Williams' Pink Pills. I gave the Pills a fair trial. and they relieved me right away. My back is good and strong now, and I am working every day. I have never been bothered with rheumatism since. I recommend them for anyone suffering from Rheumatism, Lame Back, Sciatica.'

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sider in what measure radio may con- one which requires the gravest contribute to the problem of communica- sideration. Apart from man-made fires. tion for forest protection. At the pre- lightning and spontaneous combustion sent time various methods are in use are of course additional fire-causing hazards to which the bush is subject. It is therefore essential, if the bush is to be protected against fire, that towers, aeroplanes and ground patrois means must be adopted in order that are used most frequently for this pur- fire may be detected and dealt with pose, and incidentally it is possible in its early stages. In brief, a system hat the knowledge of their presence of communication which will meet special requirements, if necessary.

The difficulties of providing comand others who might be careless in munication through forest country must be apparent to all who have any knowledge of the conditions. There During the summer months every are many methods, which, under speffort is made to warn the public of cial conditions will provide a means he danger of causing forest fires, of communication. Each method, howcome nearest to meeting all requiregraph have certain advantages over the Wire Lines Are Costly

> are costly to build and to maintain in bush operations. a good state of repair. They are also consequent interruptions to the service. Admittedly, the "right of way" ation of both aircraft and radio. provides a great deal of protection from the effects of a fire, but even though this be wide, sufficient heat may be present to crack the insulators, and to cause the wire to either break or be- ted at strategic points are used for obcome grounded. If no "right of way" servation purposes, and by this means is provided then these conditions be- information is gathered as to the locome aggravated to such an extent cation of the fires. Obviously a radio that the line could hardly be consi- system with equipment at or near these dered to be of much practical use ex- towers would increase to a large except under ideal conditions.

> The very nature of radio communication is such as to make it free from many of the weaknesses of wire lines, particularly when assigned to service is located from each tower it would in bush country. The communication be possible in a few minutes to estabmedium by which radio is possible cannot be affected by conditions which its service useless. The medium of radio is everywhere available. No "right of way" has to be obtained and cleared No lakes, mountains and other natura barriers have to be circumvented. With suitable types of equipment the points of communication can quite readily be from time to time a condition quite in contrast to that where telephone lines are used, as the investment is almost a total loss if for any reason its use is discontinued.

Advantages of Radio

One point of outstanding significance can be credited to radio in the direct communication may be had with ships

means of fire ranging and transporta- of power. tion of fire fighting equipment afforded by aircraft make them ideal for the made by a radio message from a plane can be assembled and immediately dispatched to the fire area and the fire ranging plane may continue its flight over other areas. Without any means of communication the plane would have to return to headqaurters to report the fire, with consequent loss of time both the ranging of further territory.

Planes Radio Equipped

Radio communication between airraft and ground stations has been developed to a greater extent during the part two or three years and the success with which it has been applied is widespread. Most of the large aircraft travel and transport companies have their planes radio equipped, and the majority of large airports are provided with equipment for communicating with planes flying over established routes. The equipment developed for this purpose is of course equally suitable for use in planes employed in fire ranging services. The ground station equipment used at airports would also be work. suitable for use at patrol headquarters in fire ranging areas.

Furthermore, the transmitting equip- DEMONSTRATION STAGED BY ment designed for use in aircraft has had to meet more rigid requiremen's than that for any other field of radio communication. It has had to be essentially dependable, simple, sensitive and light. Dependable, because no adjustment is possible in flight. It may be necessary to operate the equipment for a few seconds at a time only, or for the whole period of flight, yet it must function efficiently at all times if it is to fulfil its purpose.

Secondly, it must be simple to control, so that its operation demands little concentration from the pilot, who is, meeting in Memorial Park, Sudbury, in the majority of cases, also operator.

Thirdly, it must be highly sensitive to compensate for the limitations of men's. The telegraph and radio tele- aircraft antennae, which are relatively The usual "demands" were made, there poor in comparison with those that corresponding telephone facilities in | may be constructed at ground stations. that greater distances can be spanned. Fourthly, it must be light, for every from this there was no trouble. but due to the fact that a knowledge pound of navigating equipment in a of the code is necessary, this advan- commercial plane means a reduction tage cannot generally be capitalized. in the amount of "pay load" which may be carried. Other important require-To some extent the ordinary wire ments of aircraft radio equipment are 46 years ago, while he was living in telephone has already been adapted compactness and ruggedness. We sub- Manitoba, he was forced to sell his ! for bush operations. To be reliable, mit that all the requirements encounhowever, a "right of way" has to be tered in the designing of radio equipestablished in order that falling trees ment for aircraft will apply in almost that, it may be noted, came the demay not damage the line. Such lines | equal measure to radio equipment for

It would seem logical to presume tha subject to damage during a fire with the future of forestry protection will see an increase in the use and co-oper-Adjunct to Fire Ranging

Radio communication commends itself as an adjunct to any means of fire ranging. In many places towers locatent the effectiveness of this type of fire ranging. By exchanges of information between say three points as to the direction in which a given fire

lish the exact location of the fire.

Communication has a number of difwould destroy a wire line and render ferent applications in connection with forestry protection. It may be used to advise rangers of the entry into the forest of campers prospectors or others who may be the cause of fire hazard. It provides the means whereby the location of fires may be reported at the earliest possible moment. It enables moved to meet needs that may arise headquarters to keep in touch with developments, so that the best use may be made of both men and materials. There are doubtless further ways in which the exchange and dispatching of information by radio could be used to great advantage in fire ranging. Once a communication system is set up for any purpose there always develous increased uses for such a system, and those who are familiar with an expert in the technique of forestry protection can undoubtedly develop

many ways of taking advantage of the

flexibility of radio communication.

Disturbing Conditions Reduced It must not be inferred from what has been said above that radio is entirely free from limitations in its use for forestry protective work, and that equipment for all conditions is available. It must be recognized that while she transmission medium of radio is not suject to hazards which might destroy or impair wire telephone circuits, it is nevertheless subject to certain atmospheric conditions over which no control can be as yet exercised. Static interference and fading must be contended with in radio communication, but by the careful location of equipment, and by the obtaining of a suitable operating frequency, these disturbing conditions can be reduced to a

Power for Energizing The question of power for energizing radio equipment is a matter of prime importance, especially under conditions where the portability is of great concern. There are now available, howeever, gasoline driven power plants of sizes suitable to almost any need, and these are of compact, efficient and rugged design, thus lending themselves ad-

and aeroplanes either stationary or in mirably to this particular work. In motion In certain areas use has been this connection it might be observed made of boats for forest protection that the adoption of a suitable calling operation. Furthermore, the rapid schedule would result in a conservation

Some New Developments

Within the past few years there have protection of large areas of valuable been developments in radio equipment wooded country, and particularly so which are of interest when considerwhen augumented by means of radio ing the application of radio to forestry communication. One can readily ap- protection, Outstanding among these preciate what a saving in time can be is the use of a quartz crystal for the control of frequency. By this means say 40 or 50 miles from headquarters the operation of a transmitter is simto the effect that a fire is raging in plified, and transmission is maintained certain area. Men and equipment within 25% of the allotted frequency. A receiver may be set for this particular frequency, and after the initial adjustments have been made, it will only afterwards be necessary to apply power thereto to hear the desired station. Furthermore, radio receivers with automatic volume control are now availin the quenching of the fire, and in able which ensue that the phenomena known as "fading" which has for a long time proved a handicap to radio reception, is reduced to a minimum.

Radio Telephone Use

In spite of the advances that have been made toward the simplifying of radio apparatus, a higher degree of intelligence is required for the operation of a line telephone. That this consideration is not a serious drawback to the use of radio can be seen from the increasing uses to which the radio telephone has been applied during the past few years. Radio has been successfully applied to the operation of aircraft, police, coastal and fireboats, and to a certain extent to forest patro

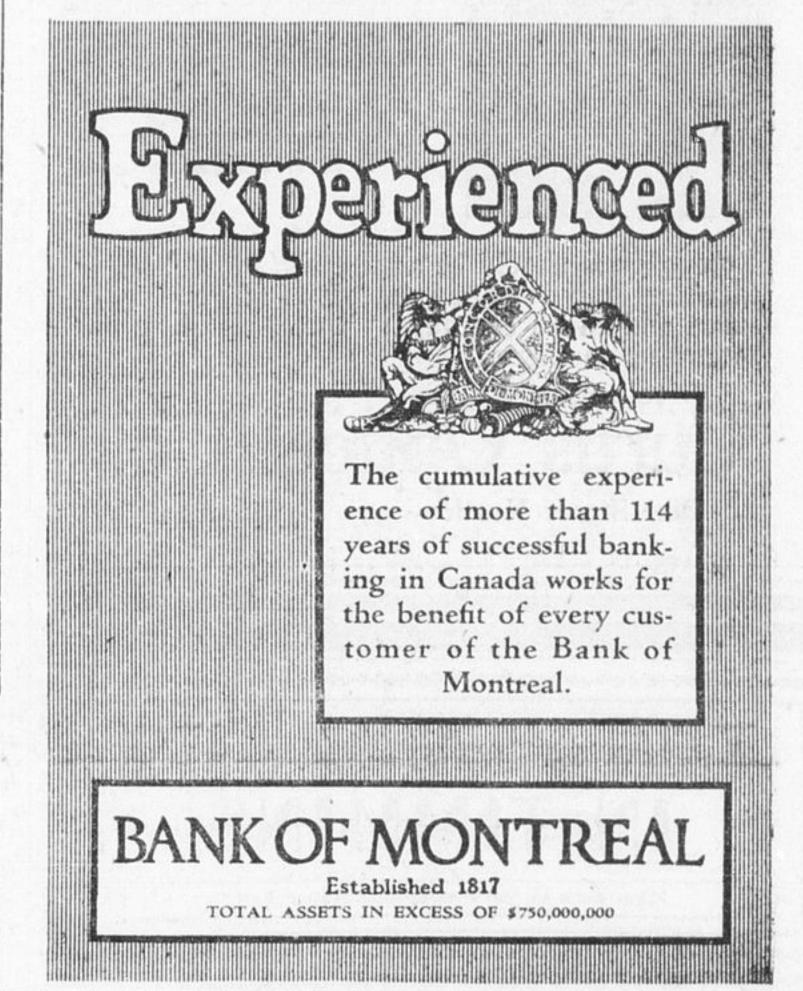
AGITATORS IN SUDBURY

On Thursday last Sudbury was the scene of another of those "fool parades", as they have been aptly named. The parade was staged by an organization calling itself the National Unemployed Workers' Association, though it includes very few unemployed. The organization is one sponsored by the same people that created annoyance and disorder in the North Land last summer. The parade, if such it could be called, took the form of an open air speakers at this meeting criticizing municipal, provincial and Dominion, governments in quite decided fashion. being apparently especial desire to have Canada stop the war in China. Apart

Sudbury Star:-One of Sudbury's oldest residents recalls that some 45 or wheat crop for 30 cents a bushel, and his oats for 10 cents a bushel. After velopment of Canada in a big way. There is a lot to be said for the theory that if the world can survive the present depression for another few months. we may look forward to another period of prosperity as great or greater than any we have ever seen.

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