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Wireless for Beginners

BY ANTHONY PYKE (Registered in Accordance with the Copyright Act).

ARTICLE III

Frequency and Wavelength. However rapidly electricity may, callength of the circuit, so if we wish relieve constipation; sweeten the a box, or six boxes for \$2.50, from The travel, actually at the speed of light, to increase the natural period, we may stomach and promote rest and natural Dr. Williams' Medicine Co., Brock (Three hundred million metres per do so by adding wire. Now, the fre- eleep. Such a medicine is Baby's Own ville, Ont. second) some time is required for a quency of an oscillating current is the Tablets. They are a gentle but of current to make the journey along the number of complete oscillations which ficient laxative; are absolutely guarwhe from A to B and back to A, how- occur per second. Obviously the long- anteed free from opiates or other inever short the wire may be. What er the wire, the longer the natural jurious drugs and may be given to the the human senses regard as "instan- period and the lower the frequency be youngest infant with perfect safety. taneous" is not so in reality. We cause the current oscillations occupy They banish constipation and indiges know well enough that the camera more time and there are consequently tion; break up colds and simple fevers shutter occupies a certain time in fewer per second. Now, let us sup- and give the baby that health and hapmaking a so-called instantaneous snap, pose that an oscillation is occurring piness which all children should have. because we can adjust the shutter to in A. B. As the current flows from A They are sold by medicine dealers or give exposures of various fractions of to B, the ether is strained in one directory mail at 25 cents a box from The a recond. And so, in considering the tion, which direction is reversed when Dr. Williams' Medicine Co., Brockpassage of an electric current along the current flows back to A. Each ville, Ont. a conductor we must not call it in- complete oscillation, then, strains the stantaneous merely because our ether first one way and then the other. senses cannot associate such sudden Two such strains produce one wave in movement with time. If A B is ten the ether, the complete wave having feet long, then, the current will take a hump and a hollow, like an S on its a certain time to make its journey, side. The wavelength is the length and if the length of A B is increased of an imaginary straight line joining to twenty feet, then the current will the two extreme ends, or if a number take longer, though not necessarily of waves follow each other in a group twice as long, for reasons which need or train, the wavelength is the length

- of an imaginary straight line joining two successive humps or two successive hollows. We shall consider wave groups in a future article, confining our attention for the present to a about the necessity of passing re- simply margarine, according to the zette," "The Trafi," etc. light. Here again, we must not forget there should be any anxiety about this you see from butter, which contains era time elaspes between the commence- important point that must be known. milk or cream. head and tail, will be increased if the of butter.

Surrounding and, indeed. nameating the conductor A. B. is the ether. We might imagine this ether to be punched, first in one direction by the rapid flight of current from A to B, and then in the opposite direction by ly, we may say that the length of the question, what is butter Here is and the silver-skin which contains the the return of the current to A. As a ether wave may be increased by add- what butter is: It is the substance precious vitamine thrown away with punched with a stick, so we may sunpose the ether to be set rippling when ccurse, but this article thould help us both, with or without salt or other and hence lacking in food value. which transmit short waves tup to ded coloring matter.

punched with electric currents. not be dealt with here. Speaking gen- 200 metres) employ shorter aerials Mangarine includes all substances, tion of the lack of vitamines in oleoerally, then, the time of one oscillathan the commercial stations, which whether compounds or otherwise, pre-margarine. For experimental purtion of current (A to B and back to A) transmit longer waves (semetimes ex- pared in imitation of butter, and poses a number of guinea pigs and in a circuit increases with the electriceeding 20,000 metres)

Buffalo for England. A pair of buffalo from the great

Canadian herd in Buffalo Park, Wainwright, Alberta, will be shipped to Eingland early this fall for the purpose of introducing new blood into the herd in the Zoological Gardens at Regent's Thousands in This Condition Park. The shipment will probably go east late this month and will be accompanied by an attendant who will place the animals on board ship.

The only herd of buffalo of any size in England is that owned by the Duke of Bedford at Woburn Park, containing about sixty animals. Buffalo were first introduced into the Old Country in 1891 when ten full grown animals were shipped by Colonel C. J. Jones, familiarly known as "Buffalo Jones," from his own herd at McCook, Nebraska, to C. J. Leland.

Some of these afterwards came into the possession of the Duke of Bedford and were added to by purchases from Cel Goodnight and Carl Hagenback. The shipment of buffalo from the Canadian herd at Wainwright this fall will be the second of its kind to Great Britain. Late in 1913, at the instance

of the late Lord Strathcona, a donation of two three-year-old bison was made to the Royal Zoological Society of Ireland to be placed in the Dublin creased to five. Loans of buffalo to the Zoological collections in various Canadian cities under a bond guaranteeing adequate provision for the health and maintenance of the ani-

A GENTLE LAXATIVE

your little ones well and happy; whegrowing child is to keep their bowels felt like a new woman, had gained in Scoutmasters shall originate with the stomach. The most necessary and trial." the best medicine for little ones is a You can get these pills through any gentle laxative something that will medicine dealer or by mail at 50 cents

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bring the blood back to strength, and

once the blood regains its healthy

quality the entire body will soon show

W. Smith. Miscouche, P.E.I., who

says: - "I was very much broken down

of live stock-cattle, horses, and sheep belonging to settlers and ranchers in the Prairie Provinces, graze each season on Dominion forest reserves. The grazing is regulated so as to give all stock owners fair play and to utilize all the pastures to the fullest extent without injurying them by overgrazing.

Minard's Liniment for sale everywhere

HEALTH EDUCATION

BY DR. J. J. MIDDLETON Provincial Board of Health, Ontario

Dr. Middleton will be glad to answer questions on Public Health matters through this column. Address him at Spadina House, Spadina

From the beginning of its formation, oleomargazine, so that it may be de- from animal fats, and vegetable oils sistant Scoutmaster in another troop the wave radiates from the conductor finitely distinguished from butter, such as cocoa-mut, cotton seed, sesame, in all directions and at the speed of The average person may wonder why earth mut, etc. In this it differs as ference with experienced Scout work that, infinitesimal as it is, a certain distinction, but back of it is a very no other fat than that derived from

have actually to be considered, of exclusively from milk or cream, or thus be entirely devoid of vitamine, to understand why amateur stations, preservation, and with or without ad- A recent issue of the Journal of

whether mixed with butter or not.

ment and conclusion of the wave's for- This is the nutrition that the oleomar- Now the question is why should mation, and that a certain distance is garine contains, and how if differs there be any worry as to whether travelled by the "head" of the wave from that which butter contains, oleomargarine is labelled oleomargar before the "tail" is completed. Since Supposing I ask anyone what butter ine or just butter. It is for this reaone wave is produced by one complete is; the answer would in nine cases son: Butter contains vitamines, the oscillation of current in the conductor out of ten be wrong. I mean "wrong" essential food factors that bring about we can see that the length of the in the legal sense, that is, in discuss- healthy agrowth and prevent the outwave, i. e. the distance between its ing in a court of law the constituents break of diseases like scurvy and rickets. The vitamines are present in time required to produce the oscilla. We all know that butter is what re- the butter fat obtained from milk. In tion is increased. It has already been sults when we churn milk till the fat the case of oleomargarine, however, the shown that the natural period of os- globules coalesce and float on the sur- fat may be entirely derived from cillation may be extended by lengthen- face of the milk. That, however, is vegetable oils which contain no vitaing the conductor, so, speaking broad not the correct way of answering the mine, the oil having been squeezed out ing wire to the circuit. Other things commonly known as butter, and made the shell. The oleomargarine can

> Pediatrics gives a striking illustrarats were given this substance with well-cooked food, no fresh milk, fruit, vegetables or other vitamine-containing ingredients being allowed. Invariably these animals died, although other and similar animals fed on ex- Hot Sulphur Springs. The previous actly the same diet except that butter was substituted for the oleomer-

garine, fived and thrived. There is justification therefore, for week ending July 30 was 2,110. The those who urge the passage of strict great majority of these visitors are regulations with respect to oleomar-motorists from the Prairie Provinces. garine, so that this product should though cars have been noticed from have a standard color other than California and the Western States and the color of butter, and that even as far east as Michigan and Onthe container of each | package of tario. oleomargarine should be labelled such, in order that it may not be confused with butter.

From the standpoint of nutrition is so far as vitamines are concerned, oleomargarine should not be presented in such a shape, appearance or actually getting butter or an article for colic and toothache.

with the same food value as butter. In England a summons is issued against anyone caught selling margarine without a specific label bearing the word "Margarine" on the paper covering the package. In the interes of pure food legislation this distinction should also be required by law in

The Forestry Branch of the Department of the Interior, Canada, has forest experiment stations at Petawawa, Ontario, and at Lake Edward, Quebec, where the growth of forests and the referestation of cut-over and burned-over areas are being studied to provide data to promote the conserva-



In our article last week we described ills in the hope that the indisposition the place of the "parent institution," is only temporary and will be outsuch as a Church, School or Club, in grown in time. Often such illnesses Scouting, and outlined the functions are not serious enough to require the of the Troop Committee of adult citiattention of a doctor, but will respond zens appointed by the institution takto intelligent home treatment if a reing up Scout work for its boys. One liable remedy is used. Women, busy of the duties of this Committee is the selection of the Scoutmaster and one young women in offices or stores, or or more Assistant Scoutmasters to digirls studying hard in school, easily rect the work of the Troop. fall a prey to that condition of bloodlessness known as anaemia. The

The success of the Boy Scout pro gramme is dependent upon the Scoutmaster. His conception of the rules, will restore the elements needed to spirit and purpose of Scouting and the quality of his leadership control the possibilities for practical results in at any good drugglet. the work for boys. For this reason the benefit. Among the many who the greatest care should be exercised have found benefit through the use of by all concerned in recommending Dr. Williams' Pink Pills is Mrs. Albert men for these appointments.

A Scoutmaster shall be at least twenty-one years of age and shall be in health, had pains in the region of chosen because of good moral charmy heart, and was so short of breath acter and his interest in work for that if I went upstairs I would have boys. He need not be an expert in all to lie down as soon as I reached the of the Scout activities, but should be top. Then a strange nervous twitch- able to command the respect of the ing of the muscles took possession of boys in the management of his troop, me, and every muscle in my body delegate as much of his duties as poswould apparently be twitching. I be sible to assistants and Patrol Leaders came very emaciated, and my family and make use of different local exwere much alarmed as to my condi- perts available in the various activition. At this time I read an article in ties included in the Scouting proour home paper concerning Dr. Wil- grame. He, with the Troop Commit itams' Pink Pills and decided to give tee, is responsible for the general pro-Mothers—the surest way of keeping them a trial. The result was that in gramme and supervision of the work a short time I felt much improved, of the Troop. All recommendations ther it is the new-born babe or the and under further use of the pills I for the registration of men to serve as weight and was in every way better. Troop Committee and be submitted teenths of all childhood aiments are I would urge anyone afflicted as I was on blanks provided for that purpose. the result of clogged bowels and sour to give Dr. Williams' Pink Pills a In communities supervised by Local Associations, the recommendation of the Troop Committee shall be approved by the Local Association.

Assistant Scoutmasters.

Each Troop should have one of more Assistant Scoutmasters. Assist ant Scoutmasters shall be at least eighteen years of age and may be selected and promoted because of their experience as members in a troop and efficiency in Scouting. An Assistant Scoutmaster performs such duties as may be assigned to him by the Scoutmaster. All recommendations for registration as Assistant Scoutmasters originate with the Scoutmaster and the Troop Committee and require the approval of the Local Association if there be such, having jurisdiction of the Troop for which the Scoutmaster is registered

Training the Scoutmaster.

The new Scoutmaster must secure raining from some source. 1. From the Training Course of the Local Association having jurisdiction over his troop.

2. Or from self-help reading the literature the Boy Scout Association nakes available in the way of hand-We hear and read a lot these days But what s of the mangarine? It is books, pamphlets, "Headquarters Ga

4. Or from personal contact and con-

5. Or (as many, and perhaps most men have secured it) from the teachings of his own experience.

This last should be supplemented. What the new Scoutmaster "is" is of course more vital than what he 'knows." Yet the more he knows about his important and pleasant service, the greater the returns that may be expected.

(To be continued next week).

Canadian Visitors to the National Parks.

The extent to which Canadians themselves are making use of the Canadian National Parks is shown by the registrations of the past month at

During July, 1.517 licenses were issued to cars entering the National Park. The highest previous record was in July, 1921, when 1,084 licenses were issued. The week ending July 31 broke the weekly record with 502 licenses, exceeding the previous highest week by over 100 cars. The Superintendent reports that on July 1 and 2 there were 1,956 bathers in the Govweek-end record was 965 or less than one-half the total for this year. The total number of bathers during the

At the Yarmouth Y.M.C.A. Boys Camp, held at Tusket Falls in August, color as to attempt to deceive pur- I found Minard's Liniment most benechasers into the belief that they are ficial for sunburn, an immediate relief

The rotator itself is fitted with care fully-adjusted blades which make it revolve at a known number of revolutions per mile. This is attached to a dial on the taffrail of the ship by a line which is not expected to kink in any circumstances, and the number of revolutions is thus indicated on board. From that it is quite easy to judge the speed of the ship, but allowance has to be made for tide and many other considerations.

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John St., N. Hamilton, Ontario, says: "My wife was in a mighty had state of health. She could eat very little of anything, her back burt badly and she had frequent attacks of awful sick headache. Three bottles of Tanlac have made her healthy and strong

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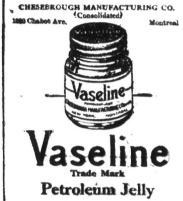
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owder dusted on the skin

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