## Canadian Specialist May Curb Mighty Mississippi Floods

Country Boy's Knowledge That "Willow Buried in Ground Will Sprout" Successfully Applied to the Prevention of Erosion

Toronto, Ont.-Battling with ram of the poles are placed in the river

hones within two or three years to height of three feet. screen the mud banks of sections of Erosion Problems Solved that river with a willow thicket which

Phis specialist in erosion and flood control has gained an international reputation for his process which he been solved." designed in 1922. During a recent interview by the Christian Science Mr. Scheifele mentioned results atin the past few years he had in spected various sections of the Mississippi, Missouri and Illinois Rivers. life of these timber walls is short.

"If the domestic highland white willow was planted on the foreshore and on the river slope of these levees and on the river slope of these levees Bids, were also asked on stone rip by the angular pole system, a perma-nent protection against wave and rapping. The lowest bid way \$19 nent protection against wave and rapping to the lowest bid way \$19 river scour would be ipplied," states per lin. ft. of bank." the "Willow King."

#### Good Results Obtainable

er in the States of lowa. Minnesota uncle and a cousin placing a defense soft cloth, allow to remain on

His successful battles against erosion so Mr. Scheifele decided to improve in Canada include willow planting on their experiments. on the Gatineau River for the Domin- "I was only 20 then and possessed River for the Dominion Government creased my working capital by selling and the municipality of Longueuil; willows to farmers in western On- has become slightly faded. Extend to be St. Lawrence River protection for the Quebec Provincial Highways Department; river protection for the Ontario Highways Department, and Highways Department, and he needed for further experiments.

Canal bank work for the Ontario The willow will reclaim a desolution of the Contario Canal bank work for the Ontario Canal Hydro Electric Power Commission. In ate piece of land," concluded the 'Wil-1922 the Ontario Government made a low King. After the willow has grant of \$5,000 to Mr. Scheifele for solidified the soil through the interwork accomplished in that province.

"My process is simple." stated Mr. and related trees can be successfully far less important than economics." Scheifele, "The chief material used is planted on reclaimed land. The wil- Edward A. Filenc. the willow pole or log. Nature low grows at an astounding rate. As plants its trees to grow vertically, but regards beauty, I claim that the wil-I plant mine to grow horizontally. On low is one of the most beautiful trees the face of a bank we dig trenches in existence. After you have listed deep enough to bury a log of six to all the ways in which it can be made 10 Inches diameter, and 40 feet in to serve humanity, you will be ready angle of 45 degrees, and succeeding of the most useful trees," concluded ones at a distance beyond it of four Mr. Scheifele .- From "The Christian feet. We see to it that the butts Science Monitor".

**Engine Tested** 

Condenser Smaller Than Ra-

diator and Requires Less

Water Than Older

Type

by the use of steam has been success-

fully tried here in secret flying tests

carried out under the direction of the

British Air Ministry. In addition to

the usual speed and climbing tests, the

trials included an elaborate demon-

stration of acrial acrobatics, indicat-

ing that the system is being studied

with an eye to incorporating it in

Water-cooled airplanes usually en-

counter criticism because of the

weight of the water which must be

carried and the vulnerability of the

rlumbing and the large radiator in air

After two years of research the

system has been developed to its final

design by the Fairey Aviation ompany

A steam-cooled engine, it is reported

reeds much less water than the old

type water-cooled engine. The con-

densers employed are smaller than the

water radiator, and little damage

would be done if the system should be

thin wisp of steam. Similar damage to a water-cooled system would be fol-

plerced by a bullet. The puncture

military planes.

fighting.

of the engine.

London -- Cooling airplane engines

in British Plane

Steam-Cooled

pageous rivers that will not behave, bottom, or beach at the toe of the and lake floods which lick up lands inclined bank. This method enables and crops, by the protection of lake the willow log to draw moisture from shores, river, and highway banks, the soil near the river. In its deterwith the method of angular tree plant, mination to live, the willow loses no ing, based on the country boy's knowl- time in sending its rootlets down into edge "that a piece of willow buried the moist earth for food, which it in the ground will sprout"-is the life's stores against springtime, when it work of Oliver S. Scheifele, known as pushes the ingredients upward and the "Willow-King," of Waterloo, Oat. butward in the form of luxuriant tree He has recently returned from a growth. I have frequently seem its three weeks' trip down the Mississippi roots go down 15 feet in a year, and River in the interest of the U.S. Fed. even when planted on shifting sand, eral and State governments, and its tree growth frequently attains a

"I have adapted the amazing life will guide the channel in the way it force of the willow to a large scale engineering process, by means of which a score of erosion problems in the United States and Canada have

Speaking of the cost of his process Monitor representative he stated that tained for the Ontario Department of Highways near St. Thomas. The spring, flood of 1925 eroded the river sissippi. Missouri and Illinois Rivers, to observe flood results on the hundreds of miles of earth leves along their banks. Wherever dense tree growth does not exist between river bank and levees, wave action on these exposed sections of levees jotten causes a break. On the lower Miscourie wing in the bridge. An elaborate concrete wing dam was contemplated and finally the angular willow planting system was applied at the small cost of \$2 per lin. ft. of rivers limited in the New York with the city sissippi in the New Orleans district, of Buffalo awarded me a contract miles of expensive lumber wait have amounting to \$27,000," stated the been built along the front of the "Willow King." "It was based at \$4 per lin. ft. of river bank. In 1927 I

Capitalizing An Idea. The Natural Process Engineering eradicate dirt. A teaspoonful to each Company, of which Mr. Scheifele is gallon of water will be sufficient. "Some engineers are of the opinion head, like many other successful or . When it is inconvenient to use the that tree growth on levees has some ganizations, commenced on an idea usual remedies for removing stains bad effects," said Mr. Scheifele, "but which later was capitalized. One day from materials, a little glycerine may if the right species, of willow, the on his father's farm at Conestogo, often be used with advantage. Apply same variety that almost every farm. Ontario, young Scheifele watched an to the affected parts with a pad of woman and the Dakotas has planted for shell of trees against the angry freshets material for a few minutes, the ter and wood supply were used, good of the Conestogo River. They first wash in the usual way. built earthen levees and then tried Since 1922 Mr. Scheifele has done a to make them immune to floods by while holling considerably less sugar vast amount of flood control work in planting willows upright in them. will be required. It also helps to says. both Canada and the United States. Their efforts were fairly successful, prevent the formation of scum.

ion Government; on the Ottawa only \$200 capital," he said. "I in-

This trench is dug at an to admit that the willow is also one

Echoes

Echoes of Summer reach my heart to-

Like mystic music, borne from the far

Elusive strains like wind o'er waving

Bird voices vibrant in the summer

Sweet spectral music from days dead

Thin, phantom strains that but the

Faintly the echoes come, then die

For Summer is a dream of yesterday;

No more she strays o'er field and hill

Where Autumn flaunts her robes of

In vain we seek for Summer's robes of

She's passed beyond the range of hu

Echoes of footsteps that have passed

A PARADE OF COLORS

color for every course is winning

Glassware which uses a different

"More complex and intense intellec-

tual efforts mean a fuller and richer

only echoes reach the heart to

-Helen B. Anderson

away;

wheat,

heat.

away.

and plain

light-

for aye.

favor with many people.

. crimson stain;

and dear.

heart can hear.



A Quick Disguise.

Fast

than to

of love

for fac

Bananas In Foggy England

ginning of strength.

s is good news."

families kept out of them.

#### Glycerine Helps

If rain water is not available for washing woollens, flannels and delicte lingerie, add a little glycerine 3 water. This not only renders the ater delightfully soft, but helps

If a little glycerine is added to fruit tablespoonful of glycerine to every three pounds of fruit is the right pro portion.

Try a little glycerine for freshening the cover of a black umbrella that the cover and apply to the outside of a car. the material with a pad of soft cloth.

"Experience and its memories ar better than philosophy."-Dr.

"As causes for wars or insurances

Wisdom in Wit **New Competition** riends are always slow to dis

a man develops into a lia Man by writing love letters. Airplane Becoming Real The girl who looks good isn't neces, Competitor of Railroad ood-looking. sarily A confession of weakness is the be-

Atlantic City.-A marked increased an't convince an editor that in train speeds with added attention to the comfort and convenience of nian has the nerve to tell a passengers' accommodation will be what the mirror tells her. the answer of the railroads to com-Nothing pleases a woman more petition of automobiles and air-

be misunderstood by man. planes. eally big man is measured by This impending development, dedoes and not by what he tails of which are already being planned by rail systems of this continquarrels wouldn't be so bad, ent, along with the important part played by Canadian and United States people have good memories transportation companies in support about the favors you have ing the social and moral structure o nly time the modern girl tries here recently by Sir Henry Thornton. angel is when she is driving chairman and president of the Canadian National Railwys, in his ddress arest way to happiness is to before the seventy-fifth annual dinner

busy that you have no time of the American Association of Passenger Traffic Officers. s may be trumps in the same "A new competitor is challenging but it helps some people 'to the railroads, said Sir Henry to his international audience of traffic leaders, in reference to the airplne. "We ill have to meet that by incre "Have you a poor memory speed and with the safety facilities at s?" He: "Yes-poor, faces."

our disposal. The time of land travel between London and Paris already compares measurably with that by air. At the same time we are confronted with the mecessity of making travel by rail more agreeable and comfortable by attention to proper heating and cooling, and progress

along this line is rapidly being made. Train Requirements "Train fravellers should have facilities reasonably equivalent to those provided by ocean liners when undertaking a journey across the contin-

ent," declared Sir Henry. Shower baths, moving pictures, ymnasiums, are among the requirenents of this sort now being supplied y some transcontinental trains.

Dealing with the function of the reat railroad organization as a force for law, order and social well-being. Sir Henry pointed out that "by good vill, sympathy, recognition of ecoomic principles, by a desire to serve, ve, in the transportation industry, ire making notable contributions to our respective countries. By compliance with the rules of our own roups, we encourage obedience to he laws of our countries."

## Care of Plants

After weeks of hot and humid! reather, potted by begins to show drying leaves and looks wilted, a condition that a thorough soaking does not always relieve. This means that the lvy needs fertilizer or plant food. Repot with as much fresh earth around the roots as is possible without shocking the plant; and add a sensible amount of one of the good plant foods on the market. Better of my purchases tharged. to fertilize plants once a month than to give them an ove lose. Bananas of excellent quality have been successfully grown in England by A sure proof of soil deficiency in Henry Spencer of Irven Hill, Wockford, Essex. He has experimented for

the window is the sellowed drooping leaves of ferno: iv a garaniums, or books by which the printers have lost. whatever plants are racd.

## Of Cancer, Specialist Warns Cancer Can Be Cured If Taker In Time Ontario's New

lation.

nowned specialist, says, "because

beauty-saving vanity makes them keep

their skins scrupulously clean." Doubt-

loss in time physicians will learn how

ed, just as it it possible to day to avert

attacks of smallpox by vaccination,

and of diphtheria by the toxold treat-

ment, and of typhold fever by innocu-

But even meanwhile they have as

suredly found out how it can be cured!

People do not realize this. We look

upon this disease as being utterly

hopeless. We know that almost 8,000

Canadian's die of it every year. Wo

do not know that possibly 4,000 or

"Learn to fear the beginning and not

the end of cancer," one of the world's

greatest authorities has said. For it

you fear the beginning you will have

yourself, examined by a physician at

the first sign of a little tumor or no

dale, a wart, a mole, a sore spot or red

or sgaly area in the skin, a pigmented

pled the pigmented mole. Then

there are lumps that can be felt, and

lymps in the breasts of women over

enty five. All of these things, and

digastion, colle, nausea, unusual dis-

charges from the ear, or nose, or from

ally other outlet of the body should be

il vestigated, for all of them, or any,

may breathe warnings of cancer, So

may a loss of function, entailing a

the anatomy.

r limitation of motion of -

icians say that if knyone no

hese simple and harmless signs

inselves would submit promptly

sary, to radium or surgical treat

the death rate from fancer

come cambling down. In lact,

of being examined by your

once a sear in order that his

eye may detect the advance of

conditions and remedy the

If he giving yourself the hes

routing, protection against

For cancer taken early

can be successfully cared in

mably large number of cases

at is one of the things that the

Government had, in mind, i

g its morey to a great orga

follow the modern, up to date

gramination and if it then proved

an elevated pigmented area

are most serious, especially

more of them could be saved!

Health Minister Tells of Government's Plans

Fear Beginning, Not the End

Note:—This is the first of a series of type—of the skin—may also be preweekly articles on HEALTH which vented by cleanliness. "Beautiful weare being written exclusively for mon rarely have cancer of the skin," your paper by the Canadian Social Dr. Joseph Colt Bloodgood, of Johns Hygiene Council. Watch for future Hopkins University, and a world-rearticles, and let the editor know how

The recent announcement that the Ontario Government plans to spend much money combatting the growing the disease, generally, may be preventmenace of cancer brings this fearful and interesting disease more sharply to the attention of Ontarians.

What is cancer? Can it be prevent ed? Can it be cured? Just what will the plans of the Ontario Govern ment mean to the average Ontarian urban or rural? How does the new minister of Health, Dr. Robb, inter pret these plans insofar as their infportance to the average citizen is con cerned? To answer the last question first, Dr. Robb was interviewed. "It is the hope and ambition of th

Government," the new minister stated "to come to the aid of those people who are not financially able to take advantage of the radiological treatment for cancer, and who need it We should like to see the day when every Ontario resident so unfortunate ly situated will be so cared for."

Now doctors do not entirely know what cancer really is, any more than electrical engineers know what electricity is. But just as the engineers can do-great things with that mysteri ous force, so doctors can do great things in combatting this mysterious

They know, for example, that hronic irritation can injuduce it Wilerever two dissimilar substances meeting the human body, as for ex-Facing Railways ample, the hard teeth and the sof mouth-tissues, cancer is a very possible result. Modern dentistry, by making ragged teeth smooth, and teaching us to keep our teeth clean so that irritating substances do not collect upon their surfaces to further punish the soft mouth-tissue, has done much to cut down month cancer.

When a certain spot on your body pecomes 'cancerous, the cancer cells leave this area, and by wandering, of infiltrating the surrounding tissues are carried throughout the body. And

ike a host of ravaging rebels, they ar able to grow and destroy whereve We have seen that one Type of can cer-cancer of the mouth-may fre-

quently be prevented by prevention of the two countries, was emphasized irritation and uncleanness. Another in a lack upon the disease. System of Roads

## Mations of World

Proposal Highways Through Wild Indian Territory

To Check Pathans

Simla, India.—Construction of la extensive system of modern roads through the wild and mountainous tele ritory in the northwest frontier province, in order to permit speedy pen tration when necessary of territory belonging to the fierce Afridi tribels men, was foreshadowed in an official communique issued here recently.

The communique states that there are still leaders among the Afridis who are attempting to foment trouble with British authorities, and that the present situation cannot be considered normal despite absence recently of he ports of serious engagements. Construction of one of more for

fied posts to defend the new highways is also considered desirable. The whole scheme was to have be

discussed by the chief commissione of the district with the Afridis, but the communique says that though sum moned to a meeting they failed to re-



keep me putting my hand in my ket all the time." "All right, papa. I'll have the rest

Learning Learning hath gained most by -Tliomas Fuller.

# To Race in Air

to Build Modern Milionaire Donor of Prize to French Fliers is Backer

Barton.--Colonel William E. Laster \$25,000 prize which is to be to Dicudonne Coste and e Beilouté for their cross coan ht to Texas, announced before the recent American Legion tion that he had definite plans international air meet to be De Bourget Field in F: once lu ff 1931.

said he had been in conference L. Laurent Eynac, French Minis Air, and that they had forming dansifor the meet, which would speed and endurance tests. He had received the assurance of Britain, Canada, Germany, Portugal and the United that they would participate.

HOMELY ELEMENTS

solid, steady, dependable promen is based on certain home ients which are common to all g these are honesty, faith, ambiad courage. Toese four will be at the bottom of every rest

Bottle - How is your patient do frice his operation?" Dr. Kuite Ling. I think ho can afford, another fifte the 'year is out."



would result only in the escape of a life."-Oliver Wendell Holmes. MUTT AND JEFF— By BUD FISHER

shown with some of his specimen

lowed by a rapid loss of water and the plane would scon be deprived of its motive power through heat seizure The interest which the British Air Ministry has shown in this development and other recent aircraf. innovations indicates a new trend period. In a surprise raid the dreadnaughts were struck eight out of seventeen times by bombs launched from air-

## Household Pests

Roaclies will disappea: if you make a paste of boric acid powder and condensed milk then form into balls and place where these insects congregate. Water bugs will run away from kerosene so pour a small quantity down the drain pipe once or twice a

"Every advantage acquired in life has to be paid for in some way or other " - Count Keyserling.



four years and has found a soil which he believes ideal. Mr. Spencer is





In Plain Words-Mutt Lost Nothing.