

Plan to Harness Tide for Power

American Engineers Study Feasibility of Bay of Fundy Project.

St. John, N. B.—Much interest has been aroused throughout the Canadian maritime provinces, particularly in New Brunswick, by the proposed project to generate between 500,000 and 750,000 electrical horse power by harnessing the famous tides of the Bay of Fundy in two inlets near Eastport, Me. American hydraulic engineers investigating the feasibility of the project, pronounced it entirely practical from an engineering standpoint, adding that it presented one of the most promising developments in the electrical world in a decade.

The project is being sponsored by Dexter P. Cooper, American capitalist, who spent several weeks here recently in his interest. Mr. Cooper explained to members of the New Brunswick government at the time, that as soon as authority to begin with construction was obtained from Maine, application to proceed with the work would be made to the provincial and Dominion governments, as well as to the international joint waterways commission. Titles to certain lands on the New Brunswick side of the St. Croix river already have been searched for at the crown lands office in Fredericton, the provincial capital. A state-wide referendum is to be taken in Maine to decide whether the sale of power will be permitted outside the state, provided the project materializes.

Fix Cost at \$75,000,000.

The cost of harnessing the tides, Mr. Cooper estimates at \$75,000,000, the financing of which has already been assured. It would require at least five years before actual power could be supplied after the work was started, Mr. Cooper said. When completed, however, a maximum of 750,000 horse power could be produced annually, enough and to spare for the entire New England states. Electric power at hitherto unheard-of rates would be available all over the provinces, he declared, and, according to engineers, could be transmitted as far west as Boston, Mass.

The Bay of Fundy is noted for having the highest and strongest tides in the world. These are caused by the peculiar submarine topography and the wedge shape of the adjacent shores. At St. John the tides rise 25 feet, causing on the lower St. John river the only natural phenomenon of its kind in existence, a reversible waterfall; that is to say, when the tide is coming in, the falls, which are some forty feet high, "drop" upstream, and when the tide is going out they "drop" downstream. At the end of the Bay of Fundy, between Nova Scotia and New Brunswick, the tide is the highest on earth, at slack water measuring between 60 and 70 feet. At Moncton, on Chignecto bay, the incoming tide travels with such great velocity that it attains a "hore" of six feet.

Coast Vessels' Graveyard.

Its fierce tides and storms, treacherous reefs and shoals, steep rocky coast and frequent heavy fogs make the Bay of Fundy one of the most perilous passages known to mariners. Yearly, dozens of coasting vessels and fishing schooners bound for the Grand Banks of Newfoundland are lost here. The early French explorers and missionaries have described its fury and turbulence when in temper, and it was known to be the bane of the simple Acadian peasants who peopled its pleasant shores some two centuries ago. Tales of havoc wrought by its great winds and tide-rips still live in the legendary lore of the descendants of the Micmac and Maliseet Indians found throughout this part of Canada today.

Plans and specifications for utilizing the potential power of the Fundy tides have been completed. The two inlets which have been selected are known as Passamaquoddy bay and Cobscook bay. The first is designated as the upper pool and the second as the lower pool. Both inlets are V-shaped, with their narrow necks, almost stopped by small island groups, meeting at Eastport.

At the mouth of the upper pool,

which contains about 100 square miles of water, the plans call for the erection of a sea wall 4,000 feet long and 70 feet high. The wall is to be provided with 33 sluice gates. The mouth of the lower pool, containing 50 square miles of water, is to be closed by a similar gate, 2,400 feet long.

Between the two pools a separating wall 3,600 feet in length will be built on which power plants are to be located.

Theory of Operation.

The theory is this: The gates of the upper pool are to be opened only during flood tides, while the gates of the lower pool are to be opened only during ebb tides. This, according to the plans, will keep a supply of water in the upper pool, while the lower pool will be constantly emptied. The fall of the water from the upper pool through the turbines into the lower pool will create a continuous downfall regardless of whether the tides are falling or rising.

Several years ago when the idea of harnessing the tides was first originated, it was received with derision. To the lay mind it appeared altogether too visionary. The magnitude of the project as then set down was overwhelming even to experts in hydro electric development. Nothing of the kind had ever been undertaken. But since the idea received the sanction of some of the foremost men in the profession, experts and laymen alike have reversed their attitudes and opinions. Man has bent the most potent forces of nature to his will before; many are hopeful now that he will be able to wrest from the tides in the Bay of Fundy some small measure of that incalculable power which is still the plaything of the moon in the scheme of the universe.

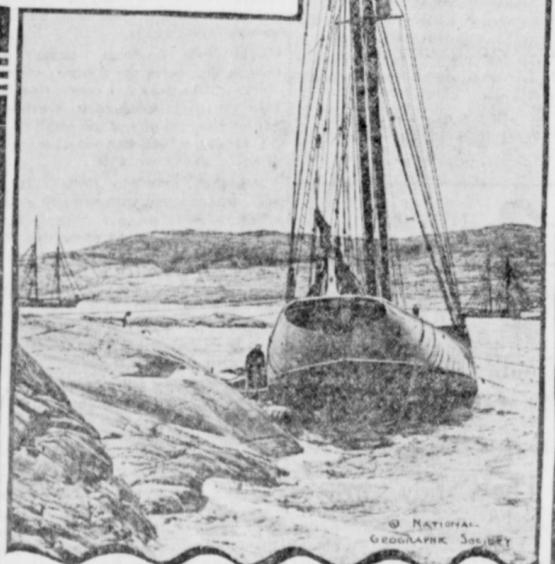
Must Prove Age to Drive Automobile in New York

New York.—Youths who desire licenses to drive autos hereafter must file birth certificates to show their real ages.

Commissioner Charles A. Hartnett, head of the state motor vehicle bureau, issued an order that all applicants between the ages of eighteen and twenty-one must file birth certificates with their applications, effective September 1. Formerly birth certificates were demanded only in cases where the applicant stated that he was be-

Putting New Propeller on Bowdoin

The Bowdoin, flagship of the MacMillan polar expedition, damaged her propeller in the early skirmishes with ice and heavy seas. It was necessary to put into Hopedale, Labrador, where the cargo was shifted to raise the stern and a new propeller was installed.



NOVEL MOTOR CAR



George C. Snyder, a New York engineer, is pictured here demonstrating his new machine, a motorless car which is propelled by the weight of the rider. It burns no gasoline, has no gear shifts and is capable of making 30 miles an hour.

tween the ages of eighteen and twenty-one.

William M. Arnstein, executive assistant to Commissioner Hartnett, in explaining the new order, said:

"This order is intended to put a check on the so-called automobile schools, which purport to teach persons to drive cars and which will not stop at criminal means to obtain drivers' licenses for their pupils. In one case it was shown that a boy, not yet seventeen, had attended one of these schools, and obtained a driver's license."

Mr. Arnstein added that it is an easy matter for a husky youth of sixteen or seventeen to pose as more than twenty-one, and thus avoid having to produce a birth certificate, and added that the practice is a common one in New York.

Sees Great Mental Gains

London.—That the day is coming when men and women will be intellectual giants in comparison to the present generation is the opinion of Dr. J. Shaw Bolton, who spoke before the Medico-Psychological association. He says that few persons use the marvelous organisms of the mind to any potential extent. He believes humanity is still in an infantile stage.

IMPROVED UNIFORM INTERNATIONAL

Sunday School Lesson

(By REV. P. B. FITZWATER, D.D., Dean of the Evening School, Moody Bible Institute of Chicago.)
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Lesson for October 18

PAUL WRITES TO THE CORINTHIANS

LESSON TEXT—1 Cor. 13:1-13.
GOLDEN TEXT—"Now abideth faith, hope, charity, these three; but the greatest of these is charity."—1 Cor. 13:13.
PRIMARY TOPIC—What Love Does.
JUNIOR TOPIC—Working Together.
INTERMEDIATE AND SENIOR TOPIC—The Greatest Thing in the World.
YOUNG PEOPLE AND ADULT TOPIC—Love, the Hope of the World.

The occasion of the writing of this epistle was:

1. The existence of rival factions contending each other. Some were for Paul; some for Apollos; some for Peter, and some for Christ. This factious spirit was threatening the disruption of the church.
2. Their failure to carry out church discipline.
3. Their going to law with each other.
4. Indifference to gross immorality.
5. Letters requesting information as to:
 - a. Marriage and divorce.
 - b. Food connected with sacrifices and festivals.
 - c. The exercise of spiritual gifts.
 6. Disorder in the public assemblies.
 7. The presence in the church of certain ones who denied the resurrection of the dead.

1. The Pre-eminence of Love (v. 1-3).

It transcends:
1. Speaking With Tongues (v. 1).
For men to possess the loftiest eloquence and be lacking in love is to be as booming brass or a clanking cymbal.
2. The Gift of Prophecy (v. 2).
To be able to penetrate the mystery of nature and Providence is good, but to love is better.

3. Faith of the Most Vigorous Kind (v. 2).

Even though one should have sufficient vital faith as to remove mountains it is of less value than love.

4. Philanthropy of the Most Generous Sort (v. 3).

Even though one should have such a spirit of altruism as to be moved to surrender all earthly goods for the sake of the poor, unless actuated by love, he would have no recognition before God.

11. The Attributes of Love (v. 4-7).

1. It is Long-Suffering and Is Kind (v. 4).
It means not only to bear long, but to be kind all the while.
2. It is Free From Envy (v. 4).
Those who are controlled by love are entirely free from the spirit of envy because of the superior worth and success of others.
3. It is Free From Boasting and Vanity (v. 4).
Love strives to do good to all without seeking admiration and applause.
4. It is Decorous (v. 5).
Love is always polite and mannerly; knows how to behave at all times.
5. It is Unselfish (v. 5).
It is always seeking the good of others while forgetful of self.
6. It Does Not Give Way to Passion (v. 5).
It is not quick tempered.
7. It Takes No Delight in Evil (v. 5-6).
It does not impute evil motives to others and is free from suspicion. Love has no sympathy with that which is evil.
8. It Bears All Things (v. 7).
That is, it incens itself in the gracious mantle of love and shuts out all evil.

9. Love Is Trustful (v. 7).

It looks into the future with confidence.

10. Love Is Hopeful (v. 7).

It seizes the things of the future, brings them into the present and appropriates them for its use.

11. Love Is Firm (v. 7).

It intelligently sets its attention to things that are right, and with unvarying strength, holds fast.

III. The Permanence of Love (v. 8-13).

1. It Outlasts Prophecy (v. 8).
Prophecy in the Scriptures means both a foretelling of events and the teaching of the Word of God.

2. It Outlasts Speaking With Tongues (v. 8).
The race once spoke the same language, but as judgment for sin and rebellion, God brought confusion and caused the people to speak many tongues.

3. It Outlasts Knowledge (v. 8).
The knowledge we now have is only relative, but the day is coming when the relative knowledge shall be done away by the coming in of a wider and nobler intelligence.

Seed Grain

Cast forth thy act, thy word, into the ever living, ever working universe; it is a seed grain that cannot die; unnoticed today, it will be found flourishing as a banyan grove after a thousand years.—Thomas Carlyle.

Fear of Making Mistakes

Some of us know what it is to be miserably afraid of making mistakes in our work. How graciously He meets this with "I will direct their work in truth."—Frances R. Havergal.



NEEDED IDENTIFYING

They sat at table, he and she, and gazed into each other's eyes, what time he mechanically consumed the food which was set before him.
"Ah," she said, "I am glad you like it." Mother says that there are only two things I can make properly—potato salad and marmalade tart."
"Indeed," said he, "and which is this?"—Lustige Blaetter, Berlin.

Positive Proof

"The missus wasn't feeling very well this morning," remarked the book-keeper to the cashier in the office downtown. "Guess I'll call her up after a while."
"How's the wife?" asked the cashier later.
"Oh, she's all right now. I called up and the line was busy."

A Bit of Talk

The partners, Hirsch and Reiss, went to the office one morning and found that burglars had attacked the safe without being able to open it.
"What a disappointment they must have had," said Hirsch.
"Yes, but not so bad as it would have been if they had opened it," replied Reiss.

NEEDED BADLY



Traveler—Do the natives of that island need a missionary?
Captain—Yes, their crops were a failure, and they're starving.

Make Us Sore

Riches are things
That we adore.
Riches take wings
And make us sore.

Forgot Something

"Who is that young woman over there in the sensationally scanty costume?"
"That is Professor Blank's daughter—you know, that very absent-minded professor."
"Hm! I should judge that she inherited her father's absent-mindedness."

Within Fashion

Mother (at a fashionable resort)—Elsie, look at your dress, it's a sight! And that's the third dress I've put on you today.
Elsie—That's nothing, mother. Look at Mrs. De Styles over there, she's had on four.

Not Interested

"You had better not come in; you know father has forbidden you the house."
"That's all right—I don't want it!"

UNCERTAIN



"Mother, George paints a wonderful future for us."
"Yes, but somehow I can't understand those futuristic paintings."

The Almighty Chef

There never was a man so great in matters of finance or state. But that, in spite of every care, his chef might drive him to despair.

Convinced

"Are you getting anything out of that course in salesmanship?"
"Not much. I'm afraid I'll never be one-tenth as good a salesman as the man who sold me the course."—American Legion Weekly.

No Let-Up

Mrs. Fozzleton—Woman's work is never done.
Mr. Fozzleton—That's right! It's just one make-up after another, isn't it, my dear?

GAINED 17 NEEDED POUNDS

Adding her voice to the thousands who are praising Tanlac for the return of health and strength, Mrs. George Hermig, relates her remarkable experience with the medicine.

"To me Tanlac is the greatest medicine in the world. It has not only increased my weight 17 lbs., but it has also brought me the best of health. I had suffered from nervous indigestion for five or six years and had reached the point where it was either get relief or break completely down.

"When I began taking Tanlac I only weighed 99 lbs. I couldn't sleep, felt tired all the time, and was often unable to do my housework. Since taking Tanlac I weigh 116 lbs. and am a new person. Tanlac is also helping my little eight year old girl. It makes her eat more and sleep better, and I consider it deserving of only the highest praise."

What Tanlac has done for others it can also do for you. For sale by all good druggists. Accept no substitute. Over 40 million bottles sold.

Tanlac Vegetable Pills for constipation, made and recommended by the manufacturers of Tanlac.

TANLAC FOR YOUR HEALTH

New Sun Dial Accurate

Although sun dials have been satisfactory in a general way for giving the hours, a new one has been invented that tells time to within 30 seconds. Hands are geared to the dial, which has an additional part through which a ray of light passes. The dial is improved also to correct for different positions of the sun during the different seasons, allowing for the equation of time of the amount of time the sun is ahead of or behind its average position. The inventor is Prof. W. E. Cooke, an astronomer of Sydney, Australia.

Cuticura Comforts Baby's Skin

When red, rough and itching, by hot baths of Cuticura Soap and touches of Cuticura Ointment. Also make use now and then of that exquisitely scented dusting powder, Cuticura Talcum, one of the indispensable Cuticura Toilet Trio.—Advertisement.

Question

"Reg called on me today and declared his love."
"Really! Which one?"

Junction—a place where two roads separate.

Well-Merited Success

Honored politically and professionally, Dr. R. V. Pierce, whose picture appears here, made a success few have equalled. His pure herbal remedies which have stood the test for fifty years are still among the "best sellers." Dr. Pierce's Golden Medical Discovery is a blood medicine and stomach alternative. It clears the skin, beautifies it, increases the blood supply and the circulation, and pimples and eruptions vanish quickly. This Discovery of Doctor Pierce's puts you in the condition, with all the organs active. All dealers have it. Send 10 cents for trial package of tablets to Dr. Pierce, Buffalo, N. Y.

Industries Active

The manufacturers of the United States are apparently making a new high record in their industrial activities in 1925. This evidence of an enlargement of their output is found in a study made by the Trade Record of the National City Bank of New York of increases in their demands for the classes of manufacturing material which they find it necessary to draw from the outside world.

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BELLANS FOR INDIGESTION 25 CENTS
6 BELLANS Hot water Sure Relief
BELLANS FOR INDIGESTION
25c and 75c Pkgs. Sold Everywhere

PASTOR KOENIG'S NERVINE
FOR NERVOUS AILMENTS
PRICE \$1.50
Write for FREE BOOKLET!
If your druggist cannot supply you, order from Koenig Medicine Co., 1048 N. Wells St., Chicago, Ill.

EPILEPTICS—At Last!
A treatment which positively stops all seizures from first day's use. No bromides or narcotics. Guaranteed. Information free.
Hunter Sanatorium, Little Rock, Arkansas

BLOTCHY SKIN
need not annoy you. Pimples, black heads, etc. are quickly dispelled by
Resinol

TRACES OF EARLIEST MAN FOUND IN THE GOBI DESERT

American Museum of Natural History Learns Andrew Has Made Interesting Discoveries.

Peking.—The forerunner of the mammal is believed to have been discovered by Roy Chapman Andrews, leader of the third Asiatic expedition of the American Museum of Natural History, with the finding of six true mammalian skulls in the Gobi desert. Geologists pronounce the skulls 2,000,000 to 3,000,000 years older than the age of the mammals.

On the strength of a letter received from the museum stating that a specimen from the last exploration, which had been submitted as a lizard, had turned out to be a mammal, search was made for similar specimens. The result, Andrews declared, was discovery of two types of skulls, marsupial and multituberculate, imbedded in rock and in the form of nodules.

They were skulls of beasts not larger than a rat.

Another discovery upon which Andrews places great importance are traces of human life, which represent transition from the stone age through the flint period and to the age of primitive pottery.

"We believe," he said, "that we have found traces of the earliest types of man developing out of the ape as well as indications of a civilization that went from Europe into Asia."

Although no human bones of that early period have been found, evidences of habitation in a sandy valley and discovery of implements and heads of weapons in flint, jasper and chalcedony found in rock formations, are believed to represent a type of development never before found in Asia, and corresponding to the Azilian type in Europe. The expedition found 40 more dinosaur

eggs of the same type as those which previously aroused great interest among scientists. Mr. Andrews said 38 of the eggs would be carried back to America. Two were presented to a museum in Urga, Mongolia.

An important feature of this find, in Mr. Andrews' opinion, is the fact that the eggs are of the genus protoceratops, which he declared was the ancestor of the giant species found in America. A third type of eggs had a very thin shell.

Queen Starts New Fashion

London.—When Queen Mary sets a fashion—which is rarely—it invariably catches on with the smart set. The latest vogue which the queen has started is the wearing of small real jewels in her hat. Several society women at the recent racing meetings followed the fashion, but on a larger scale, the jeweled ornaments being in the shape of valuable brooches.

It is no point of wisdom for a man to beat his brains about things impossible.—Harkwell.