Scientist, Gives Results

of Experiments.

Meny Other Edicale

AND THE WOR

### DYNAMO PRODUCED | HEARING OF ANTS BY BOY'S PASTIME

tor Wrung From Discarded Magnets.

The fact is not generally known that the electric generator or dynamo was actually due to an experiment by a fe-year-oid boy, the son of Professor Henry, a scientiat of fame in the first half of the last century.

Professor Henry had experimented echanticity in electricity, endeavoring to get from chemical batteries actured that could be commercially used, writes Seores F. Stratton in St. Nicholast. He discorded agreement of the abdomen and that sounds are superlying, After the care of that these organs are situated in the second one of the little testing instruments—a gavanteding the selectric current and, hooking on the wires in the way he had seen his level of the selectric current and, hooking on the wires in the way he had seen his level of the son of the selectric current and, hooking on the wires in the way he had seen his level of the selectric current and, hooking on the wires in the way he had seen his level of the selectric current and, hooking on the wires in the way he had seen his level of the selectric current and, hooking on the wires in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way he had seen his level of the post in the way in the wa

### FARM OF EELS ON **COAST OF DENMARK** IS HIGHLY ACUTE

Discovery of Electric Genera- Professor Pringle, a Scotch Ingenious Methods Result in a Very Profitable Industry.

each of these holes is attached a small conteal eel-net of the ordinary shape, that opens into the box. There are also rows of holes that permit the circulation of water and the escape of undersized eels. The central part of the box is carried up so as to be above water when the rest of the box is submerged, and a hatch in the side of this raised part gives access to the interior.

By means of a windmill and a wooden chute, salt water is pumped into the lake in front of the box for a day before a consignment is required. This attracts the eels, which want to migrate to sea. At night the stream of salt water is led thru the box by means of the chute, and thus entices the eels to enter. The box is then hoisted out of the water by a geared winch, and the eels are removed.

buys gobies and other unmarketable fish at a low rate, minces them in a machine worked by the windmill, and throws them into the lake loose. The market price of eels at Copenhagen values from ten to twenty-light cents a pound, and in 1911 Mr. Nielsen's catch amounted to over 13,000

# ON PLANT GROWTH

Experiments of Prof. Bernbeck Show Some Interesting Facts.

A rather surprising degree of influence of the wind upon plant growth and crops has been shown by the experiments of Dr. Oscar Bernbeck, a German professor of agriculture. Severe gales tended to produce deformity, giving a twisted and knotty shape to twigs, and ordinary winds diminished the energy of growth of sprouts thru the increase of transpirations and alteration of circulatory conditions, and had a drying effect that in some cases caused serious injury to both soil and plants.

Under a wind of thirty-three feet per second, the ground tost three or four times as much water as on protected land. On ground sufficiently moist, strong sprouts were but little affected, but on some soils the growth with no wind was three times as great as with a wind of thirty-three feet per second.

It was evident that the usual moderate wind of Germany—ten to twenty-five feet per second—may lessen the yield of exposed land more than half.

Protection is to be sought by various kinds of wind shields, such as A rather surprising degree of

than half.

Protection is to be sought by various kinds of wind shields, such as walls and hedges, and especially by planting forests on neighboring hills.

## **WINNEBAGOES ARE OUITTING OLD LIFE**

That there has come both an industrial and spiritual awakening and the longing for a new life is shown, says The Southern Workman, in the movement which

thern Workman, in, the movement which has begun.

Of the 212 families on the reservation, 115 are now living on their own allot-ments, and five years of the second that and suppreciate it.

So wonderful is the change that is taking place that the veteran missionary. Dr. Williamson, who has given his whole life to Indians and understands them thru and thru, speak of it as a "modern miracle" and in the inext more contained than the second thru the camis at Sull's Ste. Maries in the life, and in the the stere for a batter life, and in spite of the conditions them the life, and in spite of the conditions the way of the commodities which as one of the conditions the way of the commodities which was considered a very good and make the youngst Winnebagoes feel that they, too, can come out from the life which seemed their in heritange.

So wonderful is the change that is taking place that they to the seemed their in the strip of the commodities with those of 1912.

Twenty years ago, nearly eleven and a quarter million tons of freight passes they find the proposition of the considered a very good with the seemed their in the tribe the desire for a batter was considered a very good with the seemed their in large that they conditions the proposition of the conditions the proposition of the conditions the proposition of the passes of 1912.

Twenty does the carrying of exactly ten mile.

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Street, at Bay and Teraulay Streets, should study and pay particular attention to the method of car operation in effect at these new intersections.

SPECIAL NOTICE TO DRIVERS OF

MOTOR CARS AND OTHER

VEHICLES.

Re Queen, Bay & Teraulay Intersections.

Drivers of vehicles east and west bound on Queen

SAFETY FIRST

On account of the short distance between the two intersections, and the length of cars using the curves, it has been considered advisable, in the interests of safety and to prevent delay and congestion, to stop all cars on the near side of these intersections, and after starting and making the curves on to Queen Street, not to stop the cars on Queen Street between Bay and Teraulay, but to have them proceed to the next regular stopping place on the route. The following is the operation on the different lines :-

DUNDAS CARS, westbound, stop at the white pole on the north side of Queen opposite the east side of Bay, and, upon signal to proceed, travel west on Queen and turn north to Teraulay, without making a stop at Queen and Teraulay.

SOUTHBOUND DUNDAS CARS stop on Teraulay Street at the white post first north of Queen, and, upon signal to proceed, turn east on to Queen, along Queen and south on Bay to Richmond, without making a stop at corner of Queen and Bay.

Drivers of east and west bound vehicles should be exceedingly careful to observe what line of cars the police man signals east and west on Queen between these intersections, because if it be Dundas cars it must be borne in mind that, if westbound, they will turn up Teraulay, and if southbound they will turn down Bay, without stopping at the corners, and care should be exercised not to drive too near the curves.

PARLIAMENT CARS, eastbound on Queen, stop at the white pole on the south side of Queen, directly opposite the west side of Teraulay, and, upon signal to proceed do not stop again until they reach Queen and Yonge.

Drivers of vehicles westbound on Queen, desirous of turning down Bay, should keep a lookout for eastbound Parliament cars, as they do not stop at the south-west corner of Queen and Bay, as heretofore.

THE QUEEN AND BLOOR CARS stop at the southeast corner of Bay and Queen Streets, and, upon signal to proceed, do not stop on Queen until they reach Elizabeth

Drivers of vehicles southbound on Teraulay should remember that westbound cars on Queen do not stop at the corner of Queen and Teraulay.

JAMES GUNN,

Superintendent Toronto Railway Co.

An enthusiastic reader writes: "I wish that I might meet the author personally and tell him how delighted I am with this most enjoyable trip to Panama and the Canal."

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Read of the People That Eat Lizards

Willis J. Abbot, the author of this book, spent many months in the Canal Zone familiarizing himself with every possible detail of

the subject. Having long been an autnoritative writer on international subjects, he not only has an extensive acquaintance among the officials who are in a great measure responsible for the building of the Canal, but is also intimately acquainted with those directly in charge of the actual work; thus he is beyond all doubt the best fitted writer

proof of which lies in the fact that he has written this story that will live as long as the

See the Rare Pictures of the Queer Natives

The World, 40 Richmond St. W., Toronto and 15 Main St. E., Hamilton

these figures with those of the locks were worked for 95 vessels the carrying of firearms on the locks were worked for 95 vessels. Before him appeared for trial a youth charged with getting drum more vessels, upon some days, for fewer.

It was a great season upon the lakes, was worth \$791,357,837.

It was a great season upon the lakes, was that of 1912. This year may prove a greater. In only a few seasons more the men at the canals who keep track of the steamers may be able to report the passage of 100,000,000 tons of freight, almost ten times as much as was borne in 1892.

The charges averaged for many more days, for fewer.

"Twenty dollars and costs," as magistrate.

"But, your honor," interposed set for the prisoner, "my client do the steamers may be able to report the passage of 100,000,000 tons of freight, almost ten times as much as was borne in 1892.

"Yes; but he fired into the explained the lawyer."

"Yes; but he fired into the explained the lawyer."