## THE EVENING TELEGRAM, ST. JOHN'S, NEWFOUNDLAND, OCTOBER 10, 1924-12

## **Scientists Unveil** Many Dark Secrets

DIAMOND MINES IN CANADA ARE TRACED BY STONES FOUND IN VARIOUS PARTS OF UNITED STATES.-HOW DEER GOT HIS HOBNS, ROOSTER HIS SPURS AND PEACOCK HIS GAUDY PLUM-

Toronto, Ont., Aug. 13.-By tracing more than a hundred diamonds found in glacial drift in Ohio, Indiana, Michigan and Wisconsin, Dr. George K. Kunz of New York, the mineralogist and gem expert, has succeeded in following the route of the glacier which carried them from Canada and in indicating the area in which diamond mines probably exist in Canada.

Dr. Kunz, who addressed the British Association for the Advancement of Science, submitted for Canadian geologists more than twenty specimens of rocks found in the glacial drift in association with the diamonds, and many of these specimens were identified as familiar rock in various localities in Ontario

"One of the diamonds found in America was a fine stone of seventeen carats, which was discovered by men digging a well in Wisconsin," said Dr. Kunz "More than 100 other diamonds have teen found in glacial drift in America and some in Canada. I have seen a thirty-carat diamond which was found in gravel in Ontario. The man who found it trought it to show me in New York and I found it to be of excellent quality, probably having been carried by the same glacial movement which spread on in a fanlike format'on. The owner of that diamond died and it is now in the possession of his

"Undouttedly diamond mines exist in some parts of Canada, and by close-In tracing the glacial drift to the point of orig'n the general locality of the er le found. All of the diathe world to-day do not cecuny ar frea of more than four square miles.

"In its conthwest movement the glacier must have gouged out the top of the diamond mine and carried the diamonds alout, depositing them over an area of a thousand miles or more in Clamater. I have no doubt that a diamond mine or mines of great value are to be found in Canada."

## "LYMOUTH ROCK ALSO AN ALIEN.

Dr. Kunz, who is President of the American Scenic and Historic Preservation Society, also succeeded in obtaining a geological identification of Mymouth Rock. That famous rock was Nown to have been carried by a glacier from the mother body of rock north of the St. Lawrence, probably in Labrador. Dr. Kunz trought here bits of Flymouth Rock and microscopic sections for the examination of Dr. A. P. Coleman, Dr. W. H. Collins, Prof. T. L. Walker, Dr. H. M. Amf and other Canadian gcologists.

dian geologists. Security Rock was identified as biotite granite with altered plagio-"biotite granite with altered plagio-



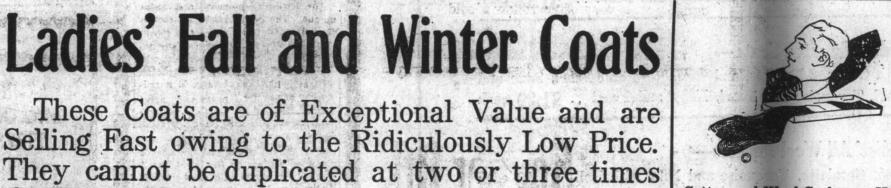
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ological physics at Washingto ho discussed all types of rain-ma ing apparatus and pronounced the qually worthless, although it is say hat scientific results of importan ad been achieved in these exper

The Bancroft-Warren system rinkling clouds with electrified pa sand had been used by t my for dispersing clouds and maj ng holes in fog to enable airplar o find their way from the sky to lan and water. Planes equipped heir apparatus were taken to Nor punch holes in the fog, j cessary, for the benefit of the roun he world fliers. These experimen ers have not yet attempted to appl heir invention to the making of ra on the ground that means must ound to protect the fliers from ele trical effects that might be caused h oursting storm clouds with elec fied particles

Dr. Humphreys, however, include the Bancroft-Warren process wi the others in his criticism of rain naking schemes. He classified t chief rain-making proposals as "t production of loud noises, fog o lecting screens, mechanical or fo ced connection, dusting the sky spraving liquid air on clouds a sprinkling clouds with electrific

> There comes a time in the life of every man when he must leave his worldly possessions to the care of another. In anticipation of this, therefore, the first obligation resting on an individual who is possessed of property is the making of a will, and this should be done before the capacities become impaired by time or the ravages of disease THE MONTREAL TRUST

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clase feldspar." Dr. Kunz estimated that it it made the pilgrimage to its present position on a glacier about 500,000 years ago. An explanation of how the male

deer acquired horns, and roosters 6 spurs and peacocks their gorgeous plumage was offered by J. T. Cunninghani. Injuries and irritations sustained in courtship and fighting by countless generations of these and other creatures gradually became bereditary characteristics, he said By constant butting, the buck deer and goat developed their head itjuries into permanent attributes.

The endocrine glands are the con necting link which makes it possible for local 'njuries, or the growth of callous tissus, to develop into hereditary features. The horneless deer, for instance, by driving his skull against the skulls of other deers for scores of generations, caused the infured tissue to be absorbed into its circulation, until the new substance caused 'some modification of the chem cals produced by certain cn-"crine glands which control growth changed chemicals, or hormones, ased by the glands, gradually 't up the horns of the deer ,and in ome similar way the special fighting apparatus and decorations of other males were evolved.

HOW TO TELL AGE OF FISH. To tell the age of a horse look into his mouth, but to learn the age of a fish look into his ear. There is practical as well as scientific interest in the method of estimating the age of a fish, announced W. J. K. Herkness of the University of Toronto. Fish canners and fish experts may use it. In the region of the internal ear of lishes, corresponding in position and function to the semicircular canals or balancing organs of higher animals, there is a little closed, bony pocket. In this pocket th re is a ting tone-like object called an otolith, or 'ear stone," which rolls about as the ish tips this way and that, and helps him to know whether he is right side 1p. These otoliths grow as the fish rows, and it is by a careful study of heir marks and rates of growth that Mr. Harkness was able to devise his method of telling the age of a fish from the stones in his ears. The rain-king project of Dr. W. D Sancroft and L. Francis Warren has rcial value, acording to Dr. N. J. Humphreys, professor of met-

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