

was 50 to 80 feet thick; next came a sandy bed, with green grains; then brown sandstone, with oboli; and lowest of all, shale, with green grains and crustaceans, once supposed to be fishes, in which it appeared that Prof. Ehrenberg had discovered these Foraminifera.—Mr. A. Bryson said, he had sometimes obtained the silicious shields of Diatomaceæ from boulder clay by means of a fine sieve, when other means had failed, because the objects adhered to the minute particles of mica.



### CANADIAN INSTITUTE—SESSION 1854-55.

#### Seventh Ordinary Meeting—Saturday, February 3d, 1855.

The names of the following candidates for membership were read:—

John Helliwell .....	Toronto.
Edward Berry.....	Quebec.
Henry May .....	Quebec.

The following gentlemen were elected members:—

Robert Bell .....	Carleton Place.
Robert Grier.....	Toronto.

A paper, communicated by Major Lachlan of Montreal, was read by the Corresponding Secretary, being "An Account of an extraordinary sudden fall in the waters of the Niagara River in March, 1848, caused by a temporary obstruction of the outlet of Lake Erie by the ice."

Professor Hind illustrated the method of manufacturing gun cotton.

#### Eighth Ordinary Meeting—February 10th, 1855.

The names of the following candidates for membership were read:—

A. N. Buell.....	Toronto.
W. Thompson.....	Toronto.

The following gentlemen were elected members:—

John Helliwell.....	Toronto.
Edward Berry.....	Quebec.
Henry May .....	Quebec.

Thomas Henning read a paper "On the Asteroids."

James Bovell, M.D., communicated "Some observations on microscopic preparations of Chalk from Barbadoes, containing some infusoria."

#### Ninth Ordinary Meeting—February 17th, 1855.

The names of the following candidates for membership were read:—

C. J. Campbell.....	Toronto.
Alex. McDonald.....	"
Edward Shortis.....	"
J. C. Clarke .....	Port Hope.
Thomas Galt .....	Toronto.
Dr. Carter.....	Nelson.

William Morris .....	Perth.
Alex. Morris.....	Montreal.
James Wilson, M.D.....	Perth.

The following gentlemen were elected members:—

A. N. Buell .....	Toronto.
W. Thompson .....	"

The following donations were announced:—

From the Hon. J. M. Brodhead of Washington, by A. H. Armour, Toronto—

Compendium of the United States' Census, 1850.
Penal Codes in Europe, by H. S. Sandford.
Cruise of the Dolphin, by Lieut. Lee.
Exploration of the Red River of Louisiana, by Lieut. Marcy.
Mexican Claims; Report of the Select Committee.
Exploration of the Valley of the Amazon, by Lieut. Gibbon.
Sickness and Mortality on Emigrant Ships.
Maps to accompany Lieut. Lee's Report.
Do. do. do. Marcy's do.
Do. do. do. Gibbon's do.

From A. H. Armour, Toronto:—

Railroad to the Pacific, Northern Route; its general character, relative merits, &c. By Edwin F. Johnson, C.E. With Maps and sections.

From the Hon. East India Company:—

Meteorological Observations at the Hon. East India Company's Magnetic Observatory at Madras, in the years 1846-50.

The thanks of the Institute were ordered to be presented to the Hon. Mr. Brodhead, Mr. Armour, and the Hon. East India Company.

Professor D. Wilson, I.L.D., read a paper "On some physical elements of Ethnological classification, and their bearing on the question of the unity of the human race."

#### Tenth Ordinary Meeting—February 24th, 1855.

The names of the following candidates for membership were read:—

D. L. Macpherson .....	Toronto.
Patrick Macgregor .....	"
Alexander Grant .....	"
Alexander Logie .....	Hamilton.
James Dundar Pringle .....	"
T. S. Hunt.....	Montreal.

The following gentlemen were elected members:—

C. J. Campbell.....	Toronto.
Alex. McDonald.....	"
Edward Shortis.....	"
J. C. Clarke .....	Port Hope.
Thomas Galt.....	Toronto.
Dr. Carter.....	Nelson.
William Morris.....	Perth.
Alex. Morris .....	Montreal.
James Wilson, M.D.....	Perth.

The following donations were announced:—

From E. C. Hancock, Toronto—

Britannia Depicta, or Ogilby Improved, by John Owen.

From the Hon. J. H. Brodhead, Washington:—

The Case of the Black Warrior, 1854.

Report of an Expedition down the Zuni and Colorado Rivers, by Capt. Sitgreaves, C.T.E.

From A. H. Armour, Toronto:—

Montreal and the Ottawa, by T. C. Keefer.

The thanks of the Institute were ordered to be transmitted to the above-named gentlemen.

Professor Hind read a paper "On the North American drift."