

CONTRIBUTION TO THE PALEONOMOLOGY OF THE POST-PLIOCENE DEPOSITS OF THE OTTAWA VALLEY.

By HENRY M. AML, M.A., D.Sc.

In connection with the Pleistocene fossils of the Ottawa district, the writer has brought together a few notes which may be deemed of service to those who wish to carry on further investigations in this promising field. The evidences of fossil marine organisms in the sands, clays and gravels about Ottawa are as follows :—

(1) In his "*Contributions to the Pleistocene flora of Canada*"* Prof. D. P. Penhallow has noted the occurrence of many species of trees and plants in the concretionary nodules found in the marine clays of Green's Creek, Besserers, &c, in the Leclay Clay formation (Pleistocene) of the Ottawa Valley. From the collections of nodules recently made at Besserer's Grove and sent to Prof. Penhallow for examination he has recognised the following interesting flora as may be also gathered from a letter by Dr. Penhallow.

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| 1. <i>Betula lutea</i> . | 8. <i>Potamogeton perfoliatus</i> . |
| 2. <i>Cyperaceæ</i> . | 9. " <i>pusillus</i> . |
| 3. <i>Equisetum limosum</i> . | 10. " <i>rutilans</i> . |
| 4. <i>Fucus digitatus</i> . | 11. <i>Potentilla Anserina</i> . |
| 5. <i>Hypnum fluitans</i> . | 12. <i>Vallisneria</i> sp. |
| 6. <i>Populus balsamifera</i> . | 13. <i>Typha latifolia</i> (?) |
| 7. " <i>grandidentata</i> . | |

(2) In "*Geological History of Plants*"† Sir William Dawson has recorded the following species of fossil plants from the nodules found at Green's Creek by himself and other collectors :

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| 1. <i>Potentilla Canadensis</i> . | 7. <i>Potamogeton perfoliatus</i> . |
| 2. <i>Drosera rotundifolia</i> . | 8. " <i>pusillus</i> . |
| 3. <i>Acer spicatum</i> . | 9. <i>Equisetum scirpoides</i> . |
| 4. <i>Gaylussaccia resinosa</i> . | 10. <i>Fontinalis</i> , sp. |
| 5. <i>Populus balsamifera</i> . | 11. <i>Fucus</i> or <i>Ulva</i> , sp. |
| 6. <i>Thuja occidentalis</i> . | 12. <i>Carices</i> and <i>Gramineæ</i> , several species. |

Regarding these plants Sir William argues (p. 232) : " I regard the plants above-mentioned as probably belonging to the

*Trans, Royal Soc. Canada, Vol. II, New Series, Sect. IV, pp. 59-77, Ottawa, 1896.

†Intern. Scientific Series, Vol. LVI, 1892.