

higher peaks of rock remained over the surface, when the water commenced to dry off the streams cut their way back through the drift, leaving the land in its present condition of elevation and gradual denudation.

II. PALÆONTOLOGY.

BY HENRY M. AMI, M.A., F.G.S.

(1.) At Cook's Rapids, on the Castor River, on the 8th lot of concession IX. in the Township of Russell there is exposed a series of bluish-gray shaly, nodular and at times unevenly-bedded limestones which, from the fauna it holds, is clearly referable to the middle portion of the Trenton formation (Ordovician), an horizon which is met with at Ottawa. and represented in the beds which crop out in the vicinity of the Waterworks Office and at the foot of Parliament or old Barrack Hill. The association of fossil remains is precisely similar here as in those localities, and amongst them were recognized the following species :—

- | | |
|---|---|
| 1. <i>Buthotrephis gracilis</i> , Hall. | 13. <i>Platystrophia lynx</i> , Eichwald. |
| 2. <i>Licorhynchus succulens</i> , H. (Sp.) | 14. <i>Bellerophon bilobatus</i> , Sowerby. |
| 3. <i>Pascolus globosus</i> , Billings. | 15. <i>Bucania bidorsata</i> , Hall. |
| 4. <i>Brachiospongia digitata</i> , Owen. | 16. <i>Cyrolites compressus</i> , Conrad. |
| 5. <i>Protarea vetusta</i> , Hall. | 17. <i>Murchisonia bellicincta</i> , Hall. |
| 6. <i>Streptelasma corniculum</i> , Hall. | 18. " <i>Milleri</i> , Hall. |
| 7. <i>Prasopora lycoperdon</i> , Vanuxem | 19. " <i>gracilis</i> , Hall. |
| 8. <i>Strophomena alternata</i> , Conrad. | 20. <i>Trochonema umbilicatum</i> , Hall. |
| 9. <i>Leptaena sericea</i> , Sowerby. | 21. <i>Asaphus megistos</i> , Locke. |
| 10. <i>Orthis testudinaria</i> , Dalman. | (<i>Isotelus gigas</i> , DeKay.) |
| 11. " <i>pectinella</i> , Conrad. | 22. <i>Encrinurus vigilans</i> , Hall. |
| 12. " <i>occidentalis</i> , Hall. | 23. <i>Dalmanites callicephalus</i> , Green |

The above species were collected by Messrs. Craig and Summerby in company with the writer during a sub-excursion of the geological branch in 1884, and, as may readily be inferred from the small list presented, the same could be greatly increased by subsequent research in those measures which are very fossiliferous.