

Showcase of Nova Scotia Fossils & Geology – Fundy Fossils and Planetary Geology

Dr. Paul Olsen, Columbia University. Original seminar recorded on May 1, 2020.
Host: Tim Fedak, Nova Scotia Museum and Co-Host: Luke Allen, Citadel High School

Introduction

- 2:34 Introductions: Tim Fedak, Luke Allen and Dr. Paul Olsen.

Presentation Introduction – Triassic Vertebrates from Nova Scotia

- 2:34 – 3:13 Interconnectedness of all things, virtuous spiral
- 3:13 – 8:00 Interest Background: Riker Hill Fossil Site, Robert Salkin, Donald Baird

- 8:00 – 9:30 Bay of Fundy Geology, lava flow sequences
- 9:30 – 12:52 Five Islands Provincial Park, finding dinosaur footprints, Edward Hitchcock
- 12:52 – 16:46 Wasson Bluff, Sir William Dawson, Revisited geology, Prosauropod bone fragments – Canada’s oldest dinosaurs
- 16:46 – 18:21 Medford, 100’s of Dinosaur-like footprints
- 18:21 – 19:38 3D Sphenodontid skull, inspired National Geographic funding
- 19:38 – 21:00 Eldon George contributions, Nova Scotia’s Special Places Protection Act
- 21:00 – 25:21 Triassic-Jurassic extinction.
- 25:21 – 31:32 Triassic lake level cycles, Geological Orrery, celestial mechanics, plane of dark matter
- 31:32 – 32:53 Conclusion: Relating back to geology and fossil record at Wasson Bluff, interconnectedness

Discussion and Questions

- 32:32 – 33:40 Nova Scotia’s early geologists at Blomidon and Wasson Bluff
- 33:40 – 35:17 Wasson bluff - confusing geology, dinosaur burial interpretations
- 35:17 – 36:11 Sedimentological approach – Is this important for someone who is interested in pursuing palaeontology? “I cannot escape the connection between that biology and the physical world”
- 36:11 – 38:28 Footprints – Is Ichnology important in palaeontology and what can it tell us?
- 38:28 – 41:20 How does palaeontology apply to the modern world?
- 41:20 Thank you and goodbyes