

# Showcase of Nova Scotia Fossils & Geology - Triassic Fossils

Dr. Hans-Dieter Sues, Smithsonian Institute. Original seminar recorded on April 23, 2020.  
Host: Tim Fedak, Nova Scotia Museum and Co-Host: Luke Allen, Citadel High School

## **Introduction**

- 2:25 Introductions: Tim Fedak, Luke Allen and Dr. Hans Sues.

## **Presentation Introduction – Triassic Vertebrates from Nova Scotia**

- 2:25 – 4:40 Pangaea Supercontinent, Triassic Period, Diversity and Extinction
- 4:40 – 5:00 Overview Archosaur Taxonomic Tree
- 5:00 – 6:45 Triassic Geology, Fundy Rift Basin, Bay of Fundy sites
- 6:45 – 9:15 People: Dr Donald Baird and Dr. Paul Olsen (Columbia University).
- 9:15 – 10:50 Field sites, finding fossils and psuedofossil “Gull-ite” 😊
- 10:50 - 16:00 *Metoposaurus* “toilet-lid jaw”, Procolophind (*Scoloparia*), Rhynchosaur “hedge clipper jaws”
- 16:00 – 22:30 *Teraterpeton*, Aetosaurus, Dicynodonts, *Arctotraversodon*
- 22:30 – 24:20 Carnivore – Rausuchid (*Postosuchus*) “*T. rex* of the day”
- 24:20 – 27:15 Central Atlantic Magmatic Province (CAMP), end-Triassic extinction.
- 27:15 – 30:40 Wasson Bluff, Canada’s oldest dinosaurs.

## **Discussion and Questions**

- 30:40 – 32:15 Spines on Procolophonid skull, potential defense.
- 32:15 – 33:20 Canada’s oldest dinosaurs in Nova Scotia - What are the oldest dinosaurs found in the world?
- 33:20 – 34:15 What are the most common vertebrates in the Triassic?
- 34:15 – 35:10 What is your most memorable find or research discovery? “It’s such a privilege, because you’re the first person to ever see that animal”
- 35:50 – 38:35 A different question: Looking at Dicynodonts... are any Triassic vertebrates inspiration for Star Wars or other sci-fi movies? 😊
- 38:35 Thank you and suggested references, Atlantic Geology review papers.