



Association for Women Geoscientists

## **AWG Newfoundland and Nova Scotia Field Trip**

**August 1-15, 2023**

Join us for a beautiful and fascinating geologic tour of the western part of Newfoundland and coastal Nova Scotia. The Newfoundland portion will be led by **Dr. James Brennan** (Dalhousie Univ.) and **Dr. Neil Bennett** (University of Toronto). The focus will be on Newfoundland's Humber Zone, that records Cambrian to Ordovician passive margin sedimentation followed by deformation and ophiolite obduction during the closure of the Iapetus Ocean during the Taconic Orogeny. The Nova Scotia portion will be led by **Dr. Sandra Barr** (Acadia Univ.) and will explore coastal Cape Breton Island and southern Nova Scotia looking at the varied rocks of Laurentia and the accreted crustal blocks of Ganderia, Avalonia, and Meguma. Trip highlights include:

- Gros Morne National Park in western Newfoundland, including Laurentian lower Paleozoic shelf sediments, submarine volcanics, and the Tablelands that expose oceanic crust and upper mantle rocks of the Bay of Islands Ophiolite Complex (BOIOC).
- A traverse of Trout River Pond by boat to explore the heart of the BOIOC and observe outcrops of the Moho.
- L'Anse aux Meadows, a UNESCO World Heritage Site, which contains the remains of an early 11<sup>th</sup> century Viking settlement and evidence for the first European presence in North America.
- A visit to the global stratotype for the Cambrian-Ordovician boundary at Green Point.
- A tour of coastal Cape Breton Island, including Avalonian volcanic arc rocks in the south, Ganderian metamorphic and granitoid rocks around the famously scenic Cabot Trail, and glimpses of billion-year-old Laurentian Shield rocks in the far north.
- A stratigraphic overview of the 15-km-thick turbidites of the Meguma terrane, their spectacular metamorphic mineralogy, and the associated aluminum-rich granites, including the iconic South Mountain Batholith.

Please email Marcia Knadle at [pastpresident@awgpnw.org](mailto:pastpresident@awgpnw.org) if you would like to register if space is available. The price is **\$2900\*** with a minimum of 14 and a maximum of 16 participants, and you **MUST** be a 2023 member of AWG to join this trip. Full payment is due May 5, 2023.



Tablelands, Gros Morne NP, NL and Long Point and Port-au-Port Peninsula, NL. (photos N. Bennett)

Green Cove Headland, NS. (photo S. Barr)

\* Price includes 14 nights double-occupancy lodging. (A VERY limited number of single rooms are available for an additional \$630.) Price also includes transportation by minivan, most lunches, a few cooked group dinners, and some breakfasts. It does **not** include transport to and from Halifax, NS, or transportation within Halifax.