



Women in Science Speaker Tour

A River at the North Pole: Finding the Transpolar Drift

Public Talk by
Dr. Heather Reader,
*Assistant Professor,
Department of Chemistry
Memorial University*

Friday, November 2, 2018
6:30 p.m.

**Life Science Centre Common
Area, Room 338**

Dalhousie University



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Heather Reader is a marine chemist who is broadly interested in the biogeochemical dynamics of marine dissolved organic matter (DOM). Marine DOM is an active and complex pool of carbon in the world's oceans and her research aims to decipher its role in the global carbon cycle using analytical chemistry. She received her Bachelor's of Science in Chemistry from the University of Calgary, and her PhD in Marine Sciences from the University of Georgia (USA). She is now an Assistant Professor at Memorial University of Newfoundland.

Heather will be speaking about her participation in the TRANSARC II expedition to the central Arctic Ocean to investigate the dynamics of DOM as it transits from the Siberian Shelf to the Fram Strait.

The research focused on measuring levels of DOM in the Arctic Ocean to track the movement of river water across the ocean. The Arctic Ocean is a relatively enclosed ocean, and arctic rivers supply large amounts of land-based carbon to the coastal seas. These elevated DOM concentrations persist across much of the ocean in distinct riverine waters that move across the surface of the central Arctic Ocean in a slow current called the Transpolar Drift.