



Department of Soil Science

# Fall 2024 Seminar Series

University  
of Manitoba

## Highlights and Reflections on a Dozen Years of Micrometeorology Research

Dr. Aaron Glenn  
AAFC Brandon Research and Development Center  
Micrometeorology

**Dr. Aaron Glenn is a Research Scientist specializing in micrometeorology and has worked at AAFC Brandon since 2011.** He has a Ph.D. in Soil Science from the University of Manitoba. His area of expertise and research interests relate the impact that weather and climate have on crop production and the influence that agricultural production systems have on greenhouse gas emissions and air quality.

**This seminar will chronicle the establishment and evolution of the micrometeorology program at Agriculture and Agri-Food Canada (AAFC) Brandon Research and Development Centre.** The research portfolio addresses two main areas under AAFC's Strategic Plan for Science: (1) Mitigating and adapting to climate change; and (2) Increasing the resiliency of agro-ecosystems. These mission-driven science priorities and outcomes are tackled through extensive research on the fluxes of water, carbon (C), and nitrogen (N) between agroecosystems and the lower atmosphere, as well as, applied agricultural meteorology investigating emerging crops and rotations on the Canadian Prairies. A network of agroecosystem micrometeorological flux measurement stations in southern Manitoba has been used to investigate landscape-scale evapotranspiration and agroecosystem C fluxes. Other studies have focused on how land management impacts soil N<sub>2</sub>O fluxes. Examples of applied agricultural meteorology research undertaken at AAFC Brandon that have involved canola, barley, and soybean production on the Prairies will also be discussed.



Wednesday,  
September 25



12:30 p.m.



Room 346  
Ellis Building



Coffee and  
donuts provided!

**Zoom Link:** <https://umanitoba.zoom.us/j/69793025004?pwd=FgV4biKp1pwNWCXgOcHmntv9UJODBz.1>

**Meeting ID:** 697 9302 5004

**Passcode:** 525414

