



RIVERSIDE

DEPARTMENT OF ENTOMOLOGY

ENTM250 Seminar Series



Speaker:

John Tuthill

Associate Professor, Department of Physiology and Biophysics, University of Washington, Seattle, WA

Date: Monday, February 27, 2023

Time: 4:00 pm - 4:50 pm

Format: In-Person Seminar & Virtual Access

Location: Genomics Auditorium 1102A

Zoom: 938 1040 4405

Passcode: 833289

Title:

“Sensorimotor control in walking fruit flies and snow flies”

Abstract:

In Part I of my talk, I will present evidence that sensory signals in the axons of *Drosophila* leg proprioceptors are predictively suppressed during walking. Suppressing expected proprioceptive feedback caused by self-generated movement increases sensitivity to unexpected external perturbations. In Part II, I will discuss extreme cold tolerance in the snow fly (*Chionea*), a native of the Pacific Northwest. I will present evidence that snow flies can sustain coordinated walking behavior at internal temperatures of -10° C.

Refreshments will be served in the Entomology Building Lobby at 3:30pm