University of Victoria

PHYSICS AND ASTRONOMY COLLOQUIUM (In-Person)

Dr. Nancy Ford

University of British Columbia

"Micro-Computed Tomography in Oncological Models"

Abstract

"Micro-computed tomography is a high-resolution x-ray imaging technique that can produce 3D and 4D images of live rodents for preclinical modeling of various diseases. Advantages of this technique are the non-invasive nature of imaging, and the ability to translate knowledge and measurement techniques between clinical CT and preclinical micro-CT. By imaging the same animal over many time points, we can monitor the progression of disease or response to an intervention. In this presentation, I will describe recent studies performed in my lab using micro-CT for longitudinal monitoring of oncological models. Specific examples will include contrast-enhanced imaging of metastatic tumors in the liver, and assessing radiation-induced side effects in the lung following radiation therapy treatment."

Wednesday, November 22nd, 2023

3:30 p.m. PST

ECS 125

Zoom link available on Event Calendar