

# 129<sup>th</sup> WPI-IIIS Seminar

## Social Behavior in worm larvae

After starvation, newly hatched *C.elegans* larvae come together spontaneously to form aggregates. Neither the purpose nor the mechanism of this aggregation behavior are known. We have developed a simple chemotaxis model (loosely based on the classic Keller-Segel model for slime mold aggregation) to explain the mechanism. I have developed numerical simulations based on this model. These simulations are partly successful in reproducing some aspects of the behavior.



**Dr. Leon Avery**

University of Waterloo

Date: **Thursday, April 12, 2018**

Time: **12:00 – 13:00**

Venue: **1F Auditorium, IIIS Building**



Contact: International Institute for Integrative Sleep Medicine, University of Tsukuba  
029-853-8080 (ext. 8080) | [wpi-iiis-alliance@ml.cc.tsukuba.ac.jp](mailto:wpi-iiis-alliance@ml.cc.tsukuba.ac.jp)