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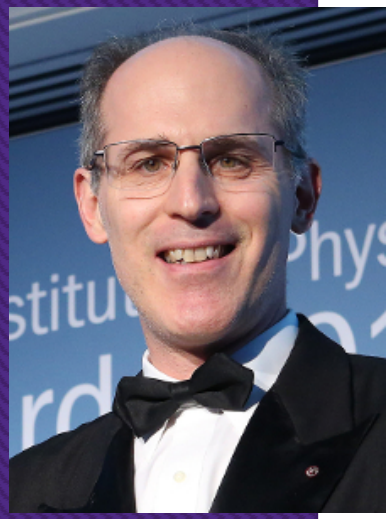

Reiss Lecture Series Presents:

Fluid Mechanics at the Scale of the Cell

Professor Raymond E. Goldstein FRS

Department of Applied Mathematics and Theoretical Physics
Centre for Mathematical Sciences, University of Cambridge

April 9, 2017• 4:00 PM (Day 1)
M416, Technological Institute

The world of cellular biology provides us with many fascinating fluid dynamical phenomena that lie at the heart of physiology, development, evolution and ecology. Advances in imaging, micromanipulation, and microfluidics over the past decade have made possible high-precision measurements of such flows, providing tests of microhydrodynamic theories and revealing a wealth of new phenomena calling out for explanation. Here I summarize progress in several areas within the field of 'active matter', emphasizing open problems in which fluid dynamical methods are key ingredients in an interdisciplinary approach to the mysteries of life.

Reception in Cohen Commons following seminar