

UNIVERSITY of HOUSTON

Department of Mathematics

Scientific Computing Seminar

Professor L. Ridgway Scott
University of Chicago, Emeritus

Some PDE problems arising in fluid flow

Thursday, January 29, 2026
1 PM- 2 PM
Room 646 PGH

Abstract:

We describe some challenging PDE problems arising in different areas of fluid dynamics, some of which are completely open. One relates to the periodicity of the Karman vortex street. Another has to do with regularity and other restrictions on Tanner duality for non-Newtonian fluids. A third relates to regularity of transport equation solutions with inhomogeneous inflow conditions.