



**WRIGHT STATE  
UNIVERSITY**

**Wright State University Mathematics & Statistics Department  
presents  
The First Mazumdar Lecture  
In Conjunction With the 40<sup>th</sup> Anniversary Celebration of WSU**

**Speaker:** Professor Stephen H. Davis  
Northwestern University

**Title:** Interfaces between Fluids: Spreading, Thin Films and Slip

**Date:** Friday, October 5, 2007

**Room/Time:** 3:30pm Refreshments 222 MM Building  
4:00pm 202 MM Building

**Host:** Emily Tian

ABSTRACT

Interfaces between fluids possess local forces that on the small scale create a wide range of phenomena that emerge in micro- and nano-scale science and engineering. In this talk illustrations will be given of moving contact lines, boiling, evaporation, and freezing that present new and surprising effects.

ABOUT THE SPEAKER

Professor Stephen H. Davis, McCormick School (Institute) Professor and Walter P. Murphy Professor of Applied Mathematics at Northwestern University, received all his degrees at Rensselaer Polytechnic Institute (Ph.D. in Mathematics 1964). He has been Research Mathematician at the RAND Corporation, Lecturer in Mathematics at Imperial College, London, and Assistant, Associate Professor and Full Professor of Mechanics at the Johns Hopkins University. He is the editor of the Journal of Fluid Mechanics and the Annual Review of Fluid Mechanics. He has authored two hundred refereed technical papers in the fields of Fluid Mechanics and Materials Science, and written a book Theory of Solidification. He has twice been Chairman of the Division of Fluid Dynamics of the American Physical Society, and is a Fellow of the A.P.S., a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences. He is the 1994 recipient of the Fluid Dynamics Prize of the A.P.S. and the 2001 G. I. Taylor Medal of the Society of Engineering Science.

