

A HISTORY OF MOVING CONTACT LINES

Consider placing a droplet of liquid on a smooth horizontal surface. The droplet will spread until it reaches an equilibrium. This process of spreading seems so simple, yet the details are quite complex.

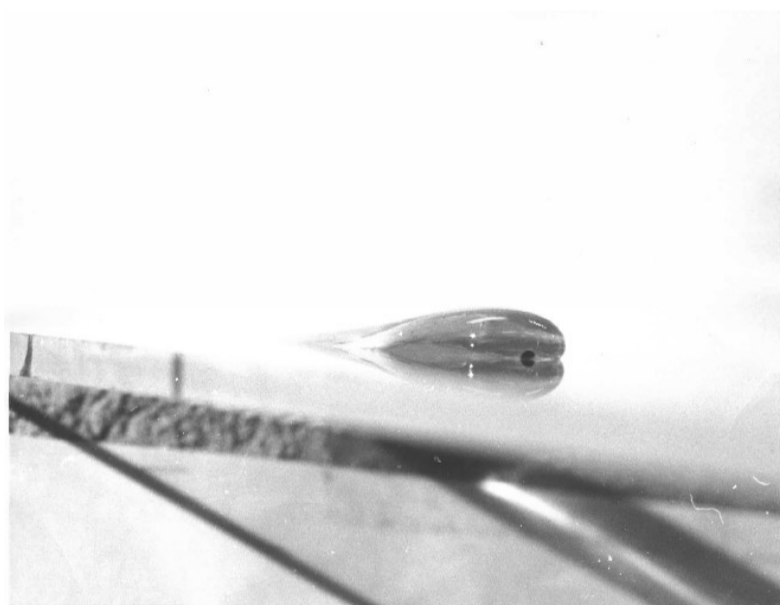
It has been studied for about 40 years, and parts of it are now very well understood. In the lecture, the dynamics of spreading will be described, certain contradictions pointed out and experiments examined.



Professor Stephen H. Davis
Northwestern University

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 was Editor of the Journal of Fluid Mechanics and is the Editor of Annual Review of Fluid Mechanics. He has authored over two hundred and fifty refereed technical papers in the fields of Fluid Mechanics and Materials Science and has written a book, Theory of Solidification. He has twice been Chairman of the Division of Fluid Dynamics of the American Physical Society, is a Fellow of the American Physical Society, member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences, is the 1994 recipient of the Fluid Dynamics Prize of the American Physical Society and the 2001 G. I. Taylor Medal of the Society of Engineering Science.



FREE ADMISSION

Thursday, 10 May 2018

6.30 - 7.30 p.m.

University Hall Auditorium
National University of Singapore
Level 2, Lee Kong Chian Wing
21 Kent Ridge Road, Singapore
119077