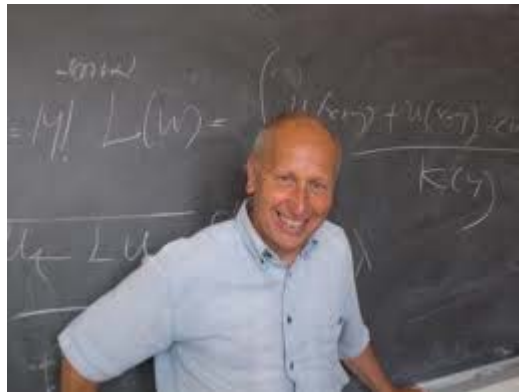# Center for Applied Mathematical Sciences
Distinguished Lecturer, Spring 2014

Luis Caffarelli

Surfaces and Fronts in Periodic Media

Abstract:

In this lecture I will review work that concerns the behavior of surfaces and fronts in a periodic media that is highly oscillatory: minimal surfaces, whose area is weighted by a periodic factor, capillary drops sitting in a composite surface, the effective speed of flame propagation in periodic media.

This is sort of a review lecture of several things I have done through the years.

Monday, March 3, 2014
University of Southern California
Kaprielian Hall

Reception: 3:00 p.m.
KAP 410

Lecture: 3:30 p.m.
KAP 414

CAMS Director:
Susan Friedlander
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Luis A. Caffarelli is a world leader in the field of partial differential equations and their applications. Caffarelli obtained his Masters of Science (1968) and Ph. D. (1972) at the University of Buenos Aires. He currently holds the Sid Richardson Chair at the University of Texas at Austin. He also has been a Professor at the University of Minnesota, the University of Chicago, and the Courant Institute of Mathematical Sciences at New York University. From 1986 to 1996 he was a Professor at the Institute for Advanced Study in Princeton. In 1991 he was elected to the U.S. National Academy of Sciences. He has been awarded *Doctor Honoris Causa* from l'École Normale Supérieure, Paris; Universidad Autónoma de Madrid, and Universidad de La Plata, Argentina. He received the Bôcher Memorial Prize in 1984. In 2003 Konex Foundation from Argentina granted him the Diamond Konex Award, one of the most prestigious awards in Argentina, as the most important Scientist of his country in the last decade. In 2005, he received the prestigious Rolf Schock Prize of the Royal Swedish Academy of Sciences. He also received the Steele Prize for Lifetime Achievement in Mathematics in 2009. In 2012 he was awarded the Wolf Prize in Mathematics.