



UNSW
THE UNIVERSITY OF NEW SOUTH WALES

DEPARTMENT OF APPLIED MATHEMATICS APPLIED SEMINAR SERIES 2007

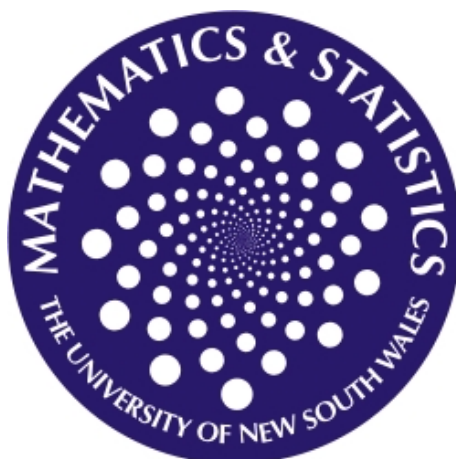
The Seminar Series of the Department of Applied Mathematics, UNSW, Sydney is dedicated to the announcement, dissemination and discussion of research in mathematics and its applications. A fundamental aim of the Seminar Series is to feature lectures that inform in a manner that makes the subject accessible to the audience, including non-specialists.

SPEAKER: Professor Frederic Dias, Centre de Mathematiques et de Leurs Applications (CMLA), ENS-CACHAN, France. Frederic.Dias@cmla.ens-cachan.fr

TITLE: Modeling of extreme hydrodynamic waves.

Abstract: Scientists have been studying hydrodynamic waves for more than 150 years. However, the planetary tragedy of the tsunami of December 2004 and the storm surges associated with Hurricane Katrina show that research related to this topic is far from being exhausted. Moreover a lot of industrial problems are related to wave impact. Recent analytical and numerical progress in the modeling of extreme waves and of their impact will be presented. Further improvements on the numerical computation of three-dimensional waves in one- and two-fluid flows will be discussed. Finally, it will be shown that there is an urgent need for models describing the impact of extreme waves on coastal areas.

TIME AND VENUE: 11am, Tuesday 27 February 2007, Room 4082, Red Centre.



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