

**The Working Group on Risk**, with the support of the group BFA (SFdS) & Institut des Actuaire (IA), has the pleasure to invite you to the Seminar by:



**Prof. Rajendra BHANSALI**  
Imperial College, London, and University of Liverpool



**Wednesday, March 5, 2014 at 12:30 pm**  
**EEE - ESSEC La Défense – room 203**

**Long Memory Properties Of Chaotic Intermittency Maps**

Time series exhibiting long-memory, in the sense of slowly-decaying correlations, occur in many different fields of applications; for example, the telecom network traffic, and the volatility in financial returns. However, the established stochastic models for characterizing the slow decay of correlations are typically linear and based on a Gaussian assumption. Thus, the popular ARFIMA family of models specify that the time series obtained after fractional differencing follows a standard ARMA model. There has lately been much development in Dynamical Systems Theory on chaotic intermittency maps which also realize long-range dependence. The talk will provide a review of some recent work on chaotic intermittency maps.

*The talk is based on the paper : R.J. Bhansali and M.P. Holland (2007), Frequency Analysis of Chaotic Intermittency Maps with Slowly Decaying Correlations.*



**YOU HAVE THE ANSWER**

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# Emeritus Prof. Rajendra BHANSALI

## Imperial College London and University of Liverpool

**Rajendra BHANSALI** is an Emeritus Professor of Statistics at the University of Liverpool and a Visiting Professor at the Imperial College, London. His honours include being an elected Fellow of the Institute of Mathematical Statistics and of the American Statistical Association and an Elected Member of the International Statistical Institute. He currently serves as an Associate Editor for the Italian Journal of Statistics and the Journal of Forecasting, and in the past he has also served as an Associate Editor for the Journal of American Statistical Association. Professor Bhansali joined the University of Liverpool in 1971 as a Lecturer in Statistics and continued to serve there as a member of academic staff until his retirement in 2008. In 1996 he was appointed to a Personal Professorship and prior to that held various non-Professorial posts. He has also worked in China at the Xian Jiatong-Liverpool University, Suzhou, for 3 academic years, 2008-11, and visited several different universities in Spain, Italy, USA, Canada, Australia on short term appointments. He has been to France previously several times, the last being in June 2013 to give a seminar at Supelec Paris.

