



*The Abdus Salam
International Centre for Theoretical Physics*



ICTP PRIZE CEREMONY

8 June 2010

2009 ICTP PRIZE

The 2009 ICTP Prize in honour of Edward Norton Lorenz is awarded to Marcelo Barreiro.

Marcelo Barreiro is recognised for his important contributions in the field of tropical Atlantic variability, and the exploration of dynamical mechanisms to explain the paleo-climatic record in the last few million years. The results of his investigations have important implications for seasonal forecasting and the climate change debate.

Edward Lorenz (1917-2008) was a great American meteorologist and pioneer of chaos theory. As Lorenz studied weather patterns he began to realise that they did not always change as predicted. Minute variations in the initial values of variables in his weather model would result in grossly divergent patterns. This sensitive dependence on initial conditions is the hallmark of dynamical chaos. Lorenz explored the underlying mathematics and published his conclusions in a seminal work entitled "Deterministic Nonperiodic Flow", in which he described a simple system of nonlinear equations that resulted in a complex dynamical object now known as the Lorenz attractor.

2009 ICTP Prize Committee

P. Creminelli
L. Götsche
F. Kucharski
M. Marsili (Chairman)

The 2009 ICTP Prize in honour of Edward Norton Lorenz

will be awarded to

Marcelo Barreiro

Universidad de la República, Montevideo, Uruguay

on

Tuesday, 8 June 2010

in the Main Lecture Hall of the ICTP Leonardo Building
at 16.00 hrs.

16.00 Welcome address by Fernando Quevedo, Director

Presentation of the 2009 ICTP Prize

2009 ICTP Prize Lecture by Marcelo Barreiro

The Role of the Oceans in Climate

17.00 Refreshments on the Terrace of the Leonardo Building