



**DEPARTMENT OF PHYSICS AND PHYSICAL
OCEANOGRAPHY COLLOQUIUM**

**“Climate Change and Its Causes: A
Discussion about Some Key Issues”**

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A comparison of past and recent studies suggests that the problem of climate change is complex, as it is evident. Several key issues remain open and their solution may drastically change our understanding of the phenomenon. In particular, I will address the following topics: a) Did the total solar activity remain constant (as the IPCC 2007 and PMOD claim) or increase (as ACRIM claims) since 1980? b) Was the preindustrial temperature almost constant (The Hockey Stick graph) or did it experience a large change? c) What is the contribution of the GHG forcing on climate change, was it overestimated in some important past publications and might this have contributed to shape and bias the following debate? It is evident that solving the above issues in one way or in another is crucial for correctly interpreting climate change, and I will show evidences that the current understanding of the above issues has to be seriously revised. I will discuss the limitations of the current climate models and propose a solution based on minimal physical assumptions that appear to have been confirmed by a large scientific empirical and theoretical literature. This solution and new empirical findings do suggest that a significant portion of climate change is natural and linked to changes of solar activity.

Wednesday, February 11, 2009

3:00 PM

DeLoach Hall, Room 212

Refreshments will be served at 2:45 PM

